

DEPARTMENT OF COMMERCE

National Oceanic and Atmospheric Administration

50 CFR Part 660

[Docket No. 160808696–7010–02]

RIN 0648–BG17

Magnuson-Stevens Act Provisions; Fisheries Off West Coast States; Pacific Coast Groundfish Fishery; 2017–2018 Biennial Specifications and Management Measures; Amendment 27

AGENCY: National Marine Fisheries Service (NMFS), National Oceanic and Atmospheric Administration (NOAA), Commerce.

ACTION: Final rule.

SUMMARY: This final rule establishes the 2017–2018 harvest specifications and management measures for groundfish taken in the U.S. exclusive economic zone off the coasts of Washington, Oregon, and California, consistent with the Magnuson-Stevens Fishery Conservation and Management Act (MSA) and the Pacific Coast Groundfish Fishery Management Plan (PCGFMP), including harvest specifications consistent with default harvest control rules in the PCGFMP. This action also includes regulations to implement Amendment 27 to the PCGFMP, which adds deacon rockfish to the PCGFMP, reclassifies big skate as an actively managed stock, adds a new inseason management process for commercial and recreational groundfish fisheries in California, and makes several clarifications to existing regulations.

DATES: This final rule is effective February 7, 2017.

ADDRESSES: Information relevant to this final rule and Amendment 27, which includes an Environmental Assessment (EA), the Finding of No Significant Impact (FONSI), a regulatory impact review (RIR), final regulatory flexibility analysis (FRFA), and amended PCGFMP, are available from Barry A. Thom, Regional Administrator, West Coast Region, NMFS, 7600 Sand Point Way NE., Seattle, WA 98115–0070. Electronic copies of this final rule are also available at the NMFS West Coast Region Web site: <http://www.westcoast.fisheries.noaa.gov>.

FOR FURTHER INFORMATION CONTACT: Gretchen Hanshew, phone: 206–526–6147, fax: 206–526–6736, or email: Gretchen.hanshew@noaa.gov.

SUPPLEMENTARY INFORMATION:

Electronic Access

This rule is accessible via the Internet at the Office of the Federal Register Web site at http://www.access.gpo.gov/su_docs/aces/aces140.html. Background information and documents are available at the NMFS West Coast Region Web site at <http://www.westcoast.fisheries.noaa.gov/fisheries/groundfish/index.html> and at the Pacific Fishery Management Council's Web site at <http://www.pcouncil.org>.

Executive Summary*Purpose of the Regulatory Action*

This final rule implements the 2017–2018 harvest specifications and management measures for groundfish species taken in the U.S. exclusive economic zone off the coasts of Washington, Oregon, and California, the harvest specifications consistent with default harvest control rules, and Amendment 27 to the PCGFMP. The purpose of this action is to conserve and manage Pacific Coast groundfish fishery resources to prevent overfishing, to rebuild overfished stocks, to ensure conservation, to facilitate long-term protection of essential fish habitats (EFH), and to realize the full potential of the Nation's fishery resources. This action includes harvest specifications for 2017–2018 consistent with existing or revised default harvest control rules for all stocks, and establishes management measures designed to keep catch within the appropriate limits. The harvest specifications are set consistent with the optimum yield (OY) harvest management framework described in Chapter 4 of the PCGFMP. This final rule also implements Amendment 27 to the PCGFMP. Amendment 27 adds deacon rockfish to the PCGFMP, reclassifies big skate as “in the fishery,” adds a new inseason management process for California fisheries, and makes several clarifications. This rule is authorized by 16 U.S.C. 1854 and 1855 and by the PCGFMP.

Major Provisions

This final rule contains two types of major provisions. The first are the harvest specifications (overfishing limits (OFLs), acceptable biological catches (ABCs), and annual catch limits (ACLs)), and the second are management measures designed to keep fishing mortality within the ACLs. The harvest specifications (OFLs, ABCs, and ACLs) in this rule have been developed through a rigorous scientific review and decision making process, which is described in detail in the proposed rule

for this action (81 FR 75266, October 28, 2016) and is not repeated here.

This final rule includes ACLs for the five overfished species managed under the PCGFMP. For the 2017–2018 biennium darkblotched rockfish and Pacific ocean perch (POP) have rebuilding plan changes to their harvest control rules, while maintaining the current target year for rebuilding (T_{TARGET}). The remaining overfished species are making adequate progress towards rebuilding. Therefore, this rule establishes harvest specifications consistent with the existing rebuilding plan provisions for those species.

This rule also implements Amendment 27 to the PCGFMP. Amendment 27 consists of five components that: (1) Reclassify big skate from an ecosystem component species to “in the fishery,” (2) add deacon rockfish to the list of species in the PCGFMP, (3) establish a new inseason management process in California for black, canary, and yelloweye rockfishes, (4) make updates to clarify several stock assessment descriptions, and (5) update several sections of the PCGFMP because canary rockfish and petrale sole are rebuilt. The Notice of Availability (NOA) for Amendment 27 to the PCGFMP (Amendment 27) published on September 30, 2016 (81 FR 67287) and the public comment period closed on November 29, 2016. Public comments received on the Amendment 27 are discussed below in “Comments and Responses.”

In addition to the annual specifications, this final rule implements the same management measures that were described in the proposed rule, with a few modifications that are discussed below in “Changes from the Proposed Rule.” This final rule also corrects a computational error to the sablefish ACLs and revises sablefish trip limits, per the Council's recommendations made at its November 2016 meeting (See “Comments and Responses” and “Changes From the Proposed Rule,” below).

Comments and Responses

During the comment period of the proposed rule and NOA for Amendment 27, NMFS received one comment letter from the public in support of the proposed regulation changes to preserve fish populations and better regulate the fisheries in Washington, Oregon, and California. NMFS also received a letter from Department of the Interior stating they had reviewed the proposed rule and had no comments to offer. NMFS addresses other comments below.

Comment 1: A participant in the fishing industry made a general request

for less restrictive management such that more fishing jobs would be available.

Response: Harvest specifications and management measures for Pacific Coast groundfish continue to be centered around allowing harvest of available target species such as sablefish, flatfish, Pacific whiting, etc., and keeping harvest of co-occurring overfished rockfish within their rebuilding plan ACLs. Every two years, through the biennial harvest specifications and management measures that this final rule implements, and in other ongoing rulemaking activities, the Council and NMFS work with industry and the public to develop and make incremental improvements to the management regime, including regulatory opportunities to increase efficiency and revenue. We note that some of the primary factors that drive revenue and jobs in the fishing industry include markets and price per pound, neither of which is within the direct control of the Council and NMFS. The harvest specifications and management measures implement regulations based on the best available scientific information and were developed through a public, collaborative Council process that incorporated feedback from affected industry and fishing communities.

Comment 2: The Council submitted a letter to NMFS on November 23, 2016, regarding the proposed sablefish ACLs for 2017–2018. In early November, stock assessment authors discovered an error in the calculation of the Council-recommended sablefish ACLs for 2017 and 2018 and notified Council and NMFS staff. At its November 13–21, 2016, meeting, under the inseason agenda item, the Council considered corrected ACLs and management

measures and heard public testimony from industry in support of correcting the proposed ACLs and the resulting allocations. The Council recommended that these corrections be made by NMFS as quickly as possible.

Response: NMFS agrees that it is appropriate to correct the 2017–2018 sablefish ACLs and resulting allocations in this final rule. The FMP specifies long-term, formal sector allocations for north and south of 36° N. lat.; however the 2015 update stock assessment failed to correctly apportion the stock according to the 36° N. lat. Split, and instead used 34° 27' N. lat. Consequently, the ACL amounts apportioned north and south in the proposed rule were incorrect and inconsistent with the FMP and past practice.

Corrected ACLs are included in Tables 1a and 2a, Subpart C. The Council's sablefish allocation framework and policies described in the proposed rule were applied to the updated ACLs, resulting in corrected allocations, as described below in "Changes From the Proposed Rule."

Comment 3: In its November 23, 2016, letter, the Council also recommended adjustments to 2017–2018 routine management measures relative to limited entry fixed gear and open access sablefish trip limits. The adjustments to trip limits are based on the corrected sablefish ACLs and subsequent allocations, and also take into account the most recent fishery information. The Council recommended that these adjustments to trip limits be implemented on January 1, 2017, or as soon as possible thereafter.

Response: The Council's recommended trip limits are based on the best available information, and on the corrected sablefish ACLs and

subsequent allocations. NMFS agrees that these trip limits should be implemented congruently with the corrected harvest specifications and allocations. However, lower trip limits, as recommended by the Council at its November 2016 meeting, may only be implemented at the beginning of Period 1 (January–February). This is because, once fishing in Period 1 has begun under higher trip limits, it is not enforceable to lower those trip limits until the start of the next cumulative limit period, or Period 2 (March–April). Therefore, for limited entry fixed gear north of 36° N. lat., NMFS is implementing the Council-recommended trip limits beginning on March 1, 2017 (at the start of Period 2). The Council has an opportunity, if necessary, to recommend further refinements to sablefish trip limits under routine inseason action at each Council meeting starting in March 2017. Revised trip limits for sablefish, as recommended by the Council at its November 2016 meeting, can be found in Tables 2 (North) and 2 (South), Suppart E, and Tables 3 (North) and 3 (South), Subpart F.

Changes From the Proposed Rule

Sablefish ACLs and Management Measures

As described above in Comments and Responses, sablefish ACLs were based on an incorrect north/south apportionment, resulting in incorrect proposed ACLs. For the reasons described above, the 2017–2018 sablefish ACLs and management measures for the areas north and south of 36° N. lat. are revised in this final rule to be consistent with the FMP and related analyses, including past EIS and RIR documents.

Regulatory citation/paragraph	Description of the change
§ 660.50(f)(2)(ii) Tables 1a, 1b, 2a, and 2b to Subpart C	Corrected the 2017 and 2018 sablefish allocations for tribal fisheries. Corrected the 2017 and 2018 sablefish ACLs, allocations, and harvest guidelines described there, including footnotes.
Tables 1c and 2c to Subpart C	Corrected 2017 and 2018 sablefish ACLs and allocations based on the long-term formal allocation structure described in the FMP for the area north of 36° N. lat.
§ 660.140(d)(1)(ii)(D)	Corrected the 2017 and 2018 shorebased trawl allocations for sablefish north and south of 36° N. lat.
§ 660.231(b)(3)(i) Tables 2 (North) and 2 (South) to Suppart E and Tables 3 (North) and 3 (South) to Subpart F.	Corrected the 2017 and 2018 sablefish tier limits for the sablefish primary fishery. Revises sablefish trip limits consistent with corrected harvest targets.

Trip Limit Reductions for Minor Nearshore Rockfish

The proposed rule included a reduction in trip limits for 2017–2018 for the Minor Nearshore Rockfish complex and black rockfish between 42° N. lat. and 40° 10' N. lat. for both limited

entry fixed gear and open access fisheries. This reduced trip limit is to keep harvest of Minor Nearshore Rockfish and co-occurring species within their harvest targets and ACLs. In the October 23, 2016, proposed rule, consistent with the Council's

recommendation, NMFS proposed to reduce the trip limit for this complex in both the limited entry fixed gear and open access fisheries from "8,500 lb per 2 months, no more than 1,200 lb of which may be species other than black rockfish" (the trip limit currently in

regulation, and that would remain in regulation if no action was taken to supercede it) to “7,000 lb per 2 months, no more than 1,200 lb of which may be species other than black rockfish.” As described above in “Comments and Responses,” cumulative limits may only be lowered at the beginning of the 2-month period. Therefore, this final rule implements the proposed trip limit of 7,000 lb per 2 months beginning March 1.

Classification

Pursuant to section 304(b)(1)(A) of the Magnuson-Stevens Act (16 U.S.C. 1854(b)(1)(A)), the Administrator, West Coast Region, has determined that this final rule and Amendment 27 to the PCGFMP are necessary for the conservation and management of the Pacific Coast Groundfish Fishery and consistent with the Pacific Coast Groundfish Fishery Management Plan, other provisions of the Magnuson-Stevens Act, and other applicable law.

NMFS finds good cause to waive the 30-day delay in effectiveness pursuant to 5 U.S.C. 553(d)(3), so that this final rule may become effective upon publication in the **Federal Register**. Because this final rule increases the catch limits for several species for 2017, leaving 2016 harvest specifications in place could unnecessarily delay fishing opportunities until later in the year, potentially reducing the total catch for these species in 2017. Thus, a delay in effectiveness could ultimately cause economic harm to the fishing industry and associated fishing communities or result in harvest levels inconsistent with the best available scientific information. For example, due to the rebuilt status of canary rockfish, the Council recommended a modest trip limit to allow retention of this species for the first time in many years. This measure provides for a year round opportunity to turn regulatory discards into retained catch, while maintaining a precautionary trip limit to keep targeting effort on canary rockfish low. Because of the potential harm to fishing communities that could be caused by delaying the effectiveness of this final rule, NMFS finds there is good cause to waive the 30-day delay in effectiveness.

In addition, pursuant to 5 U.S.C. 553(b)(B), there is good cause to waive prior notice and an opportunity for public comment on the corrections contained in this action, as notice and comment would be impracticable, unnecessary, or contrary to the public interest. At its November meeting, the Council recommended corrections to 2017 and 2018 sablefish harvest specifications and resulting

management measures be implemented as quickly as possible. There was not sufficient time after that meeting to allow for prior notice and opportunity for public comment before implementing these corrections so that NMFS could manage these fisheries using the best available science in accordance with the FMP (Section 2.1) and applicable law (National Standard 2). The corrected ACLs and resulting management measures are based on the best available scientific information regarding the relative biomass of sablefish north and south of 36° N. lat. The corrections implemented in this final rule are consistent with the impacts analyses for the proposed action, because the coastwide harvestable surplus (the sum of the northern and southern ACLs) is unchanged from the proposed rule; only the area-specific apportionment was incorrect. Further, correcting the sablefish ACLs is consistent with provisions in the FMP (Section 5.5) to allow timely corrections to ACLs due to technical errors, and also with the long-term formal allocation structure for sablefish north of 36° N. lat., which is predicated on an ACL calculated based on the relative biomass for the area north of 36° N. lat. Delaying the corrected sablefish ACLs and resulting management measures would keep regulations in place that are not based on the best available scientific information. Such a delay would impair achievement of the FMP goals and objectives of managing for appropriate harvest levels while providing for year-round fishing and marketing opportunities. Accordingly, for the reasons stated above, NMFS finds good cause to waive prior notice and comment.

NMFS prepared an EA for this action and Amendment 27 that discusses the impact on the environment as a result of some of the components of this rule. The full suite of alternatives analyzed by the Council can be found on the Council's Web site at www.pcouncil.org. This EA does not contain all of the alternatives because an EIS was prepared for the 2015–2016 biennial harvest specifications and management measures. Copies of the EA and the EIS are available from NMFS (see **ADDRESSES**). This EIS examined the harvest specifications and management measures for 2015–2016, and included ten year projections for routinely adjusted harvest specifications and management measures. The ten year projections were produced to evaluate the impacts of the ongoing implementation of harvest

specifications and management measures and to evaluate the impacts of the routine adjustments that are the main component of regulatory changes in each biennial cycle. Therefore, the EA for the 2017–2018 cycle tiers from the 2015–2016 EIS, and focuses on the harvest specifications and management measures where the impacts were not within the scope of the ten year projections in the 2015–2016 EIS.

When an agency proposes regulations, the Regulatory Flexibility Act (RFA) requires the agency to prepare and make available for public comment an Initial Regulatory Flexibility Analysis (IRFA) document that describes the impact on small businesses, non-profit enterprises, local governments, and other small entities. The IRFA is to aid the agency in considering all reasonable regulatory alternatives that would minimize the economic impact on affected small entities. After the public comment period, the agency prepares a Final Regulatory Flexibility Analysis (FRFA) that takes into consideration any new information and public comments. This FRFA incorporates the IRFA and a summary of the analyses completed to support the action.

The comment period on the proposed rule closed on November 28, 2016, and no comments were received on the IRFA or the economic impacts of this action. An IRFA was prepared and summarized in the Classification section of the preamble to the proposed rule. The description of this action, its purpose, and its legal basis are described in the preamble to the proposed rule and are not repeated here. The FRFA describes the impacts on small entities, which are defined in the IRFA for this action and not repeated here. Analytical requirements for the FRFA are described in Regulatory Flexibility Act, section 604(a)(1) through (5), and summarized below.

The FRFA must contain: (1) A succinct statement of the need for, and objectives of, the rule; (2) A summary of the significant issues raised by the public comments in response to the IRFA, a summary of the assessment of the agency of such issues, and a statement of any changes made in the proposed rule as a result of such comments; (3) A description and an estimate of the number of small entities to which the rule will apply, or an explanation of why no such estimate is available; (4) A description of the projected reporting, recordkeeping and other compliance requirements of the rule, including an estimate of the classes of small entities which will be subject to the requirement and the type of professional skills necessary for

preparation of the report or record; and (5) A description of the steps the agency has taken to minimize the significant economic impact on small entities consistent with the stated objectives of applicable statutes, including a statement of the factual, policy, and legal reasons for selecting the alternative adopted in the final rule and why each one of the other significant alternatives to the rule considered by the agency which affect the impact on small entities was rejected.

This final rule will regulate businesses that participate in the groundfish fishery. This rule directly affects limited entry fixed gear permit holders, trawl quota share (QS) holders and Pacific whiting catch history endorsed permit holders (which include shorebased Pacific whiting processors), tribal vessels, charterboat vessels, and open access vessels. QS holders are directly affected as their QS are affected by the ACLs. Vessels that fish under the trawl rationalization program receive their quota pounds from the QS holders, and thus are indirectly affected. Similarly, mothership (MS) processors are indirectly affected as they receive the fish they process from limited entry permits that are endorsed with Pacific whiting catch history assignments.

To determine the number of small entities potentially affected by this rule, NMFS reviewed analyses of fish ticket data and limited entry permit data, information on charterboat, tribal, and

open access fleets, available cost-earnings data developed by the Northwest Fisheries Science Center, and responses associated with the permitting process for the Trawl Rationalization Program where applicants were asked if they considered themselves a small business based on SBA definitions. This rule will regulate businesses that harvest groundfish.

Charter Operations

There were 355 active commercial passenger fishing vessels (charter) engaged in groundfish fishing in California in 2014. In 2014, an estimated 189 charter boats targeted groundfish in Oregon and Washington. All 544 of these vessels and associated small businesses are likely to be impacted by changes in recreational harvest levels for groundfish.

Commercial Vessels and Shorebased Buyers

With limited access to data for all the affiliated business operations for vessels and buyers, particularly in the open access and fixed gear fisheries, NMFS estimates the type of impacted vessels and buyer entities based solely on West Coast ex-vessel revenue. This may be an underestimate of the number of large-entities in the fishery, as many vessels and buyers may be affiliated, and may have income from non-West Coast sources (particularly Alaska).

Open access vessels are not federally permitted so counts based on landings can provide an estimate of the affected vessels. The analysis for the 2013–2014 Pacific Groundfish Harvest Specifications and Management Measures Environmental Impact Statement contained the following assessment, which is deemed as containing reasonable estimates for this rule, as these fisheries have not changed significantly in recent years. In 2011, 682 directed open access vessels fished while 284 incidental open access vessels fished for a total of 966 vessels. Over the 2005–2010 period, 1,583 different directed open access vessels fished, and 837 different incidental open access vessels fished, for a total of 2,420 different vessels. The four tribal fleets sum to a total of 54 longline vessels, 5 Pacific whiting trawlers, and 5 non-whiting trawlers, for an overall total of 64 vessels. Available information on average revenue per vessel suggests that all the entities in these groups can be considered small.

It is expected that a total of 873 catcher vessels (CVs), 227 buyers, 9 Catcher/Processors (C/Ps) and 6 MS entities will be impacted by this rule, for a total of 1,115, if commercial groundfish participation in 2017–2018 follows similar patterns to those of the last full year of available data (2015), and counting only those vessels and buyers who had at least \$1,000 worth of groundfish sales or purchases in 2015.

GROUNDFISH EX-VESSEL REVENUES BY FISHERY

		N	West Coast total groundfish revenue	Average groundfish revenue
LE Trawl	C/P	9	\$99,180,000 (2014 wholesale)	\$11,020,000 (2014 wholesale).
	MS	5	\$46,385,000 (2014 wholesale)	\$9,277,000 (2014 wholesale).
	CV	83	\$30,832,277 (2015 ex-vessel)	\$371,473 (2015 ex-vessel).
	MS/CV	19	\$17,300,000 (2014 ex-vessel)	\$910,536.31 (2014 ex-vessel).
	Buyers	16	\$137,600,000 (2014 wholesale)	\$8,600,000 (2014 wholesale).
LE Fixed Gear	Primary	89	\$8,357,122 (2015 ex-vessel)	\$93,900 (2015 ex-vessel).
	DTL	152	\$16,623,889 (2015 ex-vessel)	\$109,368 (2015 ex-vessel).
	Buyers	108	N/A	N/A.
OA	CV	831	\$7,281,894 (2015 ex-vessel)	\$8,763 (2015 ex-vessel).
	Buyers	307	N/A	N/A.
Research	CV	4	\$174,394 (2015 ex-vessel)	\$43,599 (2015 ex-vessel).
Tribal	CV	198	\$4,933,911 (2015 ex-vessel)	\$24,918 (2015 ex-vessel).
	Buyers	19	N/A	N/A.

Note: 2015 reported revenues obtained from the Pacific Fisheries Information Network (PacFIN); 2014 reported revenues obtained from 2016 Economic Data Collection Reports.

During development of the 2017–2018 harvest specifications, a mistake was made in apportioning the sablefish ACLs north and south of 36° N. lat. While the coastwide values used for calculating revenues in the IRFA were correctly calculated, the area-specific ACLs in the proposed rule were incorrect. The proposed ACLs were

based on a north/south dividing line of 34°27' N. lat. rather than the actual north/south dividing line of 36° N. lat. Correcting the percentages for apportioning the ACLs, results in area-specific ACLs that best represent the relative biomass for the areas in which those ACLs apply. The corrected ACLs and allocations are consistent with the

FMP and will be corrected in this final rule, and thus is not expected to impact small entities. Coastwide sablefish harvest levels, which were correctly calculated in the proposed rule and analyzed under the IRFA, are not revised.

Limited Entry Permit Owners

As part of the permitting process for the trawl rationalization program or for participating in nontrawl limited entry permit fisheries, applicants were asked if they considered themselves a small business. NMFS reviewed the

ownership and affiliation relationships of QS permit holders, vessel account holders, catcher processor permits, MS processors, and first receiver/shore processor permits. As of August 1, 2016, Dock Street Brokers has West Coast limited entry trawl endorsed permits for sale for \$60,000 for a 46.1' permit, and

two 43' West Coast longline permits for \$135,000–\$140,000. QS may be valued anywhere from tens of thousands to millions of dollars, depending on the species and amount owned, although not enough sales have occurred yet to be able to confidently estimate their value.

LIMITED ENTRY PERMIT-OWNER ENTITIES BY SMALL BUSINESS SELF-DESIGNATION

	Permit type	Small business designation		Total
		Small	Large	
LE Trawl	C/P	0	10	10
	MS	4	2	6
	CV	142	21	163
	FR	36	8	44
	QS	N/A	N/A	173
LE Fixed Gear	Primary	159	3	162
	DTL	52	8	60

If permit ownership in 2017–2018 follows similar patterns to those of the last full year available data (2015), it is expected that a total of 312 permit owning entities will be impacted by this rule. An estimated 222 of these entities own both permits and vessels, and 16 of the first receiver permit holding companies actually received groundfish, and are thus included in the table above.

Accounting for joint vessel and permit ownership in the limited entry fisheries to the extent possible, an estimated 1,189 commercial entities and 544 charter entities will be impacted by this rule; 16 of these entities are considered large, and the remaining 1,717 are small. As some of these entities are likely owned by the same parent companies, this number is likely an overestimate of the true value.

There are no reporting and recordkeeping requirements associated with this action. There are no significant alternatives to the final rule that accomplish the stated objectives of applicable statutes and that minimize any of the significant economic impact of this final rule on small entities.

Considered But Rejected Measures

A summary of the three measures that were analyzed but were excluded from the preferred alternative, and rationales for excluding them from the preferred alternative, were described in the proposed rule and are not repeated here.

Pursuant to Executive Order 13175, this final rule was developed after meaningful consultation and collaboration with tribal officials from the area covered by the PCGFMP. Under the Magnuson-Stevens Act at 16 U.S.C. 1852(b)(5), one of the voting members of the Pacific Council must be a

representative of an Indian tribe with federally recognized fishing rights from the area of the Council's jurisdiction. In addition, regulations implementing the PCGFMP establish a procedure by which the tribes, which have treaty fishing rights in the area covered by the PCGFMP, request new allocations or regulations specific to the tribes, in writing, before the first of the two meetings at which the Council considers groundfish management measures. The regulations at 50 CFR 660.324(d) further state that the Secretary will develop tribal allocations and regulations in consultation with the affected tribe(s) and, insofar as possible, with tribal consensus. The tribal management measures in this final rule have been developed following these procedures. The tribal representative on the Council made a motion to adopt the non-whiting tribal management measures, which was passed by the Council. Those management measures, which were developed and proposed by the tribes, were described in the proposed rule and are included in this final rule.

This final rule has been determined to be not significant for purposes of Executive Order 12866.

List of Subjects in 50 CFR Part 660

Fisheries, Fishing, Reporting and recordkeeping requirements.

Dated: January 30, 2017.

Alan D. Risenhoover,

Acting Deputy Assistant Administrator for Regulatory Programs, National Marine Fisheries Service.

For the reasons set out in the preamble, 50 CFR part 660 is amended as follows:

PART 660—FISHERIES OFF WEST COAST STATES

■ 1. The authority citation for part 660 continues to read as follows:

Authority: 16 U.S.C. 1801 *et seq.*, 16 U.S.C. 773 *et seq.*, and 16 U.S.C. 7001 *et seq.*

■ 2. In § 660.11 in the definition of “Groundfish,” paragraphs (7)(i)(A) and (7)(i)(B)(2) are revised to read as follows:

§ 660.11 General definitions.

* * * * *

(7) * * *

(i) * * *

(A) *North of 40°10' N. lat.:* Black and yellow rockfish, *S. chrysomelas*; blue rockfish, *S. mystinus*; brown rockfish, *S. auriculatus*; calico rockfish, *S. dalli*; China rockfish, *S. nebulosus*; copper rockfish, *S. caurinus*; deacon rockfish, *S. diaconus*; gopher rockfish, *S. carnatus*; grass rockfish, *S. rastrelliger*; kelp rockfish, *S. atrovirens*; olive rockfish, *S. serranoides*; quillback rockfish, *S. maliger*; treefish, *S. serripes*.

(B) * * *

(2) *Deeper nearshore rockfish* consists of black rockfish, *S. melanops*; blue rockfish, *S. mystinus*; brown rockfish, *S. auriculatus*; calico rockfish, *S. dalli*; copper rockfish, *S. caurinus*; deacon rockfish, *S. diaconus*; olive rockfish, *S. serranoides*; quillback rockfish, *S. maliger*; treefish, *S. serripes*.

* * * * *

■ 3. Section 660.40 is revised to read as follows:

§ 660.40 Overfished species rebuilding plans.

For each overfished groundfish stock with an approved rebuilding plan, this section contains the standards to be used to establish annual or biennial

ACLs, specifically the target date for rebuilding the stock to its MSY level and the harvest control rule to be used to rebuild the stock. The harvest control rule may be expressed as a "Spawning Potential Ratio" or "SPR" harvest rate.

(a) *Bocaccio*. Bocaccio south of 40°10' N. latitude was declared overfished in 1999. The target year for rebuilding the bocaccio stock south of 40°10' N. latitude to B_{MSY} is 2022. The harvest control rule to be used to rebuild the southern bocaccio stock is an annual SPR harvest rate of 77.7 percent.

(b) *Cowcod*. Cowcod was declared overfished in 2000. The target year for rebuilding the cowcod stock south of 40°10' N. lat. to B_{MSY} is 2020. The harvest control rule to be used to rebuild the cowcod stock is an annual SPR harvest rate of 82.7 percent.

(c) *Darkblotched rockfish*. Darkblotched rockfish was declared overfished in 2000. The target year for rebuilding the darkblotched rockfish stock to B_{MSY} is 2025. The harvest control rule is $ACL = ABC (P^* = 0.45)$.

(d) *Pacific ocean perch (POP)*. POP was declared overfished in 1999. The target year for rebuilding the POP stock to B_{MSY} is 2051. The harvest control rule to be used to rebuild the POP stock in 2017 and 2018 is a constant catch ACL of 281 mt per year. In 2019 and thereafter the harvest control rule to be used to rebuild POP is an annual SPR harvest rate of 86.4 percent.

(e) *Yelloweye rockfish*. Yelloweye rockfish was declared overfished in 2002. The target year for rebuilding the yelloweye rockfish stock to B_{MSY} is 2074. The harvest control rule to be used to rebuild the yelloweye rockfish stock is an annual SPR harvest rate of 76.0 percent.

■ 4. In § 660.50, revise paragraphs (f)(2)(ii) and (f)(3), add paragraph (f)(9), and revise paragraph (g) to read as follows:

§ 660.50 Pacific Coast treaty Indian fisheries.

* * * * *

(f) * * *

(2) * * *

(ii) The Tribal allocation is 525 mt in 2017 and 548 mt in 2018 per year. This allocation is, for each year, 10 percent of the Monterey through Vancouver area (North of 36° N. lat.) ACL. The Tribal allocation is reduced by 1.5 percent for estimated discard mortality.

(3) *Lingcod*. Lingcod taken in the treaty fisheries are subject to a harvest guideline of 250 mt.

* * * * *

(9) *Widow rockfish*. Widow rockfish taken in the directed tribal midwater trawl fisheries are subject to a catch

limit of 200 mt for the entire fleet, per year.

(g) *Pacific Coast treaty Indian fisheries management measures*. Trip limits for certain species were recommended by the tribes and the Council and are specified here.

(1) *Rockfish*. The tribes will require full retention of all overfished rockfish species and all other marketable rockfish species during treaty fisheries.

(2) *Yelloweye rockfish*—are subject to a 100-lb (45-kg) trip limit.

(3) *Other rockfish*—(i) *Minor nearshore rockfish*. Minor nearshore rockfish are subject to a 300-lb (136-kg) trip limit per species or species group, or to the non-tribal limited entry trip limit for those species if those limits are less restrictive than 300 lb (136 kg) per trip. Limited entry trip limits for waters off Washington are specified in Table 1 (North) to subpart D, and Table 2 (North) to subpart E of this part.

(ii) *Minor shelf rockfish and minor slope rockfish*. Redstripe rockfish are subject to an 800 lb (363 kg) trip limit. Minor shelf (excluding redstripe rockfish), and minor slope rockfish groups are subject to a 300 lb (136 kg) trip limit per species or species group, or to the non-tribal limited entry fixed gear trip limit for those species if those limits are less restrictive than 300 lb (136 kg) per trip. Limited entry fixed gear trip limits are specified in Table 2 (North) to subpart E of this part.

(iii) *Other rockfish*. All other rockfish, not listed specifically in paragraph (g) of this section, are subject to a 300 lb (136 kg) trip limit per species or species group, or to the non-tribal limited entry trip limit for those species if those limits are less restrictive than 300 lb (136 kg) per trip. Limited entry trip limits for waters off Washington are specified in Table 1 (North) to subpart D, and Table 2 (North) to subpart E of this part.

(4) *Pacific whiting*. Tribal whiting processed at-sea by non-tribal vessels, must be transferred within the tribal U&A from a member of a Pacific Coast treaty Indian tribe fishing under this section.

(5) *Groundfish without a tribal allocation*. Makah tribal members may use midwater trawl gear to take and retain groundfish for which there is no tribal allocation and will be subject to the trip landing and frequency and size limits applicable to the limited entry fishery.

(6) *EFH*. Measures implemented to minimize adverse impacts to groundfish EFH, as described in § 660.12 of this subpart, do not apply to tribal fisheries in their U&A fishing areas described at § 660.4, subpart A.

(7) *Small footrope trawl gear*. Makah tribal members fishing in the bottom trawl fishery may use only small footrope (less than or equal to 8 inches (20.3 cm)) bottom trawl gear.

■ 5. In § 660.55, revise paragraph (b) introductory text to read as follows:

§ 660.55 Allocations.

* * * * *

(b) *Fishery harvest guidelines and reductions made prior to fishery allocations*. Prior to the setting of fishery allocations, the TAC, ACL, or ACT when specified, is reduced by the Pacific Coast treaty Indian Tribal harvest (allocations, set-asides, and estimated harvest under regulations at § 660.50); projected scientific research catch of all groundfish species, estimates of fishing mortality in non-groundfish fisheries; and, as necessary, deductions to account for unforeseen catch events and deductions for EFPs. Deductions are listed in the footnotes of Tables 1a and 2a of subpart C of this part. The remaining amount after these deductions is the fishery harvest guideline or quota. (Note: recreational estimates are not deducted here.)

* * * * *

■ 6. In § 660.60, paragraphs (c)(1)(i) and (c)(3)(ii) are revised and paragraph (c)(4) is added to read as follows:

§ 660.60 Specifications and management measures.

* * * * *

(c) * * *

(1) * * *

(i) *Trip landing and frequency limits, size limits, all gear*. Trip landing and frequency limits have been designated as routine for the following species or species groups: Widow rockfish, canary rockfish, yellowtail rockfish, Pacific ocean perch, yelloweye rockfish, black rockfish, blue/deacon rockfish, splitnose rockfish, blackgill rockfish in the area south of 40°10' N. lat., chilipepper, bocaccio, cowcod, Minor Nearshore Rockfish or shallow and deeper Minor Nearshore Rockfish, shelf or Minor Shelf Rockfish, and Minor Slope Rockfish; Dover sole, sablefish, shortspine thornyheads, and longspine thornyheads; petrale sole, rex sole, arrowtooth flounder, Pacific sanddabs, big skate, and the Other Flatfish complex, which is composed of those species plus any other flatfish species listed at § 660.11; Pacific whiting; lingcod; Pacific cod; spiny dogfish; longnose skate; cabezon in Oregon and California and "Other Fish" as defined at § 660.11. In addition to the species and species groups listed above, sub-limits or aggregate limits may be specified, specific to the Shorebased

IFQ Program, for the following species: Big skate, California skate, California scorpionfish, leopard shark, soupfin shark, finescale codling, Pacific rattail (grenadier), ratfish, kelp greenling, shortbelly rockfish, and cabezon in Washington. Size limits have been designated as routine for sablefish and lingcod. Trip landing and frequency limits and size limits for species with those limits designated as routine may be imposed or adjusted on a biennial or more frequent basis for the purpose of keeping landings within the harvest levels announced by NMFS, and for the other purposes given in paragraphs (c)(1)(i)(A) and (B) of this section.

* * * * *

(3) * * *

(ii) *Non-tribal deductions from the ACL.* Changes to the non-tribal amounts deducted from the TAC, ACLs, or ACT when specified, described at § 660.55(b)(2) through (4) and specified in the footnotes to Tables 1a through 1c, and 2a through 2c, to subpart C, have been designated as routine to make fish that would otherwise go unharvested available to other fisheries during the fishing year. Adjustments may be made to provide additional harvest opportunities in groundfish fisheries when catch in scientific research activities, non-groundfish fisheries, and EFPs are lower than the amounts that were initially deducted off the TAC, ACL, or ACT when specified, during the biennial specifications or to allocate yield from the deduction to account for unforeseen catch events to groundfish fisheries. When recommending adjustments to the non-tribal deductions, the Council shall consider the allocation framework criteria outlined in the PCGFMP and the objectives to maintain or extend fishing and marketing opportunities taking into account the best available fishery information on sector needs.

(4) *Inseason action for canary rockfish, yelloweye rockfish, and black rockfish in California State-Specific Federal Harvest Limits outside of a Council meeting.* The Regional Administrator, NMFS West Coast Region, after consultation with the Chairman of the Pacific Fishery Management Council and the Fishery Director of the California Department of Fish and Wildlife, or their designees, is authorized to modify the following designated routine management measures for canary rockfish, yelloweye rockfish, and black rockfish off the coast of California. For black rockfish in commercial fisheries trip landing and frequency limits; and depth based management measures. For black,

canary, and yelloweye rockfish in recreational fisheries bag limits; time/area closures; depth based management. Any modifications may be made only after NMFS has determined that a California state-specific federal harvest limit for canary rockfish, yelloweye rockfish, or black rockfish, is attained or projected to be attained prior to the first day of the next Council meeting. Any modifications may only be used to restrict catch of canary rockfish, yelloweye rockfish, or black rockfish off the coast of California.

* * * * *

■ 7. In § 660.70, paragraphs (g) through (p) are redesignated as (i) through (r), and new paragraphs (g) and (h) are added to read as follows:

§ 660.70 Groundfish conservation areas.

* * * * *

(g) *Stonewall Bank Yelloweye Rockfish Conservation Area, Expansion*

1. The Stonewall Bank Yelloweye Rockfish Conservation Area (YRCA) Expansion 1 is an area off central Oregon, near Stonewall Bank, intended to protect yelloweye rockfish. The Stonewall Bank YRCA Expansion 1 is defined by straight lines connecting the following specific latitude and longitude coordinates in the order listed:

(1) 44°41.76' N. lat.; 124°30.02' W.

long.;

(2) 44°41.73' N. lat.; 124°21.60' W.

long.;

(3) 44°25.25' N. lat.; 124°16.94' W.

long.;

(4) 44°25.29' N. lat.; 124°30.14' W.

long.;

(5) 44°41.76' N. lat.; 124°30.02' W.

long.; and connecting back to 44°41.76' N. lat.; 124°30.02' W. long.

(h) *Stonewall Bank Yelloweye Rockfish Conservation Area, Expansion*

2. The Stonewall Bank Yelloweye Rockfish Conservation Area (YRCA) Expansion 2 is an area off central Oregon, near Stonewall Bank, intended to protect yelloweye rockfish. The Stonewall Bank YRCA Expansion 2 is defined by straight lines connecting the following specific latitude and longitude coordinates in the order listed:

(1) 44°38.54' N. lat.; 124°27.41' W.

long.;

(2) 44°38.54' N. lat.; 124°23.86' W.

long.;

(3) 44°27.13' N. lat.; 124°21.50' W.

long.;

(4) 44°27.13' N. lat.; 124°26.89' W.

long.;

(5) 44°31.30' N. lat.; 124°28.35' W.

long.; and connecting back to 44°38.54' N. lat.; 124°27.41' W. long.

* * * * *

■ 8. Amend § 660.71 as follows:

■ a. Redesignate paragraphs (e)(143) through (332) as paragraphs (e)(147) through (336), respectively and redesignate paragraphs (e)(140) through (142) as paragraphs (e)(141) through (143), respectively;

■ b. Add new paragraphs (e)(140) and (e)(144) through (146);

■ c. Revise newly redesignated paragraph (e)(168);

■ d. Redesignate paragraphs (k)(128) through (214) as paragraphs (k)(130) through (216), respectively and redesignate paragraphs (k)(120) through (127) as paragraphs (k)(121) through (128), respectively;

■ e. Add new paragraph (k)(120);

■ f. Revise newly redesignated paragraph (k)(128);

■ g. Add new paragraph (k)(129).

The revisions and additions read as follows:

§ 660.71 Latitude/longitude coordinates defining the 10-fm (18-m) through 40-fm (73-m) depth contours.

* * * * *

(e) * * *

(140) 39°37.50' N. lat., 123°49.20' W. long.;

* * * * *

(144) 39°13.00' N. lat., 123°47.65' W. long.;

(145) 39°11.06' N. lat., 123°47.16' W. long.;

(146) 39°10.35' N. lat., 123°46.75' W. long.;

* * * * *

(168) 37°39.85' N. lat., 122°49.90' W. long.;

* * * * *

(k) * * *

(120) 38°30.57' N. lat., 123°18.60' W. long.;

* * * * *

(128) 37°48.22' N. lat., 123°10.62' W. long.;

(129) 37°47.53' N. lat., 123°11.54' W. long.;

* * * * *

■ 9. In § 660.72, paragraph (a)(107) is revised to read as follows:

§ 660.72 Latitude/longitude coordinates defining the 50 fm (91 m) through 75 fm (137 m) depth contours.

* * * * *

(a) * * *

(107) 37°45.57' N. lat., 123°9.46' W. long.;

* * * * *

■ 10. In § 660.73, redesignate paragraphs (h)(248) through (h)(309) as (h)(252) through (h)(313) and add new paragraphs (h)(248) through (h)(251) to read as follows:

**§ 660.73 Latitude/longitude coordinates
defining the 100 fm (183 m) through 150 fm
(274 m) depth contours.**

* * * * *

(h) * * *

(248) 36°47.60' N. lat., 121°58.88' W.
long.;

(249) 36°48.24' N. lat., 121°51.40' W.
long.;
(250) 36°45.84' N. lat., 121°57.21' W.
long.;
(251) 36°45.77' N. lat., 121°57.61' W.
long.;

* * * * *

■ 11. Tables 1a through 1d to Part 660,
Subpart C, are revised to read as
follows:

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Table 1a. to Part 660, Subpart C- 2017, Specifications of OFL, ABC, ACL, ACT and Fishery Harvest Guidelines (Weights in Metric Tons)

Species	Area	OFL	ABC	ACL a/	Fishery HG b/
BOCACCIO c/	S. of 40°10' N. lat.	2,139	2,044	790	775
COWCOD d/	S. of 40°10' N. lat.	70	63	10	8
DARKBLOTCHED ROCKFISH e/	Coastwide	671	641	641	564
PACIFIC OCEAN PERCH f/	N. of 40°10' N. lat.	964	922	281	232
YELLOW EYE ROCKFISH g/	Coastwide	57	47	20	15
Arrowtooth flounder h/	Coastwide	16,571	13,804	13,804	11,706
Big skate i/	Coastwide	541	494	494	437
Black rockfish j/	California (South of 42° N. lat.)	349	334	334	333
Black rockfish k/	Oregon (Between 46°16' N. lat. and 42° N. lat.)	577	527	527	526
Black rockfish l/	Washington (N. of 46°16' N. lat.)	319	305	305	287
Blackgill rockfish m/	S. of 40°10' N. lat.	NA	NA	NA	NA
Cabazon n/	California (South of 42° N. lat.)	157	150	150	150
Cabazon o/	Oregon (Between 46°16' N. lat. and 42° N. lat.)	49	47	47	47
California scorpionfish p/	S. of 34°27' N. lat.	289	264	150	148
Canary rockfish q/	Coastwide	1,793	1,714	1,714	1,467
Chilipepper r/	S. of 40°10' N. lat.	2,727	2,607	2,607	2,561
Dover sole s/	Coastwide	89,702	85,755	50,000	48,406
English sole t/	Coastwide	10,914	9,964	9,964	9,751
Lingcod u/	N. of 40°10' N. lat.	3,549	3,333	3,333	3,055
Lingcod v/	S. of 40°10' N. lat.	1,502	1,251	1,251	1,242
Longnose skate w/	Coastwide	2,556	2,444	2,000	1,853
Longspine thornyhead x/	Coastwide	4,571	3,808	NA	NA
Longspine thornyhead	N. of 34°27' N. lat.	NA	NA	2,894	2,847
Longspine thornyhead	S. of 34°27' N. lat.	NA	NA	914	911
Pacific cod y/	Coastwide	3,200	2,221	1,600	1,091
Pacific whiting z/	Coastwide	z/	z/	z/	z/
Petrale sole aa/	Coastwide	3,280	3,136	3,136	2,895
Sablefish	Coastwide	8,050	7,350	NA	NA
Sablefish bb/	N. of 36° N. lat.	NA	NA	5,252	See Table 1c
Sablefish cc/	S. of 36° N. lat.	NA	NA	1,864	1,859
Shortbelly rockfish dd/	Coastwide	6,950	5,789	500	489
Shortspine thornyhead ee/	Coastwide	3,144	2,619	NA	NA
Shortspine thornyhead	N. of 34°27' N. lat.	NA	NA	1,713	1,654
Shortspine thornyhead	S. of 34°27' N. lat.	NA	NA	906	864
Spiny dogfish ff/	Coastwide	2,514	2,094	2,094	1,756
Splitnose rockfish gg/	S. of 40°10' N. lat.	1,841	1,760	1,760	1,749
Starry flounder hh/	Coastwide	1,847	1,282	1,282	1,272
Widow rockfish ii/	Coastwide	14,130	13,508	13,508	13,290
Yellowtail rockfish jj/	N. of 40°10' N. lat.	6,786	6,196	6,196	5,166
Minor Nearshore Rockfish kk/	N. of 40°10' N. lat.	118	105	105	103
Minor Shelf Rockfish ll/	N. of 40°10' N. lat.	2,303	2,049	2,049	1,965
Minor Slope Rockfish mm/	N. of 40°10' N. lat.	1,897	1,755	1,755	1,690
Minor Nearshore Rockfish nn/	S. of 40°10' N. lat.	1,329	1,166	1,163	1,159
Minor Shelf Rockfish oo/	S. of 40°10' N. lat.	1,917	1,624	1,623	1,576
Minor Slope Rockfish pp/	S. of 40°10' N. lat.	827	718	707	687
Other Flatfish qq/	Coastwide	11,165	8,510	8,510	8,306
Other Fish rr/	Coastwide	537	474	474	474

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^a Annual catch limits (ACLs), annual catch targets (ACTs) and harvest guidelines (HGs) are specified as total catch values.

^b Fishery harvest guidelines means the harvest guideline or quota after subtracting Pacific Coast treaty Indian tribes allocations and projected catch, projected research catch, deductions for fishing mortality in non-groundfish fisheries, and deductions for EFPs from the ACL or ACT.

^c Bocaccio. A stock assessment was conducted in 2015 for the bocaccio stock between the U.S.-Mexico border and Cape Blanco. The stock is managed with stock-specific harvest specifications south of 40°10' N. lat. and within the Minor Shelf Rockfish complex north of 40°10' N. lat. A historical catch distribution of approximately 7.4 percent was used to apportion the assessed stock to the area north of 40°10' N. lat. The bocaccio stock was estimated to be at 36.8 percent of its unfished biomass in 2015. The OFL of 2,139 mt is projected in the 2015 stock assessment using an F_{MSY} proxy of $F_{50\%}$. The ABC of 2,044 mt is a 4.4 percent reduction from the OFL ($\sigma = 0.36 / P^* = 0.45$) because it is a category 1 stock. The 790 mt ACL is based on the current rebuilding plan with a target year to rebuild of 2022 and an SPR harvest rate of 77.7 percent. 15.4 mt is deducted from the ACL to accommodate the incidental open access fishery (0.8 mt), EFP catch (10 mt) and research catch (4.6 mt), resulting in a fishery HG of 774.6 mt. The California recreational fishery has an HG of 326.1 mt.

^d Cowcod. A stock assessment for the Conception Area was conducted in 2013 and the stock was estimated to be at 33.9 percent of its unfished biomass in 2013. The Conception Area OFL of 58 mt is projected in the 2013 rebuilding analysis using an F_{MSY} proxy of $F_{50\%}$. The OFL contribution of 12 mt for the unassessed portion of the stock in the Monterey area is based on depletion-based stock reduction analysis. The OFLs for the Monterey and Conception areas were summed to derive the south of 40°10' N. lat. OFL of 70 mt. The ABC for the area south of 40°10' N. lat. is 63 mt. The assessed portion of the stock in the Conception Area is considered category 2, with a Conception area contribution to the ABC of 53 mt, which is an 8.7 percent reduction from the Conception area OFL ($\sigma = 0.72 / P^* = 0.45$). The unassessed portion of the stock in the Monterey area is considered a category 3 stock, with a contribution to the ABC of 10 mt, which is a 16.6 percent reduction from the Monterey area OFL ($\sigma = 1.44 / P^* = 0.45$). A single ACL of 10 mt is being set for both areas combined. The ACL of 10 mt is based on the rebuilding plan with a target year to rebuild of 2020 and an SPR harvest rate of 82.7 percent, which is equivalent to an exploitation rate (catch over age 11+ biomass) of 0.007. 2 mt is deducted from the ACL to accommodate the incidental open access fishery (less than 0.1 mt), EFP fishing (less than 0.1 mt) and research activity (2 mt), resulting in a fishery HG of 8 mt. Any additional mortality in research activities will be deducted from the ACL. A single ACT of 4 mt is being set for both areas combined.

^e Darkblotched rockfish. A 2015 stock assessment estimated the stock to be at 39

percent of its unfished biomass in 2015. The OFL of 671 mt is projected in the 2015 stock assessment using an F_{MSY} proxy of $F_{50\%}$. The ABC of 641 mt is a 4.4 percent reduction from the OFL ($\sigma = 0.36 / P^* = 0.45$) because it is a category 1 stock. The ACL is set equal to the ABC, as the stock is projected to be above its target biomass of $B_{40\%}$ in 2017. 77.3 mt is deducted from the ACL to accommodate the Tribal fishery (0.2 mt), the incidental open access fishery (24.5 mt), EFP catch (0.1 mt), research catch (2.5 mt) and an additional deduction for unforeseen catch events (50 mt), resulting in a fishery HG of 563.8 mt.

^f Pacific ocean perch. A stock assessment was conducted in 2011 and the stock was estimated to be at 19.1 percent of its unfished biomass in 2011. The OFL of 964 mt for the area north of 40°10' N. lat. is based on an updated catch-only projection of the 2011 rebuilding analysis using an $F_{50\%}$ F_{MSY} proxy. The ABC of 922 mt is a 4.4 percent reduction from the OFL ($\sigma = 0.36 / P^* = 0.45$) because it is a category 1 stock. The ACL is based on the current rebuilding plan with a target year to rebuild of 2051 and a constant catch amount of 281 mt in 2017 and 2018, followed in 2019 and beyond by ACLs based on an SPR harvest rate of 86.4 percent. 49.4 mt is deducted from the ACL to accommodate the Tribal fishery (9.2 mt), the incidental open access fishery (10 mt), research catch (5.2 mt) and an additional deduction for unforeseen catch events (25 mt), resulting in a fishery HG of 231.6 mt.

^g Yelloweye rockfish. A stock assessment update was conducted in 2011. The stock was estimated to be at 21.4 percent of its unfished biomass in 2011. The 57 mt coastwide OFL is based on a catch-only update of the 2011 stock assessment, assuming actual catches since 2011 and using an F_{MSY} proxy of $F_{50\%}$. The ABC of 47 mt is a 16.7 percent reduction from the OFL ($\sigma = 0.72 / P^* = 0.40$) because it is a category 2 stock. The 20 mt ACL is based on the current rebuilding plan with a target year to rebuild of 2074 and an SPR harvest rate of 76.0 percent. 5.4 mt is deducted from the ACL to accommodate the Tribal fishery (2.3 mt), the incidental open access fishery (0.4 mt), EFP catch (less than 0.1 mt) and research catch (2.7 mt), resulting in a fishery HG of 14.6 mt. Recreational HGs are: 3.3 mt (Washington); 3 mt (Oregon); and 3.9 mt (California).

^h Arrowtooth flounder. The arrowtooth flounder stock was last assessed in 2007 and was estimated to be at 79 percent of its unfished biomass in 2007. The OFL of 16,571 mt is derived from a catch-only update of the 2007 stock assessment assuming actual catches since 2007 and using an $F_{30\%}$ F_{MSY} proxy. The ABC of 13,804 mt is a 16.7 percent reduction from the OFL ($\sigma = 0.72 / P^* = 0.40$) because it is a category 2 stock. The ACL is set equal to the ABC because the stock is above its target biomass of $B_{25\%}$. 2,098.1 mt is deducted from the ACL to accommodate the Tribal fishery (2,041 mt), the incidental open access fishery (40.8 mt), and research catch (16.4 mt), resulting in a fishery HG of 11,705.9 mt.

ⁱ Big skate. The OFL of 541 mt is based on an estimate of trawl survey biomass and natural mortality. The ABC of 494 mt is an

8.7 percent reduction from the OFL ($\sigma = 0.72 / P^* = 0.45$) as it is a category 2 stock. The ACL is set equal to the ABC. 57.4 mt is deducted from the ACL to accommodate the Tribal fishery (15 mt), the incidental open access fishery (38.4 mt), and research catch (4 mt), resulting in a fishery HG of 436.6 mt.

^j Black rockfish (California). A 2015 stock assessment estimated the stock to be at 33 percent of its unfished biomass in 2015. The OFL of 349 mt is projected in the 2015 stock assessment using an F_{MSY} proxy of $F_{50\%}$. The ABC of 334 mt is a 4.4 percent reduction from the OFL ($\sigma = 0.36 / P^* = 0.45$) because it is a category 1 stock. The ACL is set equal to the ABC because the stock is projected to be above its target biomass of $B_{40\%}$ in 2017. 1 mt is deducted from the ACL to accommodate EFP catch (1 mt), resulting in a fishery HG of 333 mt.

^k Black rockfish (Oregon). A 2015 stock assessment estimated the stock to be at 60 percent of its unfished biomass in 2015. The OFL of 577 mt is projected in the 2015 stock assessment using an F_{MSY} proxy of $F_{50\%}$. The ABC of 527 mt is an 8.7 percent reduction from the OFL ($\sigma = 0.72 / P^* = 0.45$) because it is a category 2 stock. The ACL is set equal to the ABC because the stock is above its target biomass of $B_{40\%}$. 0.6 mt is deducted from the ACL to accommodate the incidental open access fishery (0.6 mt), resulting in a fishery HG of 526.4 mt.

^l Black rockfish (Washington). A 2015 stock assessment estimated the stock to be at 43 percent of its unfished biomass in 2015. The OFL of 319 mt is projected in the 2015 stock assessment using an F_{MSY} proxy of $F_{50\%}$. The ABC of 305 mt is a 4.4 percent reduction from the OFL ($\sigma = 0.36 / P^* = 0.45$) because it is a category 1 stock. The ACL is set equal to the ABC because the stock is above its target biomass of $B_{40\%}$. 18 mt is deducted from the ACL to accommodate the Tribal fishery, resulting in a fishery HG of 287 mt.

^m Blackgill rockfish. Blackgill rockfish contributes to the harvest specifications for the Minor Slope Rockfish South complex. See footnote PP.

ⁿ Cabezon (California). A cabezon stock assessment was conducted in 2009. The cabezon spawning biomass in waters off California was estimated to be at 48.3 percent of its unfished biomass in 2009. The OFL of 157 mt is calculated using an F_{MSY} proxy of $F_{45\%}$. The ABC of 150 mt is based on a 4.4 percent reduction from the OFL ($\sigma = 0.36 / P^* = 0.45$) because it is a category 1 stock. The ACL is set equal to the ABC because the stock is above its target biomass of $B_{40\%}$. 0.3 mt is deducted from the ACL to accommodate the incidental open access fishery, resulting in a fishery HG of 149.7 mt.

^o Cabezon (Oregon). A cabezon stock assessment was conducted in 2009. The cabezon spawning biomass in waters off Oregon was estimated to be at 52 percent of its unfished biomass in 2009. The OFL of 49 mt is calculated using an F_{MSY} proxy of $F_{45\%}$. The ABC of 47 mt is based on a 4.4 percent reduction from the OFL ($\sigma = 0.36 / P^* = 0.45$) because it is a category 1 species. The ACL is set equal to the ABC because the stock is above its target biomass of $B_{40\%}$. There are no deductions from the ACL so the fishery HG is also equal to the ACL of 47 mt.

^p California scorpionfish. A California scorpionfish assessment was conducted in 2005 and was estimated to be at 79.8 percent of its unfished biomass in 2005. The OFL of 289 mt is based on projections from a catch-only update of the 2005 assessment assuming actual catches since 2005 and using an F_{MSY} harvest rate proxy of $F_{50\%}$. The ABC of 264 mt is an 8.7 percent reduction from the OFL ($\sigma = 0.72 / P^* = 0.45$) because it is a category 2 stock. The ACL is set at a constant catch amount of 150 mt. 2.2 mt is deducted from the ACL to accommodate the incidental open access fishery (2 mt) and research catch (0.2 mt), resulting in a fishery HG of 147.8 mt. An ACT of 111 mt is established.

^q Canary rockfish. A stock assessment was conducted in 2015 and the stock was estimated to be at 55.5 percent of its unfished biomass coastwide in 2015. The coastwide OFL of 1,793 mt is projected in the 2015 assessment using an F_{MSY} harvest rate proxy of $F_{50\%}$. The ABC of 1,714 mt is a 4.4 percent reduction from the OFL ($\sigma = 0.36 / P^* = 0.45$) because it is a category 1 stock. The ACL is set equal to the ABC because the stock is above its target biomass of $B_{40\%}$. 247 mt is deducted from the ACL to accommodate the Tribal fishery (50 mt), the incidental open access fishery (1.2 mt), EFP catch (1 mt), research catch (7.2 mt), and an additional deduction for unforeseen catch events (188 mt), resulting in a fishery HG of 1,466.6 mt. Recreational HGs are: 50 mt (Washington); 75 mt (Oregon); and 135 mt (California).

^r Chilipepper. A coastwide update assessment of the chilipepper stock was conducted in 2015 and estimated to be at 64 percent of its unfished biomass in 2015. Chilipepper are managed with stock-specific harvest specifications south of 40°10' N. lat. and within the Minor Shelf Rockfish complex north of 40°10' N. lat. Projected OFLs are stratified north and south of 40°10' N. lat. based on the average historical assessed area catch, which is 93 percent for the area south of 40°10' N. lat. and 7 percent for the area north of 40°10' N. lat. The OFL of 2,727 mt for the area south of 40°10' N. lat. is projected in the 2015 assessment using an F_{MSY} proxy of $F_{50\%}$. The ABC of 2,607 mt is a 4.4 percent reduction from the OFL ($\sigma = 0.36 / P^* = 0.45$) because it is a category 1 stock. The ACL is set equal to the ABC because the stock is above its target biomass of $B_{40\%}$. 45.9 mt is deducted from the ACL to accommodate the incidental open access fishery (5 mt), EFP fishing (30 mt), and research catch (10.9 mt), resulting in a fishery HG of 2,561.1 mt.

^s Dover sole. A 2011 Dover sole assessment estimated the stock to be at 83.7 percent of its unfished biomass in 2011. The OFL of 89,702 mt is based on an updated catch-only projection from the 2011 stock assessment assuming actual catches since 2011 and using an F_{MSY} proxy of $F_{30\%}$. The ABC of 85,755 mt is a 4.4 percent reduction from the OFL ($\sigma = 0.36 / P^* = 0.45$) because it is a category 1 stock. The ACL could be set equal to the ABC because the stock is above its target biomass of $B_{25\%}$. However, the ACL of 50,000 mt is set at a level below the ABC and higher than the maximum historical landed catch. 1,593.7 mt is deducted from the ACL to accommodate the Tribal fishery (1,497 mt),

the incidental open access fishery (54.8 mt), and research catch (41.9 mt), resulting in a fishery HG of 48,406.3 mt.

^t English sole. A 2013 stock assessment was conducted, which estimated the stock to be at 88 percent of its unfished biomass in 2013. The OFL of 10,914 mt is projected in the 2013 assessment using an F_{MSY} proxy of $F_{30\%}$. The ABC of 9,964 mt is an 8.7 percent reduction from the OFL ($\sigma = 0.72 / P^* = 0.45$) because it is a category 2 stock. The ACL is set equal to the ABC because the stock is above its target biomass of $B_{25\%}$. 212.8 mt is deducted from the ACL to accommodate the Tribal fishery (200 mt), the incidental open access fishery (7.0 mt) and research catch (5.8 mt), resulting in a fishery HG of 9,751.2 mt.

^u Lingcod north. The 2009 lingcod assessment modeled two populations north and south of the California-Oregon border (42° N. lat.). Both populations were healthy with stock depletion estimated at 62 and 74 percent for the north and south, respectively in 2009. The OFL is based on an updated catch-only projection from the 2009 assessment assuming actual catches since 2009 and using an F_{MSY} proxy of $F_{45\%}$. The OFL is apportioned north of 40°10' N. lat. by adding 48% of the OFL from California, resulting in an OFL of 3,549 mt for the area north of 40°10' N. lat. The ABC of 3,333 mt is based on a 4.4 percent reduction ($\sigma = 0.36 / P^* = 0.45$) from the OFL contribution for the area north of 42° N. lat. because it is a category 1 stock, and an 8.7 percent reduction ($\sigma = 0.72 / P^* = 0.45$) from the OFL contribution for the area between 42° N. lat. and 40°10' N. lat. because it is a category 2 stock. The ACL is set equal to the ABC because the stock is above its target biomass of $B_{40\%}$. 278.2 mt is deducted from the ACL for the Tribal fishery (250 mt), the incidental open access fishery (16 mt), EFP catch (0.5 mt) and research catch (11.7 mt), resulting in a fishery HG of 3,054.8 mt.

^v Lingcod south. The 2009 lingcod assessment modeled two populations north and south of the California-Oregon border (42° N. lat.). Both populations were healthy with stock depletion estimated at 62 and 74 percent for the north and south, respectively in 2009. The OFL is based on an updated catch-only projection of the 2009 stock assessment assuming actual catches since 2009 using an F_{MSY} proxy of $F_{45\%}$. The OFL is apportioned by subtracting 48% of the California OFL, resulting in an OFL of 1,502 mt for the area south of 40°10' N. lat. The ABC of 1,251 mt is based on a 16.7 percent reduction from the OFL ($\sigma = 0.72 / P^* = 0.40$) because it is a category 2 stock. The ACL is set equal to the ABC because the stock is above its target biomass of $B_{40\%}$. 9 mt is deducted from the ACL to accommodate the incidental open access fishery (6.9 mt), EFP fishing (1 mt), and research catch (1.1 mt), resulting in a fishery HG of 1,242 mt.

^w Longnose skate. A stock assessment was conducted in 2007 and the stock was estimated to be at 66 percent of its unfished biomass. The OFL of 2,556 mt is derived from the 2007 stock assessment using an F_{MSY} proxy of $F_{50\%}$. The ABC of 2,444 mt is a 4.4 percent reduction from the OFL ($\sigma = 0.36 / P^* = 0.45$) because it is a category 1 stock. The ACL of 2,000 mt is a fixed harvest

level that provides greater access to the stock and is less than the ABC. 147 mt is deducted from the ACL to accommodate the Tribal fishery (130 mt), incidental open access fishery (3.8 mt), and research catch (13.2 mt), resulting in a fishery HG of 1,853 mt.

^x Longspine thornyhead. A 2013 longspine thornyhead coastwide stock assessment estimated the stock to be at 75 percent of its unfished biomass in 2013. A coastwide OFL of 4,571 mt is projected in the 2013 stock assessment using an $F_{50\%}$ F_{MSY} proxy. The coastwide ABC of 3,808 mt is a 16.7 percent reduction from the OFL ($\sigma = 0.72 / P^* = 0.40$) because it is a category 2 stock. For the portion of the stock that is north of 34°27' N. lat., the ACL is 2,894 mt, and is 76 percent of the coastwide ABC based on the average swept-area biomass estimates (2003–2012) from the NMFS NWFS trawl survey. 46.8 mt is deducted from the ACL to accommodate the Tribal fishery (30 mt), the incidental open access fishery (3.3 mt), and research catch (13.5 mt), resulting in a fishery HG of 2,847.2 mt. For that portion of the stock south of 34°27' N. lat. the ACL is 914 mt and is 24 percent of the coastwide ABC based on the average swept-area biomass estimates (2003–2012) from the NMFS NWFS trawl survey. 3.2 mt is deducted from the ACL to accommodate the incidental open access fishery (1.8 mt), and research catch (1.4 mt), resulting in a fishery HG of 910.8 mt.

^y Pacific cod. The 3,200 mt OFL is based on the maximum level of historic landings. The ABC of 2,221 mt is a 30.6 percent reduction from the OFL ($\sigma = 1.44 / P^* = 0.40$) because it is a category 3 stock. The 1,600 mt ACL is the OFL reduced by 50 percent as a precautionary adjustment. 509 mt is deducted from the ACL to accommodate the Tribal fishery (500 mt), research catch (7 mt), and the incidental open access fishery (2 mt), resulting in a fishery HG of 1,091 mt.

^z Pacific whiting. Pacific whiting are assessed annually. The final specifications will be determined consistent with the U.S.-Canada Pacific Whiting Agreement and will be announced after the Council's April 2017 meeting.

^{aa} Petrale sole. A 2015 stock assessment update was conducted, which estimated the stock to be at 31 percent of its unfished biomass in 2015. The OFL of 3,280 mt is projected in the 2015 assessment using an F_{MSY} proxy of $F_{30\%}$. The ABC of 3,136 mt is a 4.4 percent reduction from the OFL ($\sigma = 0.36 / P^* = 0.45$) because it is a category 1 stock. The ACL is set equal to the ABC because the stock is above its target biomass of $B_{25\%}$. 240.9 mt is deducted from the ACL to accommodate the Tribal fishery (220 mt), the incidental open access fishery (3.2 mt) and research catch (17.7 mt), resulting in a fishery HG of 2,895.1 mt.

^{bb} Sablefish north. A coastwide sablefish stock assessment update was conducted in 2015. The coastwide sablefish biomass was estimated to be at 33 percent of its unfished biomass in 2015. The coastwide OFL of 8,050 mt is projected in the 2015 stock assessment using an F_{MSY} proxy of $F_{45\%}$. The ABC of 7,350 mt is an 8.7 percent reduction from the OFL ($\sigma = 0.36 / P^* = 0.40$). The 40–10 adjustment is applied to the ABC to derive

a coastwide ACL value because the stock is in the precautionary zone. This coastwide ACL value is not specified in regulations. The coastwide ACL value is apportioned north and south of 36° N. lat., using the 2003–2014 average estimated swept area biomass from the NMFS NWFSC trawl survey, with 73.8 percent apportioned north of 36° N. lat. and 26.2 percent apportioned south of 36° N. lat. The northern ACL is 5,252 mt and is reduced by 525 mt for the Tribal allocation (10 percent of the ACL north of 36° N. lat.). The 525 mt Tribal allocation is reduced by 1.5 percent to account for discard mortality. Detailed sablefish allocations are shown in Table 1c.

^{cc} Sablefish south. The ACL for the area south of 36° N. lat. is 1,864 mt (26.2 percent of the calculated coastwide ACL value). 5 mt is deducted from the ACL to accommodate the incidental open access fishery (2 mt) and research catch (3 mt), resulting in a fishery HG of 1,859 mt.

^{dd} Shortbelly rockfish. A non-quantitative shortbelly rockfish assessment was conducted in 2007. The spawning stock biomass of shortbelly rockfish was estimated to be 67 percent of its unfished biomass in 2005. The OFL of 6,950 mt is based on the estimated MSY in the 2007 stock assessment. The ABC of 5,789 mt is a 16.7 percent reduction of the OFL ($\sigma = 0.72 / P^* = 0.40$) because it is a category 2 stock. The 500 mt ACL is set to accommodate incidental catch when fishing for co-occurring healthy stocks and in recognition of the stock's importance as a forage species in the California Current ecosystem. 10.9 mt is deducted from the ACL to accommodate the incidental open access fishery (8.9 mt) and research catch (2 mt), resulting in a fishery HG of 489.1 mt.

^{ee} Shortspine thornyhead. A 2013 coastwide shortspine thornyhead stock assessment estimated the stock to be at 74.2 percent of its unfished biomass in 2013. A coastwide OFL of 3,144 mt is projected in the 2013 stock assessment using an $F_{50\%}$ F_{MSY} proxy. The coastwide ABC of 2,619 mt is a 16.7 percent reduction from the OFL ($\sigma = 0.72 / P^* = 0.40$) because it is a category 2 stock. For the portion of the stock that is north of 34°27' N. lat., the ACL is 1,713 mt. The northern ACL is 65.4 percent of the coastwide ABC based on the average swept-area biomass estimates (2003–2012) from the NMFS NWFSC trawl survey. 59 mt is deducted from the ACL to accommodate the Tribal fishery (50 mt), the incidental open access fishery (1.8 mt), and research catch (7.2 mt), resulting in a fishery HG of 1,654 mt for the area north of 34°27' N. lat. For that portion of the stock south of 34°27' N. lat. the ACL is 906 mt. The southern ACL is 34.6 percent of the coastwide ABC based on the average swept-area biomass estimates (2003–2012) from the NMFS NWFSC trawl survey. 42.3 mt is deducted from the ACL to accommodate the incidental open access fishery (41.3 mt) and research catch (1 mt), resulting in a fishery HG of 863.7 mt for the area south of 34°27' N. lat.

^{ff} Spiny dogfish. A coastwide spiny dogfish stock assessment was conducted in 2011. The coastwide spiny dogfish biomass was estimated to be at 63 percent of its unfished biomass in 2011. The coastwide OFL of 2,514

mt is derived from the 2011 assessment using an F_{MSY} proxy of $F_{50\%}$. The coastwide ABC of 2,094 mt is a 16.7 percent reduction from the OFL ($\sigma = 0.72 / P^* = 0.40$) because it is a category 2 stock. The ACL is set equal to the ABC because the stock is above its target biomass of $B_{40\%}$. 338 mt is deducted from the ACL to accommodate the Tribal fishery (275 mt), the incidental open access fishery (49.5 mt), EFP catch (1 mt), and research catch (12.5 mt), resulting in a fishery HG of 1,756 mt.

^{gg} Splitnose rockfish. A coastwide splitnose rockfish assessment was conducted in 2009 that estimated the stock to be at 66 percent of its unfished biomass in 2009. Splitnose rockfish in the north is managed in the Minor Slope Rockfish complex and with stock-specific harvest specifications south of 40°10' N. lat. The coastwide OFL is projected in the 2009 assessment using an F_{MSY} proxy of $F_{50\%}$. The coastwide OFL is apportioned north and south of 40°10' N. lat. based on the average 1916–2008 assessed area catch, resulting in 64.2 percent of the coastwide OFL apportioned south of 40°10' N. lat., and 35.8 percent apportioned for the contribution of splitnose rockfish to the northern Minor Slope Rockfish complex. The southern OFL of 1,841 mt results from the apportionment described above. The southern ABC of 1,760 mt is a 4.4 percent reduction from the southern OFL ($\sigma = 0.36 / P^* = 0.45$) because it is a category 1 stock. The ACL is set equal to the ABC because the stock is estimated to be above its target biomass of $B_{40\%}$. 10.7 mt is deducted from the ACL to accommodate the incidental open access fishery (0.2 mt), research catch (9 mt) and EFP catch (1.5 mt), resulting in a fishery HG of 1,749.3 mt.

^{hh} Starry flounder. The stock was assessed in 2005 and was estimated to be above 40 percent of its unfished biomass in 2005 (44 percent in Washington and Oregon, and 62 percent in California). The coastwide OFL of 1,847 mt is set equal to the 2016 OFL, which was derived from the 2005 assessment using an F_{MSY} proxy of $F_{30\%}$. The ABC of 1,282 mt is a 30.6 percent reduction from the OFL ($\sigma = 1.44 / P^* = 0.40$) because it is a category 3 stock. The ACL is set equal to the ABC because the stock was estimated to be above its target biomass of $B_{25\%}$ in 2017. 10.3 mt is deducted from the ACL to accommodate the Tribal fishery (2 mt), and the incidental open access fishery (8.3 mt), resulting in a fishery HG of 1,271.7 mt.

ⁱⁱ Widow rockfish. The widow rockfish stock was assessed in 2015 and was estimated to be at 75 percent of its unfished biomass in 2015. The OFL of 14,130 mt is projected in the 2015 stock assessment using the $F_{50\%}$ F_{MSY} proxy. The ABC of 13,508 mt is a 4.4 percent reduction from the OFL ($\sigma = 0.36 / P^* = 0.45$) because it is a category 1 stock. The ACL is set equal to the ABC because the stock is above its target biomass of $B_{40\%}$. 217.7 mt is deducted from the ACL to accommodate the Tribal fishery (200 mt), the incidental open access fishery (0.5 mt), EFP catch (9 mt) and research catch (8.2 mt), resulting in a fishery HG of 13,290.3 mt.

^{jj} Yellowtail rockfish. A 2013 yellowtail rockfish stock assessment was conducted for the portion of the population north of 40°10' N. lat. The estimated stock depletion was 67

percent of its unfished biomass in 2013. The OFL of 6,786 mt is projected in the 2013 stock assessment using an F_{MSY} proxy of $F_{50\%}$. The ABC of 6,196 mt is an 8.7 percent reduction from the OFL ($\sigma = 0.72 / P^* = 0.45$) because it is a category 2 stock. The ACL is set equal to the ABC because the stock is above its target biomass of $B_{40\%}$. 1,030 mt is deducted from the ACL to accommodate the Tribal fishery (1,000 mt), the incidental open access fishery (3.4 mt), EFP catch (10 mt) and research catch (16.6 mt), resulting in a fishery HG of 5,166.1 mt.

^{kk} Minor Nearshore Rockfish north. The OFL for Minor Nearshore Rockfish north of 40°10' N. lat. of 118 mt is the sum of the OFL contributions for the component species managed in the complex. The ABCs for the minor rockfish complexes are based on a sigma value of 0.72 for category 2 stocks (blue/deacon rockfish in California, brown rockfish, China rockfish, and copper rockfish) and a sigma value of 1.44 for category 3 stocks (all others) with a P^* of 0.45. The resulting ABC of 105 mt is the summed contribution of the ABCs for the component species. The ACL of 105 mt is the sum of contributing ABCs of healthy assessed stocks and unassessed stocks, plus the ACL contributions for blue/deacon rockfish in California where the 40–10 adjustment was applied to the ABC contribution for this stock because it is in the precautionary zone. 1.8 mt is deducted from the ACL to accommodate the Tribal fishery (1.5 mt) and the incidental open access fishery (0.3 mt), resulting in a fishery HG of 103.2 mt. Between 40°10' N. lat. and 42° N. lat. the Minor Nearshore Rockfish complex north has a harvest guideline of 40.2 mt. Blue/deacon rockfish south of 42° N. lat. has a stock-specific HG, described in footnote nn/.

^{ll} Minor Shelf Rockfish north. The OFL for Minor Shelf Rockfish north of 40°10' N. lat. of 2,303 mt is the sum of the OFL contributions for the component species within the complex. The ABCs for the minor rockfish complexes are based on a sigma value of 0.36 for a category 1 stock (chilipepper), a sigma value of 0.72 for category 2 stocks (greenspotted rockfish between 40°10' and 42° N. lat. and greenstriped rockfish), and a sigma value of 1.44 for category 3 stocks (all others) with a P^* of 0.45. The resulting ABC of 2,049 mt is the summed contribution of the ABCs for the component species. The ACL of 2,049 mt is the sum of contributing ABCs of healthy assessed stocks and unassessed stocks, plus the ACL contribution of greenspotted rockfish in California where the 40–10 adjustment was applied to the ABC contribution for this stock because it is in the precautionary zone. 83.8 mt is deducted from the ACL to accommodate the Tribal fishery (30 mt), the incidental open access fishery (26 mt), EFP catch (3 mt), and research catch (24.8 mt), resulting in a fishery HG of 1,965.2 mt.

^{mm} Minor Slope Rockfish north. The OFL for Minor Slope Rockfish north of 40°10' N. lat. of 1,897 mt is the sum of the OFL contributions for the component species within the complex. The ABCs for the Minor Slope Rockfish complexes are based on a sigma value of 0.39 for aurora rockfish, a

sigma value of 0.36 for the other category 1 stock (splitnose rockfish), a sigma value of 0.72 for category 2 stocks (rougeye rockfish, blackspotted rockfish, and sharpchin rockfish), and a sigma value of 1.44 for category 3 stocks (all others) with a P^* of 0.45. A unique sigma of 0.39 was calculated for aurora rockfish because the variance in estimated spawning biomass was greater than the 0.36 used as a proxy for other category 1 stocks. The resulting ABC of 1,755 mt is the summed contribution of the ABCs for the component species. The ACL is set equal to the ABC because all the assessed component stocks (*i.e.*, rougeye rockfish, blackspotted rockfish, sharpchin rockfish, and splitnose rockfish) are above the target biomass of $B_{40\%}$. 65.1 mt is deducted from the ACL to accommodate the Tribal fishery (36 mt), the incidental open access fishery (18.6 mt), EFP catch (1 mt), and research catch (9.5 mt), resulting in a fishery HG of 1,689.9 mt.

^{mm} Minor Nearshore Rockfish south. The OFL for the Minor Nearshore Rockfish complex south of 40°10' N. lat. of 1,329 mt is the sum of the OFL contributions for the component species within the complex. The ABC for the southern Minor Nearshore Rockfish complex is based on a sigma value of 0.72 for category 2 stocks (*i.e.*, blue/deacon rockfish north of 34°27' N. lat., brown rockfish, China rockfish, and copper rockfish) and a sigma value of 1.44 for category 3 stocks (all others) with a P^* of 0.45. The resulting ABC of 1,166 mt is the summed contribution of the ABCs for the component species. The ACL of 1,163 mt is the sum of the contributing ABCs of healthy assessed stocks and unassessed stocks, plus the ACL contribution for blue/deacon rockfish north of 34°27' N. lat. and China rockfish where the 40–10 adjustment was applied to the ABC contributions for these two stocks because they are in the precautionary zone. 4.1 mt is deducted from the ACL to accommodate the incidental open access fishery (1.4 mt) and research catch (2.7 mt), resulting in a fishery HG of 1,158.9 mt. Blue/deacon rockfish south of 42° N. lat. has a stock-specific HG set equal to the 40–10-adjusted ACL for the portion of the stock north of 34°27' N. lat. (243.7 mt) plus the ABC contribution for the unassessed portion of the stock south of 34°27' N. lat. (60.8 mt). The California (*i.e.*, south of 42° N. lat.) blue/deacon rockfish HG is 304.5 mt.

ⁿⁿ Minor Shelf Rockfish south. The OFL for the Minor Shelf Rockfish complex south of 40°10' N. lat. of 1,917 mt is the sum of the OFL contributions for the component species within the complex. The ABC for the southern Minor Shelf Rockfish complex is based on a sigma value of 0.72 for category 2 stocks (greenspotted and greenstriped rockfish) and a sigma value of 1.44 for category 3 stocks (all others) with a P^* of 0.45. The resulting ABC of 1,624 mt is the summed contribution of the ABCs for the component species. The ACL of 1,623 mt is the sum of contributing ABCs of healthy assessed stocks and unassessed stocks, plus the ACL contribution of greenspotted rockfish in California where the 40–10 adjustment was applied to the ABC contribution for this stock because it is in the precautionary zone. 47.2 mt is deducted from the ACL to accommodate the incidental open access fishery (8.6 mt), EFP catch (30 mt), and research catch (8.6 mt), resulting in a fishery HG of 1,575.8 mt.

^{pp} Minor Slope Rockfish south. The OFL of 827 mt is the sum of the OFL contributions for the component species within the complex. The ABC for the southern Minor Slope Rockfish complex is based on a sigma value of 0.39 for aurora rockfish, a sigma value of 0.72 for category 2 stocks (blackgill rockfish, rougeye rockfish, blackspotted rockfish, and sharpchin rockfish) and a sigma value of 1.44 for category 3 stocks (all others) with a P^* of 0.45. A unique sigma of 0.39 was calculated for aurora rockfish because the variance in estimated biomass was greater than the 0.36 used as a proxy for other category 1 stocks. The resulting ABC of 718 mt is the summed contribution of the ABCs for the component species. The ACL of 707 mt is the sum of the contributing ABCs of healthy assessed stocks and unassessed stocks, plus the ACL contribution of blackgill rockfish where the 40–10 adjustment was applied to the ABC contribution for this stock because it is in the precautionary zone. 20.2 mt is deducted from the ACL to accommodate the incidental open access fishery (17.2 mt), EFP catch (1 mt), and research catch (2 mt), resulting in a fishery HG of 686.8 mt. Blackgill rockfish has a stock-specific HG for the entire groundfish fishery south of 40°10' N. lat. set equal to the species' contribution to the 40–10-adjusted ACL. Harvest of blackgill rockfish in all

groundfish fisheries counts against this HG of 120.2 mt. Nontrawl fisheries are subject to a blackgill rockfish HG of 44.5 mt.

^{qq} Other Flatfish. The Other Flatfish complex is comprised of flatfish species managed in the PCGFMP that are not managed with stock-specific OFLs/ABCs/ACLs. Most of the species in the Other Flatfish complex are unassessed and include: Butter sole, curlfin sole, flathead sole, Pacific sanddab, rock sole, sand sole, and rex sole. The Other Flatfish OFL of 11,165 mt is based on the sum of the OFL contributions of the component stocks. The ABC of 8,510 mt is based on a sigma value of 0.72 for a category 2 stock (rex sole) and a sigma value of 1.44 for category 3 stocks (all others) with a P^* of 0.40. The ACL is set equal to the ABC. The ACL is set equal to the ABC because all of the assessed stocks (*i.e.*, Pacific sanddabs and rex sole) were above their target biomass of $B_{25\%}$. 204 mt is deducted from the ACL to accommodate the Tribal fishery (60 mt), the incidental open access fishery (125 mt), and research catch (19 mt), resulting in a fishery HG of 8,306 mt.

^{rr} Other Fish. The Other Fish complex is comprised of kelp greenling coastwide, cabezon off Washington, and leopard shark coastwide. The 2015 assessment for the kelp greenling stock off of Oregon projected an estimated depletion of 80 percent in 2015. All other stocks are unassessed. The OFL of 537 mt is the sum of the OFL contributions for kelp greenling coastwide, cabezon off Washington, and leopard shark coastwide. The ABC for the Other Fish complex is based on a sigma value of 0.44 for kelp greenling off Oregon and a sigma value of 1.44 for category 3 stocks (all others) with a P^* of 0.45. A unique sigma of 0.44 was calculated for kelp greenling off Oregon because the variance in estimated spawning biomass was greater than the 0.36 sigma used as a proxy for other category 1 stocks. The resulting ABC of 474 mt is the summed contribution of the ABCs for the component species. The ACL is set equal to the ABC because all of the assessed stocks (kelp greenling off Oregon) were above their target biomass of $B_{40\%}$. There are no deductions from the ACL so the fishery HG is equal to the ACL of 474 mt.

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Table 1b. to Part 660, Subpart C – 2017, Allocations by Species or Species Group (Weight in Metric Tons)

Species	Area	Fishery HG or ACT	Trawl		Non-trawl	
			Percent	Mt	Percent	Mt
BOCACCIO a/	S. of 40°10' N. lat.	774.6	39	302.4	61	472.2
COWCOD a/b/	S. of 40°10' N. lat.	4.0	36	1.4	64	2.6
DARKBLOTCHED ROCKFISH c/	Coastwide	563.8	95	535.6	5	28.2
PACIFIC OCEAN PERCH e/	N. of 40°10' N. lat.	231.6	95	220.0	5	11.6
YELLOW EYE ROCKFISH a/	Coastwide	14.6	NA	1.1	NA	13.1
Arrowtooth flounder	Coastwide	11,705.9	95	11,120.6	5	585.3
Big skate a/	Coastwide	436.6	95	414.8	5	21.8
Canary rockfish a/d/	Coastwide	1,466.6	NA	1,060.1	NA	406.5
Chilipepper	S. of 40°10' N. lat.	2,561.1	75	1,920.8	25	640.3
Dover sole	Coastwide	48,406.3	95	45,986.0	5	2,420.3
English sole	Coastwide	9,751.2	95	9,263.6	5	487.6
Lingcod	N. of 40°10' N. lat.	3,054.8	45	1,374.7	55	1,680.2
Lingcod	S. of 40°10' N. lat.	1,242.0	45	558.9	55	683.1
Longnose skate a/	Coastwide	1,853.0	90	1,667.7	10	185.3
Longspine thornyhead	N. of 34°27' N. lat.	2,847.2	95	2,704.8	5	142.4
Pacific cod	Coastwide	1,091.0	95	1,036.4	5	54.5
Pacific whiting	Coastwide	TBD	100	TBD	0	TBD
Petrale sole	Coastwide	2,895.1	95	2,750.3	5	144.8
Sablefish	N. of 36° N. lat.	N/A	See Table 1c			
Sablefish	S. of 36° N. lat.	1,859.0	42	780.8	58	1,078.2
Shortspine thornyhead	N. of 34°27' N. lat.	1,654.0	95	1,571.3	5	82.7
Shortspine thornyhead	S. of 34°27' N. lat.	863.7	NA	50.0	NA	813.7
Splitnose rockfish	S. of 40°10' N. lat.	1,749.3	95	1,661.8	5	87.5
Stary flounder	Coastwide	1,271.7	50	635.9	50	635.9
Widow rockfish f/	Coastwide	13,290.3	91	12,094.2	9	1,196.1
Yellowtail rockfish	N. of 40°10' N. lat.	5,166.1	88	4,546.1	12	619.9
Minor Shelf Rockfish a/	N. of 40°10' N. lat.	1,965.2	60	1,183.1	40	782.1
Minor Slope Rockfish	N. of 40°10' N. lat.	1,689.9	81	1,368.8	19	321.1
Minor Shelf Rockfish a/	S. of 40°10' N. lat.	1,575.8	12	192.2	88	1,383.6
Minor Slope Rockfish	S. of 40°10' N. lat.	686.8	63	432.7	37	254.1
Other Flatfish	Coastwide	8,306.0	90	7,475.4	10	830.6

a/ Allocations decided through the biennial specification process.

b/ The cowcod fishery harvest guideline is further reduced to an ACT of 4.0 mt.

c/ Consistent with regulations at §660.55(c), 9 percent (48.2 mt) of the total trawl allocation for darkblotched rockfish is allocated to the Pacific whiting fishery, as follows: 20.2 mt for the Shorebased IFQ Program, 11.6 mt for the MS sector, and 16.4 mt for the C/P sector. The tonnage calculated here for the Pacific whiting IFQ fishery contributes to the total shorebased trawl allocation, which is found at §660.140(d)(1)(ii)(D).

d/ Canary rockfish is allocated approximately 72 percent to trawl and 28 percent to non-trawl. 46 mt of the total trawl allocation of canary rockfish is allocated to the MS and C/P sectors, as follows: 30 mt for the MS sector, and 16 mt for the C/P sector.

e/ Consistent with regulations at §660.55(c), 17 percent (37.4 mt) of the total trawl allocation for POP is allocated to the Pacific whiting fishery, as follows: 15.7 mt for the Shorebased IFQ Program, 9.0 mt for the MS sector, and 12.7 mt for the C/P sector. The tonnage calculated here for the Pacific whiting IFQ fishery contributes to the total shorebased trawl allocation, which is found at §660.140(d)(1)(ii)(D).

f/ Consistent with regulations at §660.55(c), 10 percent (1,209.4 mt) of the total trawl allocation for widow rockfish is allocated to the whiting fisheries, as follows: 508.0 mt for the shorebased IFQ fishery, 290.3 mt for the mothership fishery, and 411.2 mt for the catcher/processor fishery. The tonnage calculated here for the whiting portion of the shorebased IFQ fishery contributes to the total shorebased trawl allocation, which is found at §660.140(d)(1)(ii)(D).

Table 1c. to Part 660, Subpart C – Sablefish North of 36° N. lat. Allocations, 2017

Year	ACL	Set-asides		Recreational Estimate	EFP	Commercial HG	Limited Entry HG		Open Access HG	
		Tribal a/	Research				Percent	mt	Percent	mt b/
2017	5,252	525	26	6.1	1	4,694	90.6	4,252	9.4	441
Year	LE All	Limited Entry Trawl c/			Limited Entry Fixed Gear d/					
		All Trawl	At-sea Whiting	Shorebased IFQ	All FG	Primary		DTL		
2017	4,252	2,466	50	2,416	1,786	1,518		268		
a/ The tribal allocation is further reduced by 1.5 percent for discard mortality resulting in 517 mt in 2017.										
b/ The open access HG is taken by the incidental OA fishery and the directed OA fishery.										
c/ The trawl allocation is 58 percent of the limited entry HG.										
d/ The limited entry fixed gear allocation is 42 percent of the limited entry HG.										

Table 1d. to Part 660, Subpart C – At-Sea Whiting Fishery Annual Set-Asides, 2017

Species or Species Complex	Area	Set Aside (mt)
BOCACCIO	S. of 40°10 N. lat.	NA
COWCOD	S. of 40°10 N. lat.	NA
DARKBLOTCHED ROCKFISH a/	Coastwide	Allocation
PACIFIC OCEAN PERCH a/	N. of 40°10 N. lat.	Allocation
YELLOW EYE ROCKFISH	Coastwide	0
Arrowtooth flounder	Coastwide	70
Canary rockfish a/	Coastwide	Allocation
Chilipepper	S. of 40°10 N. lat.	NA
Dover sole	Coastwide	5
English sole	Coastwide	5
Lingcod	N. of 40°10 N. lat.	15
Lingcod	S. of 40°10 N. lat.	NA
Longnose skate	Coastwide	5
Longspine thornyhead	N. of 34°27 N. lat.	5
Longspine thornyhead	S. of 34°27 N. lat.	NA
Minor Nearshore Rockfish	N. of 40°10 N. lat.	NA
Minor Nearshore Rockfish	S. of 40°10 N. lat.	NA
Minor Shelf Rockfish	N. of 40°10 N. lat.	35
Minor Shelf Rockfish	S. of 40°10 N. lat.	NA
Minor Slope Rockfish	N. of 40°10 N. lat.	100
Minor Slope Rockfish	S. of 40°10 N. lat.	NA
Other Fish	Coastwide	NA
Other Flatfish	Coastwide	20
Pacific cod	Coastwide	5
Pacific Halibut b/	Coastwide	10
Pacific Whiting	Coastwide	Allocation
Petrale sole	Coastwide	5
Sablefish	N. of 36° N. lat.	50
Sablefish	S. of 36° N. lat.	NA
Shortspine thornyhead	N. of 34°27 N. lat.	20
Shortspine thornyhead	S. of 34°27 N. lat.	NA
Starry flounder	Coastwide	5
Widow Rockfish a/	Coastwide	Allocation
Yellowtail rockfish	N. of 40°10 N. lat.	300

a/ See Table 1.b., to Subpart C, for the at-sea whiting allocations for these species.

b/ As stated in §660.55 (m), the Pacific halibut set-aside is 10 mt, to accommodate bycatch in the at-sea Pacific whiting fisheries and in the shorebased trawl sector south of 40°10 N. lat. (estimated to be approximately 5 mt each).

■ 12. Tables 2a through 2d to Part 660, Subpart C, are revised to read as follows:

Table 2a. to Part 660, Subpart C- 2018, and Beyond, Specifications of OFL, ABC, ACL, ACT and Fishery Harvest Guidelines (Weights in Metric Tons)

Species	Area	OFL	ABC	ACL a/	Fishery HG b/
BOCACCIO c/	S. of 40°10' N. lat.	2,013	1,924	741	726
COWCOD d/	S. of 40°10' N. lat.	71	64	10	8
DARKBLOTCHED ROCKFISH e/	Coastwide	683	653	653	576
PACIFIC OCEAN PERCH f/	N. of 40°10' N. lat.	984	941	281	232
YELLOW EYE ROCKFISH g/	Coastwide	58	48	20	14
Arrowtooth flounder h/	Coastwide	16,498	13,743	13,743	11,645
Big skate i/	Coastwide	541	494	494	437
Black rockfish j/	California (South of 42° N. lat.)	347	332	332	331
Black rockfish k/	Oregon (Between 46°16' N. lat. and 42° N. lat.)	570	520	520	519
Black rockfish l/	Washington (N. of 46°16' N. lat.)	315	301	301	283
Blackgill rockfish m/	S. of 40°10' N. lat.	NA	NA	NA	NA
Cabazon n/	California (South of 42° N. lat.)	156	149	149	149
Cabazon o/	Oregon (Between 46°16' N. lat. and 42° N. lat.)	49	47	47	47
California scorpionfish p/	S. of 34°27' N. lat.	278	254	150	148
Canary rockfish q/	Coastwide	1,596	1,526	1,526	1,467
Chilipepper r/	S. of 40°10' N. lat.	2,623	2,507	2,507	2,461
Dover sole s/	Coastwide	90,282	86,310	50,000	48,406
English sole t/	Coastwide	8,255	7,537	7,537	7,324
Lingcod u/	N. of 40°10' N. lat.	3,310	3,110	3,110	2,832
Lingcod v/	S. of 40°10' N. lat.	1,373	1,144	1,144	1,135
Longnose skate w/	Coastwide	2,526	2,415	2,000	1,853
Longspine thornyhead x/	Coastwide	4,339	3,614	NA	NA
Longspine thornyhead	N. of 34°27' N. lat.	NA	NA	2,747	2,700
Longspine thornyhead	S. of 34°27' N. lat.	NA	NA	867	864
Pacific cod y/	Coastwide	3,200	2,221	1,600	1,091
Pacific whiting z/	Coastwide	z/	z/	z/	z/
Petrale sole aa/	Coastwide	3,152	3,013	3,013	2,772
Sablefish	Coastwide	8,329	7,604	NA	NA
Sablefish bb/	N. of 36° N. lat.	NA	NA	5,475	See Table 2c
Sablefish cc/	S. of 36° N. lat.	NA	NA	1,944	1,939
Shortbelly rockfish dd/	Coastwide	6,950	5,789	500	489
Shortspine thornyhead ee/	Coastwide	3,116	2,596	NA	NA
Shortspine thornyhead	N. of 34°27' N. lat.	NA	NA	1,698	1,639
Shortspine thornyhead	S. of 34°27' N. lat.	NA	NA	898	856
Spiny dogfish ff/	Coastwide	2,500	2,083	2,083	1,745
Splitnose rockfish gg/	S. of 40°10' N. lat.	1,842	1,761	1,761	1,750
Starry flounder hh/	Coastwide	1,847	1,282	1,282	1,272
Widow rockfish ii/	Coastwide	13,237	12,655	12,655	12,437
Yellowtail rockfish jj/	N. of 40°10' N. lat.	6,574	6,002	6,002	4,972
Minor Nearshore Rockfish kk/	N. of 40°10' N. lat.	119	105	105	103
Minor Shelf Rockfish ll/	N. of 40°10' N. lat.	2,302	2,048	2,047	1,963
Minor Slope Rockfish mm/	N. of 40°10' N. lat.	1,896	1,754	1,754	1,689
Minor Nearshore Rockfish nn/	S. of 40°10' N. lat.	1,344	1,180	1,179	1,175
Minor Shelf Rockfish oo/	S. of 40°10' N. lat.	1,918	1,625	1,624	1,577
Minor Slope Rockfish pp/	S. of 40°10' N. lat.	829	719	709	689
Other Flatfish qq/	Coastwide	9,690	7,281	7,281	7,077
Other Fish rr/	Coastwide	501	441	441	441

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^a Annual catch limits (ACLs), annual catch targets (ACTs) and harvest guidelines (HGs) are specified as total catch values.

^b Fishery harvest guidelines means the harvest guideline or quota after subtracting Pacific Coast treaty Indian tribes allocations and projected catch, projected research catch, deductions for fishing mortality in non-groundfish fisheries, and deductions for EFPs from the ACL or ACT.

^c Bocaccio. A stock assessment was conducted in 2015 for the bocaccio stock between the U.S.-Mexico border and Cape Blanco. The stock is managed with stock-specific harvest specifications south of 40°10' N. lat. and within the Minor Shelf Rockfish complex north of 40°10' N. lat. A historical catch distribution of approximately 7.4 percent was used to apportion the assessed stock to the area north of 40°10' N. lat. The bocaccio stock was estimated to be at 36.8 percent of its unfished biomass in 2015. The OFL of 2,013 mt is projected in the 2015 stock assessment using an F_{MSY} proxy of $F_{50\%}$. The ABC of 1,924 mt is a 4.4 percent reduction from the OFL ($\sigma = 0.36 / P^* = 0.45$) because it is a category 1 stock. The 741 mt ACL is based on the current rebuilding plan with a target year to rebuild of 2022 and an SPR harvest rate of 77.7 percent. 15.4 mt is deducted from the ACL to accommodate the incidental open access fishery (0.8 mt), EFP catch (10 mt) and research catch (4.6 mt), resulting in a fishery HG of 725.6 mt. The California recreational fishery has an HG of 305.5 mt.

^d Cowcod. A stock assessment for the Conception Area was conducted in 2013 and the stock was estimated to be at 33.9 percent of its unfished biomass in 2013. The Conception Area OFL of 59 mt is projected in the 2013 rebuilding analysis using an F_{MSY} proxy of $F_{50\%}$. The OFL contribution of 12 mt for the unassessed portion of the stock in the Monterey area is based on depletion-based stock reduction analysis. The OFLs for the Monterey and Conception areas were summed to derive the south of 40°10' N. lat. OFL of 71 mt. The ABC for the area south of 40°10' N. lat. is 64 mt. The assessed portion of the stock in the Conception Area is considered category 2, with a Conception area contribution to the ABC of 54 mt, which is an 8.7 percent reduction from the Conception area OFL ($\sigma = 0.72 / P^* = 0.45$). The unassessed portion of the stock in the Monterey area is considered a category 3 stock, with a contribution to the ABC of 10 mt, which is a 16.6 percent reduction from the Monterey area OFL ($\sigma = 1.44 / P^* = 0.45$). A single ACL of 10 mt is being set for both areas combined. The ACL of 10 mt is based on the rebuilding plan with a target year to rebuild of 2020 and an SPR harvest rate of 82.7 percent, which is equivalent to an exploitation rate (catch over age 11+ biomass) of 0.007. 2 mt is deducted from the ACL to accommodate the incidental open access fishery (less than 0.1 mt), EFP fishing (less than 0.1 mt) and research activity (2 mt), resulting in a fishery HG of 8 mt. Any additional mortality in research activities will be deducted from the ACL. A single ACT of 4 mt is being set for both areas combined.

^e Darkblotched rockfish. A 2015 stock assessment estimated the stock to be at 39

percent of its unfished biomass in 2015. The OFL of 683 mt is projected in the 2015 stock assessment using an F_{MSY} proxy of $F_{50\%}$. The ABC of 653 mt is a 4.4 percent reduction from the OFL ($\sigma = 0.36 / P^* = 0.45$) because it is a category 1 stock. The ACL is set equal to the ABC, as the stock is projected to be above its target biomass of $B_{40\%}$ in 2017. 77.3 mt is deducted from the ACL to accommodate the Tribal fishery (0.2 mt), the incidental open access fishery (24.5 mt), EFP catch (0.1 mt), research catch (2.5 mt) and an additional deduction for unforeseen catch events (50 mt), resulting in a fishery HG of 575.8 mt.

^f Pacific ocean perch. A stock assessment was conducted in 2011 and the stock was estimated to be at 19.1 percent of its unfished biomass in 2011. The OFL of 984 mt for the area north of 40°10' N. lat. is based on an updated catch-only projection of the 2011 rebuilding analysis using an $F_{50\%}$ F_{MSY} proxy. The ABC of 941 mt is a 4.4 percent reduction from the OFL ($\sigma = 0.36 / P^* = 0.45$) as it is a category 1 stock. The ACL is based on the current rebuilding plan with a target year to rebuild of 2051 and a constant catch amount of 281 mt in 2017 and 2018, followed in 2019 and beyond by ACLs based on an SPR harvest rate of 86.4 percent. 49.4 mt is deducted from the ACL to accommodate the Tribal fishery (9.2 mt), the incidental open access fishery (10 mt), research catch (5.2 mt) and an additional deduction for unforeseen catch events (25 mt), resulting in a fishery HG of 231.6 mt.

^g Yelloweye rockfish. A stock assessment update was conducted in 2011. The stock was estimated to be at 21.4 percent of its unfished biomass in 2011. The 58 mt coastwide OFL is based on a catch-only update of the 2011 stock assessment, assuming actual catches since 2011 and using an F_{MSY} proxy of $F_{50\%}$. The ABC of 48 mt is a 16.7 percent reduction from the OFL ($\sigma = 0.72 / P^* = 0.40$) as it is a category 2 stock. The 20 mt ACL is based on the current rebuilding plan with a target year to rebuild of 2074 and an SPR harvest rate of 76.0 percent. 6 mt is deducted from the ACL to accommodate the Tribal fishery (2.3 mt), the incidental open access fishery (0.4 mt), EFP catch (less than 0.1 mt) and research catch (3.27 mt) resulting in a fishery HG of 14 mt. Recreational HGs are: 3.3 mt (Washington); 3 mt (Oregon); and 3.9 mt (California).

^h Arrowtooth flounder. The arrowtooth flounder stock was last assessed in 2007 and was estimated to be at 79 percent of its unfished biomass in 2007. The OFL of 16,498 mt is derived from a catch-only update of the 2007 assessment assuming actual catches since 2007 and using an $F_{30\%}$ F_{MSY} proxy. The ABC of 13,743 mt is a 16.7 percent reduction from the OFL ($\sigma = 0.72 / P^* = 0.40$) as it is a category 2 stock. The ACL is set equal to the ABC because the stock is above its target biomass of $B_{25\%}$. 2,098.1 mt is deducted from the ACL to accommodate the Tribal fishery (2,041 mt), the incidental open access fishery (40.8 mt), and research catch (16.4 mt), resulting in a fishery HG of 11,644.9 mt.

ⁱ Big skate. The OFL of 541 mt is based on an estimate of trawl survey biomass and natural mortality. The ABC of 494 mt is a 8.7

percent reduction from the OFL ($\sigma = 0.72 / P^* = 0.45$) as it is a category 2 stock. The ACL is set equal to the ABC. 57.4 mt is deducted from the ACL to accommodate the Tribal fishery (15 mt), the incidental open access fishery (38.4 mt), and research catch (4 mt), resulting in a fishery HG of 436.6 mt.

^j Black rockfish (California). A 2015 stock assessment estimated the stock to be at 33 percent of its unfished biomass in 2015. The OFL of 347 mt is projected in the 2015 stock assessment using an F_{MSY} proxy of $F_{50\%}$. The ABC of 332 mt is a 4.4 percent reduction from the OFL ($\sigma = 0.36 / P^* = 0.45$) because it is a category 1 stock. The ACL is set equal to the ABC because the stock is projected to be above its target biomass of $B_{40\%}$ in 2018. 1 mt is deducted from the ACL for EFP catch, resulting in a fishery HG of 331 mt.

^k Black rockfish (Oregon). A 2015 stock assessment estimated the stock to be at 60 percent of its unfished biomass in 2015. The OFL of 570 mt is projected in the 2015 stock assessment using an F_{MSY} proxy of $F_{50\%}$. The ABC of 520 mt is an 8.7 percent reduction from the OFL ($\sigma = 0.72 / P^* = 0.45$) because it is a category 2 stock. The ACL is set equal to the ABC because the stock is above its target biomass of $B_{40\%}$. 0.6 mt is deducted from the ACL to accommodate the incidental open access fishery, resulting in a fishery HG of 519.4 mt.

^l Black rockfish (Washington). A 2015 stock assessment estimated the stock to be at 43 percent of its unfished biomass in 2015. The OFL of 315 mt is projected in the 2015 stock assessment using an F_{MSY} proxy of $F_{50\%}$. The ABC of 301 mt is a 4.4 percent reduction from the OFL ($\sigma = 0.36 / P^* = 0.45$) because it is a category 1 stock. The ACL is set equal to the ABC because the stock is above its target biomass of $B_{40\%}$. 18 mt is deducted from the ACL to accommodate the Tribal fishery, resulting in a fishery HG of 283 mt.

^m Blackgill rockfish. Blackgill rockfish contributes to the harvest specifications for the Minor Slope Rockfish South complex. See footnote pp.

ⁿ Cabezon (California). A cabezon stock assessment was conducted in 2009. The cabezon spawning biomass in waters off California was estimated to be at 48.3 percent of its unfished biomass in 2009. The OFL of 156 mt is calculated using an F_{MSY} proxy of $F_{50\%}$. The ABC of 149 mt is based on a 4.4 percent reduction from the OFL ($\sigma = 0.36 / P^* = 0.45$) because it is a category 1 stock. The ACL is set equal to the ABC because the stock is above its target biomass of $B_{40\%}$. 0.3 mt is deducted from the ACL to accommodate the incidental open access fishery (0.3 mt), resulting in a fishery HG of 148.7 mt.

^o Cabezon (Oregon). A cabezon stock assessment was conducted in 2009. The cabezon spawning biomass in waters off Oregon was estimated to be at 52 percent of its unfished biomass in 2009. The OFL of 49 mt is calculated using an F_{MSY} proxy of $F_{45\%}$. The ABC of 47 mt is based on a 4.4 percent reduction from the OFL ($\sigma = 0.36 / P^* = 0.45$) because it is a category 1 species. The ACL is set equal to the ABC because the stock is above its target biomass of $B_{40\%}$. There are no deductions from the ACL so the fishery HG is also equal to the ACL of 47 mt.

^p California scorpionfish. A California scorpionfish assessment was conducted in 2005 and was estimated to be at 79.8 percent of its unfished biomass in 2005. The OFL of 278 mt is based on projections from a catch-only update of the 2005 assessment assuming actual catches since 2005 and using an F_{MSY} harvest rate proxy of $F_{50\%}$. The ABC of 254 mt is an 8.7 percent reduction from the OFL ($\sigma = 0.72 / P^* = 0.45$) because it is a category 2 stock. The ACL is set at a constant catch amount of 150 mt. 2.2 mt is deducted from the ACL to accommodate the incidental open access fishery (2 mt) and research catch (0.2 mt), resulting in a fishery HG of 147.8 mt. An ACT of 111 mt is established.

^q Canary rockfish. A stock assessment was conducted in 2015 and the stock was estimated to be at 55.5 percent of its unfished biomass coastwide in 2015. The coastwide OFL of 1,596 mt is projected in the 2015 assessment using an F_{MSY} harvest rate proxy of $F_{50\%}$. The ABC of 1,526 mt is a 4.4 percent reduction from the OFL ($\sigma = 0.36 / P^* = 0.45$) as it is a category 1 stock. The ACL is set equal to the ABC because the stock is above its target biomass of $B_{40\%}$. 59.4 mt is deducted from the ACL to accommodate the Tribal fishery (50 mt), the incidental open access fishery (1.2 mt), EFP catch (1 mt) and research catch (7.2 mt) resulting in a fishery HG of 1,466.6 mt. Recreational HGs are: 50 mt (Washington); 75 mt (Oregon); and 135 mt (California).

^r Chilipepper. A coastwide update assessment of the chilipepper stock was conducted in 2015 and estimated to be at 64 percent of its unfished biomass in 2015. Chilipepper are managed with stock-specific harvest specifications south of 40°10' N. lat. and within the Minor Shelf Rockfish complex north of 40°10' N. lat. Projected OFLs are stratified north and south of 40°10' N. lat. based on the average historical assessed area catch, which is 93 percent for the area south of 40°10' N. lat. and 7 percent for the area north of 40°10' N. lat. The OFL of 2,623 mt for the area south of 40°10' N. lat. is projected in the 2015 assessment using an F_{MSY} proxy of $F_{50\%}$. The ABC of 2,507 mt is a 4.4 percent reduction from the OFL ($\sigma = 0.36 / P^* = 0.45$) because it is a category 1 stock. The ACL is set equal to the ABC because the stock is above its target biomass of $B_{40\%}$. 45.9 mt is deducted from the ACL to accommodate the incidental open access fishery (5 mt), EFP fishing (30 mt), and research catch (10.9 mt), resulting in a fishery HG of 2,461.1 mt.

^s Dover sole. A 2011 Dover sole assessment estimated the stock to be at 83.7 percent of its unfished biomass in 2011. The OFL of 90,282 mt is based on an updated catch-only projection from the 2011 stock assessment assuming actual catches since 2011 and using an F_{MSY} proxy of $F_{30\%}$. The ABC of 86,310 mt is a 4.4 percent reduction from the OFL ($\sigma = 0.36 / P^* = 0.45$) because it is a category 1 stock. The ACL could be set equal to the ABC because the stock is above its target biomass of $B_{25\%}$. However, the ACL of 50,000 mt is set at a level below the ABC and higher than the maximum historical landed catch. 1,593.7 mt is deducted from the ACL to accommodate the Tribal fishery (1,497 mt), the incidental open access fishery (54.8 mt),

and research catch (41.9 mt), resulting in a fishery HG of 48,406.3 mt.

^t English sole. A 2013 stock assessment was conducted, which estimated the stock to be at 88 percent of its unfished biomass in 2013. The OFL of 8,255 mt is projected in the 2013 assessment using an F_{MSY} proxy of $F_{30\%}$. The ABC of 7,537 mt is an 8.7 percent reduction from the OFL ($\sigma = 0.72 / P^* = 0.45$) because it is a category 2 stock. The ACL is set equal to the ABC because the stock is above its target biomass of $B_{25\%}$. 212.8 mt is deducted from the ACL to accommodate the Tribal fishery (200 mt), the incidental open access fishery (7 mt) and research catch (5.8 mt), resulting in a fishery HG of 7,324.2 mt.

^u Lingcod north. The 2009 lingcod assessment modeled two populations north and south of the California-Oregon border (42° N. lat.). Both populations were healthy with stock depletion estimated at 62 and 74 percent for the north and south, respectively in 2009. The OFL is based on an updated catch-only projection from the 2009 assessment assuming actual catches since 2009 and using an F_{MSY} proxy of $F_{45\%}$. The OFL is apportioned by adding 48% of the OFL from California, resulting in an OFL of 3,310 mt for the area north of 40°10' N. lat. The ABC of 3,110 mt is based on a 4.4 percent reduction ($\sigma = 0.36 / P^* = 0.45$) from the OFL contribution for the area north of 42° N. lat. because it is a category 1 stock, and an 8.7 percent reduction ($\sigma = 0.72 / P^* = 0.45$) from the OFL contribution for the area between 42° N. lat. and 40°10' N. lat. because it is a category 2 stock. The ACL is set equal to the ABC because the stock is above its target biomass of $B_{40\%}$. 278.2 mt is deducted from the ACL for the Tribal fishery (250 mt), the incidental open access fishery (16 mt), EFP catch (0.5 mt) and research catch (11.7 mt), resulting in a fishery HG of 2,831.8 mt.

^v Lingcod south. The 2009 lingcod assessment modeled two populations north and south of the California-Oregon border (42° N. lat.). Both populations were healthy with stock depletion estimated at 62 and 74 percent for the north and south, respectively in 2009. The OFL is based on an updated catch-only projection of the 2009 stock assessment assuming actual catches since 2009 and using an F_{MSY} proxy of $F_{45\%}$. The OFL is apportioned by subtracting 48% of the California OFL, resulting in an OFL of 1,373 mt for the area south of 40°10' N. lat. The ABC of 1,144 mt is based on a 16.7 percent reduction from the OFL ($\sigma = 0.72 / P^* = 0.40$) because it is a category 2 stock. The ACL is set equal to the ABC because the stock is above its target biomass of $B_{40\%}$. 9 mt is deducted from the ACL to accommodate the incidental open access fishery (6.9 mt), EFP fishing (1 mt), and research catch (1.1 mt), resulting in a fishery HG of 1,135 mt.

^w Longnose skate. A stock assessment was conducted in 2007 and the stock was estimated to be at 66 percent of its unfished biomass. The OFL of 2,526 mt is derived from the 2007 stock assessment using an F_{MSY} proxy of $F_{50\%}$. The ABC of 2,415 mt is a 4.4 percent reduction from the OFL ($\sigma = 0.36 / P^* = 0.45$) because it is a category 1 stock. The ACL of 2,000 mt is a fixed harvest level that provides greater access to the stock and is less than the ABC. 147 mt is deducted

from the ACL to accommodate the Tribal fishery (130 mt), incidental open access fishery (3.8 mt), and research catch (13.2 mt), resulting in a fishery HG of 1,853 mt.

^x Longspine thornyhead. A 2013 longspine thornyhead coastwide stock assessment estimated the stock to be at 75 percent of its unfished biomass in 2013. A coastwide OFL of 4,339 mt is projected in the 2013 stock assessment using an $F_{50\%}$ F_{MSY} proxy. The coastwide ABC of 3,614 mt is a 16.7 percent reduction from the OFL ($\sigma = 0.72 / P^* = 0.40$) because it is a category 2 stock. For the portion of the stock that is north of 34°27' N. lat., the ACL is 2,747 mt, and is 76 percent of the coastwide ABC based on the average swept-area biomass estimates (2003–2012) from the NMFS NWFS trawl survey. 46.8 mt is deducted from the ACL to accommodate the Tribal fishery (30 mt), the incidental open access fishery (3.3 mt), and research catch (13.5 mt), resulting in a fishery HG of 2,700.2 mt. For that portion of the stock south of 34°27' N. lat. the ACL is 867 mt and is 24 percent of the coastwide ABC based on the average swept-area biomass estimates (2003–2012) from the NMFS NWFS trawl survey. 3.2 mt is deducted from the ACL to accommodate the incidental open access fishery (1.8 mt), and research catch (1.4 mt), resulting in a fishery HG of 863.8 mt.

^y Pacific cod. The 3,200 mt OFL is based on the maximum level of historic landings. The ABC of 2,221 mt is a 30.6 percent reduction from the OFL ($\sigma = 1.44 / P^* = 0.40$) as it is a category 3 stock. The 1,600 mt ACL is the OFL reduced by 50 percent as a precautionary adjustment. 509 mt is deducted from the ACL to accommodate the Tribal fishery (500 mt), research catch (7 mt), and the incidental open access fishery (2 mt), resulting in a fishery HG of 1,091 mt.

^z Pacific whiting. Pacific whiting, Pacific whiting are assessed annually. The final specifications will be determined consistent with the U.S.-Canada Pacific Whiting Agreement and will be announced after the Council's April 2018 meeting.

^{aa} Petrale sole. A 2015 stock assessment update was conducted, which estimated the stock to be at 31 percent of its unfished biomass in 2015. The OFL of 3,152 mt is projected in the 2015 assessment using an F_{MSY} proxy of $F_{30\%}$. The ABC of 3,013 mt is a 4.4 percent reduction from the OFL ($\sigma = 0.36 / P^* = 0.45$) because it is a category 1 stock. The ACL is set equal to the ABC because the stock is above its target biomass of $B_{25\%}$. 240.9 mt is deducted from the ACL to accommodate the Tribal fishery (220 mt), the incidental open access fishery (3.2 mt) and research catch (17.7 mt), resulting in a fishery HG of 2,772.1 mt.

^{bb} Sablefish north. A coastwide sablefish stock assessment update was conducted in 2015. The coastwide sablefish biomass was estimated to be at 33 percent of its unfished biomass in 2015. The coastwide OFL of 8,329 mt is projected in the 2015 stock assessment using an F_{MSY} proxy of $F_{45\%}$. The ABC of 7,604 mt is an 8.7 percent reduction from the OFL ($\sigma = 0.36 / P^* = 0.40$). The 40–10 adjustment is applied to the ABC to derive a coastwide ACL value because the stock is in the precautionary zone. This coastwide

ACL value is not specified in regulations. The coastwide ACL value is apportioned north and south of 36° N. lat., using the 2003–2014 average estimated swept area biomass from the NMFS NWFSC trawl survey, with 73.8 percent apportioned north of 36° N. lat. and 26.2 percent apportioned south of 36° N. lat. The northern ACL is 5,475 mt and is reduced by 548 mt for the Tribal allocation (10 percent of the ACL north of 36° N. lat.). The 548 mt Tribal allocation is reduced by 1.5 percent to account for discard mortality. Detailed sablefish allocations are shown in Table 2c.

^{cc} Sablefish south. The ACL for the area south of 36° N. lat. is 1,944 mt (26.2 percent of the calculated coastwide ACL value). 5 mt is deducted from the ACL to accommodate the incidental open access fishery (2 mt) and research catch (3 mt), resulting in a fishery HG of 1,939 mt.

^{dd} Shortbelly rockfish. A non-quantitative shortbelly rockfish assessment was conducted in 2007. The spawning stock biomass of shortbelly rockfish was estimated to be 67 percent of its unfished biomass in 2005. The OFL of 6,950 mt is based on the estimated MSY in the 2007 stock assessment. The ABC of 5,789 mt is a 16.7 percent reduction of the OFL ($\sigma = 0.72 / P^* = 0.40$) because it is a category 2 stock. The 500 mt ACL is set to accommodate incidental catch when fishing for co-occurring healthy stocks and in recognition of the stock's importance as a forage species in the California Current ecosystem. 10.9 mt is deducted from the ACL to accommodate the incidental open access fishery (8.9 mt) and research catch (2 mt), resulting in a fishery HG of 489.1 mt.

^{ee} Shortspine thornyhead. A 2013 coastwide shortspine thornyhead stock assessment estimated the stock to be at 74.2 percent of its unfished biomass in 2013. A coastwide OFL of 3,116 mt is projected in the 2013 stock assessment using an $F_{50\%}$ F_{MSY} proxy. The coastwide ABC of 2,596 mt is a 16.7 percent reduction from the OFL ($\sigma = 0.72 / P^* = 0.40$) because it is a category 2 stock. For the portion of the stock that is north of 34°27' N. lat., the ACL is 1,698 mt. The northern ACL is 65.4 percent of the coastwide ABC based on the average swept-area biomass estimates (2003–2012) from the NMFS NWFSC trawl survey. 59 mt is deducted from the ACL to accommodate the Tribal fishery (50 mt), the incidental open access fishery (1.8 mt), and research catch (7.2 mt), resulting in a fishery HG of 1,639 mt for the area north of 34°27' N. lat. For that portion of the stock south of 34°27' N. lat. the ACL is 898 mt. The southern ACL is 34.6 percent of the coastwide ABC based on the average swept-area biomass estimates (2003–2012) from the NMFS NWFSC trawl survey. 42.3 mt is deducted from the ACL to accommodate the incidental open access fishery (41.3 mt) and research catch (1 mt), resulting in a fishery HG of 855.7 mt for the area south of 34°27' N. lat.

^{ff} Spiny dogfish. A coastwide spiny dogfish stock assessment was conducted in 2011. The coastwide spiny dogfish biomass was estimated to be at 63 percent of its unfished biomass in 2011. The coastwide OFL of 2,500 mt is derived from the 2011 assessment using an F_{MSY} proxy of $F_{50\%}$. The coastwide ABC

of 2,083 mt is a 16.7 percent reduction from the OFL ($\sigma = 0.72 / P^* = 0.40$) because it is a category 2 stock. The ACL is set equal to the ABC because the stock is above its target biomass of $B_{40\%}$. 338 mt is deducted from the ACL to accommodate the Tribal fishery (275 mt), the incidental open access fishery (49.5 mt), EFP catch (1 mt), and research catch (12.5 mt), resulting in a fishery HG of 1,745 mt.

^{gg} Splitnose rockfish. A coastwide splitnose rockfish assessment was conducted in 2009 that estimated the stock to be at 66 percent of its unfished biomass in 2009. Splitnose rockfish in the north is managed in the Minor Slope Rockfish complex and with stock-specific harvest specifications south of 40°10' N. lat. The coastwide OFL is projected in the 2009 assessment using an F_{MSY} proxy of $F_{50\%}$. The coastwide OFL is apportioned north and south of 40°10' N. lat. based on the average 1916–2008 assessed area catch resulting in 64.2 percent of the coastwide OFL apportioned south of 40°10' N. lat., and 35.8 percent apportioned for the contribution of splitnose rockfish to the northern Minor Slope Rockfish complex. The southern OFL of 1,842 mt results from the apportionment described above. The southern ABC of 1,761 mt is a 4.4 percent reduction from the southern OFL ($\sigma = 0.36 / P^* = 0.45$) because it is a category 1 stock. The ACL is set equal to the ABC because the stock is estimated to be above its target biomass of $B_{40\%}$. 10.7 mt is deducted from the ACL to accommodate the incidental open access fishery (0.2 mt), research catch (9 mt) and EFP catch (1.5 mt), resulting in a fishery HG of 1,750.3 mt.

^{hh} Starry flounder. The stock was assessed in 2005 and was estimated to be above 40 percent of its unfished biomass in 2005 (44 percent in Washington and Oregon, and 62 percent in California). The coastwide OFL of 1,847 mt is set equal to the 2016 OFL, which was derived from the 2005 assessment using an F_{MSY} proxy of $F_{30\%}$. The ABC of 1,282 mt is a 30.6 percent reduction from the OFL ($\sigma = 1.44 / P^* = 0.40$) because it is a category 3 stock. The ACL is set equal to the ABC because the stock was estimated to be above its target biomass of $B_{25\%}$ in 2018. 10.3 mt is deducted from the ACL to accommodate the Tribal fishery (2 mt), and the incidental open access fishery (8.3 mt), resulting in a fishery HG of 1,271.7 mt.

ⁱⁱ Widow rockfish. The widow rockfish stock was assessed in 2015 and was estimated to be at 75 percent of its unfished biomass in 2015. The OFL of 13,237 mt is projected in the 2015 stock assessment using the $F_{50\%}$ F_{MSY} proxy. The ABC of 12,655 mt is a 4.4 percent reduction from the OFL ($\sigma = 0.36 / P^* = 0.45$) because it is a category 1 stock. The ACL is set equal to the ABC because the stock is above its target biomass of $B_{40\%}$. 217.7 mt is deducted from the ACL to accommodate the Tribal fishery (200 mt), the incidental open access fishery (0.5 mt), EFP catch (9 mt) and research catch (8.2 mt), resulting in a fishery HG of 12,437.3 mt.

^{jj} Yellowtail rockfish. A 2013 yellowtail rockfish stock assessment was conducted for the portion of the population north of 40°10' N. lat. The estimated stock depletion is 67 percent of its unfished biomass in 2013. The OFL of 6,574 mt is projected in the 2013

stock assessment using an F_{MSY} proxy of $F_{50\%}$. The ABC of 6,002 mt is an 8.7 percent reduction from the OFL ($\sigma = 0.72 / P^* = 0.45$) because it is a category 2 stock. The ACL is set equal to the ABC because the stock is above its target biomass of $B_{40\%}$. 1,030 mt is deducted from the ACL to accommodate the Tribal fishery (1,000 mt), the incidental open access fishery (3.4 mt), EFP catch (10 mt) and research catch (16.6 mt), resulting in a fishery HG of 4,972.1 mt.

^{kk} Minor Nearshore Rockfish north. The OFL for Minor Nearshore Rockfish north of 40°10' N. lat. of 119 mt is the sum of the OFL contributions for the component species managed in the complex. The ABCs for the minor rockfish complexes are based on a sigma value of 0.72 for category 2 stocks (blue/deacon rockfish in California, brown rockfish, China rockfish, and copper rockfish) and a sigma value of 1.44 for category 3 stocks (all others) with a P^* of 0.45. The resulting ABC of 105 mt is the summed contribution of the ABCs for the component species. The ACL of 105 mt is the sum of contributing ABCs. 1.8 mt is deducted from the ACL to accommodate the Tribal fishery (1.5 mt), and the incidental open access fishery (0.3 mt), resulting in a fishery HG of 103.2 mt. Between 40°10' N. lat. and 42° N. lat. the Minor Nearshore Rockfish complex north has a harvest guideline of 40.2 mt. Blue/deacon rockfish south of 42° N. lat. has a species-specific HG, described in footnote pp.

^{ll} Minor Shelf Rockfish north. The OFL for Minor Shelf Rockfish north of 40°10' N. lat. of 2,302 mt is the sum of the OFL contributions for the component species within the complex. The ABCs for the minor rockfish complexes are based on a sigma value of 0.36 for a category 1 stock (chilipepper), a sigma value of 0.72 for category 2 stocks (greenspotted rockfish between 40°10' and 42° N. lat. and greenstriped rockfish) and a sigma value of 1.44 for category 3 stocks (all others) with a P^* of 0.45. The resulting ABC of 2,048 mt is the summed contribution of the ABCs for the component species. The ACL of 2,047 mt is the sum of contributing ABCs of healthy assessed stocks and unassessed stocks, plus the ACL contribution of greenspotted rockfish in California where the 40–10 adjustment was applied to the ABC contribution for this stock because it is in the precautionary zone. 83.8 mt is deducted from the ACL to accommodate the Tribal fishery (30 mt), the incidental open access fishery (26 mt), EFP catch (3 mt), and research catch (24.8 mt), resulting in a fishery HG of 1,963.2 mt.

^{mmm} Minor Slope Rockfish north. The OFL for Minor Slope Rockfish north of 40°10' N. lat. of 1,896 mt is the sum of the OFL contributions for the component species within the complex. The ABCs for the Minor Slope Rockfish complexes are based on a sigma value of 0.39 for aurora rockfish, a sigma value of 0.36 for the other category 1 stock (splitnose rockfish), a sigma value of 0.72 for category 2 stocks (rougeye rockfish, blackspotted rockfish, and sharpchin rockfish), and a sigma value of 1.44 for category 3 stocks (all others) with a P^* of 0.45. A unique sigma of 0.39 was calculated

for aurora rockfish because the variance in estimated spawning biomass was greater than the 0.36 used as a proxy for other category 1 stocks. The resulting ABC of 1,754 mt is the summed contribution of the ABCs for the component species. The ACL is set equal to the ABC because all the assessed component stocks (rougeye rockfish, blackspotted rockfish, sharpchin rockfish, and splitnose rockfish) are above the target biomass of $B_{40\%}$. 65.1 mt is deducted from the ACL to accommodate the Tribal fishery (36 mt), the incidental open access fishery (18.6 mt), EFP catch (1 mt), and research catch (9.5 mt), resulting in a fishery HG of 1,688.9 mt.

ⁿⁿ Minor Nearshore Rockfish south. The OFL for the Minor Nearshore Rockfish complex south of 40°10' N. lat. of 1,344 mt is the sum of the OFL contributions for the component species within the complex. The ABC for the southern Minor Nearshore Rockfish complex is based on a sigma value of 0.72 for category 2 stocks (blue/deacon rockfish north of 34°27' N. lat., brown rockfish, China rockfish, and copper rockfish) and a sigma value of 1.44 for category 3 stocks (all others) with a P^* of 0.45. The resulting ABC of 1,180 mt is the summed contribution of the ABCs for the component species. The ACL of 1,179 mt is the sum of the contributing ABCs of healthy assessed stocks and unassessed stocks, plus the ACL contribution for China rockfish where the 40–10 adjustment was applied to the ABC contribution for this stock because it is in the precautionary zone. 4.1 mt is deducted from the ACL to accommodate the incidental open access fishery (1.4 mt) and research catch (2.7 mt), resulting in a fishery HG of 1,174.9 mt. Blue/deacon rockfish south of 42° N. lat. has a species-specific HG set equal to the 40–10-adjusted ACL for the portion of the stock north of 34°27' N. lat. (250.3 mt) plus the ABC contribution for the unassessed portion of the stock south of 34°27' N. lat. (60.8 mt). The California (*i.e.*, south of 42° N. lat.) blue/deacon rockfish HG is 311.1 mt.

^{oo} Minor Shelf Rockfish south. The OFL for the Minor Shelf Rockfish complex south of 40°10' N. lat. of 1,918 mt is the sum of the OFL contributions for the component species within the complex. The ABC for the

southern Minor Shelf Rockfish complex is based on a sigma value of 0.72 for category 2 stocks (*i.e.*, greenspotted and greenstriped rockfish) and a sigma value of 1.44 for category 3 stocks (all others) with a P^* of 0.45. The resulting ABC of 1,625 mt is the summed contribution of the ABCs for the component species. The ACL of 1,624 mt is the sum of contributing ABCs of healthy assessed stocks and unassessed stocks, plus the ACL contribution of greenspotted rockfish in California where the 40–10 adjustment was applied to the ABC contribution for this stock because it is in the precautionary zone. 47.2 mt is deducted from the ACL to accommodate the incidental open access fishery (8.6 mt), EFP catch (30 mt), and research catch (8.6 mt), resulting in a fishery HG of 1,576.8 mt.

^{pp} Minor Slope Rockfish south. The OFL of 829 mt is the sum of the OFL contributions for the component species within the complex. The ABC for the southern Minor Slope Rockfish complex is based on a sigma value of 0.39 for aurora rockfish, a sigma value of 0.72 for category 2 stocks (blackgill rockfish, rougeye rockfish, blackspotted rockfish, and sharpchin rockfish) and a sigma value of 1.44 for category 3 stocks (all others) with a P^* of 0.45. A unique sigma of 0.39 was calculated for aurora rockfish because the variance in estimated biomass was greater than the 0.36 used as a proxy for other category 1 stocks. The resulting ABC of 719 mt is the summed contribution of the ABCs for the component species. The ACL of 709 mt is the sum of the contributing ABCs of healthy assessed stocks and unassessed stocks, plus the ACL contribution of blackgill rockfish where the 40–10 adjustment was applied to the ABC contribution for this stock because it is in the precautionary zone. 20.2 mt is deducted from the ACL to accommodate the incidental open access fishery (17.2 mt), EFP catch (1 mt), and research catch (2 mt), resulting in a fishery HG of 688.8 mt. Blackgill rockfish has a stock-specific HG for the entire groundfish fishery south of 40°10' N. lat. set equal to the species' contribution to the 40–10-adjusted ACL. Harvest of blackgill rockfish in all groundfish fisheries counts against this HG of

122.4 mt. Nontrawl fisheries are subject to a blackgill rockfish HG of 45.3 mt.

^{qq} Other Flatfish. The Other Flatfish complex is comprised of flatfish species managed in the PCGFMP that are not managed with species-specific OFLs/ABCs/ACLs. Most of the species in the Other Flatfish complex are unassessed and include: Butter sole, curlfin sole, flathead sole, Pacific sanddab, rock sole, sand sole, and rex sole. The Other Flatfish OFL of 9,690 mt is based on the sum of the OFL contributions of the component stocks. The ABC of 7,281 mt is based on a sigma value of 0.72 for a category 2 stock (rex sole) and a sigma value of 1.44 for category 3 stocks (all others) with a P^* of 0.40. The ACL is set equal to the ABC. The ACL is set equal to the ABC because all of the assessed stocks (*i.e.*, Pacific sanddabs and rex sole) were above their target biomass of $B_{25\%}$. 204 mt is deducted from the ACL to accommodate the Tribal fishery (60 mt), the incidental open access fishery (125 mt), and research catch (19 mt), resulting in a fishery HG of 7,077 mt.

^{rr} Other Fish. The Other Fish complex is comprised of kelp greenling coastwide, cabezon off Washington, and leopard shark coastwide. The 2015 assessment for the kelp greenling stock off of Oregon projected an estimated depletion of 80 percent. All other stocks are unassessed. The OFL of 501 mt is the sum of the OFL contributions for kelp greenling coastwide, cabezon off Washington, and leopard shark coastwide. The ABC for the Other Fish complex is based on a sigma value of 0.44 for kelp greenling off Oregon and a sigma value of 1.44 for category 3 stocks (all others) with a P^* of 0.45. A unique sigma of 0.44 was calculated for kelp greenling off Oregon because the variance in estimated spawning biomass was greater than the 0.36 sigma used as a proxy for other category 1 stocks. The resulting ABC of 441 mt is the summed contribution of the ABCs for the component species. The ACL is set equal to the ABC because all of the assessed stocks (kelp greenling off Oregon) were above their target biomass of $B_{40\%}$. There are no deductions from the ACL so the fishery HG is equal to the ACL of 441 mt.

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Table 2b. to Part 660, Subpart C – 2018, and Beyond, Allocations by Species or Species Group (Weight in Metric Tons)

Species	Area	Fishery HG or ACT	Trawl		Non-trawl	
			Percent	Mt	Percent	Mt
BOCACCIO a/	S. of 40°10' N. lat.	725.6	39	283.3	61	442.3
COWCOD a/b/	S. of 40°10' N. lat.	4.0	36	1.4	64	2.6
DARKBLOTCHED ROCKFISH c/	Coastwide	575.8	95	547.0	5	28.8
PACIFIC OCEAN PERCH d/	N. of 40°10' N. lat.	231.6	95	220.0	5	11.6
YELLOWEYE ROCKFISH a/	Coastwide	14.0	NA	1.1	NA	12.9
Arrowtooth flounder	Coastwide	11,644.9	95	11,062.6	5	582.2
Big skate a/	Coastwide	436.6	95	414.8	5	21.8
Canary rockfish a/e/	Coastwide	1,466.6	NA	1,060.1	NA	406.5
Chilipepper	S. of 40°10' N. lat.	2,461.1	75	1,845.8	25	615.3
Dover sole	Coastwide	48,406.3	95	45,986.0	5	2,420.3
English sole	Coastwide	7,324.2	95	6,958.0	5	366.2
Lingcod	N. of 40°10' N. lat.	2,831.8	45	1,274.3	55	1,557.5
Lingcod	S. of 40°10' N. lat.	1,135.0	45	510.8	55	624.3
Longnose skate a/	Coastwide	1,853.0	90	1,667.7	10	185.3
Longspine thornyhead	N. of 34°27' N. lat.	2,700.2	95	2,565.2	5	135.0
Pacific cod	Coastwide	1,091.0	95	1,036.4	5	54.5
Pacific whiting	Coastwide	TBD	100	TBD	0	TBD
Petrale sole	Coastwide	2,772.1	95	2,633.5	5	138.6
Sablefish	N. of 36° N. lat.	N/A	See Table 2c			
Sablefish	S. of 36° N. lat.	1,939.0	42	814.4	58	1,124.6
Shortspine thornyhead	N. of 34°27' N. lat.	1,639.0	95	1,557.0	5	81.9
Shortspine thornyhead	S. of 34°27' N. lat.	855.7	NA	50.0	NA	805.7
Splitnose rockfish	S. of 40°10' N. lat.	1,750.3	95	1,662.8	5	87.5
Stary flounder	Coastwide	1,271.7	50	635.9	50	635.9
Widow rockfish f/	Coastwide	12,437.3	91	11,317.9	9	1,119.4
Yellowtail rockfish	N. of 40°10' N. lat.	4,972.1	88	4,375.4	12	596.6
Minor Shelf Rockfish a/	N. of 40°10' N. lat.	1,963.2	60	1,181.8	40	781.4
Minor Slope Rockfish	N. of 40°10' N. lat.	1,688.9	81	1,368.0	19	320.9
Minor Shelf Rockfish a/	S. of 40°10' N. lat.	1,576.8	12	192.37	88	1,384.4
Minor Slope Rockfish	S. of 40°10' N. lat.	688.8	63	433.9	37	254.9
Other Flatfish	Coastwide	7,077.0	90	6,369.3	10	707.7

a/ Allocations decided through the biennial specification process.

b/ The cowcod fishery harvest guideline is further reduced to an ACT of 4.0 mt.

c/ Consistent with regulations at §660.55(c), 9 percent (49.2 mt) of the total trawl allocation for darkblotched rockfish is allocated to the Pacific whiting fishery, as follows: 20.7 mt for the Shorebased IFQ Program, 11.8 mt for the MS sector, and 16.7 mt for the C/P sector. The tonnage calculated here for the Pacific whiting IFQ fishery contributes to the total shorebased trawl allocation, which is found at §660.140(d)(1)(ii)(D).

d/ Consistent with regulations at §660.55(c), 17 percent (37.4 mt) of the total trawl allocation for POP is allocated to the Pacific whiting fishery, as follows: 15.7 mt for the Shorebased IFQ Program, 9.0 mt for the MS sector, and 12.7 mt for the C/P sector. The tonnage calculated here for the Pacific whiting IFQ fishery contributes to the total shorebased trawl allocation, which is found at §660.140(d)(1)(ii)(D).

e/ Canary rockfish is allocated approximately 72 percent to trawl and 28 percent to non-trawl. 46 mt of the total trawl allocation of canary rockfish is allocated to the MS and C/P sectors, as follows: 30 mt for the MS sector, and 16 mt for the C/P sector.

f/ Consistent with regulations at §660.55(c), 10 percent (1,131.8 mt) of the total trawl allocation for widow rockfish is allocated to the Pacific whiting fishery, as follows: 475.4 mt for the Shorebased IFQ Program, 271.6 mt for the MS sector, and 384.8 mt for the C/P sector. The tonnage calculated here for the Pacific whiting IFQ fishery contributes to the total shorebased trawl allocation, which is found at §660.140(d)(1)(ii)(D).

Table 2c. to Part 660, Subpart C – Sablefish North of 36° N. lat. Allocations, 2018 and Beyond

Year	ACL	Set-asides		Recreational	EFP	Commercial HG	Limited Entry HG		Open Access HG	
		Tribal a/	Research	Estimate			Percent	mt	Percent	mt b/
2018	5,475	548	26	6.1	1	4,894	90.6	4,434	9.4	460
Year	LE All	Limited Entry Trawl c/				Limited Entry Fixed Gear d/				
		All Trawl	At-sea Whiting	Shorebased IFQ		All FG	Primary		DTL	
2018	4,434	2,572	50	2,522		1,862	1,583		279	
a/ The tribal allocation is further reduced by 1.5 percent for discard mortality resulting in 539 mt in 2018.										
b/ The open access HG is taken by the incidental OA fishery and the directed OA fishery.										
c/ The trawl allocation is 58 percent of the limited entry HG										
d/ The limited entry fixed gear allocation is 42 percent of the limited entry HG										

Table 2d. to Part 660, Subpart C – At-Sea Whiting Fishery Annual Set-Asides, 2018 and Beyond

Species or Species Complex	Area	Set Aside (mt)
BOCACCIO	S. of 40°10 N. lat.	NA
COWCOD	S. of 40°10 N. lat.	NA
DARKBLOTCHED ROCKFISH a/	Coastwide	Allocation
PACIFIC OCEAN PERCH a/	N. of 40°10 N. lat.	Allocation
YELLOWEYE ROCKFISH	Coastwide	0
Arrowtooth flounder	Coastwide	70
Canary rockfish a/	Coastwide	Allocation
Chilipepper	S. of 40°10 N. lat.	NA
Dover sole	Coastwide	5
English sole	Coastwide	5
Lingcod	N. of 40°10 N. lat.	15
Lingcod	S. of 40°10 N. lat.	NA
Longnose skate	Coastwide	5
Longspine thornyhead	N. of 34°27 N. lat.	5
Longspine thornyhead	S. of 34°27 N. lat.	NA
Minor Nearshore Rockfish	N. of 40°10 N. lat.	NA
Minor Nearshore Rockfish	S. of 40°10 N. lat.	NA
Minor Shelf Rockfish	N. of 40°10 N. lat.	35
Minor Shelf Rockfish	S. of 40°10 N. lat.	NA
Minor Slope Rockfish	N. of 40°10 N. lat.	100
Minor Slope Rockfish	S. of 40°10 N. lat.	NA
Other Fish	Coastwide	NA
Other Flatfish	Coastwide	20
Pacific cod	Coastwide	5
Pacific Halibut b/	Coastwide	10
Pacific Whiting	Coastwide	Allocation
Petrale sole	Coastwide	5
Sablefish	N. of 36° N. lat.	50
Sablefish	S. of 36° N. lat.	NA
Shortspine thornyhead	N. of 34°27 N. lat.	20
Shortspine thornyhead	S. of 34°27 N. lat.	NA
Starry flounder	Coastwide	5
Widow Rockfish a/	Coastwide	Allocation
Yellowtail rockfish	N. of 40°10 N. lat.	300

a/ See Table 1.b., to Subpart C, for the at-sea whiting allocations for these species.

b/ As stated in §660.55 (m), the Pacific halibut set-aside is 10 mt, to accommodate bycatch in the at-sea Pacific whiting fisheries and in the shorebased trawl sector south of 40°10 N. lat. (estimated to be approximately 5 mt each).

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■ 13. In § 660.130, paragraph (d)(1)(i) is revised to read as follows:

§ 660.130 Trawl fishery-management measures.

* * * * *

(d) * * *

(1) * * *

(i) *Coastwide*. Widow rockfish, canary rockfish, darkblotched rockfish, yelloweye rockfish, shortbelly rockfish,

black rockfish, blue/deacon rockfish, minor nearshore rockfish, minor shelf rockfish, minor slope rockfish, shortraker rockfish, rougheye/blackspotted rockfish, shortspine and longspine thornyhead, Dover sole, arrowtooth flounder, petrale sole, starry flounder, English sole, other flatfish, lingcod, sablefish, Pacific cod, spiny dogfish, other fish, longnose skate, Pacific whiting, and big skate.

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■ 14. In § 660.140, paragraphs (d)(1)(ii)(D) and (e)(4)(i) are revised to read as follows:

§ 660.140 Shorebased IFQ Program.

* * * * *

(d) * * *

(1) * * *

(ii) * * *

(D) For the trawl fishery, NMFS will issue QP based on the following shorebased trawl allocations:

IFQ species	Area	2017 shorebased trawl allocation (mt)	2018 shorebased trawl allocation (mt)
Arrowtooth flounder	Coastwide	11,050.6	10,992.6
BOCACIO	South of 40°10' N. lat	302.4	283.3
Canary rockfish	Coastwide	1,014.1	1,014.1
Chilipepper	South of 40°10' N. lat	1,920.8	1,845.8
COWCOD	South of 40°10' N. lat	1.40	1.40
DARKBLOTCHED ROCKFISH	Coastwide	507.6	518.4
Dover sole	Coastwide	45,981.0	45,981.0
English sole	Coastwide	9,258.6	6,953.0
Lingcod	North of 40°10' N. lat	1,359.7	1,259.32
Lingcod	South of 40°10' N. lat	558.9	510.75
Longspine thornyhead	North of 34°27' N. lat	2,699.8	2,560.2
Minor Shelf Rockfish complex	North of 40°10' N. lat	1,148.1	1,146.8
Minor Shelf Rockfish complex	South of 40°10' N. lat	192.2	192.4
Minor Slope Rockfish complex	North of 40°10' N. lat	1,268.8	1,268.0
Minor Slope Rockfish complex	South of 40°10' N. lat	432.7	433.9
Other Flatfish complex	Coastwide	7,455.4	6,349.3
Pacific cod	Coastwide	1,031.4	1,031.4
PACIFIC OCEAN PERCH	North of 40°10' N. lat	198.3	198.3
Pacific whiting	Coastwide .....	.....	.....
Petrable sole	Coastwide	2,745.3	2,628.5
Sablefish	North of 36° N. lat	2,416.4	2,521.9
Sablefish	South of 36° N. lat	780.8	814.4
Shortspine thornyhead	North of 34°27' N. lat	155.3	1,537.0
Shortspine thornyhead	South of 34°27' N. lat	50.0	50.0
Splitnose rockfish	South of 40°10' N. lat	1661.8	1,662.8
Starry flounder	Coastwide	630.9	630.9
Widow rockfish	Coastwide	11,392.7	10,661.5
YELLOWEYE ROCKFISH	Coastwide	1.10	1.10
Yellowtail rockfish	North of 40°10' N. lat	4,246.1	4,075.4

* * * * *

(e) * * *

(4) * * *

(i) *Vessel limits*. For each IFQ species or species group specified in this paragraph, vessel accounts may not have QP or IBQ pounds in excess of the

QP vessel limit (annual limit) in any year, and, for species covered by unused QP vessel limits (daily limit), may not have QP or IBQ pounds in excess of the unused QP vessel limit at any time. The QP vessel limit (annual limit) is calculated as all QPs transferred in

minus all QPs transferred out of the vessel account. The unused QP vessel limits (daily limit) is calculated as unused available QPs plus any pending outgoing transfer of QPs. Vessel Limits are as follows:

Species category	QP vessel limit (annual limit) (in percent)	Unused QP vessel limit (daily limit) (in percent)
Arrowtooth flounder	20	.....
Bocaccio S. of 40°10' N. lat	15.4	13.2
Canary rockfish	10	.....
Chilipepper S. of 40°10' N. lat	15	.....
Cowcod S. of 40°10' N. lat	17.7	17.7
Darkblotched rockfish	6.8	4.5
Dover sole	3.9	.....
English sole	7.5	.....
Lingcod:		
N. of 40°10' N. lat	5.3	.....

Species category	QP vessel limit (annual limit) (in percent)	Unused QP vessel limit (daily limit) (in percent)
S. of 40°10' N. lat	13.3	.....
Longspine thornyhead:		
N. of 34°27' N. lat	9	.....
Minor Shelf Rockfish complex:		
N. of 40°10' N. lat	7.5	.....
S. of 40°10' N. lat	13.5	.....
Minor Slope Rockfish complex:		
N. of 40°10' N. lat	7.5	.....
S. of 40°10' N. lat	9	.....
Other flatfish complex	15	.....
Pacific cod	20	.....
Pacific halibut (IBQ) N. of 40°10' N. lat	14.4	5.4
Pacific ocean perch N. of 40°10' N. lat	6	4
Pacific whiting (shoreside)	15	.....
Petrale sole	4.5	.....
Sablefish:		
N. of 36° N. lat. (Monterey north)	4.5	.....
S. of 36° N. lat. (Conception area)	15	.....
Shortspine thornyhead:		
N. of 34°27' N. lat	9	.....
S. of 34°27' N. lat	9	.....
Splitnose rockfish S. of 40°10' N. lat	15	.....
Starry flounder	20	.....
Widow rockfish	8.5	5.1
Yelloweye rockfish	11.4	5.7
Yellowtail rockfish N. of 40°10' N. lat	7.5	.....
Non-whiting groundfish species	3.2	.....

* * * * *

■ 15. Table 1 (North) and 1 (South) to Part 660, Subpart D, are revised to read as follows:

BILLING CODE 3510-22-P

Table 1 (North) to Part 660, Subpart D -- Limited Entry Trawl Rockfish Conservation Areas and Landing Allowances for non-IFQ Species and Pacific Whiting North of 40°10' N. Lat.

This table describes Rockfish Conservation Areas for vessels using groundfish trawl gear. This table describes incidental landing allowances for vessels registered to a Federal limited entry trawl permit and using groundfish trawl or groundfish non-trawl gears to harvest individual fishing quota (IFQ) species.

Other Limits and Requirements Apply -- Read § 660.10 - § 660.399 before using this table

08/17/2016

06/17/2016

	JAN-FEB	MAR-APR	MAY-JUN	JUL-AUG	SEP-OCT	NOV-DEC		
Rockfish Conservation Area (RCA)^{1/}:								
1	North of 45°46' N. lat.		100 fm line ^{1/} - 150 fm line ^{1/}					
2	45°46' N. lat. - 40°10' N. lat.		100 fm line ^{1/} - modified ^{2/} 200 fm line ^{1/}					
<p>Selective flatfish trawl gear is required shoreward of the RCA; all bottom trawl gear (large footrope, selective flatfish trawl, and small footrope trawl gear) is permitted seaward of the RCA. Large footrope and small footrope trawl gears (except for selective flatfish trawl gear) are prohibited shoreward of the RCA. Midwater trawl gear is permitted for vessels targeting whiting and non-whiting during the days open to the primary whiting season. Vessels fishing groundfish trawl quota pounds with groundfish non-trawl gears, under gear switching provisions at § 660.140, are subject to the limited entry groundfish trawl fishery landing allowances in this table, regardless of the type of fishing gear used. Vessels fishing groundfish trawl quota pounds with groundfish non-trawl gears, under gear switching provisions at § 660.140, are subject to the limited entry fixed gear non-trawl RCA, as described in Tables 2 (North) and 2 (South) to Part 660, Subpart E.</p>								
<p>See § 660.60, § 660.130, and § 660.140 for Additional Gear, Trip Limit, and Conservation Area Requirements and Restrictions. See §§ 660.70-660.74 and §§ 660.76-660.79 for Conservation Area Descriptions and Coordinates (including RCAs, YRCA, CCAs, Farallon Islands, Cordell Banks, and EFHCAs).</p>								
State trip limits and seasons may be more restrictive than federal trip limits, particularly in waters off Oregon and California.								
3	Minor Nearshore Rockfish & Black rockfish		300 lb/ month					
4	Whiting ^{3/}							
5	midwater trawl		Before the primary whiting season: CLOSED. -- During the primary season: mid-water trawl permitted in the RCA. See §660.131 for season and trip limit details. -- After the primary whiting season: CLOSED.					
6	large & small footrope gear		Before the primary whiting season: 20,000 lb/trip. -- During the primary season: 10,000 lb/trip. -- After the primary whiting season: 10,000 lb/trip.					
7	Cabezon ^{4/}							
8	North of 46°16' N. lat.		Unlimited					
9	46°16' N. lat. - 40°10' N. lat.		50 lb/ month					
10	Shortbelly rockfish		Unlimited					
11	Spiny dogfish		60,000 lb/ month					
12	Big skate		5,000 lb/ 2 months	25,000 lb/ 2 months	30,000 lb/ 2 months	35,000 lb/ 2 months	10,000 lb/ 2 months	5,000 lb/ 2 months
13	Longnose skate		Unlimited					
14	Other Fish ^{4/}		Unlimited					

TABLE 1 (North)

TABLE 1 (North)

1/ The Rockfish Conservation Area is an area closed to fishing by particular gear types, bounded by lines specifically defined by latitude and longitude coordinates set out at §§ 660.71-660.74. This RCA is not defined by depth contours, and the boundary lines that define the RCA may close areas that are deeper or shallower than the depth contour. Vessels that are subject to the RCA restrictions may not fish in the RCA, or operate in the RCA for any purpose other than transiting.

2/ The "modified" fathom lines are modified to exclude certain petrale sole areas from the RCA.

3/ As specified at §660.131(d), when fishing in the Eureka Area, no more than 10,000 lb of whiting may be taken and retained, possessed, or landed by a vessel that, at any time during the fishing trip, fished in the fishery management area shoreward of 100 fm contour.

4/ "Other Fish" are defined at § 660.11 and include kelp greenling, leopard shark, and cabezon in Washington

To convert pounds to kilograms, divide by 2.20462, the number of pounds in one kilogram.

Table 1 (South) to Part 660, Subpart D -- Limited Entry Trawl Rockfish Conservation Areas and Landing Allowances for non-IFQ Species and Pacific Whiting South of 40°10' N. Lat.

This table describes Rockfish Conservation Areas for vessels using groundfish trawl gear. This table describes incidental landing allowances for vessels registered to a Federal limited entry trawl permit and using groundfish trawl or groundfish non-trawl gears to harvest individual fishing quota (IFQ) species.

Other Limits and Requirements Apply -- Read § 660.10 - § 660.399 before using this table

08/17/2016

03/17/2019

			JAN-FEB	MAR-APR	MAY-JUN	JUL-AUG	SEP-OCT	NOV-DEC
Rockfish Conservation Area (RCA) ^{1/} :								
1	South of 40°10' N. lat.		100 fm line ^{1/} - 150 fm line ^{1/ 2/}					
Small footrope trawl gear is required shoreward of the RCA; all trawl gear (large footrope, selective flatfish trawl, midwater trawl, and small footrope trawl gear) is permitted seaward of the RCA. Large footrope trawl gear and midwater trawl gear are prohibited shoreward of the RCA. Vessels fishing groundfish trawl quota pounds with groundfish non-trawl gears, under gear switching provisions at § 660.140, are subject to the limited entry groundfish trawl fishery landing allowances in this table, regardless of the type of fishing gear used. Vessels fishing groundfish trawl quota pounds with groundfish non-trawl gears, under gear switching provisions at § 660.140, are subject to the limited entry fixed gear non-trawl RCA, as described in Tables 2 (North) and 2 (South) to Part 660, Subpart E.								
See § 660.60, § 660.130, and § 660.140 for Additional Gear, Trip Limit, and Conservation Area Requirements and Restrictions. See §§ 660.70-660.74 and §§ 660.76-660.79 for Conservation Area Descriptions and Coordinates (including RCAs, YRCA, CCAs, Farallon Islands, Cordell Banks, and EFHCAs).								
State trip limits and seasons may be more restrictive than federal trip limits, particularly in waters off Oregon and California.								
2	Longspine thornyhead							
3		South of 34°27' N. lat.	24,000 lb/ 2 months					
4	Minor Nearshore Rockfish & Black rockfish		300 lb/ month					
5	Whiting							
6		midwater trawl	Before the primary whiting season: CLOSED. -- During the primary season: mid-water trawl permitted in the RCA. See §660.131 for season and trip limit details. -- After the primary whiting season: CLOSED.					
7		large & small footrope gear	Before the primary whiting season: 20,000 lb/trip. -- During the primary season: 10,000 lb/trip. -- After the primary whiting season: 10,000 lb/trip.					
8	Cabezon		50 lb/ month					
9	Shortbelly rockfish		Unlimited					
10	Spiny dogfish		60,000 lb/ month					
11	Big skate		5,000 lb/ 2 months	25,000 lb/ 2 months	30,000 lb/ 2 months	35,000 lb/ 2 months	10,000 lb/ 2 months	5,000 lb/ 2 months
12	Longnose skate		Unlimited					
13	California scorpionfish		Unlimited					
14	Other Fish ^{3/}		Unlimited					

TABLE 1 (South)

TABLE 1 (South)

1/ The Rockfish Conservation Area is an area closed to fishing by particular gear types, bounded by lines specifically defined by latitude and longitude coordinates set out at §§ 660.71-660.74. This RCA is not defined by depth contours, and the boundary lines that define the RCA may close areas that are deeper or shallower than the depth contour. Vessels that are subject to the RCA restrictions may not fish in the RCA, or operate in the RCA for any purpose other than transiting.

2/ South of 34°27' N. lat., the RCA is 100 fm line - 150 fm line along the mainland coast; shoreline - 150 fm line around islands.

3/ "Other Fish" are defined at § 660.11 and include kelp greenling, leopard shark, and cabezon in Washington

To convert pounds to kilograms, divide by 2.20462, the number of pounds in one kilogram.

- 16. In § 660.230, paragraph (c)(2)(i) is revised to read as follows:
- § 660.230 Fixed gear fishery-management measures.
- * * * * *
- (c) * * *
- (2) * * *
- (i) *Coastwide*—widow rockfish, canary rockfish, darkblotched rockfish, yelloweye rockfish, shortbelly rockfish, black rockfish, blue/deacon rockfish, minor nearshore rockfish, minor shelf rockfish, minor slope rockfish, shortraker rockfish, rougheyeye/blackspotted rockfish, shortspine and longspine thornyhead, Dover sole, arrowtooth flounder, petrale sole, starry flounder, English sole, other flatfish, lingcod, sablefish, Pacific cod, spiny dogfish, other fish, longnose skate, big skate, and Pacific whiting;
- * * * * *
- 17. In § 660.231, paragraph (b)(3)(i) is revised to read as follows:

§ 660.231 Limited entry fixed gear sablefish primary fishery.

* * * * *

(b) * * *

(3) * * *

(i) A vessel participating in the primary season will be constrained by the sablefish cumulative limit associated with each of the permits registered for use with that vessel. During the primary season, each vessel authorized to fish in that season under paragraph (a) of this section may take, retain, possess, and land sablefish, up to the cumulative limits for each of the permits registered for use with that vessel (*i.e.*, stacked permits). If multiple limited entry permits with sablefish endorsements are registered for use with a single vessel, that vessel may land up to the total of all cumulative limits announced in this paragraph for the tiers for those permits, except as limited by paragraph (b)(3)(ii) of this section. Up to 3 permits may be registered for

use with a single vessel during the primary season; thus, a single vessel may not take and retain, possess or land more than 3 primary season sablefish cumulative limits in any one year. A vessel registered for use with multiple limited entry permits is subject to per vessel limits for species other than sablefish, and to per vessel limits when participating in the daily trip limit fishery for sablefish under § 660.232. In 2017, the following annual limits are in effect: Tier 1 at 45,120 lb (20,466 kg), Tier 2 at 20,509 mt (9,303 kg), and Tier 3 at 11,720 lb (5,316 kg). In 2018 and beyond, the following annual limits are in effect: Tier 1 at 47,050 lb (21,342 kg), Tier 2 21,386 lb (9,701 kg), and Tier 3 12,221 lb (5,543 kg).

* * * * *

■ 18. Tables 2 (North) and 2 (South) to Part 660, Subpart E, are revised to read as follows:

Table 2 (North) to Part 660, Subpart E -- Non-Trawl Rockfish Conservation Areas and Trip Limits for Limited Entry Fixed Gear North of 40°10' N. lat.

Other limits and requirements apply -- Read §§660.10 through 660.399 before using this table							01042017	
	JAN-FEB	MAR-APR	MAY-JUN	JUL-AUG	SEP-OCT	NOV-DEC		
Rockfish Conservation Area (RCA)^{1/}:								
1	North of 46°16' N. lat.			shoreline - 100 fm line ^{1/}				
2	46°16' N. lat. - 42°00' N. lat.			30 fm line ^{1/} - 100 fm line ^{1/}				
3	42°00' N. lat. - 40°10' N. lat.			30 fm line ^{1/} - 100 fm line ^{1/}				
See §§660.60 and 660.230 for additional gear, trip limit and conservation area requirements and restrictions. See §§660.70-660.74 and §§660.76-660.79 for conservation area descriptions and coordinates (including RCAs, YRCAs, CCAs, Farallon Islands, Cordell Banks, and EFHCAs).								
State trip limits and seasons may be more restrictive than Federal trip limits or seasons, particularly in waters off Oregon and California.								
4	Minor Slope Rockfish ^{2/} & Darkblotched rockfish			4,000 lb/ 2 months				
5	Pacific ocean perch			1,800 lb/ 2 months				
6	Sablefish	1,125 lb/week, not to exceed 3,375 lb/ 2 months	1,100 lb/week, not to exceed 3,300 lb/ 2 months					
7	Longspine thornyhead			10,000 lb/ 2 months				
8	Shortspine thornyhead			2,000 lb/ 2 months		2,500 lb/ 2 months		
9								
10	Dover sole, arrowtooth flounder, petrale sole, English sole, starry flounder, Other Flatfish ^{3/}			5,000 lb/ month				
South of 42° N. lat., when fishing for "other flatfish," vessels using hook-and-line gear with no more than 12 hooks per line, using hooks no larger than "Number 2" hooks, which measure 0.44 in (11 mm) point to shank, and up to two 1 lb (0.45 kg) weights per line, are not subject to the RCAs.								
15	Whiting			10,000 lb/ trip				
16	Minor Shelf Rockfish ^{2/} , Shortbelly, & Widow rockfish			200 lb/ month				
17	Yellowtail rockfish			1,000 lb/ month				
18	Canary rockfish			300 lb/ 2 months				
19	Yelloweye rockfish			CLOSED				
20	Minor Nearshore Rockfish & Black rockfish							
21	North of 42°00' N. lat.		5,000 lb/ 2 months, no more than 1,200 lb of which may be species other than black rockfish or blue/deacon rockfish ^{4/}					
22	42°00' N. lat. - 40°10' N. lat.		8,500 lb/ 2 months, no more than 1,200 lb of which may be species other than black rockfish	7,000 lb/ 2 months, no more than 1,200 lb of which may be species other than black rockfish				
23	Lingcod ^{5/}		200 lb/2 months		1,200 lb/ 2 months		600 lb/ month	200 lb/ month
24	Pacific cod			1,000 lb/ 2 months				
25	Spiny dogfish		200,000 lb/ 2 months		150,000 lb/ 2 months	100,000 lb/ 2 months		
26	Longnose skate			Unlimited				
27	Other Fish ^{6/} & Cabezon in Oregon and California			Unlimited				

TABLE 2 (North)

TABLE 2 (North)

- 1/ The Rockfish Conservation Area is an area closed to fishing by particular gear types, bounded by lines specifically defined by latitude and longitude coordinates set out at §§ 660.71-660.74. This RCA is not defined by depth contours (with the exception of the 20-fm depth contour boundary south of 42° N. lat.), and the boundary lines that define the RCA may close areas that are deeper or shallower than the depth contour. Vessels that are subject to RCA restrictions may not fish in the RCA, or operate in the RCA for any purpose other than transiting.
- 2/ Bocaccio, chilipepper and cowcod are included in the trip limits for Minor Shelf Rockfish and splitnose rockfish is included in the trip limits for Minor Slope Rockfish.
- 3/ "Other flatfish" are defined at § 660.11 and include butter sole, curfin sole, flathead sole, Pacific sanddab, rex sole, rock sole, and sand sole.
- 4/ For black rockfish north of Cape Alava (48°09.50' N. lat.), and between Destruction Is. (47°40' N. lat.) and Leadbetter Pnt. (46°38.17' N. lat.), there is an additional limit of 100 lb or 30 percent by weight of all fish on board, whichever is greater, per vessel, per fishing trip.
- 5/ The minimum size limit for lingcod is 22 inches (56 cm) total length North of 42° N. lat. and 24 inches (61 cm) total length South of 42° N. lat.
- 6/ "Other Fish" are defined at § 660.11 and include kelp greenling, leopard shark, and cabezon in Washington.
- To convert pounds to kilograms, divide by 2.20462, the number of pounds in one kilogram.

Table 2 (South) to Part 660, Subpart E -- Non-Trawl Rockfish Conservation Areas and Trip Limits for Limited Entry Fixed Gear South of 40°10' N. lat.

Other limits and requirements apply -- Read §§660.10 through 660.399 before using this table										01042017	
		JAN-FEB	MAR-APR	MAY-JUN	JUL-AUG	SEP-OCT	NOV-DEC				
Rockfish Conservation Area (RCA)^{1/}:											
1		40°10' N. lat. - 34°27' N. lat.		30 fm line ^{1/} - 125 fm line ^{1/}							
2		South of 34°27' N. lat.		75 fm line ^{1/} - 150 fm line ^{1/} (also applies around islands)							
See §§660.60 and 660.230 for additional gear, trip limit and conservation area requirements and restrictions. See §§660.70-660.74 and §§660.76-660.79 for conservation area descriptions and coordinates (including RCAs, YRCAs, CCAs, Farallon Islands, Cordell Banks, and EFHCAs).											
State trip limits and seasons may be more restrictive than Federal trip limits or seasons, particularly in waters off Oregon and California.											
3	Minor Slope rockfish^{2/} & Darkblotched rockfish		40,000 lb/ 2 months, of which no more than 1,375 lb may be blackgill rockfish				40,000 lb/ 2 months, of which no more than 1,600 lb may be blackgill rockfish				
4	Splitnose rockfish		40,000 lb/ 2 months								
5	Sablefish										
6		40°10' N. lat. - 36°00' N. lat.	1,125 lb/week, not to exceed 3,375 lb/ 2 months	1,100 lb/week, not to exceed 3,300 lb/ 2 months							
7	South of 36°00' N. lat.		2,000 lb/ week								
8	Longspine thornyhead		10,000 lb/ 2 months								
9	Shortspine thornyhead										
10		40°10' N. lat. - 34°27' N. lat.	2,000 lb/ 2 months				2,500 lb/ 2 months				
11		South of 34°27' N. lat.	3,000 lb/ 2 months								
12	Dover sole, arrowtooth flounder, petrale sole, English sole, starry flounder, Other Flatfish^{3/}		5,000 lb/ month								
South of 42° N. lat., when fishing for "other flatfish," vessels using hook-and-line gear with no more than 12 hooks per line, using hooks no larger than "Number 2" hooks, which measure 0.44 in (11 mm) point to shank, and up to two 1 lb (0.45 kg) weights per line, are not subject to the RCAs.											
18	Whiting		10,000 lb/ trip								
19	Minor Shelf Rockfish^{2/}, Shortbelly rockfish, Widow rockfish (including Chilipepper between 40°10' - 34°27' N. lat.)										
20		40°10' N. lat. - 34°27' N. lat.	Minor shelf rockfish, shortbelly, widow rockfish, & chilipepper: 2,500 lb/ 2 months, of which no more than 500 lb may be any species other than chilipepper.								
21		South of 34°27' N. lat.	4,000 lb/ 2 months	CLOSED	4,000 lb/ 2 months						
22	Chilipepper										
23		40°10' N. lat. - 34°27' N. lat.	Chilipepper included under minor shelf rockfish, shortbelly and widow rockfish limits -- See above								
24		South of 34°27' N. lat.	2,000 lb/ 2 months, this opportunity only available seaward of the non-trawl RCA								
25	Canary rockfish		300 lb/ 2 months								
26	Yelloweye rockfish		CLOSED								
27	Cowcod		CLOSED								
28	Bronzespotted rockfish		CLOSED								
29	Bocaccio										
30		40°10' N. lat. - 34°27' N. lat.	1,000 lb/ 2 months								
31		South of 34°27' N. lat.	1,500 lb/ 2 months	CLOSED	1,500 lb/ 2 months						
32	Minor Nearshore Rockfish & Black rockfish										
33	Shallow nearshore		1,200 lb/ 2 months	CLOSED	1,200 lb/ 2 months						
34	Deeper nearshore		1,000 lb/ 2 months	CLOSED	1,000 lb/ 2 months						
35	California Scorpionfish		1,500 lb/ 2 months	CLOSED	1,500 lb/ 2 months						
36		Lingcod^{4/}	200 lb/ 2 months	CLOSED	800 lb/ 2 months					400 lb/ month	200 lb/ month
37	Pacific cod		1,000 lb/ 2 months								
38	Spiny dogfish		200,000 lb/ 2 months			150,000 lb/ 2 months	100,000 lb/ 2 months				
39	Longnose skate		Unlimited								
40	Other Fish^{5/} & Cabezon		Unlimited								

TABLE 2 (South)

TABLE 2 (South)

1/ The Rockfish Conservation Area is an area closed to fishing by particular gear types, bounded by lines specifically defined by latitude and longitude coordinates set out at §§ 660.71-660.74. This RCA is not defined by depth contours (with the exception of the 20-fm depth contour boundary south of 42° N. lat.), and the boundary lines that define the RCA may close areas that are deeper or shallower than the depth contour. Vessels that are subject to RCA restrictions may not fish in the RCA, or operate in the RCA for any purpose other than transiting.

2/ POP is included in the trip limits for Minor Slope Rockfish. Blackgill rockfish have a species specific trip sub-limit within the Minor Slope Rockfish cumulative limit. Yellowtail rockfish are included in the trip limits for Minor Shelf Rockfish. Bronzespotted rockfish have a species specific trip limit.

3/ "Other Flatfish" are defined at § 660.11 and include butter sole, curffin sole, flathead sole, Pacific sanddab, rex sole, rock sole, and sand sole.

4/ The commercial minimum size limit for lingcod is 24 inches (61 cm) total length South of 42° N. lat.

5/ "Other Fish" are defined at § 660.11 and include kelp greenling, leopard shark, and cabezon in Washington.

To convert pounds to kilograms, divide by 2.20462, the number of pounds in one kilogram.

■ 19. In § 660.330, paragraph (c)(2)(i) is revised to read as follows:

**§ 660.330 Open access fishery—
management measures.**

* * * * *

(c) * * *

(2) * * *

(i) *Coastwide*—widow rockfish,
canary rockfish, darkblotched rockfish,

yelloweye rockfish, shortbelly rockfish,
black rockfish, blue/deacon rockfish,
minor nearshore rockfish, minor shelf
rockfish, minor slope rockfish,
shortraker rockfish, roughey/
blackspotted rockfish, shortspine and
longspine thornyhead, Dover sole,
arrowtooth flounder, petrale sole, starry
flounder, English sole, other flatfish,

lingcod, sablefish, Pacific cod, spiny
dogfish, longnose skate, other fish,
Pacific whiting, big skate, and Pacific
sanddabs;

* * * * *

■ 20. Tables 3 (North) and 3 (South) to
Part 660, Subpart F, are revised to read
as follows:

Table 3 (North) to Part 660, Subpart F -- Non-Trawl Rockfish Conservation Areas and Trip Limits for Open Access Gears North of 40°10' N. lat.

Other limits and requirements apply -- Read §§660.10 through 660.399 before using this table				01042017			
	JAN-FEB	MAR-APR	MAY-JUN	JUL-AUG	SEP-OCT	NOV-DEC	
Rockfish Conservation Area (RCA)^{1/}:							
1	North of 46°16' N. lat.		shoreline - 100 fm line ^{1/}				
2	46°16' N. lat. - 42°00' N. lat.		30 fm line ^{1/} - 100 fm line ^{1/}				
3	42°00' N. lat. - 40°10' N. lat.		30 fm line ^{1/} - 100 fm line ^{1/}				
See §§660.60, 660.330 and 660.333 for additional gear, trip limit and conservation area requirements and restrictions. See §§660.70-660.74 and §§660.76-660.79 for conservation area descriptions and coordinates (including RCAs, YRCAs, CCAs, Farallon Islands, Cordell Banks, and EFHCAs).							
State trip limits and seasons may be more restrictive than Federal trip limits or seasons, particularly in waters off Oregon and California.							
4	Minor Slope Rockfish^{2/} & Darkblotched rockfish		Per trip, no more than 25% of weight of the sablefish landed				
5	Pacific ocean perch		100 lb/ month				
6	Sablefish		300 lb/ day, or 1 landing per week of up to 1,000 lb, not to exceed 2,000 lb/ 2 months	300 lb/day, or 1 landing per week of up to 900 lb, not to exceed 1,800 lb/ 2 months			
7	Shortpine thornyheads and longspine thornyheads		CLOSED				
8	Dover sole, arrowtooth flounder, petrale sole, English sole, starry flounder, Other Flatfish^{3/}		3,000 lb/ month, no more than 300 lb of which may be species other than Pacific sanddabs.				
South of 42° N. lat., when fishing for "Other Flatfish," vessels using hook-and-line gear with no more than 12 hooks per line, using hooks no larger than "Number 2" hooks, which measure 0.44 in (11 mm) point to shank, and up to two 1 lb (0.45 kg) weights per line are not subject to the RCAs.							
14	Whiting		300 lb/ month				
15	Minor Shelf Rockfish^{2/}, Shortbelly rockfish, & Widow rockfish		200 lb/ month				
16	Yellowtail rockfish		500 lb/ month				
17	Canary rockfish		150 lb/ 2 months				
18	Yelloweye rockfish		CLOSED				
19 Minor Nearshore Rockfish & Black rockfish							
20	North of 42°00' N. lat.		5,000 lb/ 2 months, no more than 1,200 lb of which may be species other than black rockfish				
21	42°00' N. lat. - 40°10' N. lat.		8,500 lb/ 2 months, no more than 1,200 lb of which may be species other than black rockfish	7,000 lb/ 2 months, no more than 1,200 lb of which may be species other than black rockfish			
22	Lingcod^{5/}		100 lb/ month	600 lb/ month			100 lb/ month
23	Pacific cod		1,000 lb/ 2 months				
24	Spiny dogfish		200,000 lb/ 2 months	150,000 lb/ 2 months	100,000 lb/ 2 months		
25	Longnose skate		Unlimited				
26	Other Fish^{6/} & Cabezon in Oregon and California		Unlimited				
27 SALMON TROLL (subject to RCAs when retaining all species of groundfish, except for yellowtail rockfish and lingcod, as described below)							
28	North		Salmon trollers may retain and land up to 1 lb of yellowtail rockfish for every 2 lbs of salmon landed, with a cumulative limit of 200 lb/month, both within and outside of the RCA. This limit is within the 200 lb per month combined limit for minor shelf rockfish, widow rockfish and yellowtail rockfish, and not in addition to that limit. Salmon trollers may retain and land up to 1 lingcod per 15 Chinook per trip, plus 1 lingcod per trip, up to a trip limit of 10 lingcod, on a trip where any fishing occurs within the RCA. This limit only applies during times when lingcod retention is allowed, and is not "CLOSED." This limit is within the per month limit for lingcod described in the table above, and not in addition to that limit. All groundfish species are subject to the open access limits, seasons, size limits and RCA restrictions listed in the table above, unless otherwise stated here.				
29 PINK SHRIMP NON-GROUNDFISH TRAWL (not subject to RCAs)							
30	North		Effective April 1 - October 31: Groundfish: 500 lb/day, multiplied by the number of days of the trip, not to exceed 1,500 lb/trip. The following sublimits also apply and are counted toward the overall 500 lb/day and 1,500 lb/trip groundfish limits: lingcod 300 lb/month (minimum 24 inch size limit); sablefish 2,000 lb/month; canary, thornyheads and yelloweye rockfish are PROHIBITED. All other groundfish species taken are managed under the overall 500 lb/day and 1,500 lb/trip groundfish limits. Landings of these species count toward the per day and per trip groundfish limits and do not have species-specific limits. The amount of groundfish landed may not exceed the amount of pink shrimp landed.				

TABLE 3 (North)

TABLE 3 (North)

1/ The Rockfish Conservation Area is an area closed to fishing by particular gear types, bounded by lines specifically defined by latitude and longitude coordinates set out at §§ 660.71-660.74. This RCA is not defined by depth contours (with the exception of the 20-fm depth contour boundary south of 42° N. lat.), and the boundary lines that define the RCA may close areas that are deeper or shallower than the depth contour. Vessels that are subject to RCA restrictions may not fish in the RCA, or operate in the RCA for any purpose other than transiting.

2/ Bocaccio, chilipepper and cowcod rockfishes are included in the trip limits for Minor Shelf Rockfish. Splitnose rockfish is included in the trip limits for Minor Slope Rockfish.

3/ "Other flatfish" are defined at § 660.11 and include butter sole, curfin sole, flathead sole, Pacific sanddab, rex sole, rock sole, and sand sole.

4/ For black rockfish north of Cape Alava (48°09.50' N. lat.), and between Destruction Is. (47°40' N. lat.) and Leadbetter Pt. (46°38.17' N. lat.), there is an additional limit of 100 lbs or 30 percent by weight of all fish on board, whichever is greater, per vessel, per fishing trip.

5/ The minimum size limit for lingcod is 22 inches (56 cm) total length North of 42° N. lat. and 24 inches (61 cm) total length South of 42° N. lat.

6/ "Other fish" are defined at § 660.11 and include kelp greenling, leopard shark, and cabezon in Washington.

To convert pounds to kilograms, divide by 2.20462, the number of pounds in one kilogram.

Table 3 (South) to Part 660, Subpart F -- Non-Trawl Rockfish Conservation Areas and Trip Limits for Open Access Gears South of 40°10' N. lat.

Other limits and requirements apply -- Read §§660.10 through 660.399 before using this table

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		JAN-FEB	MAR-APR	MAY-JUN	JUL-AUG	SEP-OCT	NOV-DEC	
Rockfish Conservation Area (RCA)^{1/}:								
1	40°10' N. lat. - 34°27' N. lat.	30 fm line ^{1/} - 125 fm line ^{1/}						
2	South of 34°27' N. lat.	75 fm line ^{1/} - 150 fm line ^{1/} (also applies around islands)						
See §§660.60 and 660.230 for additional gear, trip limit and conservation area requirements and restrictions. See §§660.70-660.74 and §§660.76-660.79 for conservation area descriptions and coordinates (including RCAs, YRCAs, CCAs, Farallon Islands, Cordell Banks, and EFHCAs).								
State trip limits and seasons may be more restrictive than Federal trip limits or seasons, particularly in waters off Oregon and California.								
3	Minor Slope Rockfish^{2/} & Darkblotched rockfish	10,000 lb/ 2 months, of which no more than 475 lb may be blackgill rockfish			10,000 lb/ 2 months, of which no more than 550 lb may be blackgill rockfish			
4	Splitnose rockfish	200 lb/ month						
5	Sablefish							
6	40°10' N. lat. - 36°00' N. lat.	300 lb/ day, or 1 landing per week of up to 1,000 lb, not to exceed 2,000 lb/ 2 months	300 lb/day, or 1 landing per week of up to 900 lb, not to exceed 1,800 lb/ 2 months					
7	South of 36°00' N. lat.	300 lb/ day, or 1 landing per week of up to 1,600 lb, not to exceed 3,200 lb/ 2 months						
8	Shortpine thornyheads and longspine thornyheads							
9	40°10' N. lat. - 34°27' N. lat.	CLOSED						
10	South of 34°27' N. lat.	50 lb/ day, no more than 1,000 lb/ 2 months						
11	Dover sole, arrowtooth flounder, petrale sole, English sole, starry flounder, Other Flatfish^{3/}	3,000 lb/ month, no more than 300 lb of which may be species other than Pacific sanddabs.						
12		South of 42° N. lat., when fishing for "other flatfish," vessels using hook-and-line gear with no more than 12 hooks per line, using hooks no larger than "Number 2" hooks, which measure 0.44 in (11 mm) point to shank, and up to two 1 lb (0.45 kg) weights per line are not subject to the RCAs.						
13								
14								
15								
16								
17	Whiting	300 lb/ month						
18	Minor Shelf Rockfish^{2/}, Shortbelly, Widow rockfish and Chilipepper							
19	40°10' N. lat. - 34°27' N. lat.	400 lb/ 2 months	CLOSED	400 lb/ 2 months				
20	South of 34°27' N. lat.	1,500 lb/ 2 months		1,500 lb/ 2 months				
21	Canary rockfish	150 lb/ 2 months						
22	Yelloweye rockfish	CLOSED						
23	Cowcod	CLOSED						
24	Bronzespotted rockfish	CLOSED						
25	Bocaccio	500 lb/ 2 months	CLOSED	500 lb/ 2 months				
26	Minor Nearshore Rockfish & Black rockfish							
27	Shallow nearshore	1,200 lb/ 2 months	CLOSED	1,200 lb/ 2 months				
28	Deeper nearshore	1,000 lb/ 2 months	CLOSED	1,000 lb/ 2 months				
29	California scorpionfish	1,500 lb/ 2 months	CLOSED	1,500 lb/ 2 months				
30	Lingcod^{4/}	100 lb/ month	CLOSED	400 lb/ month				100 lb/ month
31	Pacific cod	1,000 lb/ 2 months						
32	Spiny dogfish	200,000 lb/ 2 months		150,000 lb/ 2 months	100,000 lb/ 2 months			
33	Longnose skate	Unlimited						
34	Other Fish^{5/} & Cabezon	Unlimited						

TABLE 3 (South)

TABLE 3 (South)

Table 3 (South). Continued

		JAN-FEB	MAR-APR	MAY-JUN	JUL-AUG	SEP-OCT	NOV-DEC	TABLE 3 (South) cont'd
35	RIDGEBACK PRAWN AND, SOUTH OF 38° 57.50' N. LAT., CA HALIBUT AND SEA CUCUMBER NON-GROUNDFISH TRAWL							
36	NON-GROUNDFISH TRAWL Rockfish Conservation Area (RCA) for CA Halibut, Sea Cucumber & Ridgeback Prawn:							
37	40° 10' N. lat. - 38° 00' N. lat.	100 fm line ^{1/} - 200 fm line ^{1/}	100 fm line ^{1/} - 150 fm line ^{1/}				100 fm line ^{1/} - 200 fm line ^{1/}	
38	38° 00' N. lat. - 34° 27' N. lat.	100 fm line ^{1/} - 150 fm line ^{1/}						
37	South of 34° 27' N. lat.	100 fm line ^{1/} - 150 fm line ^{1/} along the mainland coast; shoreline - 150 fm line ^{1/} around islands						
39		Groundfish: 300 lb/trip. Species-specific limits described in the table above also apply and are counted toward the 300 lb groundfish per trip limit. The amount of groundfish landed may not exceed the amount of the target species landed, except that the amount of spiny dogfish landed may exceed the amount of target species landed. Spiny dogfish are limited by the 300 lb/trip overall groundfish limit. The daily trip limits for sablefish coastwide and thornyheads south of Pt. Conception and the overall groundfish "per trip" limit may not be multiplied by the number of days of the trip. Vessels participating in the California halibut fishery south of 38°57.50' N. lat. are allowed to (1) land up to 100 lb/day of groundfish without the ratio requirement, provided that at least one California halibut is landed and (2) land up to 3,000 lb/month of flatfish, no more than 300 lb of which may be species other than Pacific sanddabs, sand sole, starry flounder, rock sole, curfin sole, or California scorpionfish (California scorpionfish is also subject to the trip limits and closures in line 31).						
40	PINK SHRIMP NON-GROUNDFISH TRAWL GEAR (not subject to RCAs)							
41	South	Effective April 1 - October 31: Groundfish: 500 lb/day, multiplied by the number of days of the trip, not to exceed 1,500 lb/trip. The following sublimits also apply and are counted toward the overall 500 lb/day and 1,500 lb/trip groundfish limits: lingcod 300 lb/ month (minimum 24 inch size limit); sablefish 2,000 lb/ month; canary rockfish, thornyheads and yelloweye rockfish are PROHIBITED. All other groundfish species taken are managed under the overall 500 lb/day and 1,500 lb/trip groundfish limits. Landings of all groundfish species count toward the per day, per trip or other species-specific sublimits described here and the species-specific limits described in the table above do not apply. The amount of groundfish landed may not exceed the amount of pink shrimp landed.						
1/ The Rockfish Conservation Area is an area closed to fishing by particular gear types, bounded by lines specifically defined by latitude and longitude coordinates set out at §§ 660.71-660.74. This RCA is not defined by depth contours (with the exception of the 20-fm depth contour boundary south of 42° N. lat.), and the boundary lines that define the RCA may close areas that are deeper or shallower than the depth contour. Vessels that are subject to RCA restrictions may not fish in the RCA, or operate in the RCA for any purpose other than transiting.								
2/ POP is included in the trip limits for minor slope rockfish. Blackgill rockfish have a species specific trip sub-limit within the minor slope rockfish cumulative limits. Yellowtail rockfish is included in the trip limits for minor shelf rockfish. Bronzespotted rockfish have a species specific trip limit.								
3/ "Other flatfish" are defined at § 660.11 and include butter sole, curfin sole, flathead sole, Pacific sanddab, rex sole, rock sole, and sand sole.								
4/ The commercial minimum size limit for lingcod is 24 inches (61 cm) total length South of 42° N. lat.								
5/ "Other fish" are defined at § 660.11 and includes kelp greenling, leopard shark, and cabezon in Washington.								
To convert pounds to kilograms, divide by 2.20462, the number of pounds in one kilogram.								

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■ 21. In § 660.360, paragraphs (c)(1) introductory text, (c)(1)(i)(D)(3), (c)(1)(ii), (c)(1)(iv)(A) and (B), (c)(2)(i)(A) and (B), (c)(2)(iii)(A), (c)(2)(iii)(D), (c)(3) introductory text, (c)(3)(i)(A), (c)(3)(ii)(A)(1) through (4), (c)(3)(ii)(B), (c)(3)(iii)(A)(1) through (5), (c)(3)(iii)(B), (c)(3)(iv), and (c)(3)(v)(A)(1) are revised to read as follows:

§ 660.360 Recreational fishery—management measures.

* * * * *

(c) * * *

(1) *Washington*. For each person engaged in recreational fishing off the coast of Washington, the groundfish bag limit is 12 groundfish per day, including rockfish, cabezon and lingcod. Within the groundfish bag limit, there are sublimits for rockfish, lingcod, and cabezon outlined in paragraph (c)(1)(i)(D) of this section. The recreational groundfish fishery will open the second Saturday in March through the third Saturday in October for all species in all areas except lingcod in Marine Area 4 as described in paragraph (c)(1)(iv) of this section. In the Pacific halibut fisheries, retention of groundfish is governed in

part by annual management measures for Pacific halibut fisheries, which are published in the **Federal Register**. The following seasons, closed areas, sublimits and size limits apply:

(i) * * *
(D) * * *

(3) Between Leadbetter Point (46°38.17' N. lat.) and the Columbia River (Marine Area 1), when Pacific halibut are onboard the vessel, no groundfish may be taken and retained, possessed or landed, except sablefish, flatfish species (except halibut), and Pacific cod from May 1 through September 30. Except that taking, retaining, possessing or landing incidental halibut with groundfish on board is allowed in the nearshore area on days not open to all-depth Pacific halibut fisheries in the area shoreward of the boundary line approximating the 30 fathom (55 m) depth contour extending from Leadbetter Point, WA (46°38.17' N. lat., 124°15.88' W. long.) to the Columbia River (46°16.00' N. lat., 124°15.88' W. long.) and from there, connecting to the boundary line approximating the 40 fathom (73 m) depth contour in Oregon. Nearshore season days are established in the

annual management measures for Pacific halibut fisheries, which are published in the **Federal Register** and are announced on the NMFS halibut hotline, 1-800-662-9825. Between Leadbetter Point (46°38.17' N. lat., 124°21.00' W. long.) and 46°33.00' N. lat., 124°21.00' W. long., recreational fishing for lingcod is prohibited year round seaward of a straight line connecting all of the following points in the order stated: 46°38.17' N. lat., 124°21.00' W. long.; and 46°33.00' N. lat., 124°21.00' W. long.

(ii) *Rockfish*. In areas of the EEZ seaward of Washington that are open to recreational groundfish fishing, there is a 10 rockfish per day bag limit. In Marine Areas 1 and 2 there is a 1 fish sub-bag limit per day for canary rockfish. Taking and retaining canary rockfish is prohibited in Marine Areas 3 and 4. Taking and retaining yelloweye rockfish is prohibited in all Marine areas.

* * * * *

(iv) * * *

(A) Between the U.S./Canada border and 48°10' N. lat. (Cape Alava) (Washington Marine Area 4), recreational fishing for lingcod is open,

for 2017 and 2018, from April 16 through October 15. Lingcod may be no smaller than 22 inches (61 cm) total length.

(B) Between 48°10' N. lat. (Cape Alava) and 46°16' N. lat. (Columbia River) (Washington Marine Areas 1–3), recreational fishing for lingcod is open for 2017 from March 11 through October 21, and for 2018 from March 10 through October 20. Lingcod may be no smaller than 22 inches (56 cm) total length.

* * * * *

(2) * * *

(i) * * *

(A) *Stonewall Bank yelloweye rockfish conservation area.* Recreational fishing for groundfish and halibut is prohibited within the Stonewall Bank YRCA. It is unlawful for recreational fishing vessels to take and retain, possess, or land groundfish taken with recreational gear within the Stonewall Bank YRCA. A vessel fishing in the Stonewall Bank YRCA may not be in possession of any groundfish. Recreational vessels may transit through the Stonewall Bank YRCA with or without groundfish on board. The Stonewall Bank YRCA, and two possible expansions that are available through inseason adjustment, are defined by latitude and longitude coordinates specified at § 660.70, subpart C.

(B) *Recreational rockfish conservation area.* Fishing for groundfish with recreational gear is prohibited within the recreational RCA, a type of closed area or GCA. It is unlawful to take and retain, possess, or land groundfish taken with recreational gear within the recreational RCA. A vessel fishing in the recreational RCA may not be in possession of any groundfish. [For example, if a vessel fishes in the recreational salmon fishery within the RCA, the vessel cannot be in possession of groundfish while in the RCA. The vessel may, however, on the same trip fish for and retain groundfish shoreward of the RCA on the return trip to port.] Off Oregon, from April 1 through September 30, recreational fishing for groundfish is prohibited seaward of a recreational RCA boundary line approximating the 40 fm (73 m) depth contour, except that fishing for flatfish (other than Pacific halibut) is allowed seaward of the 40 fm (73 m) depth contour when recreational fishing for groundfish is permitted. Coordinates for the boundary line approximating the 40 fm (73 m) depth contour are listed at § 660.71.

* * * * *

(iii) * * *

(A) *Marine fish.* The bag limit is 10 marine fish per day, which includes

rockfish, kelp greenling, cabezon and other groundfish species. The bag limit of marine fish excludes Pacific halibut, salmonids, tuna, perch species, sturgeon, sanddabs, flatfish, lingcod, striped bass, hybrid bass, offshore pelagic species and baitfish (herring, smelt, anchovies and sardines). The minimum size for cabezon retained in the Oregon recreational fishery is 16 in (41 cm) total length.

* * * * *

(D) *In the Pacific halibut fisheries.*

Retention of groundfish is governed in part by annual management measures for Pacific halibut fisheries, which are published in the **Federal Register**. Between the Columbia River and Humbug Mountain, during days open to the “all-depth” sport halibut fisheries, when Pacific halibut are onboard the vessel, no groundfish may be taken and retained, possessed or landed, except sablefish, Pacific cod, and other species of flatfish (sole, flounder, sanddab). “All-depth” season days are established in the annual management measures for Pacific halibut fisheries, which are published in the **Federal Register** and are announced on the NMFS Pacific halibut hotline, 1–800–662–9825.

* * * * *

(3) *California.* Seaward of California, California law provides that, in times and areas when the recreational fishery is open, there is a 20 fish bag limit for all species of finfish, within which no more than 10 fish of any one species may be taken or possessed by any one person. [Note: There are some exceptions to this rule. The following groundfish species are not subject to a bag limit: Petrale sole, Pacific sanddab and starry flounder.] For groundfish species not specifically mentioned in this paragraph, fishers are subject to the overall 20-fish bag limit for all species of finfish and the depth restrictions at paragraph (c)(3)(i) of this section. Recreational spearfishing for all federally-managed groundfish, is exempt from closed areas and seasons, consistent with Title 14 of the California Code of Regulations. This exemption applies only to recreational vessels and divers provided no other fishing gear, except spearfishing gear, is on board the vessel. California state law may provide regulations similar to Federal regulations for the following state-managed species: Ocean whitefish, California sheephead, and all greenlings of the genus *Hexagrammos*. Kelp greenling is the only federally-managed greenling. Retention of cowcod, yelloweye rockfish, and bronzespotted rockfish, is prohibited in the recreational fishery seaward of

California all year in all areas. Retention of species or species groups for which the season is closed is prohibited in the recreational fishery seaward of California all year in all areas, unless otherwise authorized in this section. For each person engaged in recreational fishing in the EEZ seaward of California, the following closed areas, seasons, bag limits, and size limits apply:

(i) * * *

(A) *Recreational rockfish conservation areas.* The recreational RCAs are areas that are closed to recreational fishing for groundfish. Fishing for groundfish with recreational gear is prohibited within the recreational RCA, except that recreational fishing for “other flatfish,” petrale sole, and starry flounder is permitted within the recreational RCA as specified in paragraph (c)(3)(iv) of this section. It is unlawful to take and retain, possess, or land groundfish taken with recreational gear within the recreational RCA, unless otherwise authorized in this section. A vessel fishing in the recreational RCA may not be in possession of any species prohibited by the restrictions that apply within the recreational RCA. [For example, if a vessel fishes in the recreational salmon fishery within the RCA, the vessel cannot be in possession of rockfish while in the RCA. The vessel may, however, on the same trip fish for and retain rockfish shoreward of the RCA on the return trip to port.] If the season is closed for a species or species group, fishing for that species or species group is prohibited both within the recreational RCA and shoreward of the recreational RCA, unless otherwise authorized in this section.

(1) Between 42° N. lat. (California/Oregon border) and 40°10' N. lat. (Northern Management Area), recreational fishing for all groundfish (except petrale sole, starry flounder, and “other flatfish” as specified in paragraph (c)(3)(iv) of this section) is prohibited seaward of the 30 fm (55 m) depth contour along the mainland coast and along islands and offshore seamounts from May 1 through October 31 (shoreward of 30 fm is open); is open at all depths from November 1 through December 31; and is closed entirely from January 1 through April 30.

(2) Between 40°10' N. lat. and 38°57.50' N. lat. (Mendocino Management Area), recreational fishing for all groundfish (except petrale sole, starry flounder, and “other flatfish” as specified in paragraph (c)(3)(iv) of this section) is prohibited seaward of the 20 fm (37 m) depth contour along the mainland coast and along islands and offshore seamounts from May 1 through October 31 (shoreward of 20 fm is

open), is open at all depths from November 1 through December 31, and is closed entirely from January 1 through April 30.

(3) Between 38°57.50' N. lat. and 37°11' N. lat. (San Francisco Management Area), recreational fishing for all groundfish (except petrale sole, starry flounder, and "other flatfish" as specified in paragraph (c)(3)(iv) of this section) is prohibited seaward of the boundary line approximating the 40 fm (73 m) depth contour along the mainland coast and along islands and offshore seamounts from April 15 through December 31; and is closed entirely from January 1 through April 14. Closures around Cordell Banks (see paragraph (c)(3)(i)(C) of this section) also apply in this area. Coordinates for the boundary line approximating the 40 fm (73 m) depth contour are listed in § 660.71.

(4) Between 37°11' N. lat. and 34°27' N. lat. (Central Management Area), recreational fishing for all groundfish (except petrale sole, starry flounder, and "other flatfish" as specified in paragraph (c)(3)(iv) of this section) is prohibited seaward of a boundary line approximating the 50 fm (91 m) depth contour along the mainland coast and along islands and offshore seamounts from April 1 through December 31; and is closed entirely from January 1 through March 31 (*i.e.*, prohibited seaward of the shoreline). Coordinates for the boundary line approximating the 50 fm (91 m) depth contour are specified in § 660.72.

(5) South of 34°27' N. lat. (Southern Management Area), recreational fishing for all groundfish (except California scorpionfish as specified below in this paragraph and in paragraph (c)(3)(v) of this section and "other flatfish," petrale sole, and starry flounder, as specified in paragraph (c)(3)(iv) of this section) is prohibited seaward of a boundary line approximating the 60 fm (109.7 m) depth contour from March 1 through December 31 along the mainland coast and along islands and offshore seamounts, except in the CCAs where fishing is prohibited seaward of the 20 fm (37 m) depth contour when the fishing season is open (see paragraph (c)(3)(i)(B) of this section). Recreational fishing for all groundfish (except California scorpionfish, "other flatfish," petrale sole, and starry flounder) is closed entirely from January 1 through February 28 (*i.e.*, prohibited seaward of the shoreline). When the California scorpionfish fishing season is open, recreational fishing for California scorpionfish south of 34°27' N. lat. is prohibited seaward of a boundary line approximating the 60 fm (109.7 m)

depth contour, except in the CCAs where fishing is prohibited seaward of the 20 fm (37 m) depth contour.

* * * * *

(ii) * * *

(A) * * *

(1) Between 42° N. lat. (California/Oregon border) and 40°10' N. lat. (North Management Area), recreational fishing for the RCG complex is open from May 1 through December 31 (*i.e.*, it's closed from January 1 through April 30).

(2) Between 40°10' N. lat. and 38°57.50' N. lat. (Mendocino Management Area), recreational fishing for the RCG Complex is open from May 1 through October December 31 (*i.e.*, it's closed from January 1 through April 30).

(3) Between 38°57.50' N. lat. and 37°11' N. lat. (San Francisco Management Area), recreational fishing for the RCG complex is open from April 15 through December 31 (*i.e.*, it's closed from January 1 through April 14).

(4) Between 37°11' N. lat. and 34°27' N. lat. (Central Management Area), recreational fishing for the RCG complex is open from April 1 through December 31 (*i.e.*, it's closed from January 1 through March 31).

* * * * *

(B) *Bag limits, hook limits.* In times and areas when the recreational season for the RCG Complex is open, there is a limit of 2 hooks and 1 line when fishing for the RCG complex and lingcod. The bag limit is 10 RCG Complex fish per day coastwide. Retention of yelloweye rockfish, bronzespotted rockfish, and cowcod is prohibited. Within the 10 RCG Complex fish per day limit, no more than 3 may be black rockfish, no more than 3 may be cabezon, and no more than 1 may be canary rockfish. Multi-day limits are authorized by a valid permit issued by California and must not exceed the daily limit multiplied by the number of days in the fishing trip.

* * * * *

(iii) * * *

(A) * * *

(1) Between 42° N. lat. (California/Oregon border) and 40°10' N. lat. (Northern Management Area), recreational fishing for lingcod is open from May 1 through December 31 (*i.e.*, it's closed from January 1 through April 30).

(2) Between 40°10' N. lat. and 38°57.50' N. lat. (Mendocino Management Area), recreational fishing for lingcod is open from May 1 through December 31 (*i.e.*, it's closed from January 1 through April 30).

(3) Between 38°57.50' N. lat. and 37°11' N. lat. (San Francisco Management Area), recreational fishing

for lingcod is open from April 15 through December 31 (*i.e.*, it's closed from January 1 through April 14).

(4) Between 37°11' N. lat. and 34°27' N. lat. (Central Management Area), recreational fishing for lingcod is open from April 1 through December 31 (*i.e.*, it's closed from January 1 through March 31).

(5) South of 34°27' N. lat. (Southern Management Area), recreational fishing for lingcod is open from March 1 through December 31 (*i.e.*, it's closed from January 1 through February 28).

(B) *Bag limits, hook limits.* In times and areas when the recreational season for lingcod is open, there is a limit of 2 hooks and 1 line when fishing for lingcod. The bag limit is 2 lingcod per day. Multi-day limits are authorized by a valid permit issued by California and must not exceed the daily limit multiplied by the number of days in the fishing trip.

* * * * *

(iv) "Other flatfish," *petrale sole, and starry flounder.* Coastwide off California, recreational fishing for "other flatfish," petrale sole, and starry flounder, is permitted both shoreward of and within the closed areas described in paragraph (c)(3)(i) of this section. "Other flatfish" are defined at § 660.11, subpart C, and include butter sole, curlfin sole, flathead sole, Pacific sanddab, rex sole, rock sole, and sand sole. Recreational fishing for "other flatfish," petrale sole, and starry flounder, is permitted within the closed areas. Petrale sole, starry flounder, and "Other flatfish," except Pacific sanddab, are subject to the overall 20-fish bag limit for all species of finfish, of which there may be no more than 10 fish of any one species. There is no season restriction or size limit for "other flatfish," petrale sole, and starry flounder however, it is prohibited to file "other flatfish," petrale sole, and starry flounder, at sea.

(v) * * *

(A) * * *

(1) Between 40°10' N. lat. and 38°57.50' N. lat. (Mendocino Management Area), recreational fishing for California scorpionfish is open from May 1 through August 31 (*i.e.*, it's closed from January 1 through April 30 and from September 1 through December 31).

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