

**Proposed CA Recreational Options With the Harvest Targets for Minor Nearshore Rockfish, Canary RF, Lingcod, and Bocaccio RF Without Shore Impacts**

(Includes impacts from SHORE Exemption when fishing is allowed 20-40 or 30-60 fms)

**OPTION FOR THE NORTH**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<i>Option 1B=Option 3C</i>												
North						<40	<40	<40	<40	<40	<40	
Central						<40	<20	<20	<20	<20	<30	
South						<40	<40	<40	<40			
South Scorpionfish			<40	<40		<40	<40	<40	<40			

**Without Shore Impacts**

Region	BLK	MNR <sup>2</sup>	CAN	LNG	BOC
North	87.2		0.5	34.4	0.0
Central	86.0	391.0	8.6	264.3	0.4
South	0.0	76.4	0.0	35.7	9.0
Total	173.3	467.4	9.1	334.4	9.4
HG/HT <sup>1</sup>	184	471	9.3	422	77.0
Difference	-6%	-1%	-2%	-21%	-88%

**OPTIONS FOR THE CENTRAL (NORTH AND SOUTH HELD CONSTANT)**

(North = Option 1b; South = Option 1b)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<i>Option 1B- 2</i>												
North						<40	<40	<40	<40	<40	<40	
Central						<40	<20	<20	<20	<20	<20	
South						<40	<40	<40	<40			
South Scorpionfish			<40	<40		<40	<40	<40	<40			

Region	BLK	MNR	CAN	LNG	BOC
North	87.2		0.5	34.4	0.0
Central	83.9	381.3	8.2	260.7	0.4
South	0.0	76.4	0.0	35.7	9.0
Total	171.2	457.7	8.7	330.8	9.4
HG/HT	184	471	9.3	422	77.0
Difference	-7%	-3%	-6%	-22%	-88%

**OPTIONS FOR THE SOUTH (NORTH AND CENTRAL HELD CONSTANT)**

(North = Option 1b; Central = Option 1b)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<i>Option 4C</i>												
North						<40	<40	<40	<40	<40	<40	
Central						<40	<20	<20	<20	<20	<30	
South						<40	<40	<40	<40			
South Scorpionfish			<40	<40		<40	<40	<40	<40			

Region	BLK	MNR	CAN	LNG	BOC
North	87.2		0.5	34.4	0.0
Central	86.0	391.0	8.6	264.3	0.4
South	0.0	79.1	0.0	31.7	11.6
Total	173.3	470.1	9.1	330.4	12.0
HG/HT	184	471	9.3	422	77.0
Difference	-6%	0%	-2%	-22%	-84%

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<i>Option 4D</i>												
North						<40	<40	<40	<40	<40	<40	
Central						<40	<20	<20	<20	<20	<30	
South						<40	<40	<40	<40			
South Scorpionfish			<40	<40		<40	<40	<40	<40			

Region	BLK	MNR	CAN	LNG	BOC
North	87.2		0.5	34.4	0.0
Central	86.0	391.0	8.6	264.3	0.4
South	0.0	65.9	0.0	31.7	11.6
Total	173.3	456.9	9.1	330.4	12.0
HG/HT	184	471	9.3	422	77.0
Difference	-6%	-3%	-2%	-22%	-84%

Option 4E	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
North						<40	<40	<40	<40	<40	<40	
Central						<40	<20	<20	<20	<20	<30	
South					<40	<40	<40	<40	<40			
South Scorpionfish					<40	<40	<40	<40	<40			

(North = Option 1b; Central = Option 1b-2)

Option 4K <sup>3</sup>	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
North							<40	<40	<40	<40	<40	
Central						<40	<20	<20	<20	<20	<20	
South				30-60	30-60	30-60	<40	<40	<40	<40		
South Scorpionfish							<40	<40	<40	<40		

1. Proposed Statewide Recreational HG or CA Harvest Target (mt)
2. Minor nearshore rockfish (MNR) recreational Harvest Target for south of 40°10'
3. Estimated take for shore-based fishing included for those months with 30-60 fishing

Region	BLK	MNR	CAN	LANG	BOC
North	87.2		0.5	34.4	0.0
Central	86.0	391.0	8.6	264.3	0.4
South	0.0	67.2	0.0	35.7	9.0
Total	173.3	458.2	9.1	334.4	9.4
HG/HT	184	471	9.3	422	77.0
Difference	-6%	-3%	-2%	-21%	-88%

Region	BLK	MNR	CAN	LANG	BOC
North	87.2		0.5	34.4	0.0
Central	86.0	391.0	8.3	264.3	0.4
South	0.0	74.4	0.5	36.2	45.2
Total	173.3	465.4	9.3	334.9	45.6
HG/HT	184	471	9.3	422	77.0
Difference	-6%	-1%	0%	-21%	-41%

**Proposed CA Recreational Options With the Harvest Targets for Minor Nearshore Rockfish, Canary RF, Lingcod, and Bocaccio RF**  
 (Includes impacts from SHORE Exemption during closed periods and when fishing is allowed 20-40 or 30-60 fms)

**OPTION FOR THE NORTH**

Option 1B=Option 3C	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
North						<40	<40	<40	<40	<40		
Central						<40	<20	<20	<20	<30		
South				<40	<40	<40	<40	<40	<40			
South Scorpionfish			<40	<40								

With Shore Impacts						
Region	BLK	MNR	CAN	LNG	BOC	
North	87.5		0.5	36.1	0.0	
Central	88.7	403.4	8.6	273.2	0.6	
South	0.2	78.8	0.0	35.9	9.5	
Total	176.4	482.2	9.1	345.2	10.2	
HG/HT <sup>1</sup>	184	471	9.3	422	77.0	
Difference	-4%	2%	-2%	-18%	-87%	

**OPTIONS FOR THE CENTRAL (NORTH AND SOUTH HELD CONSTANT)**

(North =Option 1b; South=Option 1b)

Option 1B- 2	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
North						<40	<40	<40	<40	<40		
Central						<40	<20	<20	<20	<20		
South				<40	<40	<40	<40	<40	<40			
South Scorpionfish			<40	<40								

Region	BLK	MNR	CAN	LNG	BOC	
North	87.5		0.5	36.1	0.0	
Central	86.6	393.7	8.2	269.6	0.7	
South	0.2	78.8	0.0	35.9	9.5	
Total	174.3	472.5	8.7	341.6	10.2	
HG/HT	184	471	9.3	422	77.0	
Difference	-5%	0%	-6%	-19%	-87%	

**OPTIONS FOR THE SOUTH (NORTH AND CENTRAL HELD CONSTANT)**

(North =Option 1b; Central=Option 1b)

Option 4C	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
North						<40	<40	<40	<40	<40		
Central						<40	<20	<20	<20	<30		
South				<40	<40	<40	<40	<40	<40			
South Scorpionfish			<40	<40								

Region	BLK	MNR	CAN	LNG	BOC	
North	87.5		0.5	36.1	0.0	
Central	88.7	403.4	8.6	273.2	0.6	
South	0.2	82.0	0.0	31.9	12.1	
Total	176.5	485.4	9.1	341.2	12.8	
HG/HT	184	471	9.3	422	77.0	
Difference	-4%	3%	-2%	-19%	-83%	

Option 4D	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
North						<40	<40	<40	<40	<40		
Central						<40	<20	<20	<20	<30		
South				<40	<40	<40	<40	<40	<40			
South Scorpionfish			<40	<40								

Region	BLK	MNR	CAN	LNG	BOC	
North	87.5		0.5	36.1	0.0	
Central	88.7	403.4	8.6	273.2	0.6	
South	0.2	69.0	0.0	31.9	12.1	
Total	176.5	472.4	9.1	341.2	12.8	
HG/HT	184	471	9.3	422	77.0	
Difference	-4%	0%	-2%	-19%	-83%	

Option 4E	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
North						<40	<40	<40	<40	<40		
Central						<40	<20	<20	<20	<20	<30	
South					<40	<40	<40	<40	<40			
South Scorpionfish				<40	<40	<40	<40	<40	<40			

(North =Option 1b; Central=Option 1b-2)

Option 4K <sup>3</sup>	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
North							<40	<40	<40	<40		
Central						<40	<20	<20	<20	<20	<20	
South			30-60	30-60	30-60	30-60	<40	<40	<40	<40		
South Scorpionfish						<40	<40	<40	<40	<40		

1. Proposed Statewide Recreational HG or CA Harvest Target (mt)
2. Minor nearshore rockfish (MNR) recreational Harvest Target for south of 40°10'
3. Estimated take for shore-based fishing still needs to be added to these figures for those months with 30-60 fishing

Estimates of the take for all of the above options use primarily the results of the 0.7 decay model and then consider additional factors including: hooking mortality for California scorpionfish and lingcod for months when rockfish is open but California scorpionfish or lingcod are closed; changes in sub-bag and bag limits not accounted for in the model's base data; changes from retention to non-retention of constraining rockfish species not accounted for in the model's base data; expected changes in north coast catch estimates; and greater opportunity for taking shelf rockfish species as fishing is moved out to 30 fms.

Region	BLK	MN	CAN	LN	OC
North	87.5		0.5	36.1	0.0
Central	88.7	403.4	8.6	273.2	0.6
South	0.2	70.4	0.0	35.9	9.5
Total	176.5	473.7	9.1	345.2	10.2
HG/HT	184	471	9.3	422	77.0
Difference	-4%	1%	-2%	-18%	-87%

Region	BLK	MN	CAN	LN	OC
North	87.5		0.5	36.1	0.0
Central	88.7	403.4	8.3	273.2	0.6
South	0.2	76.3	0.5	36.4	45.6
Total	176.4	479.6	9.3	345.7	46.2
HG/HT	184	471	9.3	422	77.0
Difference	-4%	2%	0%	-18%	-40%

Proposed CA Recreational Combined Options With Harvest Targets for Minor Nearshore Rockfish, Canary RF, Lingcod, and Bocaccio RF; Central Regions Split

Without Shore Impacts						
Region	BLK	MNR <sub>2</sub>	CAN	LNG	BOC	
North	87.2		0.5	34.4	0.0	
N-Central	42.9	194.9	4.6	179.2	0.0	
S Central - North	32.2	146.2	2.0	85.5	0.1	
S Central - South	10.7	48.7	1.1	5.7	0.2	
South	0.0	64.3	0.5	35.7	43.1	
Total	173.0	454.1	8.7	340.5	43.5	
HG/HT <sup>1</sup>	184	471	9.3	422	77.0	
Difference	-6%	-4%	-7%	-19%	-43%	

Option 1	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
North							< 40fm	< 40fm	< 40fm	< 40fm	< 40fm	
N-Central							< 20fm	< 20fm	< 20fm	< 20fm	< 30 fm	
S Central - North							< 20fm	< 20fm	< 20fm	< 20fm	< 30 fm	
S Central - South	20-40	20-40	20-40	20-40	20-40	20-40	20-40	20-40	20-40	< 40fm		
South							< 40fm	< 40fm	< 40fm	< 40fm	< 40fm	
South Scorpionfish <sup>1</sup>			30-60fm	30-60fm	30-60fm	30-60fm	30-60fm	30-60fm	30-60fm	30-60fm	< 40fm	

Without Shore Impacts						
Region	BLK	MNR <sub>2</sub>	CAN	LNG	BOC	
North	87.2		0.5	34.4	0.0	
N-Central	41.9	190.4	4.6	179.2	0.1	
S Central - North	31.4	142.8	2.0	85.5	0.2	
S Central - South	7.1	47.6	1.1	5.7	0.2	
South	0.0	64.0	0.5	35.7	43.1	
Total	167.7	444.8	8.7	340.5	43.8	
HG/HT <sup>1</sup>	184	471	9.3	422	77.0	
Difference	-9%	-6%	-7%	-19%	-43%	

Option 2	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
North							< 40fm	< 40fm	< 40fm	< 40fm	< 40fm	
N-Central						< 20fm	< 20fm	< 20fm	< 20fm	< 30fm	< 30 fm	
S Central - North						< 20fm	< 20fm	< 20fm	< 20fm	< 30fm	< 30 fm	
S Central - South	20-40	20-40	20-40	20-40	20-40	20-40	20-40	20-40	20-40	< 40fm		
South							< 40fm	< 40fm	< 40fm	< 40fm	< 40fm	
South Scorpionfish <sup>1</sup>			30-60fm	30-60fm	30-60fm	30-60fm	30-60fm	30-60fm	30-60fm	30-60fm	< 40fm	

Without Shore Impacts						
Region	BLK	MNR <sub>2</sub>	CAN	LNG	BOC	
North	87.2		0.5	34.4	0.0	
N-Central	46.7	194.9	4.6	179.2	0.0	
S Central - North	37.1	146.2	2.0	85.5	0.1	
S Central - South	7.1	48.7	1.1	5.7	0.2	
South	0.0	72.4	1.2	41.1	43.4	
Total	178.1	462.2	9.3	345.9	43.8	
HG/HT <sup>1</sup>	184	471	9.3	422	77.0	
Difference	-3%	-2%	1%	-18%	-43%	

Option 3	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
North							< 40fm	< 40fm	< 40fm	< 40fm	< 40fm	
N-Central						< 20fm	< 20fm	< 20fm	< 20fm	< 30fm	< 30 fm	
S Central - North						< 20fm	< 20fm	< 20fm	< 20fm	< 30fm	< 30 fm	
S Central - South	20-40	20-40	20-40	20-40	20-40	20-40	20-40	20-40	20-40	< 40fm		
South							< 40fm	< 40fm	< 40fm	< 40fm	< 40fm	
South Scorpionfish <sup>1</sup>			30-60fm	30-60fm	30-60fm	30-60fm	30-60fm	30-60fm	30-60fm	30-60fm	< 40fm	

