

Joint Council Staff and Northwest Fishery Science Center Report on Technical Corrections to the 2023-2024 Harvest Specifications

In preparation for the 2025-26 harvest specifications, staff from the Northwest Fisheries Science Center (NWFSC) and Pacific Fishery Management Council (Council) discovered inconsistencies between existing stock assessment and/or catch-only update projections and the adopted 2023-2024 harvest specifications for select species.

After the discovery of several incorrect harvest specifications, Council staff and NWFSC initiated a review of all 2023-24 groundfish harvest specifications. The review compared the final preferred harvest specification tables (Tables 1-3 and 1-4, [Informational Report 2, September 2022](#)) and regulations to the amounts specified in assessments. Through the review, we determined that the 2023-23 harvest specifications for canary, darkblotched, squarespot, and yelloweye rockfishes were incorrect. The assessments for canary, darkblotched, squarespot, and yelloweye rockfishes were recommended by the Science and Statistical Committee (SSC) as the best scientific information available (BSIA) and were adopted by the Council in 2022. Therefore, the recommended corrections presented below are those values shown in the assessments and represent the BSIA. Additionally, upon review, it was determined the apportionment of 2023-2024 sablefish annual catch limits (ACLs) were calculated with the incorrect five-year rolling average. This issue does not reflect the Council's established policy for sablefish apportionment.

The errors, though unknown until recently, were present all the way through the 2023-24 harvest specifications process and were adopted by the Council at final action. The implemented regulations reflected the Council's final preferred alternative for these species, and therefore are also incorrect.

The Council should consider correcting the harvest specifications to represent the correctly calculated harvest specifications under the adopted harvest control rules (HCR) for these species under this agenda item. [Section 5.5](#) of the FMP provides an inseason mechanism for adjustments to harvest specifications when they were based on incorrect data or were calculated with computational errors.

“If the Council finds that such an error has occurred, it may recommend that NMFS revise the incorrect harvest specification at the earliest possible date via a single Federal Register notice.” §5.5.1, pg. 50

In an effort to provide the Council information on the level of 2023 catch relative to the correct 2023 harvest specifications, a comparison of the best estimate of total mortality to date and the attainment of harvest specifications are presented for the aforementioned species. These catch data are current as of 8/15/2023. The Groundfish Management Team will provide an updated report with the most up-to-date information for the Council review at their September meeting.

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1. Canary Rockfish

A comparison of the adopted 2023-24 canary rockfish harvest specifications ([Informational Report 2, September 2022](#)) with the catch-only projection conducted in 2021 ([Agenda Item C.6, Attachment 11, September 2021](#)) revealed that the 2023-24 overfishing limit (OFL), allowable biological catch (ABC), ACL, and the harvest guideline (HG) were incorrect. Instead of using the 2021 updated catch-only projections for the 2023-24 canary rockfish harvest specifications, the 2019 projections ([Agenda Item H.6, Attachment 2, November 2019¹](#)) were carried forward into the 2023-24 specifications. The 2021 analysis, which accounted for under-attainment in 2019-20 relative to the management targets, indicated that the OFL, ABC, and ACL values should have been higher in 2023-24 harvest specifications.

Table 1 shows the adopted and corrected harvest specifications, trawl/non-trawl allocations, and further allocations for 2023 in the first and second columns respectively, with the difference between these amounts shown in the third column. The plus symbol indicates the correct harvest specifications are higher than the adopted harvest specifications. Additionally, the mortality and percentage of total mortality to date are shown in the final column. At the time of this writing, harvest specification thresholds have not been exceeded.

¹ See Table 2, note the caption incorrectly says the values were from the 2015 assessment

Table 1. The adopted 2023 canary rockfish overfishing limit (OFL), allowable biological catch (ABC), annual catch limit (ACL), fishery harvest guidelines (HG), and the trawl/non-trawl allocations compared to the correct harvest specifications and the difference between those values. Estimated mortality and percent attained to date (8/15/2023) shown relative to the corrected value. Values in metric tons (mt).

2023 Specification	Adopted (mt)	Correct (mt)	Difference (mt)	Mortality to date (mt) a/ b/	Percent Attained c
OFL	1,413	1,472	+59	501.5	34.1%
ABC	1,284	1,338	+54	501.5	37.5%
ACL	1,284	1,338	+54	501.5	37.5%
Off-the-Top Deduction	68.9	68.9	0	68.9 d/	100% d/
Fishery HG	1,215.1	1,269.1	+54	432.6	34.1%
Trawl (72.3%)	878.5	917.6	+39.1	372.4	40.6%
At-Sea	36	36	0	19.9	55.3%
IFQ	842.5	881.6	+39.1	352.5	39.98%
Non-trawl (27.7%)	336.6	351.6	+15	60.2	17.1%
Non-nearshore/ nearshore (36.0%)	121.2	126.6	+5.4	17.2	13.9%
WA Recreational (12.3%)	41.4	43.2	+1.8	15.7	36.3%
OR Recreational(18.5%)	62.2	65.1	+2.9	23.2	35.6%
CA Recreational (33.2%)	111.75	116.7	+4.95	4.0	3.4%

a/ Commercial catch-to-date data was downloaded from the [PacFIN APEX reporting system](#), 8/15/2023.

b/ Recreational catch-to-date data was downloaded from the [RecFIN reporting system](#), 8/15/2023.

c/ Percent attained is current mortality relative to the correct 2023 values

d/Full attainment of off-the-top deductions are assumed due to differences in other fishery reporting timelines.

Table 2 shows the adopted harvest specifications and trawl/non-trawl allocations for 2024 in the first column and the correct values in the second column. The third column shows the difference between the adopted and correct values. The plus symbol indicates the correct harvest specifications are higher than the adopted harvest specifications.

Table 2. The adopted 2024 canary rockfish overfishing limit (OFL), allowable biological catch (ABC), annual catch limit (ACL), fishery harvest guidelines (HG), and the trawl/non-trawl allocations for the 2024 harvest specifications compared to the correct harvest specifications and the difference between those values. Values in metric tons (mt).

2024 Specification	Adopted (mt)	Correct (mt)	Difference (mt)
OFL	1,401	1,434	+33
ABC	1,267	1,296	+37
ACL	1,267	1,296	+37
Off-the-Top Deduction	68.9	68.9	0
Fishery HG	1,198.1	1227.4	+29.3
Trawl (72.3%)	866.2	887.4	+21.2
Non-trawl (27.7%)	331.9	340	+8.1

2. Darkblotched Rockfish

A comparison of the adopted 2023-24 darkblotched rockfish harvest specifications ([Informational Report 2, September 2022](#)) with the 2021 catch-only projection ([Agenda Item C.6, Attachment 12, September 2021](#)) revealed the harvest specifications for the OFL, ABC, and the ACL were incorrect. Similar to canary rockfish, it appears that the 2023-24 harvest specifications were not updated to the 2021 catch-only projections, but rather the 2019 catch-only projections ([Agenda Item H.5, Attachment 20, November 2019](#)) were carried forward into the 2023-24 specifications. The OFL, ABC, and ACL values should have been higher in 2023-24.

Table 3 shows the adopted and correct harvest specifications, trawl/non-trawl allocations, and further allocations for 2023 in the first and second columns respectively, with the difference between these amounts shown in the third column. The plus symbol indicates the correct harvest specifications are higher than the adopted harvest specifications. Additionally, the mortality and percentage of total mortality to date are shown in the final column. As of 8/15, only the at-sea fishery set-aside for darkblotched rockfish have been exceeded.

Table 3. The adopted 2023 darkblotched rockfish overfishing limit (OFL), allowable biological catch (ABC), annual catch limit (ACL), fishery harvest guidelines (HG), and the trawl/non-trawl allocations compared to the correct harvest specifications and the difference between those values. Estimated mortality and percent attained to date (8/15/2023) shown relative to the corrected value. (mt).

2023 Specification	Adopted (mt)	Correct (mt)	Difference (mt)	Mortality to date (mt) a/b	Percent Attained
OFL	856	894	+38	209.4	23.4%
ABC	785	820	+35	209.4	25.5%
ACL	785	820	+35	209.4	25.5%
Off-the-Top Deduction	23.8	23.8	0	23.8 c/	100% c/
Fishery HG	761.2	796.0	+34.8	181.1	22.8%
Trawl (72.3%)	723.2	756.2	+33	179.0	23.7%
At-sea	76.4	76.4	0	78.1	102.2%
IFQ	646.8	679.8	+33	101.9	14.99%
Non-trawl (27.7%)	38.1	39.8	+1.7	2.1	5.3%

a/ Commercial catch-to-date data was downloaded from the [PacFIN APEX reporting system](#), 8/15/2023.

b/ Percent attained is current mortality relative to the correct 2023 values

c/ Full attainment of off-the-top deductions are assumed due to differences in other fishery reporting timelines.

Table 4 shows the adopted harvest specifications and trawl/non-trawl allocations for 2024 in the first column and the correct values in the second column. The third column shows the difference between the adopted and correct values. The plus symbol indicates the correct harvest specifications are higher than the adopted harvest specifications.

Table 4. The adopted darkblotched rockfish overfishing limit (OFL), allowable biological catch (ABC), annual catch limit (ACL), fishery harvest guidelines (HG), and the trawl/non-trawl allocations for the 2024 harvest specifications compared to the correct harvest specifications and the difference between those values. Values in metric tons (mt).

2024 Specification	Adopted (mt)	Correct (mt)	Difference (mt)
OFL	822	857	+35
ABC	751	782	+31
ACL	750	782	+31
Off-the-Top Deduction	23.8	23.8	0
Fishery HG	726.2	758.7	+31.8
Trawl (72.3%)	689.9	720.8	+30.9
Non-trawl (27.7%)	36.3	37.9	+1.6

3. Sablefish

Sablefish is assessed using a coastwide model with ACLs apportioned north and south of 36° N. lat. An error in the years used to establish the apportionment percentage was identified by the NWFSC in work preparing for the 2023 sablefish assessment update. In 2019, the Council adopted an apportionment methodology which used a five-year rolling average biomass estimate by area from the NWFSC West Coast Groundfish Bottom Trawl (WCGBT) survey ([November 2019 PFMC Meeting Decision Document; Agenda Item H.6.a, Supplemental GMT Report 3, November 2019](#)). A new estimate of the five-year rolling average should be provided and applied to determine the ACL allocation by area each harvest specifications cycle; however, this part of the process did not occur, thus the 2023-24 sablefish ACLs are incorrect.

The 2023-24 harvest specifications were to be based on projections from the assessment update conducted in 2021. The apportionment method should have been updated accordingly with the new estimate of the five-year rolling average of biomass by area from the WCGBT survey to apportion the 2023-24 ACLs, specifically 2015-19. However, it appears as if the rolling average from the 2021-22 cycle (2014-18) was used to apportion 2023-24 ACLs (i.e., the apportionment method was not updated per Council process) resulting in ACLs that were not set using the most current information on the biomass proportion by area and was not consistent with Council policy. Staff understands the five-year rolling average to be part of the default HCR and should be automatically updated with new science, which should have been the five-year rolling average for 2015-19. The Council adopted the default HCR for the 2023-34 sablefish harvest specifications. Therefore, the correction should reflect the Council’s decision.

Table 5 shows the percentage of biomass by area per five-year rolling average used to establish the adopted ACLs in the 2023-24 biennium (2014-18) and the correct five-year rolling average (2015-19).

Table 5. The estimated percentage of sablefish biomass by area based on NWFSC WCGBT estimates by rolling average five-year windows. The adopted version time period is 2014-18; whereas, the correct time period is 2015-19.

Area	Percentage of Biomass by Area per Five-Year Rolling Average	
	Adopted (2023-24 Spex)	Correct (Adopted Methodology)
	2014-2018	2015-2019
North 36° N. lat.	78.4%	77.9%
South 36° N. lat.	21.6%	22.1%

Table 6 shows the 2023 harvest specifications and allocations as adopted (using the 2014-2018 average) and the correct harvest specifications and allocations using the 2015-2019 rolling average apportionment. Catch to date and percent attained to date of the correct values are shown in the two right columns.

Table 6. Sablefish north and south of 36 N. lat. harvest specification and allocations as adopted for 2023 using the 2014-2018 WCGBT survey data average and under the correct apportionment using the 2015-2019 average. Estimated total mortality to date (8/15/23) and percent attainment of correct values to date based on PacFIN scorecard. Off-the-top deductions were considered fully attained.

Harvest Specification	Adopted Values	Correct Values	To Date Mortality (8/15) a/	Percent Attained To Date of Correct Values b/
Coastwide OFL	11,577	11,577	6,484.50	56%
Coastwide ABC	10,825	10,825		60%
North of 36° N. lat.				
ACL	8,486.00	8,433	3,138.60	37%
<u>Off the top deduction</u>	886.7	881	886.7 c/	101% c/
<u>Non-Tribal Commercial</u>	7,600	7,552	2,251.9	30%
Limited Entry	6,885	6,842	1,953	29%
<i>Limited Entry Trawl</i>	3,994	3,968	1,189.3	30%
At sea (set aside)	100	100	57.2	57%
Shorebased IFQ	3,893.5	3,868.3	1132.1	29%
<i>Limited Entry Fixed Gear</i>	2,892	2,874	763	27%
Primary Tier	2,458	2,443	666.5	27%
LEFG DTL	434	431	96.8	22%
Open Access	714	710	299.3	42%
South of 36° N. lat.				
ACL	2338	2,392	298.5	12%
<u>Off the top deduction</u>	27.4	27.4	27.4	100% c/
<u>Fishery Harvest Guideline</u>	2310.6	2,365	271.1	11%
Trawl Allocation	970.5	993.3	61.7	6%
Non-trawl Allocation	1340.1	1,371.7	104.7	8%
Limited Entry Fixed Gear	938.1	960.2	88.3	9%
Open Access	402.0	411.5	16.4	4%

a/ Estimated mortality to-date data was downloaded from the [PacFIN APEX reporting system](#), 8/15/2023.

b/ Percent attained is current mortality relative to the correct 2023 values

c/ Full attainment of off-the-top deductions are assumed due to differences in other fishery reporting timelines.

Table 11 below shows the 2024 ACL as adopted (using the 2014-2018 rolling average) and the correct 2024 ACLs under the 2015-2019 rolling average apportionment. When applied to the 2024

ABC, the north of 36 N. lat. apportioned ACL is reduced by 50 mt and simultaneously increases the south of 36 N. lat. ACL by the same amount in 2024.

Table 7. Sablefish north and south of 36 N. lat. harvest specification and allocations as adopted for 2024 using the 2014-2018 WCGBT survey data average and under the correct apportionment using the 2015-2019 average and the difference between the adopted and correct values.

Harvest Specification	Adopted Values	Correct Values	Difference
Coastwide OFL	10,670	10,670	0
Coastwide ABC	9,923	9,923	0
North of 36			
ACL	7,780	7,730	-50
<u>Off the top deduction</u>	815.7	810.7	-5
<u>Non-Tribal Commercial</u>	6,964	6,919	-45
Limited Entry	6,309	6,269	-40
<i>Limited Entry Trawl</i>	3,659	3,636	-23
At sea (set aside)	100	100	0
Shorebased IFQ	3,559	3,536	-23
<i>Limited Entry Fixed Gear</i>	2,650	2,633	-17
Primary Tier	2,252	2,238	-14
LEFG DTL	397	395	-2
Open Access	665 a/	650	-15
South of 36			
ACL	2143	2,193	50
<u>Off the top deduction</u>	27.4	27.4	0
<u>Fishery Harvest Guideline</u>	2115.6	2,165.6	50
Trawl Allocation	888.6	909.6	21
Non-trawl Allocation	1227	1,256	29
Limited Entry Fixed Gear	859	879	20
Open Access	368	377	9

a/ Value in regulation. Correct value should have been 655 (9.4% of Non-Tribal Commercial HG) which result in a net difference of 5 mt between the adopted and correct values.

4. Squarespot Rockfish

A comparison of the adopted 2023-24 squarespot rockfish harvest specifications ([Informational Report 2, September 2022](#)) with the projections from the 2021 [squarespot rockfish stock assessment](#) revealed the 2023-24 OFL, ABC, and the ACL were incorrect. The 2021-22 harvest specifications were repeated in 2023-24 instead of being updated with the new stock assessment projections. Based on the correct information, adopted OFL, ABC, and ACL are higher than they should be in 2023-24.

In the 2021-22 harvest specification contributions, the ABC = ACL however, this is not the case for the 2023-24. The 2021 squarespot rockfish stock assessment found the stock to be in the precautionary zone, i.e. between the minimum stock size threshold and the management target. Squarespot rockfish was estimated to be at 30 percent and 33 percent of unfished spawning output in 2023 and 2024 respectively, so an additional reduction by the default HCR (i.e., the 40-10 rule) should have been implemented to set the ACL less than the ABC.

Table 8 shows the adopted and corrected harvest specifications, with the difference between these amounts shown in the third column. The minus symbol indicates the correct harvest specifications are higher than the adopted harvest specifications. Additionally, the mortality to-date and percentage of the specification landed are shown in the final column. In Table 8, it is important to note that squarespot rockfish does not have species specific set-sides, allocations, or further allocations as it is managed as a part of the Shelf Rockfish Complex South of 40° 10' N. lat. (hereafter “shelf rockfish south”; discussed below). Therefore, it does not have a species-specific HG either. Squarespot is caught in the fixed gear and recreational fishery, which is shown in Table 5 for informational purposes and should not imply it is allocated to these fisheries. At the time of this writing, no harvest specifications have not been exceeded.

Table 8. The adopted 2023 squarespot rockfish overfishing limit (OFL), allowable biological catch (ABC), annual catch limit (ACL), fishery harvest guidelines (HG), and the trawl/non-trawl allocations compared to the correct harvest specifications and the difference between those values. Estimated mortality and percent attained to date (8/15/2023) shown relative to the corrected value. (mt).

2023 Specification	Adopted (mt)	Correct (mt)	Difference (mt)	Mortality to date (mt) a/b/	Percent Attained c/
OFL	11.1	5.3	-5.8	1.04	19.6%
ABC	9.7	4.7	-5.1	1.04	22.1%
ACL	9.7	4.1	-5.6	1.04c/	25.4% c/
Non-trawl	NA	NA	NA	0.25	NA
Recreational	NA	NA	NA	0.79	NA

a/ Commercial catch-to-date data was downloaded from the [PacFIN APEX reporting system](#), 8/15/2023.

b/ Recreational catch-to-date data was downloaded from the [RecFIN reporting system](#), 8/15/2023.

c/ Percent attained is current mortality relative to the correct 2023 values

Table 9 shows the adopted harvest specifications for 2024 in the first column and the correct values in the second column. The negative (or minus) symbol indicates the correct harvest specifications are lower than the adopted harvest specifications.

Table 9. The 2024 adopted squarespot rockfish overfishing limit (OFL), allowable biological catch (ABC), and annual catch limit (ACL) compared to the correct harvest in metric tons (mt)

2024 Specification	Adopted (mt)	Correct (mt)	Difference (mt)
OFL	11.1	6.0	-5.1
ABC	9.6	5.2	-4.4
ACL	9.6	4.8	-4.8

Shelf Rockfish Complex South of 40° 10' N. lat.

As squarespot rockfish is managed within shelf rockfish south, the proposed correction in the harvest specifications for squarespot rockfish would also affect the complex specifications and allocations. Squarespot rockfish harvest specifications are fully contributed to 2023-24 shelf rockfish south harvest specifications. Reduction of the squarespot rockfish harvest specifications would therefore reduce the shelf rockfish south specifications by the same amount, as shown below in Table 11. The negative (or minus) symbol indicate the correct harvest specifications are higher than the adopted harvest specifications.

Table 10. The adopted 2023 shelf rockfish south overfishing limit (OFL), allowable biological catch (ABC), annual catch limit (ACL), fishery harvest guidelines (HG), and the trawl/non-trawl allocations compared to the correct harvest specifications and the difference between those values. Estimated mortality and percent attained to date (8/15/2023) shown relative to the corrected value. (mt).

2023 Specification	Adopted (mt)	Correct (mt)	Difference (mt)	Catch-to date/ (mt) a/ b/	Percent Attained c/
OFL	1,835	1,829	-5.8	450	24.6%
ABC	1,469	1,464	-5.1	450	30.8%
ACL	1,469	1,463	-5.6	450	30.8%
Off-the-Top Deduction	132.8	132.8	0	132.8 d//	100% d/
Fishery HG	1,336.2	1,330.6	-5.6	317.2	23.8%
Trawl (12.2%)	163.0	162.3	-0.7	23.6	14.5%
IFQ	163.0	162.3	-0.7	23.6	14.5%
Non-trawl (87.8%)	1,173.2	1,168.3	-4.9	293.6	25.1%
Non-nearshore	NA	NA	NA	80.5 d/	NA
CA Recreational	NA	NA	NA	213.1 d/	NA

a/ Commercial catch-to-date data was downloaded from the [PacFIN APEX reporting system](#), 8/15/2023.

b/ Recreational catch-to-date data was downloaded from the [RecFIN reporting system](#), 8/15/2023.

c/ Percent attained is current mortality relative to the correct 2023 values

d/ Full attainment of off-the-top deductions are assumed due to differences in other fishery reporting timelines.

Table 11 shows the corrected 2024 harvest specifications for the shelf rockfish south complex. The negative (or minus) symbol indicates the correct harvest specifications are lower than the adopted harvest specifications. ²

² Due to rounding and the complex harvest specifications being reported at the integer level, the differences in the values of squarespot rockfish in Table 6 are not the same as the differences for the southern shelf complex.

Table 11. The adopted shelf rockfish south overfishing limit (OFL), allowable biological catch (ABC), annual catch limit (ACL), harvest guideline (HG) and the trawl/non-trawl allocations for the 2024 harvest specifications compared to the correct harvest specifications

2024 Specification	Adopted (mt)	Correct (mt)	Difference (mt)
OFL	1,838	1,833	-5.1
ABC	1,469	1,464.6	-4.4
ACL	1,469	1,464.2	-4.8
Off-the-Top Deduction	132.8	132.8	0
Fishery HG	1,336.2	1,331.4	-4.8
Trawl (12.2%)	163.0	162.4	-0.6
Non-trawl (87.8%)	1,173.2	1,169.0	-4.2

5. Yelloweye Rockfish

In late July 2023, Council staff was informed by NWFSC staff that an error was found in the calculation of the 2023-24 yelloweye rockfish harvest specifications as they were preparing to conduct the 2023 catch-only projections for the stock. The adopted 2023-24 harvest specifications for yelloweye rockfish were found to be higher than what they should have been given the adopted rebuilding plan. In order to provide updated ABC values using the time-varying sigma (σ) for the 2023-24 harvest specifications, the NWFSC completed a new projection using the 2017 assessment model for yelloweye rockfish in 2021. However, as the ABCs should have been calculated from the time-series of OFLs available in the rebuilding analysis using the appropriate buffer fractions, given the P* and time-varying σ . The correct OFL and ACL values were also available in the adopted rebuilding plan. Further, it appears that an error was introduced in the analysis, such that the calculated OFLs and ABCs were higher than they should have been based on the adopted rebuilding plan.

The correct 2023-24 yelloweye rockfish harvest specifications are reduced when compared to the adopted 2023-24 harvest specifications. Table 12 shows the adopted harvest specifications for 2023 and 2024 in the first set of columns and the correct values in the second set of columns. This table is presented in a similar format as the yelloweye rockfish scorecard, which is presented to the Council during each Groundfish Inseason agenda item.

Table 12. Adopted yelloweye rockfish overfishing limit (OFL), allowable biological catch (ABC), annual catch limit (ACL), harvest guideline (HG), annual catch target (ACT), and the trawl/non-trawl allocations for the 2023-24 harvest specifications compared to the correct yelloweye rockfish harvest specifications. Values in metric tons (mt)

Specification (mt)	Adopted Harvest Specifications				Correct Harvest Specifications b/			
	2023 (mt)		2024 (mt)		2023 (mt)		2024 (mt)	
OFL	122.7		123.4		89.6		91.2	
ABC (buffers: 0.840 in 2023 & 0.832 in 2024)	103.1		102.6		75.3		75.9	
ACL a/	66.0		66.0		52.3		53.3	
Off-the-Top Deduction	10.7		10.7		10.7		10.7	
Fishery HG	55.3		55.3		41.6		42.6	
Trawl (8%)	4.4		4.4		3.3		3.4	
<i>At-Sea</i>	0		0		0		0	
<i>IFQ</i>	4.4		4.4		3.3		3.4	
Non-trawl (92%)	HG	ACT	HG	ACT	HG	ACT	HG	ACT
	50.9	39.9	50.9	39.9	38.3	30.0	39.2	30.7
<i>Non-nearshore/ Nearshore (20.9%)</i>	10.7	8.4	10.7	8.4	8.0	6.3	8.2	6.4
<i>WA Rec (25.6%)</i>	13.2	10.4	13.2	10.4	9.8	7.7	10.0	7.9
<i>OR Rec (23.3%)</i>	11.7	9.2	11.7	9.2	8.9	7.0	9.1	7.2
<i>CA Rec (30.2%)</i>	15.3	12.0	15.3	12.0	11.6	9.1	11.8	9.3

a/ SPR=0.65

Table 13 reports the amount each specification, allocation, HG, and ACT are reduced, in metric tons, from the adopted 2023-24 to the revised amounts. Subsequently, under the revised 2023-24 harvest specifications, all allocations are reduced as well.

Table 13. Difference in metric tons (mt) between the adopted harvest specifications and correct overfishing limit (OFL), allowable biological catch (ABC), annual catch limit (ACL), harvest guideline (HG) and the trawl/non-trawl allocation for yelloweye rockfish, in metric tons (mt)

Specification	2023 (mt)		2024 (mt)	
OFL	-33.1		-32.2	
ABC	-27.8		-26.7	
ACL	-13.7		-12.7	
Off-the-Top Deduction	0		0	
Fishery HG	-13.7		-12.7	
Trawl (8%)	-1.1		-1.0	
<i>At-Sea</i>	0		0	
<i>IFQ</i>	-1.1		-1.0	
Non-trawl (92%)	HG	ACT	HG	ACT
	-12.6	-9.9	-11.7	-9.2
<i>Non-nearshore/ Nearshore (20.9%)</i>	-2.7	-2.1	-2.5	-2.0
<i>WA Rec (25.6%)</i>	-3.4	-2.7	-3.2	-2.5
<i>OR Rec (23.3%)</i>	-2.8	-2.2	-2.6	-2.0
<i>CA Rec (30.2%)</i>	-3.7	-2.9	-3.5	-2.7

Table 14 shows the correct harvest specifications, the mortality and percentage of total mortality to date. At the time of this writing, harvest thresholds have not been exceeded.

Table 14. The correct 2023 yelloweye rockfish overfishing limit (OFL), allowable biological catch (ABC), annual catch limit (ACL), fishery harvest guidelines (HG), and trawl/non-trawl and further allocations compared to the estimated mortality and percent attained to date (8/15/2023). (mt).

Specification	2023 Correct (mt)		Mortality to date a/ b/	Percent Attainment c	
OFL	89.6		18.7	20.9%	
ABC	75.3		18.7	24.8%	
ACL	52.3		18.7	35.8%	
Off-the-Top Deduction	10.7		10.7 d/	100 % d/	
Fishery HG	42.6		7.9	18.5%	
Trawl (8%)	3.3		0.26	7.9%	
At-Sea	0		0.01	-	
IFQ	3.3		0.25	7.6%	
Non-trawl (92%)	HG	ACT		HG	ACT
	38.3	30.0	7.7	20.1%	25.7%
<i>Non-nearshore /Nearshore (20.9%)</i>	8.0	6.3	1.8	22.5%	28.7%
<i>WA Rec (25.6%)</i>	9.8	7.7	3.1	31.6%	42.9%
<i>OR Rec (23.3%)</i>	8.9	7.0	2.0	22.5%	28.6%
<i>CA Rec (30.2%)</i>	11.6	9.1	0.62	5.3%	6.8%

a/ Commercial catch-to-date data was downloaded from the [PacFIN APEX reporting system](#), 8/15/2023.

b/ Recreational catch-to-date data was downloaded from the [RecFIN reporting system](#), 8/15/2023.

c/ Percent attained is current mortality relative to the correct 2023 values

d/ Full attainment of off-the-top deductions are assumed due to differences in other fishery reporting timelines.

PFMC
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