

CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE REPORT
ON 2024 GROUND FISH HARVEST IN CALIFORNIA

The California Department of Fish and Wildlife (CDFW) provides the following report on harvest of select groundfish species of interest in 2024. 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 values over rows or columns within tables may not equal the total value.

Recreational Yelloweye Rockfish Catch Update

The California recreational yelloweye rockfish harvest guideline (HG) is set at 11.8 mt, with an Annual Catch Target (ACT) of 9.3 mt in 2024. The best estimate of total mortality for yelloweye rockfish in the California recreational fishery through October 27 incorporates California Recreational Fisheries Survey (CRFS) estimates from January through August, and weekly Anticipated Catch Value (ACV) data through October 27. The best estimate of total mortality is 3.17 mt, which is well within the California recreational yelloweye rockfish ACT and is not projected to exceed the limit.

Quillback Rockfish

For 2024, quillback 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 0.96 mt for the area between 42° - 40°10' N. lat. and 0.97 mt for the area south of 40°10' N. lat. Catch updates to-date are within the area-specific ACT values for quillback rockfish and are not currently projected to exceed the limits.

Recreational Quillback Catch Update

The best estimate of total mortality for quillback rockfish in the California recreational fishery through October 27 incorporates CRFS estimates from January through August, and weekly ACV data through October 27. The best estimate of total mortality for the area between 42° - 40°10' N. lat. is 0.46 mt, and 1.04 mt for the area south of 40°10' N. lat. Although the current catch update for the area south of 40°10' N. lat. is 107 percent of the ACT, the ACVs for quillback rockfish have been considerably over-projecting CRFS estimates this year and once estimates for September are available, the projected mortality for the recreational fishery in this area is expected to be under the ACT. The fishery appears to be adapting effectively to quillback rockfish being a prohibited species. Field survey reports indicate excellent angler compliance with non-retention; statewide 96 percent of encountered quillback rockfish are reported as released, and with the relatively shallow depth restrictions during the summer months, offshore only restrictions in October and December and new requirement that anglers possess a descending device, discard mortality estimates should be lower than in prior years for the same number of encountered fish. Management appears to be working as intended, and CDFW expects final 2024 mortality of quillback rockfish for the recreational sector to remain within the area-specific ACTs.

Non-Trawl Commercial Quillback Landings

There have been no reported landings of quillback rockfish in the California non-trawl commercial fishery since retention of quillback rockfish was prohibited in August 2023.

Copper Rockfish

For 2024, 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 6.99 mt for the area between 42° - 40°10' N. lat. and 87.73 mt for the area south of 40°10' N. lat. Catch updates to-date (discussed below) are within the area-specific ACT values for copper rockfish and are not currently projected to exceed the limits.

Recreational Copper Rockfish Catch Update

The best estimate of total mortality for copper rockfish in the California recreational fishery through October 27 incorporates CRFS estimates from January through August, and weekly ACV data through October 27. The best estimate of total mortality for the area between 42° - 40°10' N. lat. is 3.15 mt, and 31.16 mt for the area south of 40°10' N. lat.

Non-Trawl Commercial Copper Rockfish Landings

Landing totals are 0.1 mt (Table 2) for the area between 42° - 40° 10' N. lat. and 1.2 mt (Table 2) for the area south of 40° 10' N. lat. Landings across California remain similar to what we have seen each year since the sub-trip limits were implemented in 2022, suggesting they are effectively minimizing harvest in the commercial fishery. Reported landings are preliminary and subject to change as more data becomes available.

Vermilion Rockfish Catch Update

Recreational CRFS estimates for the area south of 40°10' N. lat. through August indicate 92.5 mt of vermilion rockfish mortality have occurred, and commercial non-trawl landings to date indicate 76.2 mt. Combined (167.8 mt) the total non-trawl mortality is expected to remain within the non-trawl ACL contribution of the complex through the end of year, suggesting management actions to reduce vermilion mortality south of 40°10' N. lat. have been successful. North of 40°10' N. lat. commercial landings are 0.4 mt and recreational mortality is 3.0 mt for a total of 3.5 mt (Table 3). Mortality in the northern area has exceeded the area specific non-trawl ACL contribution of the complex (2.6 mt) but total mortality to the California stock of vermilion rockfish from all sectors combined remains within the stock-specific ACL for California vermilion rockfish (287.9 mt), if that had been established as an accountability measure in the final rule implementing the 2023-2024 biennial specifications.

Non-Trawl Commercial Fishery Comparison to 2023

State and federal regulatory actions taken to reduce contact with quillback rockfish have resulted in limited access to co-occurring nearshore and shelf stocks in inshore waters. This has resulted in effort and targeting shifting to shelf and slope rockfishes that has resulted greater mortality for some species than in previous years.

North of 40°10' N. lat.

Landings of nearshore rockfish north of 40°10' N. lat. are half of what they were this time last year. Similarly, vermilion rockfish landings are down by 75% and lingcod are down by 90%. Industry members report these declines are a direct response to the state's actions to close state waters to commercial groundfish fishing, except for stocks authorized under the state's Nearshore and Deeper Nearshore Fishery Permits.

South of 40°10' N. lat.

Landings between 40°10' N. lat. and 37°07' N. lat. have also been impacted by the closures to

protect quillback rockfish. South of 40°10' N. lat. lingcod landings are down by 46%. Conversely, some commercial landings in the south have increased substantially, catch is higher for bocaccio rockfish (189%), chilipepper rockfish (139%), and slope rockfish landings have nearly doubled. Additionally, sablefish both north of 36°N. lat., and south of 36°N. lat. has increased since September and are comparable to landings this time last year, whereas shortspine thornyhead south of 34°27' N. lat. are higher than this time in 2023. Reported landings are preliminary and subject to change as more data become available.

Appendix 1.

This appendix provides the most current California harvest information for the 2024 fishing season relative to Annual Catch Limits (ACLs), Harvest Guidelines (HGs), sector allocations, and Annual Catch Targets (ACTs) for 2024. 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 data are from RecFIN through August 2024 and reflect activity across all recreational management areas (Table 1). Commercial landings data are from PacFIN and reflect activity across all management areas from January through September 1, 2024 (Table 2). Reported mortality is preliminary and subject to change as more data becomes available. The 2024 combined recreational and commercial catches are compared to federally designated harvest specifications in Table 3.

Table 1. Estimated catch (mt) of select groundfish species in the California recreational sector by month in 2024. Data are from RecFIN, are preliminary and subject to change. Note: 0.0 indicates trace mortality; a dash (--) indicates no mortality.

Stock/Stock Complex	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Yelloweye rockfish ^a	-	-	-	0.3	0.2	0.1	0.6	0.4					1.6
CA Black rockfish ^a	0.0	0.0	0.0	0.1	15.7	19.7	48.3	35.4					119.3
Canary rockfish	-	-	0.0	4.0	2.7	1.9	3.9	4.5					17.0
Darkblotched rockfish	-	-	-	-	-	-	-	-					0.0
Shortbelly rockfish	0.0	-	-	-	-	-	-	-					0.0
Splitnose rockfish	-	-	-	-	-	-	-	-					0.0
Widow rockfish	-	-	-	0.6	0.1	0.0	0.2	0.3					1.2
Spiny dogfish	0.1	-	0.0	-	0.0	0.1	0.5	0.7					1.5
Dover sole	-	-	-	-	-	-	0.0	-					0.0
English sole	-	-	-	-	-	-	-	-					0.0
Petrale sole	0.0	-	0.2	1.4	0.3	0.8	2.0	2.8					7.4
Starry flounder	-	-	0.0	0.0	0.0	0.0	0.1	0.0					0.3
Other flatfish	0.3	0.7	0.9	2.0	1.6	1.4	4.6	4.5					16.0
CA Cabezon	0.1	0.1	0.1	0.1	2.8	2.1	5.0	5.1					15.4
CA Kelp greenling	0.0	0.1	0.0	0.1	0.2	0.1	0.3	0.4					1.1
Nearshore rockfish N. 42°-40°10' N. lat. ^b	-	0.0	-	-	0.8	1.5	3.8	4.3					10.4
Copper rockfish 42°-40°10' N. lat. ^a	-	0.0	-	-	0.2	0.5	1.1	0.8					2.7

Stock/Stock Complex	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Quillback rockfish 42°-40°10' N. lat. ^a	-	-	-	-	0.0	0.0	0.2	0.1					0.3
Shelf rockfish N. 40°10' N. lat. ^c	-	-	-	0.0	0.4	0.6	0.8	1.4					3.2
Squarespot rockfish N. 40°10' N. lat.	-	-	-	-	-	-	-	-					0.0
Vermilion rockfish N. 40°10' N. lat.	-	-	-	-	0.4	0.6	0.7	1.2					3.0
Yellowtail rockfish N. 40°10' N. lat.	-	-	-	0.3	0.0	0.2	0.2	0.2					0.8
Slope rockfish N. 40°10' N. lat.	-	-	-	-	-	-	-	-					0.0
Lingcod N. 40°10' N. lat.	-	-	0.0	0.1	3.0	6.4	8.3	10.1					27.9
Nearshore rockfish S. 40°10' N. lat. ^b	0.1	0.1	0.3	5.9	29.9	29.4	66.9	60.4					193.0
Copper rockfish S. 40°10' N. lat. ^a	0.0	0.0	0.0	3.1	3.0	4.3	7.1	7.7					25.4
Quillback rockfish S. 40°10' N. lat. ^a	-	-	-	-	0.0	0.0	0.2	0.2					0.4
CA scorpionfish	3.4	6.5	8.3	4.4	18.2	38.0	15.7	39.1					133.5
Shelf rockfish S. 40°10' N. lat. ^c	0.1	0.2	0.4	40.0	37.9	26.4	30.7	23.0					158.7
Mexican Rockfish S. 40°10' N. lat	-	-	-	2.5	3.8	6.8	0.4	0.1					13.6
Squarespot Rockfish S. 40°10' N. lat.	-	0.0	0.0	0.8	0.5	0.1	0.2	0.2					1.9
Vermilion rockfish S. 40°10' N. lat.	0.1	0.2	0.3	20.6	23.0	12.2	19.8	16.4					92.5
Bocaccio S. 40°10' N. lat.	-	0.0	0.0	17.5	25.3	11.9	11.8	12.1					78.6
Chilipepper S. 40°10' N. lat.	0.0	-	0.0	8.6	5.4	2.8	3.2	0.5					20.5
Cowcod S. 40°10' N. lat.	-	-	-	0.7	0.2	0.2	0.3	-					1.3
Slope rockfish S. 40°10' N. lat. ^d	-	-	-	3.8	5.3	0.4	-	0.0					9.5
Blackgill rockfish S. 40°10' N. lat.	-	-	-	-	0.0	0.0	-	-					0.0
Lingcod S. 40°10' N. lat.	0.0	0.1	0.0	6.5	15.8	16.8	33.4	40.7					113.3
Sablefish N. 36° N. lat.	-	-	-	0.1	0.0	0.0	1.0	0.1					1.2
Sablefish S. 36° N. lat.	-	-	0.0	0.1	0.0	0.1	0.1	0.3					0.5
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	0.0					0.0
Shortspine thornyhead S 34° 27' N. lat.	-	-	-	-	-	-	-	-					0.0

a/ Totals for yelloweye 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.

c/ Includes catch of squarespot rockfish and vermilion rockfish in both areas and Mexican rockfish for the area South of 40°10' N. lat..

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 2. 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 2024. Data are from PacFIN (11/01/2024), are preliminary and subject to change.

Stock/Stock Complex	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec	Total
Yelloweye rockfish	--	--	--	--	--	--	--	--	--	--			--
CA Black rockfish	0	0.1	0.3	1.1	1.5	4.5	6.3	7	3.4	3.4			27.5
Canary rockfish	1.1	1.1	1.2	1.3	0.7	2.5	2	1.8	2.2	2.5			16.4
Darkblotched rockfish	--	--	0	0	0.1	0.1	0.1	0.1	0.1	0			0.5
Shortbelly rockfish	--	--	--	--	--	--	--	--	--	--			--
Splitnose rockfish	0	0	0	0	--	0	--	0	0	0			0.1
Widow rockfish	0.4	0.9	0.6	0.8	1.6	1.1	1.4	1.5	1.2	1			10.6
Spiny dogfish	0	0	--	--	--	0	0.1	0.1	0	0.6			0.8
Dover sole	0	0	0	0	0	0.1	0.1	0	0.1	0			0.4
English sole	--	--	--	--	--	--	--	--	--	--			--
Petrale sole	0.2	0.2	0	0	0	0	0	0	0	0			0.6
Starry flounder	--	0	--	--	--	0	0	--	0	--			0.1
Other flatfish	0.2	0	0	0	0.1	0.1	0.2	0	0	0.2			0.9
CA Cabezon	1.8	1.4	1.9	2.8	2.3	2.3	3.2	1.7	2.6	1.8			21.8
CA Kelp greenling	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.2			1.3
Nearshore rockfish N. 42°-40°10' N. lat. ^a	--	--	0.2	0.1	0	0.4	0.5	0.8	0.4	0.9			3.3
Copper rockfish 42°-40°10' N. lat.	--	--	--	0	0	0	0.1	0	0	0			0.1
Quillback rockfish 42°-40°10' N. lat.	--	--	--	--	--	--	--	--	--	--			--
Shelf rockfish N. 40°10' N. lat. ^b	--	0	0			0.3	0.3	0.5	1.4	0.2			2.7
Squarespot Rockfish N. 40°10' N. lat.	--	--	--	--	--	--	--	--	--	--			--
Vermilion rockfish N. 40°10' N. lat.	--	0	--	--	--	0.1	0	0.1	0.1				0.4
Yellowtail rockfish N. 40°10' N. lat.	0.2	0.4	0.1	0	0.1	0.1	0.5	1.4	0.5	0.2			3.5
Slope rockfish N. 40°10' N. lat.	--	--	0	0	0	0.5	0.4	1.8	1.1	0.4			4.2
Lingcod N. 40°10' N. lat.	--	--	--	0	--	0.3	0	0.3	0.2	0.2			1.1
Nearshore rockfish S. 40°10' N. lat. ^a	2.9	3.9	4	6.5	6.9	7.4	11.3	9.6	9.8	8.7			71
Copper rockfish S. 40°10' N. lat.	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2			1.2
Quillback rockfish S. 40°10' N. lat.	--	--	--	--	--	--	--	--	--	--			--
CA scorpionfish	--	--	--	--	0.3	0.2	0.2	0.2	--	0			0.9

Stock/Stock Complex	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec	Total
Shelf rockfish S. 40°10' N. lat. ^b	12.8	10.9	10.2	10.6	11.7	12.2	9.7	12	11.9	12.7			114.6
Mexican Rockfish S. 40°10' N. lat.	0.3	0.4	0.9	0.6	0.9	0.7	0.6	0.9	0.4	0.4			6.1
Squarespot Rockfish S. 40°10' N. lat.	0	0	0	0	0	0	0	0	0	0			0.2
Vermilion rockfish S. 40°10' N. lat.	9.6	7	6.8	7.5	7.2	8.5	6.4	7.9	7.3	7.9			76.2
Bocaccio S. 40°10' N. lat.	10.7	8.8	8.1	5.2	8.2	5.9	14.8	12.6	15.4	11.9			101.6
Chilipepper S. 40°10' N. lat.	3.9	4.3	7.7	4.2	5.2	4.7	8.8	5.1	6.3	5.6			55.8
Cowcod S. 40°10' N. lat.	--	--	--	--	--	--	--	--	--	--			--
Slope rockfish S. 40°10' N. lat. ^c	3.9	3.8	3.8	4.3	6	4.6	4.5	5.3	6.9	6.5			49.5
Blackgill rockfish S. 40°10' N. lat. ^d	2.4	2.3	2.8	3.6	4.5	2.7	2.7	4.2	5	4.3			34.4
Lingcod S. 40°10' N. lat.	0.9	1.1	1	1.9	1.5	1.5	1.3	1.3	2	2.1			14.6
Sablefish N. 36° N. lat.	27.3	25.9	35	46.6	41	54.2	70.5	99	92.3	90.9			582.7
Sablefish S. 36° N. lat.	11.9	12.9	16.9	17.8	14.4	14.6	14.3	12.2	13.4	19.8			148.2
Longspine thornyhead N 34°27' N. lat.	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.4	0.3	0.1			1.9
Longspine thornyhead S 34°27' N. lat.	0.4	0.1	0.2	0.4	0.4	0.4	0.3	0.5	0.5	0.3			3.6
Shortspine thornyhead N 34°27' N. lat.	1.9	1.4	1.9	1.8	2.2	1.8	1.5	3.2	4.7	3.2			23.6
Shortspine thornyhead S 34°27' N. lat.	2.5	2.2	1.5	3.1	3.5	3.5	2.3	2.9	2.9	3.5			27.8

Note: 0.0 indicates trace mortality. 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 Mexican rockfish, vermilion rockfish, and squarespot rockfish

c/ 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.

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

Table 3. Estimated mortality (mt) of select groundfish species in California for 2024 compared to the harvest limits for 2024.

Stock/Stock Complex	Reference Point	Recreational Mortality (mt)	Commercial non-trawl Landings (mt)	Total (mt)	Tracking Limits	Percent Attainment
Yelloweye rockfish ^a	ACT (CA rec) ^b	1.6	--	1.6	9.3	17.6%
CA Black rockfish ^a	ACL	119.3	27.5	146.8	229.0	64.1%
Canary rockfish	HG (rec) ^b	17.0	16.4	17.0	112.9	15.1%
Darkblotched rockfish	Non-Trawl Allocation	0.0	0.5	0.5	37.9	1.3%
Shortbelly rockfish	EC Species Threshold ^c	0.0	--	0.0	2,000.0	0.0%
Splitnose rockfish	Non-Trawl Allocation	0.0	0.1	0.1	76.7	0.1%
Widow rockfish	Non-Trawl Allocation	1.2	10.6	11.8	400.0	3.0%
Spiny dogfish	Fishery Harvest Guideline	1.5	0.8	2.3	1,055.5	0.2%
Dover sole	Non-Trawl Allocation	0.0	0.4	0.4	2,420.1	0.0%
English sole	Non-Trawl Allocation	0.0	--	0.0	435.0	0.0%
Petrale sole	Non-Trawl Allocation	7.4	0.6	8.0	30.0	26.6%
Starry flounder	Non-Trawl Allocation	0.3	0.1	0.4	171.9	0.2%
Other flatfish	Non-Trawl Allocation	16.0	0.9	16.9	465.3	3.6%
CA Cabezon	ACL	15.4	21.8	37.2	171.0	21.8%
CA Kelp greenling	^d	1.1	1.3	2.4	92.5	2.6%
Nearshore rockfish N. 42°-40°10' N. lat. ^e	HG (CA Share) ^f	10.4	3.3	13.7	39.9	34.2%
Copper rockfish 42°-40°10' N. lat. ^a	ACL Contribution to Complex	2.7	0.1	2.8	7.0	39.5%
Quillback rockfish 42°-40°10' N. lat. ^a	ACL Contribution to Complex	0.3	--	0.3	1.0	32.0%
Shelf rockfish N. 40°10' N. lat. ^g	Non-Trawl Allocation	3.2	2.7	5.9	480.4	1.2%
Squarespot Rockfish N. 40°10' N. lat.	^h	0.0	--	0.0	4.7	0.0%
Vermilion rockfish N. 40°10' N. lat.	Non-Trawl ACL Contribution to Complex	3.0	0.4	3.4	2.6	130.1%
Yellowtail rockfish N. 40°10' N. lat.	Non-Trawl Allocation	0.8	3.5	4.3	543.9	0.8%
Slope rockfish N. 40°10' N. lat.	Non-Trawl Allocation	0.0	4.2	4.2	275.6	1.5%
Lingcod N. 40°10' N. lat.	Non-Trawl Allocation	27.9	1.1	29.0	1,965.9	1.5%
Nearshore rockfish S. 40°10' N. lat. ^e	ACL	193.0	71	264.0	891.0	29.6%

Stock/Stock Complex	Reference Point	Recreational Mortality (mt)	Commercial non-trawl Landings (mt)	Total (mt)	Tracking Limits	Percent Attainment
Copper rockfish S. 40°10' N. lat. ^a	ACL Contribution to Complex	25.4	1.2	26.6	87.7	30.3%
Quillback rockfish S. 40°10' N. lat. ^a	ACL Contribution to Complex	0.4	--	0.4	1.0	42.1%
CA scorpionfish	ACL	133.5	0.9	134.4	252.0	53.3%
Shelf rockfish S. 40°10' N. lat. ^g	Non-Trawl Allocation	158.7	114.6	273.3	1,169.0	23.4%
Mexican Rockfish S. 40°10' N. lat.	Non-Trawl ACL Contribution to Complex	13.6	6.1	19.7	3.4	578.2%
Squarespot Rockfish S. 40°10' N. lat.	Non-Trawl ACL Contribution to Complex	1.9	0.2	2.1	8.4	25.0%
Vermilion rockfish S. 40°10' N. lat.	Non-Trawl ACL Contribution to Complex	92.5	76.2	168.7	247.0	68.3%
Bocaccio S. 40°10' N. lat.	Non-Trawl Allocation	78.6	101.6	180.2	749.7	24.0%
Chilipepper S. 40°10' N. lat.	Non-Trawl Allocation	20.5	55.8	76.3	505.9	15.1%
Cowcod S. 40°10' N. lat.	Non-Trawl Allocation	1.3	--	1.3	43.4	3.0%
Slope rockfish S. 40°10' N. lat. ⁱ	Non-Trawl Allocation	9.5	49.5	59.0	243.5	24.2%
Blackgill rockfish S. 40°10' N. lat. ^j	HG	0.0	34.4	34.4	170.0	20.2%
Lingcod S. 40°10' N. lat.	Non-Trawl Allocation	113.3	14.6	127.9	423.9	30.2%
Sablefish N. 36° N. lat.	Non-Trawl Allocation	1.2	582.7	583.9	6,309.0	9.3%
Sablefish S. 36° N. lat.	Non-Trawl Allocation	0.5	148.2	148.7	1,256.0	11.8%
Longspine thornyhead N 34° 27' N. lat.	Non-Trawl Allocation	0.0	1.9	1.9	105.4	1.8%
Longspine thornyhead S 34° 27' N. lat.	ACL	0.0	3.6	3.6	683.0	0.5%
Shortspine thornyhead N 34° 27' N. lat.	Non-Trawl Allocation	0.0	23.6	23.6	62.5	37.8%
Shortspine thornyhead S 34° 27' N. lat.	Non-Trawl Allocation	0.0	27.8	27.8	645.3	4.3%

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

b/The tracking limit for yelloweye and canary rockfish only includes the recreational limits as there are no state specific HG's or ACT for the non-trawl commercial sector.

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

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

e/ Includes catch of copper rockfish and quillback rockfish

f/ The nearshore complex north of 40°10' N lat. HG is 87.7 mt. The CA share of the HG is 39.9 mt.

g/ Includes catch of squarespot rockfish and vermilion rockfish in all areas and Mexican rockfish for the area south of 40°10' N. lat.

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

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.