

CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE REPORT
 ON 2023 INSEASON GROUND FISH HARVEST IN CALIFORNIA

Contents

Recreational Fishery 1
 Quillback Rockfish 1
 Copper Rockfish 2
 Yelloweye Rockfish..... 3
 Non-Trawl Commercial Fishery 3
 Quillback Rockfish 3
 Copper Rockfish 4
 Total Quillback Take-To-Date Compared to Harvest Limits 4
 Appendix 1..... 5

The California Department of Fish and Wildlife (CDFW) provides the following informational report on harvest of select groundfish species of interest in 2023. A comprehensive reporting of groundfish mortality in California is found at the end of this report in Appendix I. All values were rounded using standard rounding rules in each table for presentation purposes; for that reason, a sum of the rounded values over rows and columns within tables may not be equal to the total value.

Recreational Fishery

Quillback Rockfish

Quillback rockfish remain in the minor nearshore complex north and south of 40°10’ N. lat., with a shared commercial and recreational species-specific Annual Catch Target (ACT) of 0.87 mt for the area between 42° N. lat. and 40°10’ N. lat. and 0.89 mt for south of 40°10’ N. lat. As discussed in [CDFW Inseason Report 1](#) and [Supplemental CDFW Inseason Report 2](#), mortality of quillback rockfish has exceeded harvest limits in the areas north and south of 40° 10’ N. lat. and multiple inseason actions were taken to limit encounters with quillback rockfish in the recreational fishery. Encounters with quillback rockfish have continued since submitting CDFW Inseason Reports 1 and 2, and updated catch information is available. The best estimate of total mortality for quillback rockfish in the California recreational fishery through August 27, 2023 incorporates monthly catch estimates from January through June, and weekly Anticipated Catch Value (ACV) data from July 1 through August 27. The best estimate of total mortality is 1.75 mt (Table 1) for the area between 42° - 40° 10’ N. lat. and 1.84 mt (Table 2) for the area south of 40° 10’ N. lat.

Table 1. Recreational best estimate of total mortality for quillback rockfish off California for the Northern Management Area (MA) between 42° - 40° 10’ N. lat. by month. Data in the Estimate column are

monthly California Recreational Fishery Survey (CRFS) estimates. Data in the ACV column are Anticipated Catch Values (ACVs). As CRFS estimates become available the ACV value for that month is removed. All data are from CDFW/CRFS, are preliminary and subject to change.

Month	Northern MA Estimate	Northern MA ACV	Total
January	-	NA	-
February	-	NA	-
March	-	NA	-
April	-	NA	-
May	0.06	NA	0.06
June	0.26	NA	0.26
July		0.74	
August (through Aug 27)		0.69	
Total	0.32	1.43	1.75

Table 2. Recreational best estimate of total mortality for quillback rockfish off California south of 40° 10' N. lat. by month and Management Area (MA). Data by Management Area are monthly CRFS estimates. ACV data are for the entire area S of 40 10. As CRFS estimates become available the ACV value for that month is removed. All data are from CDFW/CRFS, are preliminary and subject to change.

Month	Southern MA Estimate	Central MA Estimate	San Francisco MA Estimate	Mendocino MA Estimate	ACV (S 40 10)	Total
January	-	-	-	-	NA	-
February	-	-	-	-	NA	-
March	-	-	-	-	NA	-
April	-	-	-	-	NA	-
May	-	0.01	0.02	0.00	NA	0.03
June	-	0.02	0.02	-	NA	0.05
July					0.26	
August (through Aug 27)					1.50	
Total	0.00	0.04	0.04	0.00	1.76	1.84

Copper Rockfish

Copper rockfish remain in the minor nearshore rockfish complex, north and south of 40°10' N. lat., with a shared commercial and recreational species-specific ACT of 6.9 mt for the area between 42° - 40° 10' N. lat. and 84.6 mt for south of 40° 10' N. lat. The best estimate of total mortality for copper rockfish in the California recreational fishery through August 27, 2023 incorporates monthly catch estimates from January through June, and weekly ACV data from July 1 through August 27. The best estimate of total mortality is 2.32 mt (Table 3) for the area between 42° - 40° 10' N. lat. and 27.86 mt (Table 4) for the area south of 40° 10' N. lat. These values are within the area-specific ACT values for copper rockfish.

Table 3. Recreational best estimate of total mortality for copper rockfish off California for the Northern Management Area (MA) between 42° - 40° 10' N. lat. by month. Data in the Estimate column are monthly CRFS estimates. Data in the ACV column are Anticipated Catch Values (ACVs). As CRFS estimates become available the ACV value for that month is removed. All data are from CDFW/CRFS,

are preliminary and subject to change.

Month	Northern MA Estimate	Northern MA ACV	Total
January	-	NA	-
February	-	NA	-
March	0.00	NA	-
April	0.00	NA	-
May	0.28	NA	0.28
June	0.89	NA	0.89
July		0.83	0.83
August (through Aug 27)		0.32	0.32
Total	1.17	1.15	2.32

Table 4. Recreational best estimate of total mortality for copper rockfish off California south of 40° 10' N. lat. by month and MA. Data by MA are monthly CRFS estimates. ACV data are for the entire area S of 40 10. As CRFS estimates become available the ACV value for that month is removed. All data are from CDFW/CRFS, are preliminary and subject to change.

Month	Southern MA Estimate	Central MA Estimate	San Francisco MA Estimate	Mendocino MA Estimate	ACV (S 40 10)	Total
January	-	0.00	-	-	NA	0.00
February	0.00	-	-	-	NA	0.00
March	0.04	0.00	-	-	NA	0.04
April	4.04	0.01	-	-	NA	4.06
May	1.40	1.58	0.61	-	NA	3.59
June	3.19	1.44	0.31	-	NA	4.93
July					5.49	5.49
August (through Aug 27)					9.73	9.73
Total	8.68	3.03	0.92	0.00	15.23	27.86

Yelloweye Rockfish

Yelloweye rockfish is the only remaining rebuilding rockfish species off the coast of California. A California recreational harvest guideline (HG) is set at 15.3 mt, with an ACT of 12.0 mt in 2023. CDFW understands the Council will consider a technical correction to the HG and ACT values for yelloweye rockfish and other species assessed in 2021 based on the information presented in [G.8, Supplemental REVISED Attachment 1](#). Future CDFW inseason reports will reflect any updated HG and ACT values as recommended by the Council. CDFW tracks recreational mortality of yelloweye rockfish on a weekly basis using the established ACV process. Through August 27, 2023, it is projected 5.4 mt of yelloweye rockfish mortality has occurred. Considering the shift to offshore only fisheries north of Point Conception to limit impacts to quillback rockfish, CDFW will continue to track yelloweye mortality closely and report to the Council through CDFW inseason reports.

Non-Trawl Commercial Fishery

Quillback Rockfish

Commercial landings data are from PacFIN and reflect activity across all management areas

from January through September 5, 2023. Landing totals are 0.3 mt (Table 6) for the area between 42° - 40° 10' N. lat. and 0.3 mt (Table 6) for the area south of 40° 10' N. lat. Commercial quillback rockfish landings across California are tracking similar to 2022, however, as discussed in [CDFW Inseason Report 1](#) and [Supplemental CDFW Inseason Report 2](#), mortality of quillback rockfish has exceeded harvest limits in the areas north and south of 40° 10' N. lat. and retention of quillback rockfish was prohibited in the commercial fishery. Since the prohibition there have been no reported commercial landings of quillback rockfish. Reported landings are preliminary and subject to change as more data becomes available.

Copper Rockfish

Commercial landings data are from PacFIN and reflect activity across all management areas from January through September 5, 2023. Landing totals are 0.4 mt (Table 6) for the area between 42° - 40° 10' N. lat. and 1.6 mt (Table 6) for the area south of 40° 10' N. lat. The combined commercial and recreational values are within the area-specific ACT values for copper rockfish (Table 7). Landings across California continued to track similar to 2022 suggesting the sub-trip limits are effectively minimizing harvest in the commercial fishery. Reported catches are preliminary and subject to change as more data becomes available.

Total Quillback Take-To-Date Compared to Harvest Limits

In the sections above quillback rockfish take to date was provided for the recreational and commercial fisheries independently of each other, but quillback rockfish is currently managed under non-trawl sector harvest limits for the areas north and south of 40°10' N. lat. within California (Table 5). Combined quillback rockfish take to date for the area north of 40°10' N. lat. is 2.00 mt, or 230 percent of the ACT/ACL contribution (Table 6), and 190 percent of the OFL contribution for that area. For the area south of 40°10' N. lat., the combined quillback rockfish take to date is 2.12 mt, or 238 percent of the ACT/ACL contribution (Table 6), and 200 percent of the OFL contribution for that area.

Table 5. Area-specific quillback rockfish Annual Catch Targets (ACTs), Annual Catch Limit (ACL) contributions, Acceptable Biological Catch (ABC) contributions, and Overfishing Limit (OFL) contributions North and South of 40°10' N. lat. within California. Values were developed and adopted through the 2023-24 SPEX process. ACTs are published in [87 FR 77007](#), pg. 77021.

Area	2023 ACT (=ACL contribution) (mt)	ABC contribution (mt)	OFL contribution (mt)
North 40°10' N. lat.	0.87	0.91	1.05
South 40°10' N. lat.	0.89	0.93	1.06

Table 6. Best estimate of 2023 California quillback rockfish mortality (mt) in the recreational and commercial non-trawl fisheries. CRFS estimates through June, ACVs through August 27; commercial landings data retrieved from PacFIN September 5. Inseason catch estimates are compared to the 2023 quillback rockfish ACT/ACT contributions north and south of 40°10' N. lat.

Area	Recreational Take (mt)	Commercial Landings (mt)	Total Take (mt)	2023 ACT (=ACL contribution) (mt)	% Attainment
North 40°10' N. lat	1.75	0.25	2.00	0.87	230%
South 40°10' N. lat	1.84	0.28	2.12	0.89	238%

Appendix 1.

This appendix provides an update of the 2023 fishing season relative to Annual Catch Limits (ACLs), Harvest Guidelines (HGs), sector allocations, and Annual Catch Targets (ACTs) for the 2023-24 biennium. Catch includes estimates of total mortality (does not include ACVs) from the recreational sector, and landings from the commercial sector without discard mortality.

Commercial landings are from the non-trawl fixed gear limited entry and open access sectors, except for blackgill rockfish landings which include both trawl and non-trawl landings.

Monthly recreational catch estimates are from RecFIN through June 2023 and reflect activity across all recreational management areas (Table 7). Commercial landings data are from PacFIN and reflect activity across all management areas from January through September 5, 2023 (Table 8). Comparing cumulative year to date totals in 2023 to 2022, commercial and recreational take are higher for yelloweye rockfish (+1.8 mt), canary rockfish (+12.4 mt), shelf rockfish south of 40°10' N. lat. (+155.2 mt), vermilion rockfish south of 40°10' N. lat. (+74.2 mt), bocaccio rockfish (+79.3 mt), chilipepper rockfish south of 40°10' N. lat. (+60.7 mt), slope rockfish south of 40°10' N. lat. (+26.1 mt), lingcod south of 40°10' N. lat. (+1.3 mt), sablefish north of 36° N. lat. (+162.0 mt), and sablefish south of 36° N. lat. (+73.9 mt). Take of nearshore species (i.e., black rockfish, nearshore rockfish complex, and kelp greenling), widow rockfish, lingcod north of 40°10' N. lat. are lower than this time in 2022. CDFW will provide additional catch updates throughout 2023 as seasons progress. Reported catches are preliminary and subject to change as more data becomes available. The 2023 combined recreational and commercial catches are compared to federally designated harvest specifications in Table 9.

Table 7. Estimated catch (mt) of select groundfish species in the California recreational sector by month in 2023. Data are from RecFIN, are preliminary and subject to change.

Stock/Stock Complex	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
YELLOWEYE ROCKFISH ^a	-	-	-	-	0.6	1.8							2.4
CA Black rockfish ^a	-	0.0	0.1	0.2	10.4	24.9							35.6
Canary rockfish	-	-	0.0	0.2	3.8	8.5							12.5
Darkblotched rockfish	-	-	-	-	-	-							0.0
Shortbelly rockfish	-	-	-	-	-	-							0.0
Splitnose rockfish	-	-	-	-	-	-							0.0
Widow rockfish	-	-	-	0.4	0.4	1.5							2.3
Spiny dogfish	-	-	0.0	0.0	0.0	0.4							0.4
Dover sole	-	-	-	-	-	-							0.0
English sole	-	-	-	-	-	-							0.0
Petrale sole	-	0.1	0.3	0.3	1.7	4.0							6.3
Starry flounder	-	-	0.0	-	0.0	0.0							0.0
Other flatfish	2.9	1.3	1.0	1.4	15.3	4.5							26.4
CA Cabezon	0.1	0.1	0.0	0.1	0.7	1.2							2.1
CA Kelp greenling	0.0	0.0	0.2	0.3	0.1	0.1							0.7
Nearshore rockfish N. 42°-40°10' N. lat. ^b	-	-	0.0	0.0	1.0	2.4							3.4
Copper rockfish 42°-40°10' N. lat. ^a	-	-	0.0	0.0	0.3	0.9							1.2
Quillback rockfish 42°-40°10' N. lat. ^a	-	-	-	-	0.1	0.3							0.3
Shelf rockfish N. 40°10' N. lat.	-	-	-	-	0.2	0.9							1.2
Squarespot rockfish N. 40°10' N. lat.	-	-	-	-	-	-							0.0
Vermilion rockfish N. 40°10' N. lat.	-	-	-	-	0.2	0.9							1.1
Yellowtail rockfish N. 40°10' N. lat.	-	-	-	-	0.4	0.5							0.9
Slope rockfish N. 40°10' N. lat.	-	-	-	-	-	-							0.0
Lingcod N. 40°10' N. lat.	-	-	0.1	0.4	3.2	5.8							9.5
Nearshore rockfish S. 40°10' N. lat. ^b	0.2	0.1	0.0	8.2	19.8	21.7							49.9
Copper rockfish S. 40°10' N. lat. ^a	0.0	0.0	0.0	4.1	3.6	4.9							12.6
Quillback rockfish S. 40°10' N. lat. ^a	-	-	0.0	-	0.0	0.0							0.1
CA scorpionfish	5.3	3.5	4.7	9.1	7.9	17.7							48.1

Stock/Stock Complex	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Shelf rockfish S. 40°10' N. lat. ^c	0.0	0.1	0.0	51.5	85.1	114.2							250.9
Squarespot Rockfish S. 40°10' N. lat.	0.0	-	0.0	0.6	0.3	0.6							1.4
Vermilion rockfish S. 40°10' N. lat.	0.0	0.1	0.0	30.8	37.7	49.9							118.4
Bocaccio S. 40°10' N. lat.	-	0.0	0.0	17.7	35.2	40.4							93.4
Chilipepper S. 40°10' N. lat.	0.0	0.0	0.0	2.0	16.7	35.0							53.7
Cowcod S. 40°10' N. lat.	-	-	-	0.0	0.0	0.1							0.1
Slope rockfish S. 40°10' N. lat. ^d	-	-	-	2.2	4.1	2.6							8.9
Blackgill rockfish S. 40°10' N. lat.	-	-	-	-	-	0.0							0.0
Lingcod S. 40°10' N. lat.	0.0	0.0	0.0	3.1	15.5	18.1							36.7
Sablefish N. 36° N. lat.	-	0.0	0.3	0.0	1.0	5.6							7.0
Sablefish S. 36° N. lat.	-	-	0	0.0	-	0.3							0.3
Longspine thornyhead N 34° 27' N. lat.	-	-	-	-	-	-							0.0
Longspine thornyhead S 34° 27' N. lat.	-	-	-	-	-	-							0.0
Shortspine thornyhead N 34° 27' N. lat.	-	-	-	-	-	-							0.0
Shortspine thornyhead S 34° 27' N. lat.	-	-	-	-	-	-							0.0

Note: 0.0 indicates trace mortality; a dash (-) indicates no mortality.

a/ Totals for yelloweye rockfish, black rockfish, copper rockfish, and quillback rockfish are CRFS estimates only and do not include ACV projections.

b/ Includes catch of copper rockfish and quillback rockfish.

Includes catch of copper rockfish and quillback rockfish.

c/ Includes catch of copper rockfish and quillback rockfish.

d/ Does not include catch of blackgill rockfish south of 40°10' N. lat. due to a separate harvest limit from the slope rockfish complex south of 40°10' N. lat.

Table 8. Landings (mt) of select groundfish species in California commercial non-trawl fixed gear limited entry and open access sectors, except for blackgill rockfish landings which include trawl and non-trawl, by month in 2023. Data are from PacFIN, are preliminary and subject to change.

Stock/Stock Complex	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec	Total
YELLOWEYE ROCKFISH	--	--	--	--	--	0.0	0.0	--	--				0.0
CA Black rockfish	0.1	0.1	0.2	0.5	2.8	5.6	6.3	7.9	0.4				23.8
Canary rockfish	0.7	1.2	1.2	1.5	1.9	1.2	1.7	2.9	0.1				12.5
Darkblotched rockfish	--	--	--	--	0.0	0.0	0.0	0.1	--				0.2
Shortbelly rockfish	--	--	--	--	--	--	--	--	--				--
Splitnose rockfish	--	0.0	0.0	0.0	0.0	0.0	--	--	--				0.0
Widow rockfish	0.2	0.5	0.5	0.7	0.5	0.6	0.8	0.8	0.0				4.6
Spiny dogfish	0.1	0.0	--	0.0	0.0	0.1	0.2	0.3	--				0.7
Dover sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--				0.2
English sole	--	--	--	--	--	--	--	--	--				--
Petrale sole	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.0				0.6
Starry flounder	--	--	0.0	0.0	--	--	0.0	0.0	--				0.0
Other flatfish	0.0	0.1	0.2	0.4	0.3	0.3	0.1	0.0	0.0				1.5
CA Cabezon	0.5	1.0	0.9	3.1	3.8	2.5	2.6	2.9	0.2				17.5
CA Kelp greenling	0.1	0.1	0.1	0.1	0.2	0.2	1.2	0.1	0.0				2.1
Nearshore rockfish N. 42°-40°10' N. lat. ^a	--	--	--	0.2	0.6	0.5	1.1	1.0	0.1				3.5
Copper rockfish 42°-40°10' N. lat.	--	--	--	0.1	0.1	0.0	0.2	0.1	0.0				0.4
Quillback rockfish 42°-40°10' N. lat.	--	--	--	0.0	0.1	0.0	0.1	0.0	--				0.3
Shelf rockfish N. 40°10' N. lat. ^b	--	--	0.2	0.1	0.2	0.3	0.5	0.2	0.0				1.5
Squarespot Rockfish N. 40°10' N. lat.	--	--	--	--	--	--	--	--	--				--
Yellowtail rockfish N. 40°10' N. lat.	--	--	0.1	0.4	0.5	0.5	1.0	0.4	0.1				3.0
Slope rockfish N. 40°10' N. lat.	--	--	--	0.0	0.3	0.6	1.9	3.3	--				6.0
Lingcod N. 40°10' N. lat.	--	--	0.0	0.5	0.8	1.0	1.6	2.1	0.1				6.1
Nearshore rockfish S. 40°10' N. lat. ^a	1.5	3.1	2.6	6.4	8.9	11.1	9.3	13.5	1.2				57.6
Copper rockfish S. 40°10' N. lat.	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.2	0.0				1.6
Quillback rockfish S. 40°10' N. lat.	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	--				0.3
CA scorpionfish	0.1	--	--	0.1	0.6	1.0	0.6	0.3	--				2.7

Stock/Stock Complex	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec	Total
Shelf rockfish S. 40°10' N. lat. ^c	3.2	12.1	11.6	10.8	14.6	9.5	10.1	12.4	1.9				86.1
Squarespot Rockfish S. 40°10' N. lat.	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0				0.3
Vermilion rockfish S. 40°10' N. lat.	2.6	11.0	9.7	9.2	11.7	7.4	8.5	9.8	1.5				71.3
Bocaccio S. 40°10' N. lat.	3.0	3.2	3.9	6.8	7.8	7.5	7.1	7.2	0.3				46.7
Chilipepper S. 40°10' N. lat.	3.3	3.9	3.4	4.0	7.5	5.3	4.4	4.5	0.1				36.4
Cowcod S. 40°10' N. lat.	--	--	--	--	--	--	--	--	--				--
Slope rockfish S. 40°10' N. lat. ^d	1.8	3.4	1.1	3.2	1.6	3.0	2.7	2.6	0.8				20.2
Blackgill rockfish S. 40°10' N. lat. ^e	2.7	5.7	2.9	2.7	2.3	2.1	5.2	3.1	0.7				27.5
Lingcod S. 40°10' N. lat.	0.4	0.9	1.8	2.5	2.8	2.7	2.2	3.7	0.4				17.4
Sablefish N. 36° N. lat.	10.9	29.0	60.2	78.1	77.1	65.5	65.4	112.3	15.6				514.1
Sablefish S. 36° N. lat.	13.5	23.0	26.1	20.1	31.3	19.7	20.9	24.4	4.0				182.9
Longspine thornyhead N 34° 27' N. lat.	0.1	0.2	0.1	0.1	0.3	0.2	0.2	0.3	0.1				1.6
Longspine thornyhead S 34° 27' N. lat.	0.5	0.3	0.5	0.5	0.7	0.4	0.4	0.4	0.0				3.8
Shortspine thornyhead N 34° 27' N. lat.	1.3	1.9	1.8	1.8	2.0	1.3	1.6	2.8	0.8				15.4
Shortspine thornyhead S 34° 27' N. lat.	2.4	1.8	2.3	2.2	3.7	2.0	1.4	1.4	0.4				17.7

Landing estimates do not include discard mortality. 0.0 indicates trace landings; a dash (-) indicates no landings.

a/ Includes landings of copper rockfish and quillback rockfish.

b/Includes landings of squarespot rockfish

c/ Includes landings of vermilion rockfish and squarespot.

d/ Does not include landings of blackgill rockfish south of 40°10' N. lat. due to a separate harvest limit from the slope rockfish complex south of 40°10' N. lat.

e/ Blackgill rockfish south of 40°10' N. lat. landings include both trawl and non-trawl sectors.

Table 9. Estimated take (mt) of select groundfish species in California for 2023 compared to the harvest limits for 2023.

Stock/Stock Complex	Reference Point	Recreational Mortality (mt)	Commercial Landings (mt)	Total (mt)	Tracking Limits	Percent Attainment
YELLOWEYE ROCKFISH ^a	ACT (CA rec)	2.4	0.0	2.4	12.0	20.2%
CA Black rockfish ^a	ACL	35.6	23.8	59.5	334.0	17.8%
Canary rockfish	HG (rec)	12.5	12.5	25.0	111.7	22.4%
Darkblotched rockfish	Non-Trawl Allocation	0.0	0.2	0.2	38.1	0.5%
Shortbelly rockfish	EC Species Threshold ^b	0.0	--	0.0	2,000.0	0.0%
Splitnose rockfish	Non-Trawl Allocation	0.0	0.0	0.0	78.7	0.0%
Widow rockfish	Non-Trawl Allocation	2.3	4.6	6.9	400.0	1.7%
Spiny dogfish	Fishery Harvest Guideline	0.4	0.7	1.0	1,241.0	0.1%
Dover sole	Non-Trawl Allocation	0.0	0.2	0.2	2,420.1	0.0%
English sole	Non-Trawl Allocation	0.0	--	0.0	437.9	0.0%
Petrale sole	Non-Trawl Allocation	6.3	0.6	6.9	30.0	23.2%
Starry flounder	Non-Trawl Allocation	0.0	0.0	0.0	171.9	0.0%
Other flatfish	Non-Trawl Allocation	26.4	1.5	27.9	464.1	6.0%
CA Cabezon	ACL	2.1	17.5	19.6	182.0	10.8%
CA Kelp greenling	^c	0.7	2.1	2.8	92.5	3.0%
Nearshore rockfish N. 42°-40°10' N. lat. ^d	HG (CA Share) ^c	3.4	3.5	6.9	39.6	17.4%
Copper rockfish 42°-40°10' N. lat. ^a	ACL Contribution to Complex	1.2	0.4	1.60	6.9	23.1%
Quillback rockfish 42°-40°10' N. lat. ^a	ACL Contribution to Complex	0.3	0.3	0.6	0.9	66.3%
Shelf rockfish N. 40°10' N. lat. ^f	Non-Trawl Allocation	1.2	1.5	1.7	482.4	0.0%
Squarespot Rockfish N. 40°10' N. lat.	^g	--	--	0.0	--	0.0%
Vermilion rockfish N. 40°10' N. lat.	^g	1.1	0.9	2.0	6.5	31.7%
Yellowtail rockfish N. 40°10' N. lat.	Non-Trawl Allocation	0.9	3.0	3.9	556.6	0.7%
Slope rockfish N. 40°10' N. lat.	Non-Trawl Allocation	0.0	1.8	1.8	280.2	0.6%
Lingcod N. 40°10' N. lat.	Non-Trawl Allocation	9.5	6.1	15.6	2,254.1	0.7%
Nearshore rockfish S. 40°10' N. lat. ^d	ACL	49.9	57.6	107.4	886.0	12.1%
Copper rockfish S. 40°10' N. lat. ^a	ACL Contribution to Complex	12.6	1.6	14.1	84.6	16.7%
Quillback rockfish S. 40°10' N. lat. ^a	ACL Contribution to Complex	0.1	0.3	0.4	0.9	40.1%

Stock/Stock Complex	Reference Point	Recreational Mortality (mt)	Commercial Landings (mt)	Total (mt)	Tracking Limits	Percent Attainment
CA scorpionfish	ACL	48.1	2.7	50.8	262.0	19.4%
Shelf rockfish S. 40°10' N. lat. ^b	Non-Trawl Allocation	250.9	86.1	337.0	1,173.2	28.7%
Squarespot Rockfish S. 40°10' N. lat.	ACL Contribution to Complex	1.4	0.3	1.7	9.7	17.2%
Vermilion rockfish S. 40°10' N. lat.	ACL Contribution to Complex	118.4	71.3	189.7	281.3	67.4%
Bocaccio S. 40°10' N. lat.	Non-Trawl Allocation	93.4	46.7	140.1	1,093.5	12.8%
Chilipepper S. 40°10' N. lat.	Non-Trawl Allocation	53.7	36.4	90.1	521.3	17.3%
Cowcod S. 40°10' N. lat.	Non-Trawl Allocation	0.1	--	0.1	44.1	0.1%
Slope rockfish S. 40°10' N. lat. ⁱ	Non-Trawl Allocation	8.9	20.2	29.1	245.0	11.9%
Blackgill rockfish S. 40°10' N. lat. ^j	HG	0.0	27.5	27.5	172.4	16.0%
Lingcod S. 40°10' N. lat.	Non-Trawl Allocation	36.7	17.4	54.1	426.3	12.7%
Sablefish N. 36° N. lat.	Non-Trawl Allocation	7.0	514.1	521.1	6,885.0	7.6%
Sablefish S. 36° N. lat.	Non-Trawl Allocation	0.3	182.9	183.2	1,340.0	13.7%
Longspine thornyhead N 34° 27' N. lat.	Non-Trawl Allocation	0.0	1.6	1.6	112.1	1.4%
Longspine thornyhead S 34° 27' N. lat.	ACL	0.0	3.8	3.8	725.0	0.5%
Shortspine thornyhead N 34° 27' N. lat.	Non-Trawl Allocation	0.0	15.4	15.4	64.0	24.1%
Shortspine thornyhead S 34° 27' N. lat.	Non-Trawl Allocation	0.0	17.7	17.7	662.3	2.7%

a/ Recreational totals for yelloweye rockfish, black rockfish, copper rockfish, and quillback rockfish are CRFS estimates only and do not include ACV projections.

b/ Shortbelly rockfish is an ecosystem component species and has a threshold of 2,000 lb as per FMP Amendment 30

c/ Reference point denotes the CA kelp greenling contribution to the Other Fish complex ACL.

d/ Includes catch of copper rockfish and quillback rockfish

e/ The nearshore complex north of 40°10' N lat. HG is 89.7 mt. The CA share of the HG is 39.6 mt.

f/Includes catch of squarespot rockfish and vermilion rockfish

g/ Squarespot rockfish north of 40°10' N. lat. has no species-specific contribution within the Shelf Rockfish Complex north of 40°10' N. lat.

h/ Includes catch of vermilion rockfish and squarespot rockfish

i/ Does not include blackgill rockfish landings south of 40°10' N. lat. due to a separate harvest limit from the slope rockfish complex south of 40°10' N. lat.

j/ Blackgill rockfish south of 40°10' N. lat. commercial landings include both trawl and non-trawl sector