CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE REPORT ON LINGCOD SOUTH OF 40°10' N. LAT.

At the March 2019 meeting, the Pacific Fishery Management Council (Council) discussed the recreational lingcod bag limit south of 40°10' N lat., and the projected catches against established reference points. At that time, complete 2018 catch data was not available to evaluate catch projections against the 2019 and 2020 non-trawl allocation. The Council requested CDFW provide updated catch projections at the April Council meeting.

Background

The lingcod Harvest Guideline south of 40°10' N lat. is formally allocated between the trawl and nontrawl sectors, as determined by the Amendment 21 Intersector allocation scheme. While the trawl sector has harvested less than 10 percent of its allocation each year from 2013 through 2018, the non-trawl sector has had high attainment in these years and exceeded its allocation in 2015 and 2016 (Table 1). In 2017, a less optimistic outlook for the southern portion of the stock resulted in harvest limit reductions for 2019 and 2020 for both the trawl and non-trawl sectors, consistent with the Amendment 21 allocations.

Table 1. Harvest specification	ons, allocations, and catch for lingcod south of 40°10' N lat. for 2013-2020 (mt) for the
trawl and non-trawl sectors.	Data are from RecFIN, CA Marine Landings Database System (MLDS), and WCGOP.

Year	ACL	Harvest Guideline	Trawl Alloc.	Trawl catch	% of Trawl Alloc.	Non-Trawl Alloc.	Non-Trawl catch	% of Non- Trawl Alloc.
2013	1,111	1,102	495.9	13.7	2.8%	606.1	417.6	68.9%
2014	1,063	1,054	474.3	16.1	3.4%	579.7	550.3	94.9%
2015	1,004	995	447.7	29.1	6.5%	547.2	685.0	125.2%
2016	946	937	421.3	21.8	5.2%	515.3	639.2	124.0%
2017	1,251	1,242	558.9	22.6	4.0%	683.1	514.9	75.4%
2018	1,144	1,135	510.8	43.8	8.6%	624.3	522.4	83.7%
2019	1,039	1,028	462.5			565.2		
2020	869	858	386			471.7		

Analyses completed in January 2018 for the 2019-2020 specifications and management measures suggested that reducing both the recreational bag limit to one fish and the open access (OA) commercial trip limits would be needed to ensure impacts did not exceed the non-trawl allocation in 2020 (Table 2). Those analyses utilized fishery data from 2015-2016, the most recent fishery data available at the time.

Table 2. Non-trawl recreational lingcod bag limit, recreational and non-trawl commercial catch, and harvest limits south of 40°10' N lat. from 2005-2018, and projections for 2019-2020 made in 2017. Data are from RecFIN, CA MLDS, and WCGOP.

Year	Bag Limit	Rec. Catch	Com. Non- Trawl Catch ¹	Total Non- Trawl Catch ¹	Non-Trawl Alloc ¹	Non-Trawl Attainment ¹	
2005	2	333.0					
2006	2	270.0					
2007	2	137.8					
2008	2	84.6					
2009	2	97.7					
2010	2	79.7					
2011	2	187.7					
2012	2	235.4					
2013	2	381.3	36.3	417.6	606	69%	
2014	2	492.4	57.9	550.3	579	95%	
2015	3	602.9	82.1	685.0	547.2	125%	
2016	3	582.9	59.4	639.2	515.3	124%	
2017	2	446.8	58.3	506.6	683.1	73.9 %	
2018	2	331.2	52.6	383.8	624.3	61.5%	
2019	1(2)	$315.3(422.4)^2$	50.1 ²	$365.4(472.5)^2$	565.2	$64.6\%(83.6\%)^2$	
2020	1(2)	$315.3(422.4)^2$	50.1 ²	$365.4(472.5)^2$	471.7	$77.5\% (100.2\%)^2$	

¹ Prior to 2013 the non-trawl lingcod allocation was allocated north and south of the Oregon/California border ($42^{\circ}N$ lat.) and sub-allocations north and south of $40^{\circ}10^{\circ}$ N lat. did not exist. During this time lingcod was tracked for the entire state of California.

² Projected amount of catch in *italics*; recreational projections are from the RecFISH model. For 2019 and 2020, recreational catch values outside parentheses indicate projected catch based on a one fish bag limit and catch values inside parentheses indicate projected catch based on a two fish bag limit.

Updated Catch Projections

CDFW offers the following updated catch projections for 2019 and 2020 (Table 3), which include the updated catch information through 2018 shown in Table 2. Under status-quo regulations, the total non-trawl attainment is projected to be well under the non-trawl allocation both in 2019 and 2020 (46.6 and 55.9 percent, respectively).

CDFW also modeled projected non-trawl impacts under a scenario that would offer commensurate increases to fishing opportunities for both the commercial and recreational sectors. These increases are within those previously analyzed and have already been put forward for inseason consideration, or are reasonably anticipated to be put forward for consideration at future meetings. When modeling this scenario, the following assumptions were made:

- 1. The increased opportunities modeled for 2019 were assumed to be effective by June 1, 2019
- 2. Established bag and trip limit tools were coupled with recent catch information
- 3. A recreational bag limit of two fish
- 4. OA gear monthly trip limits of 500 pounds throughout the year (see attached trip limit table for reference)
- 5. LE fixed gear bimonthly trip limit of 1,200 pounds throughout the year (see attached trip limit table for reference)

If inseason action to increase the recreational bag limit and commercial trip limits was taken as described above, the non-trawl sector catch is projected to remain within the non-trawl allocation in 2019, but in 2020 catches are expected to slightly exceed the allocation (Table 3).

Table 3. Updated non-trawl lingcod bag limit, recreational and commercial non-trawl catch projections, and harvest limits south of 40°10' N lat. for 2019 and 2020. Data are from CDFW.

Year	Bag Limit	Rec. Catch ¹	Com. Non- Trawl Catch ²	Total Non-Trawl Catch ^{1, 2}	Non- Trawl Alloc.	Non-Trawl Attainment ^{1, 2}
2019	1(2 ³)	223.0 (398.5 ³)	40.6 (57.5 ³)	263.6 (456.0 ³)	565.2	46.6% (80.7% ³)
2020	1(2)	223.0 (411.1)	40.6 (64.3)	263.6 (475.4)	471.7	55.9% (100.8%)

¹California Recreational Fisheries Survey data were used to model recreational projections. For 2019 and 2020, recreational catch values outside parentheses indicate projected catch based on a one fish bag limit for the full year (status quo) and catch values inside parentheses indicate projected catch based on a two fish bag limit.

 2 MLDS data were used to model commercial catch projections. For 2019 and 2020 commercial catch values outside parentheses indicate projected catch based on current monthly and bimonthly trip limits in the OA and LE fixed gear sectors (status quo, see current trip limit tables below). Catch values inside parentheses indicate projected catch based on increases to both the OA and LE fixed gear sectors as follows: monthly trip limit increases in the OA gear sector, and an increased bimonthly trip limit for Period 3, and the month of December in the LE fixed gear sector.

³ Projected catch for 2019 assumes an effective date by June 1 for increases to the recreational bag limit and commercial trip limits.

Attachment: Limited Entry Fixed Gear Trip Limit Table, South of 40°10' N lat

	Other limits and requirements apply Read	JAN-FEB	gh 660.399 befor MAR-APR	e using this table MAY-JUN	JUL-AUG	SEP-OC		-DEC		
oc	kfish Conservation Area (RCA) ^{1/} :									
	40°10' N. lat 34°27' N. lat.			40 fm line1/ -	125 fm line ^{1/}	J				
2	South of 34 27' N. lat.	th of 34 [°] 27' N. lat. 75 fm line ¹⁷ - 150 fm line ¹⁷ (also applies around islands)								
Se	e §§660.60 and 660.230 for additional gea	r, trip limit and	conservation a	rea requiremen	ts and restricti	ons. See §§	60.70-660.	74 and		
	60.76-660.79 for conservation area descri									
			EFHCAs).							
	State trip limits and seasons may be m	ore restrictive than	Federal trip limits	or seasons, partice	alarly in waters off	Oregon and Ca	lifornia.			
3	Minor Slope rockfish ^{2/} & Darkblotched		nonths, of which			months, of wh				
	rockfish	1,375 lb	may be blackgill			b may be blac	kgill rockfist	h		
4 5	Splitnose rockfish Sablefish			40,000 lb/	2 months					
6	40°10' N. lat 36°00' N. lat.		1.300 #	b/week, not to ex	ceed 3.900 lb/ 2	months				
7	South of 36 00' N. lat.			2,000						
8	Longspine thornyhead			10,000 lb/	2 months					
9	Shortspine thornyhead									
10	40 10' N. lat 34 27' N. lat.	2	2,000 lb/ 2 month			2,500 lb/ 2 m	onths			
11 12	South of 34 [°] 27' N. lat.			3,000 lb/ 5,000 lb						
13	Dover sole, arrowtooth flounder,	South of 42 [°] N	lat., when fishing	· · ·		hook-and-line	e gear with	no more		
14 15 16	petrale sole, English sole, starry flounder, Other Flatfish ^{3/}	than 12 hooks	per line, using ho	ooks no larger tha	n "Number 2" h	ooks, which m	neasure 0.4	4 in (11		
16 17		mm) point to	shank, and up to		, .	ne, are not sub	ject to the f	RCAs.		
	Whiting			10,000		1°071 11 1 1 1				
19	Minor Shelf Rockfish ^{2/} , Shortbelly rockfi	-				,	a advibit			
20	40 [°] 10' N. lat 34 [°] 27' N. lat.		fish, shortbelly, w than 500 lt	vidow rockfish, & o may be any spe			is, of which	no more		
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 incl	luded under mino	r shelf rockfish, s	hortbelly and w	idow rockfish	limits Se	e above		
24	South of 34 [°] 27' N. lat.	2,000	lb/ 2 months, this	opportunity only	available seawa	ard of the non-	trawl RCA			
25	Canary rockfish									
26	40 [°] 10' N. lat 34 [°] 27' N. lat.			300 lb/ 2	months					
27	South of 34 27' N. lat.	300 lb/ 2 months CLOSED 300 lb/ 2 months								
28	Yelloweye rockfish			CLO	SED					
29	Cowcod		CLOSED							
30	Bronzespotted rockfish			CLO	SED					
31	Bocaccio									
32	40 10' N. lat 34 27' N. lat.			1,000 lb/	2 months					
33	South of 34 [°] 27' N. lat.	1,500 lb/ 2 months	CLOSED		1,500 lb/	2 months				
	Minor Nearshore Rockfish, California Bl		Oregon Black/E	Blue/Deacon ro	ckfish					
34		1,200 lb/ 2	CLOSED		1,200 lb/	2 months				
	Shallow nearshore ^{4/}	months								
34 35 36	Shallow nearshore" Deeper nearshore ^{5/}	months 1,000 lb/ 2 months	CLOSED		1,000 lb/	2 months				
35 36		1,000 lb/ 2 months 1,500 lb/ 2	CLOSED CLOSED			2 months				
35 36 37	Deeper nearshore ^{5/} California Scorpionfish	1,000 lb/ 2 months 1,500 lb/ 2 months 200 lb/ 2	CLOSED	800 lb/ 2	1,500 lb/	2 months	600 lb/	/ 300 lb/		
35 36 37 38	Deeper nearshore ^{5/} California Scorpionfish Lingcod ^{6/}	1,000 lb/ 2 months 1,500 lb/ 2 months		months	1,500 lb/			/ 300 lb/ month		
35 36 37 38	Deeper nearshore ^{5/} California Scorpionfish	1,000 lb/ 2 months 1,500 lb/ 2 months 200 lb/ 2	CLOSED	months 1,000 lb/	1,500 lb/	2 months				
35 36 37 38 39	Deeper nearshore ^{5/} California Scorpionfish Lingcod ^{6/}	1,000 lb/ 2 months 1,500 lb/ 2 months 200 lb/ 2 months	CLOSED	months 1,000 lb/ 150,000 lb/ 2	1,500 lb/ 1,200 lb/ 2 months	2 months	month			
35 36 37 38 39 40	Deeper nearshore ^{5/} California Scorpionfish Lingcod ^{6/} Pacific cod	1,000 lb/ 2 months 1,500 lb/ 2 months 200 lb/ 2 months	CLOSED CLOSED	months 1,000 lb/	1,500 lb/ 1,200 lb/ 2 months 1	2 months	month			
35 36 37 38 39 40 41	Deeper nearshore ^{5/} California Scorpionfish Lingcod ^{6/} Pacific cod Spiny dogfish	1,000 lb/ 2 months 1,500 lb/ 2 months 200 lb/ 2 months	CLOSED CLOSED	months 1,000 lb/ 150,000 lb/ 2 months	1,500 lb/ 1,200 lb/ 2 months 1 nited	2 months	month			
35 36 37 38 39 40 41 42	Deeper nearshore ^{5/} California Scorpionfish Lingcod ^{6/} Pacific cod Spiny dogfish Longnose skate	1,000 lb/ 2 months 1,500 lb/ 2 months 200 lb/ 2 months	CLOSED CLOSED	months 1,000 lb/ 150,000 lb/ 2 months Unlin	1,500 lb/ 1,200 lb/ 2 months 1 nited nited	2 months	month			
35 36 37 38 39 40 41 42 43	Deeper nearshore ^{5/} California Scorpionfish Lingcod ^{6/} Pacific cod Spiny dogfish Longnose skate Other Fish ^{7/} & Cabezon in California	1,000 lb/ 2 months 1,500 lb/ 2 months 200 lb/ 2 months 200,000 lb 2 200,000 lb	CLOSED CLOSED / 2 months	months 1,000 lb/ 150,000 lb/ 2 months Unlin Unlin Unlin Uppes, bounded by	1,500 lb/ 1,200 lb/ 2 months 1 nited nited nited v lines specifical	2 months 2 months 00,000 lb/ 2 m	nonths			
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35 36 37 38 39 40 41 42 43	Deeper nearshore ^{5/} California Scorpionfish Lingcod ^{4/} Pacific cod Spiny dogfish Longnose skate Other Fish ^{7/} & Cabezon in California Big Skate e Rockfish Conservation Area is an area clc and longitude coordinates set out at §§ 660 depth contour boundary south of 42° N. lat.) than the depth contour. Vessels that are su	1,000 lb/ 2 months 1,500 lb/ 2 months 200 lb/ 2 months 200 lb/ 2 months 200,000 lb 200,000 lb 200	CLOSED CLOSED / 2 months / particular gear tt RCA is not defin ary lines that defir	months 1,000 lb/ 150,000 lb/ 2 months Unlin Unlin uppes, bounded by ded by depth cont the the RCA may	1,500 lb/ 1,200 lb/ 2 months 1 nited nited / lines specifical ours (with the eclose areas that	2 months 2 months 00,000 lb/ 2 m lly defined by I exception of the are deeper or	atitude 20-fm r shallower			
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Table 2 (South) to Part 660, Subpart E -- Non-Trawl Rockfish Conservation Areas and Trip Limits for Limited Entry Fixed Gear

Attachment: Open Access Trip Limit Table, South of 40°10' N lat.

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 Re	ad §§660.10 throu	ugh 660.399 befo	ore using this table	e			0101					
		JAN-FEB	MAR-APR	MAY-JUN	JUL-AUG	SEP-OCT	NOV	-DEC					
200	ckfish Conservation Area (RCA) ^{1/} :												
1	40 [°] 10' N. lat 34 [°] 27' N. lat.												
2	South of 34 27' N. lat.	South of 34 ² 27' N. lat. 75 fm line ^{1/} - 150 fm line ^{1/} (also applies around islands)											
	ee §§660.60 and 660.230 for additional gu §660.76-660.79 for conservation area de State trip limits and seasons may be	scriptions and c	oordinates (inc and EFHCAs)	luding RCAs, YF).	RCAs, CCAs, Far	allon Islands,	Cordell E						
-	Minor Slope Rockfish ^{2/} &	10.000 lb/ 2 mg	othe of which p	a more than 475	10.000 lb/ 2 mg	atha of which a	o moro th	on 550					
3	Darkblotched rockfish	10,000 lb/ 2 months, of which no more than 475 10,000 lb/ 2 months, of which no more than 550 Ib may be blackgill rockfish 10,000 lb/ 2 months, of which no more than 550											
	Splitnose rockfish			200 lb/	month								
5	Sablefish	000 lb / a			1 000 lb		0						
	40°10' N. lat 36°00' N. lat.		-	ig per week up to									
7	South of 36 00' N. lat	t. 300 lb/ da	iy, or one landing	per week of up to	o 1,600 lb, not to	exceed 3,200 lb	b/ 2 month	IS					
3	Shortpine thornyheads and longspine thornyheads												
)	40 10' N. lat 34 27' N. lat	1			SED								
0	South of 34 27' N. lat	t.	50 lb	o/ day, no more th	an 1,000 lb/ 2 mc	onths		>					
1 2	Dover sole, arrowtooth flounder,	3,000 lb/ mo	onth, no more tha	an 300 lb of which	may be species	other than Paci	ific sandd						
3 4	petrale sole, English sole, starry	South of 42° N.	lat., when fishing	g for "other flatfish	n," vessels using	hook-and-line g	ear with n						
5	flounder, Other Flatfish ^{3/}	1	than 12 hooks per line, using hooks no larger than "Number 2" hooks, which measure 0.44 in (11										
6		mm) point to	shank, and up to	o two 1 lb (0.45 kg	g) weights per line	e are not subjec	t to the R	CAs.					
7	Whiting			300 lb/	month			(
8	Minor Shelf Rockfish ^{2/} , Shortbelly, Widow rockfish and Chilipepper												
9	40 [°] 10' N. lat 34 [°] 27' N. lat	months	CLOSED		400 lb/ 2	months		Ī					
0	South of 34 [°] 27' N. lat	months			1,500 lb/ 2	2 months							
	Canary rockfish	months											
	Yelloweye rockfish Cowcod	+			SED SED								
	Bronzespotted rockfish	1			ISED			∖ ◄					
	Bocaccio	500 lb/ 2 months	CLOSED		500 lb/ 2	months							
6	Minor Nearshore Rockfish, California	Black rockfish, 8	Oregon Black	/Blue/Deacon ro	ockfish								
7	Shallow nearshore ^{4/}	1,200 lb/ 2 months	CLOSED		1,200 lb/ 2	2 months							
8	Deeper nearshore ^{5/}	1,000 lb/ 2 months	CLOSED		1,000 lb/ 2	2 months							
	California scorpionfish	1,500 lb/ 2 months	CLOSED		1,500 lb/ 2	2 months							
	Lingcod ^{6/}	300 lb/ month	CLOSED		300 lb/	month							
	Pacific cod				2 months								
	Spiny dogfish	200,000 lb	/ 2 months	150,000 lb/ 2 months		0,000 lb/ 2 mon	nths						
	Longnose skate				nited								
	Big skate Other Fish ^{7/} & Cabezon in California				nited								
0	Other Fish & Cabezon in California			Uniir	med	Unlimited							

Attachment: Open Access Trip Limit Table, South of 40°10' N lat. (Cont.')

Tab	le 3 (South). Continued									
		JAN-FEB	MAR-APR	MAY-JUN	JUL-AUG	SEP-OCT	NOV-DEC			
36	RIDGEBACK PRAWN AND, SOUTH OF	38 [°] 57.50' N. LAT	., CA HALIBUT	AND SEA CUCU	JMBER NON-GI	ROUNDFISH TR	RAWL	-		
37	NON-GROUNDFISH TRAWL Rockfish							⋗		
38	40° 10' N. lat 38° 00' N. lat.	100 fm line ^{1/} - 200 fm line ^{1/}	100 fm line " 150 fm line "							
39	38°00' N. lat 34°27' N. lat.		100 fm line ^{1/} - 150 fm line ^{1/}							
40	South of 34 [°] 27' N. lat.	100 fm line ^{1/}	100 fm line ^{1/} - 150 fm line ^{1/} along the mainland coast; shoreline - 150 fm line ^{1/} around islands							
41	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, curlfin sole, or California scorpionfish (California scorpionfish is also subject to the trip limits and closures in line 29).									
42	PINK SHRIMP NON-GROUNDFISH TR	AWL GEAR (not	subject to RCAs)				t h		
43	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 cryctifish thorowheads and velloweve cryctifish are PROHIBITED. All other cryundfish species taken are									
1/ T	he Rockfish Conservation Area is an area	~								
	and longitude coordinates set out at §§ 66			• •						
	depth contour boundary south of 42° N. lat									
	than the depth contour. Vessels that are s other than transiting.	Subject to RCA re	strictions may no	t fish in the RCA	, or operate in the	e RCA for any pu	irpose			
2/ F	POP is included in the trip limits for minor s	lope rockfish. Bla	ackgill rockfish ha	ve a species spe	ecific trip sub-lim	it within the mino	r slope rockfish			
	cumulative limits. Yellowtail rockfish is inc	luded in the trip li	mits for minor sh	elf rockfish. Bron	zespotted rockfi	sh have a specie	s specific trip			
	limit.									
	Other flatfish" are defined at § 660.11 and ir			nead sole, Pacific	sanddab, rex so	ole, rock sole, an	d sand sole.			
	Shallow Nearshore" are defined at § 660.11									
	Deeper Nearshore" are defined at § 660.11									
	he commercial mimimum size limit for ling									
	7/ "Other fish" are defined at § 660.11 and includes kelp greenling off California and leopard shark.									
10	To convert pounds to kilograms, divide by 2.20462, the number of pounds in one kilogram.									