## REVISED FISHERY HARVEST GUIDELINES AND ALLOCATIONS

At the March 2016 meeting, the Council forwarded the 2017-2018 commercial jig fishing exempted fishing permit (EFP) application (Agenda Item G.2, Attachment 1, March 2016) for public review with the modifications described in this Situation Summary (Agenda Item F.3). The Council adopted set-asides as specified in the 2015-2016 EFP, which were the same values requested by the applicants. To accommodate the yelloweye rockfish set-aside, the Council reduced the Oregon Department of Fish and Wildlife research set-aside by 0.03 mt. The re-calculated fishery harvest guidelines and allocations under the range of alternatives are provided in the tables below. The table numbers correspond to those in the analytical document found in Agenda Item F.3, Attachment 1.

 $Table \ 4-1. \ REVISED \ No \ Action \ Alternative. \ Estimates \ of \ tribal, EFP, \ research, \ and \ incidental \ OA \ ground \ fish \ mortality \ in \ metric \ tons, \ used \ to \ calculate \ the \ fishery \ HG \ in \ 2017.$ 

Species	Area	ACL	Tribal	EFP	Research	OA	HG
Arrowtooth flounder	Coastwide	13,804	2,041.0		16.4	40.8	11,705.9
Black (WA)	Washington	305	18.0		_	-	287.0
Black (OR)	Oregon	527			_	0.6	526.4
Black (CA)	California	334		1.0			333.0
BOCACCIO	S of 40°10' N. lat.	790		3.0	4.6	0.8	781.6
Cabezon (OR)	46°16' to 42° N. lat.	47			_		47.0
Cabezon (CA)	S of 42° N. lat.	150			-	0.3	149.7
California scorpionfish	S of 34°27' N. lat.	264			0.2	2.0	261.8
Canary rockfish	Coastwide	1,714	35.0	1.0	7.2	1.2	1,669.6
Chilipepper	S of 40°10' N. lat.	2,607		10.0	10.9	5.0	2,581.1
COWCOD	S of 40°10' N. lat.	10		0.015	2.0	0.0	8.0
DARKBLOTCHED	Coastwide	406	0.2	0.1	2.5	24.5	378.8
Dover sole	Coastwide	50,000	1,497.0		41.9	54.8	48,406.3
English sole	Coastwide	9,964	200.0		5.8	7.0	9,751.2
Lingcod	N of 40'10° N. lat.	3,333	250.0	0.5	11.7	16.0	3,054.8
Lingcod	S of 40'10° N. lat.	1,251		1.0	1.1	6.9	1,242.0
Longnose skate	Coastwide	2,000	130.0		13.2	3.8	1,853.0
Longspine thornyhead	N of 34°27' N. lat.	2,894	30.0		13.5	3.3	2,847.2
Longspine thornyhead	S of 34°27' N. lat.	914			1.4	1.8	910.8
Nearshore rockfish north	N of 40°10' N. lat.	105	1.5		-	0.3	103.2
Nearshore rockfish south	S of 40°10' N. lat.	1,163			2.7	1.4	1,158.9
Shelf rockfish north	N of 40°10' N. lat.	2,049	30.0	3.0	24.8	26.0	1,965.2
Shelf rockfish south	S of 40°10' N. lat.	1,623		30.0	8.6	8.6	1,575.8
Slope rockfish north	N of 40°10' N. lat.	1,755	36.0	1.0	9.5	18.6	1,689.9
Slope rockfish south	S of 40°10' N. lat.	707		1.0	2.0	17.2	686.8
Other fish	Coastwide	474					474.0
Other flatfish	Coastwide	8,510	60.0		19.0	125.0	8,306.0
Pacific cod	Coastwide	1,600	500.0		7.0	2.0	1,091.0
Pacific whiting a/	Coastwide	325,072	56,888.0	1.0		1,500.0	266,683.0
Petrale sole	Coastwide	3,136	220.0		17.7	3.2	2,895.1
POP	N of 40°10' N. lat.	171	9.2		5.2	10.0	146.6
Sablefish	S of 36° N. lat.	1,075			3.0	2.0	1,070.0
Shortbelly rockfish	Coastwide	500			2.0	8.9	489.1
Shortspine thornyhead	N of 34°27' N. lat.	1,713	50.0		7.2	1.8	1,654.0
Shortspine thornyhead	S of 34°27' N. lat.	906			1.0	41.3	863.7
Spiny dogfish	Coastwide	2,094	275.0	1.0	12.5	49.5	1,756.0
Splitnose rockfish	S of 40°10' N. lat.	1,760		1.5	9.0	0.2	1,749.3
Starry flounder	Coastwide	1,282	2.0			8.3	1,271.7
Widow rockfish	Coastwide	2,000	200.0	9.0	8.2	0.5	1,782.3
YELLOWEYE	Coastwide	20	2.3	0.03	3.27	0.4	14.0
Yellowtail rockfish	N of 40°10' N. lat.	6,196	1,000.0	10.0	16.6	3.4	5,166.1

a/The Pacific whiting total allowable catch was unavailable during the preparation of the analysis; therefore, the 2015 values were used.

REVISED Table4-2. No Action Alternative. Stock-specific fishery HGs or ACTs and allocations for 2017 (in mt).

Species	Area	Fishery		Tı	awl	Non-	trawl
Species	Area	HG	Allocation Type	%	Mt	%	Mt
Arrowtooth flounder	Coastwide	11,705.9	Amendment 21	95%	11,120.6	5%	585.3
Black (WA)	N of 46°16'	287.0	None				
Black (OR)	46°16' to 42° N. lat.	526.4	None				
Black (CA)	S of 42° N. lat.	333.0	None				
BOCACCIO	S of 40°10' N. lat.	781.6	Biennial	N/A	187.9	N/A	593.7
Cabezon (OR)	46°16' to 42° N. lat.	47.0	None				
Cabezon (CA)	S of 42° N. lat.	149.7	None				
California scorpionfish a/	S of 34°27' N. lat.	111.0	None				
Canary rockfish	Coastwide	1,669.6	Biennial	N/A	889.5	N/A	780.1
Chilipepper	S of 40°10' N. lat.	2,581.1	Amendment 21	75%	1,935.8	25%	645.3
COWCOD b/	S of 40°10' N. lat.	4.0	Biennial	N/A	1.4	N/A	2.6
DARKBLOTCHED	Coastwide	378.8	Amendment 21	95%	359.8	5%	18.9
Dover sole	Coastwide	48,406.3	Amendment 21	95%	45,986.0	5%	2,420.3
English sole	Coastwide	9,751.2	Amendment 21	95%	9,263.6	5%	487.6
Lingcod	N of 40'10° N. lat.	3,054.8	Amendment 21	45%	1,374.7	55%	1,680.2
Lingcod	S of 40'10° N. lat.	1,242.0	Amendment 21	45%	558.9	55%	683.1
Longnose skate	Coastwide	1,853.0	Biennial	90%	1,667.7	10%	185.3
Longspine thornyhead	N of 34°27' N. lat.	2,847.2	Amendment 21	95%	2,704.8	5%	142.4
Longspine thornyhead	S of 34°27' N. lat.	910.8	None		•		
Nearshore rockfish north	N of 40°10' N. lat.	103.2	None				
Nearshore rockfish south	S of 40°10' N. lat.	1,158.9	None				
Shelf rockfish north	N of 40°10' N. lat.	1,965.2	Biennial	60.2%	1,183.1	39.8%	782.1
Shelf rockfish south	S of 40°10' N. lat.	1,575.8	Biennial	12.2%	192.2	87.8%	1,383.6
Slope rockfish north	N of 40°10' N. lat.	1,689.9	Amendment 21	81%	1,368.8	19%	321.1
Slope rockfish south	S of 40°10' N. lat.	686.8	Amendment 21	63%	432.7	37%	254.1
Other fish	Coastwide	474.0	None				
Other flatfish	Coastwide	8,306.0	Amendment 21	90%	7,475.4	10%	830.6
Pacific cod	Coastwide	1,091.0	Amendment 21	95%	1,036.4	5%	54.5
Pacific whiting c/	Coastwide	266,683	Amendment 21	100%	266,683	0%	0.0
Petrale sole	Coastwide	2,895.1	Amendment 21	95%	2,750.3	5%	144.8
POP	N of 40°10' N. lat.	146.6	Amendment 21	95%	139.3	5%	7.3
Sablefish	N of 36° N. lat.	0.0		See REV	ISED Table		
Sablefish	S of 36° N. lat.	1,070.0	Amendment 21	42%	449.4	58%	620.6
Shortbelly rockfish	Coastwide	489.1	None				0.0
Shortspine thornyhead	N of 34°27' N. lat.	1,654.0	Amendment 21	95%	1,571.3	5%	82.7
Shortspine thornyhead	S of 34°27' N. lat.	863.7	Amendment 21	NA	50.0	NA	813.7
Spiny dogfish	Coastwide	1,756.0	None				
Splitnose rockfish	S of 40°10' N. lat.	1,749.3	Amendment 21	95%	1,661.8	5%	87.5
Starry flounder	Coastwide	1,271.7	Amendment 21	50%	635.9	50%	635.9
Widow rockfish	Coastwide	1,782.3	Amendment 21	91%	1,621.9	9%	160.4
YELLOWEYE	Coastwide	14.0	Biennial	N/A	1.1	N/A	12.9
Yellowtail rockfish	N of 40°10' N. lat.	5,166.1	Amendment 21	88%	4,546.1	12%	619.9

a/ The California scorpionfish fishery harvest guideline (261.8 mt) would be further reduced to an annual catch target (ACT) of 111 mt.

b/ The cowcod fishery harvest guideline (8 mt) would be further reduced to an ACT of 4 mt.

c/ The Pacific whiting total allowable catch was unavailable during the preparation of the analysis; therefore, the 2015 values were used.

REVISED Table 4-3. No Action Alternative. Estimates of tribal, EFP, research (Res.), and incidental OA groundfish mortality in metric tons, used to calculate the fishery HG in 2018.

Species	Area	ACL	Tribal	EFP	Research	OA	Fishery HG
Arrowtooth flounder	Coastwide	13,743	2,041.0		16.4	40.8	11,644.9
Black (WA)	Washington	301	18.0		-	-	283.0
Black (OR)	Oregon	520			-	0.6	519.4
Black (CA)	California	332		1			331.0
Blackgill rockfish	S of 40°10' N. lat.	123			0.5	0.1	122.4
BOCACCIO	S of 40°10' N. lat.	741		3.0	4.6	0.8	732.6
Cabezon (OR)	46°16' to 42° N. lat.	47			-		47.0
Cabezon (CA)	S of 42° N. lat.	149			-	0.3	148.7
California scorpionfish	S of 34°27' N. lat.	261			0.2	2.0	258.8
Canary rockfish	Coastwide	1,588	35.0	1.0	7.2	1.2	1,543.6
Chilipepper	S of 40°10' N. lat.	2,507		10.0	10.9	5.0	2,481.1
COWCOD	S of 40°10' N. lat.	10		0.015	2.0	0.0	8.0
DARKBLOTCHED	Coastwide	419	0.2	0.1	2.5	24.5	391.8
Dover sole	Coastwide	50,000	1,497.0		41.9	54.8	48,406.3
English sole	Coastwide	7,537	200.0		5.8	7.0	7,324.2
Lingcod	N of 40'10° N. lat.	3,110	250.0	0.5	11.7	16.0	2,831.8
Lingcod	S of 40'10° N. lat.	1,144		1.0	1.1	6.9	1,135.0
Longnose skate	Coastwide	2,000	130.0		13.2	3.8	1,853.0
Longspine thornyhead	N of 34°27' N. lat.	2,747	30.0		13.5	3.3	2,700.2
Longspine thornyhead	S of 34°27' N. lat.	867			1.4	1.8	863.8
Nearshore rockfish north	N of 40°10' N. lat.	105	1.5		-	0.3	103.2
Nearshore rockfish south	S of 40°10' N. lat.	1,179			2.7	1.4	1,174.9
Shelf rockfish north	N of 40°10' N. lat.	2,047	30.0	3.0	24.8	26.0	1,963.2
Shelf rockfish south	S of 40°10' N. lat.	1,624		30.0	8.6	8.6	1,576.8
Slope rockfish north	N of 40°10' N. lat.	1,754	36.0	1.0	9.5	18.6	1,688.9
Slope rockfish south	S of 40°10' N. lat.	586		1.0	2.0	17.2	565.8
Other fish	Coastwide	441					441.0
Other flatfish	Coastwide	7,281	60.0		19.0	125.0	7,077.0
Pacific cod	Coastwide	1,600	500.0		7.0	2.0	1,091.0
Pacific whiting a/	Coastwide	325,072	56,888.0	1.0		1,500.0	266,683.0
Petrale sole	Coastwide	3,013	220.0		17.7	3.2	2,772.1
POP	N of 40°10' N. lat.	176	9.2		5.2	10.0	151.6
Sablefish	S of 36° N. lat.	1,120			3.0	2.0	1,115.0
Shortbelly rockfish	Coastwide	500			2.0	8.9	489.1
Shortspine thornyhead	N of 34°27' N. lat.	1,698	50.0		7.2	1.8	1,639.0
Shortspine thornyhead	S of 34°27' N. lat.	898			1.0	41.3	855.7
Spiny Dogfish	Coastwide	2,083	275.0	1.0	12.5	49.5	1,745.0
Splitnose rockfish	S of 40°10' N. lat.	1,761		1.5	9.0	0.2	1,750.3
Starry flounder	Coastwide	1,282	2.0			8.3	1,271.7
Widow rockfish	Coastwide	2,000	200.0	9.0	8.2	0.5	1,782.3
YELLOWEYE	Coastwide	20	2.3	0.03	3.27	0.4	14.0
Yellowtail rockfish	N of 40°10' N. lat.	6,002	1,000.0	10.0	16.6	3.4	4,972.1

<sup>&</sup>lt;sup>a/</sup> The Pacific whiting total allowable catch was unavailable during the preparation of the analysis; therefore, the 2015 values were used.

REVISED Table 4-4. No Action Alternative. Stock specific fishery HGs or ACTs and allocations for 2018 (in mt).

Milestin   Milestin	Species	Area	Fishery		T	rawl	Non-	trawl
Black (WA)	Species	Alea	HG	Allocation Type	%	Mt	%	Mt
Black (OR)	Arrowtooth flounder	Coastwide	11,644.9	Amendment 21	95%	11,062.6	5%	582.2
Black (CA)   S of 42° N. lat.   331.0   None	Black (WA)	N of 46°16'	283.0	None				
Blackgill rockfish	Black (OR)	46°16' to 42° N. lat.	519.4	None				
BOCACCIO   S of 40°10' N. lat.   732.6   Biennial   N/A   176.1   N/A   556.1   Cabezon (OR)   40°16' to 42° N. lat.   47.0   None	Black (CA)	S of 42° N. lat.	331.0	None				
Cabezon (CR)	Blackgill rockfish	S of 40°10' N. lat.	122.4	Amendment 26	41%	50.2	59%	72.2
Cabezon (CA)   S of 42° N. lat.   148.7   None   California scorpionfish a'   S of 34°27' N. lat.   111.0   None   Canary rockfish   Coastwide   1,543.6   Biennial   N/A   822.4   N/A   721.2   Collidropper   S of 40°10' N. lat.   2,481.1   Amendment 21   75%   1,860.8   25%   620.0   COWCOD b'   S of 40°10' N. lat.   4.0   Biennial   N/A   1.4   N/A   2.0   DARKBLOTCHED   Coastwide   391.8   Amendment 21   95%   437.2.2   5%   19.0   Daver sole   Coastwide   48,406.3   Amendment 21   95%   45,986.0   5%   2,420.2   English sole   Coastwide   7,324.2   Amendment 21   95%   6,958.0   5%   366.2   Lingcod   N of 40°10' N. lat.   2,831.8   Amendment 21   45%   1,274.3   55%   1,557.2   Lingcod   S of 40°10' N. lat.   1,135.0   Amendment 21   45%   1,274.3   55%   1,557.2   Lingcod   S of 40°10' N. lat.   1,853.0   Biennial   90%   1,667.7   10%   185.3   Longspine thornyhead   N of 34°27' N. lat.   2,700.2   Amendment 21   95%   2,565.2   5%   135.1   Longspine thornyhead   N of 40°10' N. lat.   1,137.0   None   N of 40°10' N. lat.   1,174.9   None   N of 40°10' N. lat.   1,174.9   None   N of 40°10' N. lat.   1,576.8   Biennial   12.2%   192.4   87.8%   1,384.4   Shelf rockfish north   N of 40°10' N. lat.   1,563.2   Biennial   12.2%   192.4   87.8%   1,384.5   Shelf rockfish south   S of 40°10' N. lat.   1,563.2   Biennial   12.2%   192.4   87.8%   1,384.5   Shelf rockfish south   S of 40°10' N. lat.   1,568.9   Amendment 21   90%   6,369.3   10%   707.5   Pacific cod   Coastwide   441.0   None   N of 40°10' N. lat.   1,568.9   Amendment 21   90%   6,369.3   10%   707.5   Pacific cod   Coastwide   2,772.1   Amendment 21   95%   1,036.4   5%   54.0   Pacific whiting c/   Coastwide   2,772.1   Amendment 21   95%   1,036.4   5%   54.0   Pacific whiting c/   Coastwide   2,772.1   Amendment 21   95%   1,662.8   5%   87.0   Shortbelly rockfish   Coastwide   1,745.0   Amendment 21   95%   1,662.8   5%   87.0   Shortspine thornyhead   N of 34°27' N. lat.   1,115.0   Amendment 21   95%   1,662.8   5%   87.0   Shortspin	BOCACCIO	S of 40°10' N. lat.	732.6	Biennial	N/A	176.1	N/A	556.5
California scorpionfish a/ Canary rockfish   Coastwide   1,543,6   Biennial   N/A   822.4   N/A   721.5	Cabezon (OR)	46°16' to 42° N. lat.	47.0	None				
Canary rockfish	Cabezon (CA)	S of 42° N. lat.	148.7	None				
Chilipepper	California scorpionfish a/	S of 34°27' N. lat.	111.0	None				
COWCOD b	Canary rockfish	Coastwide	1,543.6	Biennial	N/A	822.4	N/A	721.2
COWCOD b/ DARKBLOTCHED         S of 40°10' N. lat. Coastwide         4.0         Biennial         N/A         1.4         N/A         2.0           Dover sole         Coastwide         48,406.3         Amendment 21         95%         45,986.0         5%         19.0           English sole         Coastwide         7,324.2         Amendment 21         95%         6,958.0         5%         366.2           Lingcod         N of 40'10° N. lat.         2,831.8         Amendment 21         45%         1,274.3         55%         624.3           Lingcod         S of 40'10° N. lat.         1,135.0         Amendment 21         45%         510.8         55%         624.3           Longspine thornyhead         N of 34°27' N. lat.         863.8         None         1,667.7         10%         185.1           Longspine thornyhead         S of 34°27' N. lat.         863.8         None         1         1         174.9         1,667.7         10%         185.1           Longspine thornyhead         S of 40°10' N. lat.         103.2         None         1         1         1,688.9         None         1         1         1,688.9         1,181.8         39.84         1,818.8         1,818.8         1,818.8         1,181.8         39.8	Chilipepper	S of 40°10' N. lat.	2,481.1	Amendment 21	75%	1,860.8	25%	620.3
Dover sole		S of 40°10' N. lat.	4.0	Biennial	N/A	1.4	N/A	2.6
English sole	DARKBLOTCHED	Coastwide	391.8	Amendment 21	95%	372.2	5%	19.6
Lingcod	Dover sole	Coastwide	48,406.3	Amendment 21	95%	45,986.0	5%	2,420.3
Lingcod	English sole	Coastwide		Amendment 21	95%			366.2
Lingcod		N of 40'10° N. lat.		Amendment 21	45%	1,274.3	55%	1,557.5
Longnose skate	<u> </u>	S of 40'10° N. lat.	1,135.0	Amendment 21	45%			624.3
Longspine thornyhead		Coastwide	1,853.0	Biennial	90%	1,667.7	10%	185.3
Longspine thornyhead   S of 34°27' N. lat.   863.8   None   None   Northernomena   Northerno				Amendment 21				135.0
Nearshore rockfish north         N of 40°10' N. lat.         103.2         None         None           Shelf rockfish south         S of 40°10' N. lat.         1,174.9         None         1,181.8         39.8%         781.4           Shelf rockfish north         N of 40°10' N. lat.         1,963.2         Biennial         60.2%         1,181.8         39.8%         781.4           Shelf rockfish south         S of 40°10' N. lat.         1,576.8         Biennial         12.2%         192.4         87.8%         1,384.4           Slope rockfish north         N of 40°10' N. lat.         1,688.9         Amendment 21         81%         1,368.0         19%         320.9           Slope rockfish south         S of 40°10' N. lat.         565.8         91%         514.9         9%         50.9           Other fish         Coastwide         441.0         None	<u> </u>	S of 34°27' N. lat.	863.8	None				
Nearshore rockfish south   S of 40°10' N. lat.   1,174.9   None     Shelf rockfish north   N of 40°10' N. lat.   1,963.2   Biennial   60.2%   1,181.8   39.8%   781.4   781.	U I	N of 40°10' N. lat.	103.2	None				
Shelf rockfish north         N of 40°10' N. lat.         1,963.2         Biennial         60.2%         1,181.8         39.8%         781.4           Shelf rockfish south         S of 40°10' N. lat.         1,576.8         Biennial         12.2%         192.4         87.8%         1,384.4           Slope rockfish north         N of 40°10' N. lat.         1,688.9         Amendment 21         81%         1,368.0         19%         320.9           Slope rockfish south         S of 40°10' N. lat.         565.8         91%         514.9         9%         50.9           Other fish         Coastwide         441.0         None	Nearshore rockfish south	S of 40°10' N. lat.	1,174.9	None				
Shelf rockfish south         S of 40°10' N. lat.         1,576.8         Biennial         12.2%         192.4         87.8%         1,384.4           Slope rockfish north         N of 40°10' N. lat.         1,688.9         Amendment 21         81%         1,368.0         19%         320.9           Slope rockfish south         S of 40°10' N. lat.         565.8         91%         514.9         9%         50.9           Other fish         Coastwide         441.0         None					60.2%	1,181.8	39.8%	781.4
Slope rockfish north								1,384.4
Slope rockfish south   S of 40°10' N. lat.   565.8   91%   514.9   9%   50.9								320.9
Other fish         Coastwide         441.0         None           Other flatfish         Coastwide         7,077.0         Amendment 21         90%         6,369.3         10%         707.7           Pacific cod         Coastwide         1,091.0         Amendment 21         95%         1,036.4         5%         54.5           Pacific whiting c/         Coastwide         266,683         Amendment 21         100%         266,683         0%         0.0           Petrale sole         Coastwide         2,772.1         Amendment 21         95%         2,663.5         5%         138.0           POP         N of 40°10' N. lat.         151.6         Amendment 21         95%         144.0         5%         7.0           Sablefish         S of 36° N. lat.         1,115.0         Amendment 21         42%         468.3         58%         646.7           Shortspine thornyhead         N of 34°27' N. lat.         1,639.0         Amendment 21         95%         1,557.0         5%         81.9           Spiny dogfish         Coastwide         1,745.0         None         None         NA         50.0         NA         805.7           Starry flounder         Coastwide         1,271.7         Amendment 21		S of 40°10' N. lat.	565.8		91%	·	9%	50.9
Other flatfish         Coastwide         7,077.0         Amendment 21         90%         6,369.3         10%         707.7           Pacific cod         Coastwide         1,091.0         Amendment 21         95%         1,036.4         5%         54.5           Pacific whiting c/         Coastwide         266,683         Amendment 21         100%         266,683         0%         0.0           Petrale sole         Coastwide         2,772.1         Amendment 21         95%         2,663.5         5%         138.0           POP         N of 40°10' N. lat.         151.6         Amendment 21         95%         144.0         5%         7.0           Sablefish         S of 36° N. lat.         1,115.0         Amendment 21         42%         468.3         58%         646.7           Shortspine thornyhead         N of 34°27' N. lat.         1,639.0         Amendment 21         95%         1,557.0         5%         81.5           Spiny dogfish         Coastwide         1,745.0         None         NA         50.0         NA         805.7           Spiltnose rockfish         S of 40°10' N. lat.         1,750.3         Amendment 21         95%         1,662.8         5%         87.5           Starry flounder </td <td>-</td> <td></td> <td>1</td> <td>None</td> <td></td> <td></td> <td></td> <td></td>	-		1	None				
Pacific cod         Coastwide         1,091.0         Amendment 21         95%         1,036.4         5%         54.5           Pacific whiting c/         Coastwide         266,683         Amendment 21         100%         266,683         0%         0.0           Petrale sole         Coastwide         2,772.1         Amendment 21         95%         2,663.5         5%         138.6           POP         N of 40°10' N. lat.         151.6         Amendment 21         95%         144.0         5%         7.6           Sablefish         S of 36° N. lat.         1,115.0         Amendment 21         42%         468.3         58%         646.           Shortbelly rockfish         Coastwide         489.1         None         0.0				Amendment 21	90%	6,369.3	10%	707.7
Pacific whiting c/         Coastwide         266,683         Amendment 21         100%         266,683         0%         0.0           Petrale sole         Coastwide         2,772.1         Amendment 21         95%         2,663.5         5%         138.6           POP         N of 40°10' N. lat.         151.6         Amendment 21         95%         144.0         5%         7.6           Sablefish         S of 36° N. lat.         1,115.0         Amendment 21         42%         468.3         58%         646.7           Shortbelly rockfish         Coastwide         489.1         None         0.0         0.								54.5
Petrale sole         Coastwide         2,772.1         Amendment 21         95%         2,663.5         5%         138.6           POP         N of 40°10' N. lat.         151.6         Amendment 21         95%         144.0         5%         7.6           Sablefish         S of 36° N. lat.         1,115.0         Amendment 21         42%         468.3         58%         646.7           Shortbelly rockfish         Coastwide         489.1         None         0.0         0.0           Shortspine thornyhead         N of 34°27' N. lat.         1,639.0         Amendment 21         95%         1,557.0         5%         81.9           Shortspine thornyhead         S of 34°27' N. lat.         855.7         Amendment 21         NA         50.0         NA         805.7           Spiny dogfish         Coastwide         1,745.0         None         0.0				Amendment 21				0.0
POP         N of 40°10' N. lat.         151.6         Amendment 21         95%         144.0         5%         7.0           Sablefish         S of 36° N. lat.         1,115.0         Amendment 21         42%         468.3         58%         646.7           Shortbelly rockfish         Coastwide         489.1         None         0.0         0.0           Shortspine thornyhead         N of 34°27' N. lat.         1,639.0         Amendment 21         95%         1,557.0         5%         81.5           Shortspine thornyhead         S of 34°27' N. lat.         855.7         Amendment 21         NA         50.0         NA         805.7           Spiny dogfish         Coastwide         1,745.0         None	<u> </u>		· · · · · · · · · · · · · · · · · · ·	Amendment 21				138.6
Sablefish         S of 36° N. lat.         1,115.0         Amendment 21         42%         468.3         58%         646.7           Shortbelly rockfish         Coastwide         489.1         None         0.0           Shortspine thornyhead         N of 34°27' N. lat.         1,639.0         Amendment 21         95%         1,557.0         5%         81.5           Shortspine thornyhead         S of 34°27' N. lat.         855.7         Amendment 21         NA         50.0         NA         805.7           Spiny dogfish         Coastwide         1,745.0         None								7.6
Shortbelly rockfish         Coastwide         489.1         None         0.0           Shortspine thornyhead         N of 34°27′ N. lat.         1,639.0         Amendment 21         95%         1,557.0         5%         81.5           Shortspine thornyhead         S of 34°27′ N. lat.         855.7         Amendment 21         NA         50.0         NA         805.7           Spiny dogfish         Coastwide         1,745.0         None								646.7
Shortspine thornyhead         N of 34°27' N. lat.         1,639.0         Amendment 21         95%         1,557.0         5%         81.9           Shortspine thornyhead         S of 34°27' N. lat.         855.7         Amendment 21         NA         50.0         NA         805.7           Spiny dogfish         Coastwide         1,745.0         None			-					0.0
Shortspine thornyhead         S of 34°27' N. lat.         855.7         Amendment 21         NA         50.0         NA         805.7           Spiny dogfish         Coastwide         1,745.0         None </td <td>•</td> <td></td> <td></td> <td></td> <td>95%</td> <td>1,557.0</td> <td>5%</td> <td>81.9</td>	•				95%	1,557.0	5%	81.9
Spiny dogfish         Coastwide         1,745.0         None         Splitnose rockfish         S of 40°10' N. lat.         1,750.3         Amendment 21         95%         1,662.8         5%         87.5           Starry flounder         Coastwide         1,271.7         Amendment 21         50%         635.9         50%         635.9           Widow rockfish         Coastwide         1,782.3         Amendment 21         91%         1,621.9         9%         160.4           YELLOWEYE         Coastwide         14.0         Biennial         N/A         1.1         N/A         12.9								805.7
Splitnose rockfish         S of 40°10' N. lat.         1,750.3         Amendment 21         95%         1,662.8         5%         87.5           Starry flounder         Coastwide         1,271.7         Amendment 21         50%         635.9         50%         635.9           Widow rockfish         Coastwide         1,782.3         Amendment 21         91%         1,621.9         9%         160.4           YELLOWEYE         Coastwide         14.0         Biennial         N/A         1.1         N/A         12.9	1 ,						-	
Starry flounder         Coastwide         1,271.7         Amendment 21         50%         635.9         50%         635.9           Widow rockfish         Coastwide         1,782.3         Amendment 21         91%         1,621.9         9%         160.4           YELLOWEYE         Coastwide         14.0         Biennial         N/A         1.1         N/A         12.9			-		95%	1,662.8	5%	87.5
Widow rockfish         Coastwide         1,782.3         Amendment 21         91%         1,621.9         9%         160.4           YELLOWEYE         Coastwide         14.0         Biennial         N/A         1.1         N/A         12.9	1		-			·		635.9
YELLOWEYE Coastwide 14.0 Biennial N/A 1.1 N/A 12.5								160.4
								12.9
Yellowtail rockfish N of 40°10' N. lat.   4,972.1   Amendment 21   88%   4,375.4   12%   596.0				Amendment 21				596.6

a/ The California scorpionfish fishery harvest guideline (258.8 mt) would be further reduced to an ACT of 111 mt.

b/ The cowcod fishery harvest guideline (8 mt) would be further reduced to an ACT of 4 mt.

c/ The Pacific whiting TAC was unavailable during the preparation of the analysis; therefore, the 2015 values were used.

REVISED Table 4-5. No Action Alternative. Estimates of tribal, research, recreational (Rec), and EFP mortality (in mt), used to calculate the fishery sablefish commercial harvest guideline north of  $36^{\circ}$  N. latitude for 2017 and 2018.

Stock	Year	ACL (mt)	Tribal Share (mt)	Research (mt)	Rec.	EFP (mt)	Commercial HG (mt)
Soblefish N of 26° N let	2017	6,041	604	26	6.1	1	5,404
Sablefish N. of 36° N. lat.	2018	6,299	630	26	6.1	1	5,636

a' The sablefish allocation to Pacific coast treaty Indian Tribes would be 10 percent of the sablefish ACL for the area north of 36° N. lat. This allocation represents the total amount available to the treaty Indian fisheries before deductions for discard mortality.

REVISED Table 4-68. Alternative 1. 2017 ACLs and estimates of tribal, EFP, research, and incidental open access (OA) mortality (in mt), used to calculate the fishery harvest guideline (HG). All other ACL values are the same as under No Action.

Big skate	Species	Area	ACL	Tribal	EFP	Research	OA	HG
Black (OR)	Arrowtooth flounder	Coastwide	13,804	2,041.0		16.4	40.8	11,705.9
Black (OR)	Big skate	Coastwide	494	15.0		4.0	38.4	436.6
Black (CA)	Black (WA)	Washington	305	18.0		-	-	287.0
BOCACCIO	Black (OR)	Oregon	527			-	0.6	526.4
Cabezon (OR)	Black (CA)	California	319		1.0			318.0
Cabezon (CA)         S of 42° N. lat.         150         -         0.3         149.7           California scorpionfish         S of 34°27' N. lat.         150         0.2         2.0         147.8           Canary rockfish         Coastwide         857         35.0         1.0         7.2         1.2         812.6           Chilipepper         S of 40°10' N. lat.         2.607         10.0         10.9         5.0         2,581.1           COWCOD         S of 40°10' N. lat.         10         0.015         2.0         0.0         8.0           DARKBLOTCHED         Coastwide         641         0.2         0.1         2.5         24.5         613.8           Dover sole         Coastwide         50,000         1,497.0         41.9         54.8         48.406.3           English sole         Coastwide         9.964         200.0         5.8         7.0         9.751.2           Lingcod         N of 40°10° N. lat.         1,251         1.0         1.1         6.9         1,242.0           Longspine thornyhead         N of 34°27' N. lat.         2,894         30.0         13.5         3.3         2,847.1           Longspine thornyhead         S of 40°10' N. lat.         1.05 <t< td=""><td>BOCACCIO</td><td>S of 40°10' N. lat.</td><td>790</td><td></td><td>3.0</td><td>4.6</td><td>0.8</td><td>781.6</td></t<>	BOCACCIO	S of 40°10' N. lat.	790		3.0	4.6	0.8	781.6
California scorpionfish         S of 34°27' N. lat.         150         0.2         2.0         147.8           Canary rockfish         Coastwide         857         35.0         1.0         7.2         1.2         812.6           Chilipepper         S of 40°10' N. lat.         2,607         10.0         10.9         5.0         2,581.1           COWCOD         S of 40°10' N. lat.         10         0.015         2.0         0.0         8.0           DARKBLOTCHED         Coastwide         641         0.2         0.1         2.5         24.5         613.8           Dover sole         Coastwide         50,000         1,497.0         41.9         54.8         48,406.2           English sole         Coastwide         9,964         200.0         5.8         7.0         9,751.2           Lingcod         N of 40°10° N. lat.         3,333         250.0         0.5         11.7         16.0         3,054.8           Lingsod         S of 40°10° N. lat.         1,251         1.0         1.1         6.9         1,242.6           Longspine thornyhead         N of 34°27' N. lat.         2,894         30.0         13.5         3.3         2,847.2           Longspine thornyhead         S of 40	Cabezon (OR)	46°16' to 42° N. lat.	47			-		47.0
Canary rockfish         Coastwide         857         35.0         1.0         7.2         1.2         812.6           Chilipepper         S of 40°10° N. lat.         2,607         10.0         10.9         5.0         2,581.1           COWCOD         S of 40°10° N. lat.         10         0.015         2.0         0.0         8.0           DARKBLOTCHED         Coastwide         641         0.2         0.1         2.5         24.5         613.8           Dover sole         Coastwide         50,000         1,497.0         41.9         54.8         48.406.3           English sole         Coastwide         9,964         200.0         5.8         7.0         9,751.2           Lingcod         N of 40'10° N. lat.         1,251         1.0         1.1         6.9         1,242.0           Longspod         S of 40'10° N. lat.         1,251         1.0         1.1         6.9         1,242.0           Longspod         S of 40'10° N. lat.         1,251         1.0         1.1         6.9         1,242.0           Longspose skate         Coastwide         2,000         130.0         13.5         3.3         2,847.2           Longspine thornyhead         N of 34°27' N. lat. <t< td=""><td>Cabezon (CA)</td><td>S of 42° N. lat.</td><td>150</td><td></td><td></td><td>-</td><td>0.3</td><td>149.7</td></t<>	Cabezon (CA)	S of 42° N. lat.	150			-	0.3	149.7
Chilipepper	California scorpionfish	S of 34°27' N. lat.	150			0.2	2.0	147.8
COWCOD         S of 40°10' N. lat.         10         0.015         2.0         0.0         8.0           DARKBLOTCHED         Coastwide         641         0.2         0.1         2.5         24.5         613.8           Dover sole         Coastwide         50,000         1,497.0         41.9         54.8         48,406.3           English sole         Coastwide         9,964         200.0         5.8         7.0         9,751.2           Lingcod         N of 40°10° N. lat.         3,333         250.0         0.5         11.7         16.0         3,054.8           Lingcod         S of 40°10° N. lat.         1,251         1.0         1.1         6.9         1,242.0           Longspine thornyhead         N of 3*27' N. lat.         2,894         30.0         13.2         3.8         1,853.2           Longspine thornyhead         S of 34°27' N. lat.         914         1.4         1.8         1910.8           Nearshore rockfish north         N of 40°10' N. lat.         105         1.5         -         0.3         103.2           Nearshore rockfish north         N of 40°10' N. lat.         1,163         2.7         1.4         1,158.5           Shelf rockfish north         N of 40°10' N. lat.	Canary rockfish	Coastwide	857	35.0	1.0	7.2	1.2	812.6
DARKBLOTCHED   Coastwide   Coastwide   50,000   1,497.0   41.9   54.8   48,406.3	Chilipepper	S of 40°10' N. lat.	2,607		10.0	10.9	5.0	2,581.1
Dover sole	COWCOD	S of 40°10' N. lat.	10		0.015	2.0	0.0	8.0
English sole         Coastwide         9,964         200.0         5.8         7.0         9,751.2           Lingcod         N of 40'10° N. lat.         3,333         250.0         0.5         11.7         16.0         3,054.8           Lingcod         S of 40'10° N. lat.         1,251         1.0         1.1         6.9         1,242.0           Longspine thornyhead         N of 34°27' N. lat.         2,894         30.0         13.5         3.3         2,847.2           Longspine thornyhead         S of 34°27' N. lat.         914         1.4         1.8         910.8           Nearshore rockfish north         N of 40°10' N. lat.         105         1.5         -         0.3         103.2           Nearshore rockfish south         S of 40°10' N. lat.         1,163         2.7         1.4         1,158.9           Shelf rockfish south         N of 40°10' N. lat.         1,663         2.7         1.4         1,158.9           Shelf rockfish south         N of 40°10' N. lat.         1,623         30.0         8.6         8.6         1,575.8           Slope rockfish south         S of 40°10' N. lat.         1,755         36.0         1.0         9.5         18.6         1,689.9           Slope rockfish south	DARKBLOTCHED	Coastwide	641	0.2	0.1	2.5	24.5	613.8
Lingcod         N of 40'10° N. lat.         3,333         250.0         0.5         11.7         16.0         3,054.8           Lingcod         S of 40'10° N. lat.         1,251         1.0         1.1         6.9         1,242.0           Longspine thornyhead         N of 34°27' N. lat.         2,000         130.0         13.2         3.8         1,853.0           Longspine thornyhead         N of 34°27' N. lat.         2,894         30.0         13.5         3.3         2,847.2           Longspine thornyhead         S of 34°27' N. lat.         914         1.4         1.8         910.8           Nearshore rockfish north         N of 40°10' N. lat.         1.05         1.5         -         0.3         103.2           Nearshore rockfish south         S of 40°10' N. lat.         1,163         2.7         1.4         1,158.5           Shelf rockfish south         N of 40°10' N. lat.         1,663         2.7         1.4         1,158.5           Shelf rockfish south         S of 40°10' N. lat.         1,623         30.0         8.6         8.6         1,575.8           Slope rockfish north         N of 40°10' N. lat.         1,755         36.0         1.0         9.5         18.6         1,689.2           Slope roc	Dover sole	Coastwide	50,000	1,497.0		41.9	54.8	48,406.3
Lingcod	English sole	Coastwide	9,964	200.0		5.8	7.0	9,751.2
Longnose skate	Lingcod	N of 40'10° N. lat.	3,333	250.0	0.5	11.7	16.0	3,054.8
Longspine thornyhead	Lingcod	S of 40'10° N. lat.	1,251		1.0	1.1	6.9	1,242.0
Longspine thornyhead	Longnose skate	Coastwide	2,000	130.0		13.2	3.8	1,853.0
Nearshore rockfish north         N of 40°10' N. lat.         105         1.5         -         0.3         103.2           Nearshore rockfish south         S of 40°10' N. lat.         1,163         2.7         1.4         1,158.9           Shelf rockfish north         N of 40°10' N. lat.         2,049         30.0         3.0         24.8         26.0         1,965.2           Shelf rockfish south         S of 40°10' N. lat.         1,623         30.0         8.6         8.6         1,575.8           Slope rockfish north         N of 40°10' N. lat.         1,755         36.0         1.0         9.5         18.6         1,689.9           Slope rockfish south         S of 40°10' N. lat.         707         1.0         2.0         17.2         686.8           Other fish         Coastwide         474         -         -         474.0         -         474.0         -         -         474.0         -         -         -         686.8         -         -         -         -         686.8         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	Longspine thornyhead	N of 34°27' N. lat.	2,894	30.0		13.5	3.3	2,847.2
Nearshore rockfish south         S of 40°10' N. lat.         1,163         2.7         1.4         1,158.9           Shelf rockfish north         N of 40°10' N. lat.         2,049         30.0         3.0         24.8         26.0         1,965.2           Shelf rockfish south         S of 40°10' N. lat.         1,623         30.0         8.6         8.6         1,575.8           Slope rockfish north         N of 40°10' N. lat.         1,755         36.0         1.0         9.5         18.6         1,689.9           Slope rockfish south         S of 40°10' N. lat.         707         1.0         2.0         17.2         686.8           Other fish         Coastwide         474         474.0         <	Longspine thornyhead	S of 34°27' N. lat.	914			1.4	1.8	910.8
Shelf rockfish north         N of 40°10' N. lat.         2,049         30.0         3.0         24.8         26.0         1,965.2           Shelf rockfish south         S of 40°10' N. lat.         1,623         30.0         8.6         8.6         1,575.8           Slope rockfish north         N of 40°10' N. lat.         1,755         36.0         1.0         9.5         18.6         1,689.9           Slope rockfish south         S of 40°10' N. lat.         707         1.0         2.0         17.2         686.8           Other fish         Coastwide         474	Nearshore rockfish north	N of 40°10' N. lat.	105	1.5		-	0.3	103.2
Shelf rockfish south         S of 40°10' N. lat.         1,623         30.0         8.6         8.6         1,575.8           Slope rockfish north         N of 40°10' N. lat.         1,755         36.0         1.0         9.5         18.6         1,689.9           Slope rockfish south         S of 40°10' N. lat.         707         1.0         2.0         17.2         686.8           Other fish         Coastwide         474         474.0         474.0           Other flatfish         Coastwide         8,510         60.0         19.0         125.0         8,306.0           Pacific cod         Coastwide         1,600         500.0         7.0         2.0         1,091.0           Pacific whiting         Coastwide         325,072         56,888.0         1.0         1,500.0         266,683.0           Petrale sole         Coastwide         3,136         220.0         17.7         3.2         2,895.1           POP         N of 40°10' N. lat.         171         9.2         5.2         10.0         146.6           Sablefish         S of 36° N. lat.         1,075         3.0         2.0         1,070.0           Shortspine thornyhead         N of 34°27' N. lat.         1,713         50.0	Nearshore rockfish south	S of 40°10' N. lat.	1,163			2.7	1.4	1,158.9
Slope rockfish north         N of 40°10' N. lat.         1,755         36.0         1.0         9.5         18.6         1,689.9           Slope rockfish south         S of 40°10' N. lat.         707         1.0         2.0         17.2         686.8           Other fish         Coastwide         474         1.0         2.0         17.2         686.8           Other flatfish         Coastwide         8,510         60.0         19.0         125.0         8,306.0           Pacific cod         Coastwide         1,600         500.0         7.0         2.0         1,091.0           Pacific whiting         Coastwide         325,072         56,888.0         1.0         1,500.0         266,683.0           Petrale sole         Coastwide         3,136         220.0         17.7         3.2         2,895.1           POP         N of 40°10' N. lat.         171         9.2         5.2         10.0         146.6           Sablefish         S of 36° N. lat.         1,075         3.0         2.0         1,070.0           Shortbelly         Coastwide         500         2.0         8.9         489.1           Shortspine thornyhead         N of 34°27' N. lat.         1,713         50.0         7	Shelf rockfish north	N of 40°10' N. lat.	2,049	30.0	3.0	24.8	26.0	1,965.2
Slope rockfish south         S of 40°10' N. lat.         707         1.0         2.0         17.2         686.8           Other fish         Coastwide         474         474.0         474.0           Other flatfish         Coastwide         8,510         60.0         19.0         125.0         8,306.0           Pacific cod         Coastwide         1,600         500.0         7.0         2.0         1,091.0           Pacific whiting         Coastwide         325,072         56,888.0         1.0         1,500.0         266,683.0           Petrale sole         Coastwide         3,136         220.0         17.7         3.2         2,895.1           POP         N of 40°10' N. lat.         171         9.2         5.2         10.0         146.6           Sablefish         S of 36° N. lat.         1,075         3.0         2.0         1,070.0           Shortspine thornyhead         N of 34°27' N. lat.         1,713         50.0         7.2         1.8         1,654.0           Spiny dogfish         Coastwide         2,094         275.0         1.0         12.5         49.5         1,756.0           Splitnose         S of 40°10' N. lat.         1,760         1.5         9.0         0.	Shelf rockfish south	S of 40°10' N. lat.	1,623		30.0	8.6	8.6	1,575.8
Other fish         Coastwide         474         474.0           Other flatfish         Coastwide         8,510         60.0         19.0         125.0         8,306.0           Pacific cod         Coastwide         1,600         500.0         7.0         2.0         1,091.0           Pacific whiting         Coastwide         325,072         56,888.0         1.0         1,500.0         266,683.0           Petrale sole         Coastwide         3,136         220.0         17.7         3.2         2,895.1           POP         N of 40°10' N. lat.         171         9.2         5.2         10.0         146.6           Sablefish         S of 36° N. lat.         1,075         3.0         2.0         1,070.0           Shortspine thornyhead         N of 34°27' N. lat.         1,713         50.0         7.2         1.8         1,654.0           Spiny dogfish         Coastwide         2,094         275.0         1.0         12.5         49.5         1,756.0           Splitnose         S of 40°10' N. lat.         1,760         1.5         9.0         0.2         1,749.3           Starry flounder         Coastwide         1,3508         200.0         9.0         8.2         0.5	Slope rockfish north	N of 40°10' N. lat.	1,755	36.0	1.0	9.5	18.6	1,689.9
Other flatfish         Coastwide         8,510         60.0         19.0         125.0         8,306.0           Pacific cod         Coastwide         1,600         500.0         7.0         2.0         1,091.0           Pacific whiting         Coastwide         325,072         56,888.0         1.0         1,500.0         266,683.0           Petrale sole         Coastwide         3,136         220.0         17.7         3.2         2,895.1           POP         N of 40°10' N. lat.         171         9.2         5.2         10.0         146.6           Sablefish         S of 36° N. lat.         1,075         3.0         2.0         1,070.0           Shortbelly         Coastwide         500         2.0         8.9         489.1           Shortspine thornyhead         N of 34°27' N. lat.         1,713         50.0         7.2         1.8         1,654.0           Spiny dogfish         Coastwide         2,094         275.0         1.0         12.5         49.5         1,756.0           Splitnose         S of 40°10' N. lat.         1,760         1.5         9.0         0.2         1,749.3           Starry flounder         Coastwide         1,282         2.0         8.3	Slope rockfish south	S of 40°10' N. lat.	707		1.0	2.0	17.2	686.8
Pacific cod         Coastwide         1,600         500.0         7.0         2.0         1,091.0           Pacific whiting         Coastwide         325,072         56,888.0         1.0         1,500.0         266,683.0           Petrale sole         Coastwide         3,136         220.0         17.7         3.2         2,895.1           POP         N of 40°10' N. lat.         171         9.2         5.2         10.0         146.6           Sablefish         S of 36° N. lat.         1,075         3.0         2.0         1,070.0           Shortbelly         Coastwide         500         2.0         8.9         489.1           Shortspine thornyhead         N of 34°27' N. lat.         1,713         50.0         7.2         1.8         1,654.0           Spiny dogfish         Coastwide         2,094         275.0         1.0         12.5         49.5         1,756.0           Splitnose         S of 40°10' N. lat.         1,760         1.5         9.0         0.2         1,749.3           Starry flounder         Coastwide         1,282         2.0         8.3         1,271.7           Widow rockfish         Coastwide         13,508         200.0         9.0         8.2	Other fish	Coastwide	474					474.0
Pacific cod         Coastwide         1,600         500.0         7.0         2.0         1,091.0           Pacific whiting         Coastwide         325,072         56,888.0         1.0         1,500.0         266,683.0           Petrale sole         Coastwide         3,136         220.0         17.7         3.2         2,895.1           POP         N of 40°10' N. lat.         171         9.2         5.2         10.0         146.6           Sablefish         S of 36° N. lat.         1,075         3.0         2.0         1,070.0           Shortbelly         Coastwide         500         2.0         8.9         489.1           Shortspine thornyhead         N of 34°27' N. lat.         1,713         50.0         7.2         1.8         1,654.0           Spiny dogfish         Coastwide         2,094         275.0         1.0         12.5         49.5         1,756.0           Splitnose         S of 40°10' N. lat.         1,760         1.5         9.0         0.2         1,749.3           Starry flounder         Coastwide         1,282         2.0         8.3         1,271.7           Widow rockfish         Coastwide         13,508         200.0         9.0         8.2	Other flatfish	Coastwide	8,510	60.0		19.0	125.0	8,306.0
Petrale sole         Coastwide         3,136         220.0         17.7         3.2         2,895.1           POP         N of 40°10' N. lat.         171         9.2         5.2         10.0         146.6           Sablefish         S of 36° N. lat.         1,075         3.0         2.0         1,070.0           Shortbelly         Coastwide         500         2.0         8.9         489.1           Shortspine thornyhead         N of 34°27' N. lat.         1,713         50.0         7.2         1.8         1,654.0           Shortspine thornyhead         S of 34°27' N. lat.         906         1.0         41.3         863.7           Spiny dogfish         Coastwide         2,094         275.0         1.0         12.5         49.5         1,756.0           Splitnose         S of 40°10' N. lat.         1,760         1.5         9.0         0.2         1,749.3           Starry flounder         Coastwide         1,282         2.0         8.3         1,271.7           Widow rockfish         Coastwide         13,508         200.0         9.0         8.2         0.5         13,290.3	Pacific cod	Coastwide	1,600	500.0		7.0	2.0	1,091.0
POP         N of 40°10' N. lat.         171         9.2         5.2         10.0         146.6           Sablefish         S of 36° N. lat.         1,075         3.0         2.0         1,070.0           Shortbelly         Coastwide         500         2.0         8.9         489.1           Shortspine thornyhead         N of 34°27' N. lat.         1,713         50.0         7.2         1.8         1,654.0           Shortspine thornyhead         S of 34°27' N. lat.         906         1.0         41.3         863.7           Spiny dogfish         Coastwide         2,094         275.0         1.0         12.5         49.5         1,756.0           Splitnose         S of 40°10' N. lat.         1,760         1.5         9.0         0.2         1,749.3           Starry flounder         Coastwide         1,282         2.0         8.3         1,271.7           Widow rockfish         Coastwide         13,508         200.0         9.0         8.2         0.5         13,290.3	Pacific whiting	Coastwide	325,072	56,888.0	1.0		1,500.0	266,683.0
Sablefish         S of 36° N. lat.         1,075         3.0         2.0         1,070.0           Shortbelly         Coastwide         500         2.0         8.9         489.1           Shortspine thornyhead         N of 34°27' N. lat.         1,713         50.0         7.2         1.8         1,654.0           Shortspine thornyhead         S of 34°27' N. lat.         906         1.0         41.3         863.7           Spiny dogfish         Coastwide         2,094         275.0         1.0         12.5         49.5         1,756.0           Splitnose         S of 40°10' N. lat.         1,760         1.5         9.0         0.2         1,749.3           Starry flounder         Coastwide         1,282         2.0         8.3         1,271.7           Widow rockfish         Coastwide         13,508         200.0         9.0         8.2         0.5         13,290.3	Petrale sole	Coastwide	3,136	220.0		17.7	3.2	2,895.1
Shortbelly         Coastwide         500         2.0         8.9         489.1           Shortspine thornyhead         N of 34°27' N. lat.         1,713         50.0         7.2         1.8         1,654.0           Shortspine thornyhead         S of 34°27' N. lat.         906         1.0         41.3         863.7           Spiny dogfish         Coastwide         2,094         275.0         1.0         12.5         49.5         1,756.0           Splitnose         S of 40°10' N. lat.         1,760         1.5         9.0         0.2         1,749.3           Starry flounder         Coastwide         1,282         2.0         8.3         1,271.7           Widow rockfish         Coastwide         13,508         200.0         9.0         8.2         0.5         13,290.3	POP	N of 40°10' N. lat.	171	9.2		5.2	10.0	146.6
Shortspine thornyhead         N of 34°27' N. lat.         1,713         50.0         7.2         1.8         1,654.0           Shortspine thornyhead         S of 34°27' N. lat.         906         1.0         41.3         863.7           Spiny dogfish         Coastwide         2,094         275.0         1.0         12.5         49.5         1,756.0           Splitnose         S of 40°10' N. lat.         1,760         1.5         9.0         0.2         1,749.3           Starry flounder         Coastwide         1,282         2.0         8.3         1,271.7           Widow rockfish         Coastwide         13,508         200.0         9.0         8.2         0.5         13,290.3	Sablefish	S of 36° N. lat.	1,075			3.0	2.0	1,070.0
Shortspine thornyhead         S of 34°27' N. lat.         906         1.0         41.3         863.7           Spiny dogfish         Coastwide         2,094         275.0         1.0         12.5         49.5         1,756.0           Splitnose         S of 40°10' N. lat.         1,760         1.5         9.0         0.2         1,749.3           Starry flounder         Coastwide         1,282         2.0         8.3         1,271.7           Widow rockfish         Coastwide         13,508         200.0         9.0         8.2         0.5         13,290.3	Shortbelly	Coastwide	500			2.0	8.9	489.1
Spiny dogfish         Coastwide         2,094         275.0         1.0         12.5         49.5         1,756.0           Splitnose         S of 40°10' N. lat.         1,760         1.5         9.0         0.2         1,749.3           Starry flounder         Coastwide         1,282         2.0         8.3         1,271.7           Widow rockfish         Coastwide         13,508         200.0         9.0         8.2         0.5         13,290.3	Shortspine thornyhead	N of 34°27' N. lat.	1,713	50.0		7.2	1.8	1,654.0
Splitnose         S of 40°10' N. lat.         1,760         1.5         9.0         0.2         1,749.3           Starry flounder         Coastwide         1,282         2.0         8.3         1,271.7           Widow rockfish         Coastwide         13,508         200.0         9.0         8.2         0.5         13,290.3	Shortspine thornyhead	S of 34°27' N. lat.	906			1.0	41.3	863.7
Splitnose         S of 40°10' N. lat.         1,760         1.5         9.0         0.2         1,749.3           Starry flounder         Coastwide         1,282         2.0         8.3         1,271.7           Widow rockfish         Coastwide         13,508         200.0         9.0         8.2         0.5         13,290.3	Spiny dogfish	Coastwide	2,094	275.0	1.0	12.5	49.5	1,756.0
Starry flounder         Coastwide         1,282         2.0         8.3         1,271.7           Widow rockfish         Coastwide         13,508         200.0         9.0         8.2         0.5         13,290.3		S of 40°10' N. lat.	1,760		1.5	9.0	0.2	1,749.3
Widow rockfish         Coastwide         13,508         200.0         9.0         8.2         0.5         13,290.3	1			2.0				1,271.7
· · · · · · · · · · · · · · · · · · ·	•				9.0	8.2		13,290.3
								14.0
								5,166.1

a/The Pacific whiting total allowable catch was unavailable during the preparation of the analysis; therefore, the 2015 values were used.

REVISED Table 4-69. Alternative 1. Stock specific fishery harvest guidelines (HG) or annual catch targets (ACT) and allocations for 2017 (in mt). All other values are the same as under No Action.

		Fishery		Tı	rawl	Non-trawl		
Species	Area	HG or ACT	Allocation Type	%	Mt	%	Mt	
Arrowtooth flounder	Coastwide	11,705.9	Amendment 21	95%	11,120.6	5%	585.3	
Big skate	Coastwide	436.6	Biennial	95%	414.8	5%	21.8	
Black (WA)	N of 46°16'	287.0	None					
Black (OR)	46°16' to 42° N. lat.	526.4	None					
Black (CA)	S of 42° N. lat.	318.0	None					
BOCACCIO	S of 40°10' N. lat.	781.6	Biennial	N/A	187.9	N/A	593.7	
Cabezon (OR)	46°16' to 42° N. lat.	47.0	None					
Cabezon (CA)	S of 42° N. lat.	149.7	None					
California scorpionfish a/	S of 34°27' N. lat.	111.0	None					
Canary rockfish	Coastwide	812.6	Biennial	N/A	432.9	N/A	379.7	
Chilipepper	S of 40°10' N. lat.	2,581.1	Amendment 21	75%	1,935.8	25%	645.3	
COWCOD b/	S of 40°10' N. lat.	4.0	Biennial	N/A	1.4	N/A	2.6	
DARKBLOTCHED	Coastwide	613.8	Amendment 21	95%	583.1	5%	30.7	
Dover sole	Coastwide	48,406.3	Amendment 21	95%	45,986.0	5%	2,420.3	
English sole	Coastwide	9,751.2	Amendment 21	95%	9,263.6	5%	487.6	
Lingcod	N of 40'10° N. lat.	3,054.8	Amendment 21	45%	1,374.7	55%	1,680.2	
Lingcod	S of 40'10° N. lat.	1,242.0	Amendment 21	45%	558.9	55%	683.1	
Longnose skate	Coastwide	1,853.0	Biennial	90%	1,667.7	10%	185.3	
Longspine thornyhead	N of 34°27' N. lat.	2,847.2	Amendment 21	95%	2,704.8	5%	142.4	
Longspine thornyhead	S of 34°27' N. lat.	910.8	None					
Nearshore rockfish north	N of 40°10' N. lat.	103.2	None					
Nearshore rockfish south	S of 40°10' N. lat.	1,158.9	None					
Shelf rockfish north	N of 40°10' N. lat.	1,965.2	Biennial	60.2%	1,183.1	39.8%	782.1	
Shelf rockfish south	S of 40°10' N. lat.	1,575.8	Biennial	12.2%	192.2	87.8%	1,383.6	
Slope rockfish north	N of 40°10' N. lat.	1,689.9	Amendment 21	81%	1,368.8	19%	321.1	
Slope rockfish south	S of 40°10' N. lat.	686.8	Amendment 21	63%	432.7	37%	254.1	
Other fish	Coastwide	474.0	None					
Other flatfish	Coastwide	8,306.0	Amendment 21	90%	7,475.4	10%	830.6	
Pacific cod	Coastwide	1,091.0	Amendment 21	95%	1,036.4	5%	54.5	
Pacific whiting c/	Coastwide	266,683.0	Amendment 21	100%	266,683.0	0%	0.0	
Petrale sole	Coastwide	2,895.1	Amendment 21	95%	2,750.3	5%	144.8	
POP	N of 40°10' N. lat.	146.6	Amendment 21	95%	139.3	5%	7.3	
Sablefish	S of 36° N. lat.	1,070.0	Amendment 21	42%	449.4	58%	620.6	
Shortbelly	Coastwide	489.1	None				0.0	
Shortspine thornyhead	N of 34°27' N. lat.	1,654.0	Amendment 21	95%	1,571.3	5%	82.7	
Shortspine thornyhead	S of 34°27' N. lat.	863.7	Amendment 21	NA	50.0	NA	813.7	
Spiny dogfish	Coastwide	1,756.0	None					
Splitnose	S of 40°10' N. lat.	1,749.3	Amendment 21	95%	1,661.8	5%	87.5	
Starry flounder	Coastwide	1,271.7	Amendment 21	50%	635.9	50%	635.9	
Widow rockfish	Coastwide	13,290.3	Amendment 21	91%	12,094.2	9%	1,196.1	
YELLOWEYE	Coastwide	14.0	Biennial	N/A	1.1	N/A	12.9	
Yellowtail rockfish	N of 40°10' N. lat.	5,166.1	Amendment 21	88%	4,546.1	12%	619.9	

a/ The California scorpionfish fishery harvest guideline (147.8 mt) is further reduced to an ACT of 111 mt b/ The cowcod fishery harvest guideline (8 mt) is further reduced to an ACT of 4 mt

<sup>&</sup>lt;sup>e</sup> Pacific whiting TAC forecasts for 2017-2018 were unavailable during the preparation of the analysis; therefore, the 2015 values were used.

REVISED Table 4-70. Alternative 1. 2018 ACLs and estimates of tribal, EFP, research, and incidental open access (OA) mortality (in mt), used to calculate the fishery harvest guideline (HG). All other values are the same as under No Action.

Species	Area	ACL	Tribal	EFP	Research	OA	HG
Arrowtooth flounder	Coastwide	13,743	2,041.0		16.4	40.8	11,644.9
Big skate	Coastwide	494	15.0		4.0	38.4	436.6
Black (WA)	Washington	301	18.0		-	-	283.0
Black (OR)	Oregon	520			-	0.6	519.4
Black (CA)	California	319		1.0			318.0
Blackgill	S of 40°10' N. lat.	123			0.5	0.1	122.4
BOCACCIO	S of 40°10' N. lat.	741		3.0	4.6	0.8	732.6
Cabezon (OR)	46°16' to 42° N. lat.	47			-		47.0
Cabezon (CA)	S of 42° N. lat.	149			-	0.3	148.7
California scorpionfish	S of 34°27' N. lat.	150			0.2	2.0	147.8
Canary rockfish	Coastwide	763	35.0	1.0	7.2	1.2	718.6
Chilipepper	S of 40°10' N. lat.	2,507		10.0	10.9	5.0	2,481.1
COWCOD	S of 40°10' N. lat.	10		0.015	2.0	0.0	8.0
DARKBLOTCHED	Coastwide	653	0.2	0.1	2.5	24.5	625.8
Dover sole	Coastwide	50,000	1,497.0		41.9	54.8	48,406.3
English sole	Coastwide	7,537	200.0		5.8	7.0	7,324.2
Lingcod	N of 40'10° N. lat.	3,110	250.0	0.5	11.7	16.0	2,831.8
Lingcod	S of 40'10° N. lat.	1,144		1.0	1.1	6.9	1,135.0
Longnose skate	Coastwide	2,000	130.0		13.2	3.8	1,853.0
Longspine thornyhead	N of 34°27' N. lat.	2,747	30.0		13.5	3.3	2,700.2
Longspine thornyhead	S of 34°27' N. lat.	867			1.4	1.8	863.8
Nearshore rockfish north	N of 40°10' N. lat.	105	1.5		-	0.3	103.2
Nearshore rockfish south	S of 40°10' N. lat.	1,179			2.7	1.4	1,174.9
Shelf rockfish north	N of 40°10' N. lat.	2,047	30.0	3.0	24.8	26.0	1,963.2
Shelf rockfish south	S of 40°10' N. lat.	1,624		30.0	8.6	8.6	1,576.8
Slope rockfish north	N of 40°10' N. lat.	1,754	36.0	1.0	9.5	18.6	1,688.9
Slope rockfish south	S of 40°10' N. lat.	586		1.0	2.0	17.2	565.8
Other fish	Coastwide	441					441.0
Other flatfish	Coastwide	7,281	60.0		19.0	125.0	7,077.0
Pacific cod	Coastwide	1,600	500.0		7.0	2.0	1,091.0
Pacific whiting a/	Coastwide	325,072	56,888.0	1.0		1,500.0	266,683.0
Petrale sole	Coastwide	3,013	220.0		17.7	3.2	2,772.1
POP	N of 40°10' N. lat.	176	9.2		5.2	10.0	151.6
Sablefish	S of 36° N. lat.	1,120			3.0	2.0	1,115.0
Shortbelly	Coastwide	500			2.0	8.9	489.1
Shortspine thornyhead	N of 34°27' N. lat.	1,698	50.0		7.2	1.8	1,639.0
Shortspine thornyhead	S of 34°27' N. lat.	898			1.0	41.3	855.7
Spiny dogfish	Coastwide	2,083	275.0	1.0	12.5	49.5	1,745.0
Splitnose	S of 40°10' N. lat.	1,761		1.5	9.0	0.2	1,750.3
Starry flounder	Coastwide	1,282	2.0			8.3	1,271.7
Widow rockfish	Coastwide	12,655	200.0	9.0	8.2	0.5	12,437.3
YELLOWEYE	Coastwide	20	2.3	0.03	3.27	0.4	14.0
Yellowtail rockfish	N of 40°10' N. lat.	6,002	1,000.0	10.0	16.6	3.4	4,972.1
Pacific whiting TAC forecasts			_ ′				

<sup>&</sup>lt;sup>a/</sup>Pacific whiting TAC forecasts for 2017-2018 were unavailable during the preparation of the analysis; therefore, the 2015 values were used.

REVISED Table 4-70. Alternative 1. Stock specific fishery harvest guidelines (HG) or annual catch targets (ACT) and allocations for 2018 (in mt). All other values are the same as under No Action.

		Fishery		Т	rawl	Non	-trawl
Species	Area	HG or	Allocation				
		ACT	Type	%	Mt	%	Mt
Arrowtooth flounder	Coastwide	11,644.9	Amendment 21	95%	11,062.6	5%	582.2
Big skate	Coastwide	436.6	Biennial	95%	414.8	5%	21.8
Black (WA)	N of 46°16'	283.0	None				
Black (OR)	46°16' to 42° N. lat.	519.4	None				
Black (CA)	S of 42° N. lat.	318.0	None				
Blackgill	S of 40°10' N. lat.	122.4	Amendment 26	41%	50.2	59%	72.2
BOCACCIO	S of 40°10' N. lat.	732.6	Biennial	N/A	176.1	N/A	556.5
Cabezon (OR)	46°16′ to 42° N. lat.	47.0	None				
Cabezon (CA)	S of 42° N. lat.	148.7	None				
California scorpionfish a/	S of 34°27' N. lat.	111.0	None				
Canary rockfish	Coastwide	718.6	Biennial	N/A	382.8	N/A	335.8
Chilipepper	S of 40°10' N. lat.	2,481.1	Amendment 21	75%	1,860.8	25%	620.3
COWCOD b/	S of 40°10' N. lat.	4.0	Biennial	N/A	1.4	N/A	2.6
DARKBLOTCHED	Coastwide	625.8	Amendment 21	95%	594.5	5%	31.3
Dover sole	Coastwide	48,406.3	Amendment 21	95%	45,986.0	5%	2,420.3
English sole	Coastwide	7,324.2	Amendment 21	95%	6,958.0	5%	366.2
Lingcod	N of 40'10° N. lat.	2,831.8	Amendment 21	45%	1,274.3	55%	1,557.5
Lingcod	S of 40'10° N. lat.	1,135.0	Amendment 21	45%	510.8	55%	624.3
Longnose skate	Coastwide	1,853.0	Biennial	90%	1,667.7	10%	185.3
Longspine thornyhead	N of 34°27' N. lat.	2,700.2	Amendment 21	95%	2,565.2	5%	135.0
Longspine thornyhead	S of 34°27' N. lat.	863.8	None				
Nearshore rockfish north	N of 40°10' N. lat.	103.2	None				
Nearshore rockfish south	S of 40°10' N. lat.	1,174.9	None				
Shelf rockfish north	N of 40°10' N. lat.	1,963.2	Biennial	60.2%	1,181.8	39.8%	781.4
Shelf rockfish south	S of 40°10' N. lat.	1,576.8	Biennial	12.2%	192.4	87.8%	1,384.4
Slope rockfish north	N of 40°10' N. lat.	1,688.9	Amendment 21	81%	1,368.0	19%	320.9
Slope rockfish south	S of 40°10' N. lat.	566.8		91%	514.9	9%	50.9
Other fish	Coastwide	441.0	None				
Other flatfish	Coastwide	7,077.0	Amendment 21	90%	6,369.3	10%	707.7
Pacific cod	Coastwide	1,091.0	Amendment 21	95%	1,036.4	5%	54.5
Pacific whiting c/	Coastwide	266,683.0	Amendment 21	100%	266,683.0	0%	0.0
Petrale sole	Coastwide	2,772.1	Amendment 21	95%	2,663.5	5%	138.6
POP	N of 40°10' N. lat.	151.6	Amendment 21	95%	144.0	5%	7.6
Sablefish	S of 36° N. lat.	1,115.0	Amendment 21	42%	468.3	58%	646.7
Shortbelly	Coastwide	489.1	None				0.0
Shortspine thornyhead	N of 34°27' N. lat.	1,639.0	Amendment 21	95%	1,557.0	5%	81.9
Shortspine thornyhead	S of 34°27' N. lat.	855.7	Amendment 21	NA	50.0	NA	805.7
Spiny dogfish	Coastwide	1,745.0	None				
Splitnose	S of 40°10' N. lat.	1,750.3	Amendment 21	95%	1,662.8	5%	87.5
Starry flounder	Coastwide	1,271.7	Amendment 21	50%	635.9	50%	635.9
Widow rockfish	Coastwide	12,437.3	Amendment 21	91%	11,317.9	9%	1,119.4
YELLOWEYE	Coastwide	14.0	Biennial	N/A	1.1	N/A	12.9
Yellowtail rockfish	N of 40°10' N. lat.	4,972.1	Amendment 21	88%	4,375.4	12%	596.6

a/ The California scorpionfish fishery harvest guideline (147.8 mt) is further reduced to an ACT of 111 mt

b/ The cowcod fishery harvest guideline (8 mt) is further reduced to an ACT of 4 mt

<sup>&</sup>lt;sup>c/</sup> Pacific whiting TAC forecasts for 2017-2018 were unavailable during the preparation of the analysis; therefore the 2015 values were used.

REVISED Table 4-81. Alternative 2. 2017 ACLs and estimates of tribal, EFP, research, and incidental open access (OA) mortality (in mt), used to calculate the fishery harvest guideline (HG). All other ACL values are the same as under No Action.

Species	Area	ACL	Tribal	EFP	Research	OA	HG
Arrowtooth flounder	Coastwide	13,804	2,041.0		16.4	40.8	11,705.9
Big skate	Coastwide	494	15.0		4.0	38.4	436.6
Black (WA)	Washington	305	18.0		-	-	287.0
Black (OR)	Oregon	527			-	0.6	526.4
Black (CA)	California	319		1.0			318.0
BOCACCIO	S of 40°10' N. lat.	790		3.0	4.6	0.8	781.6
Cabezon (OR)	46°16' to 42° N. lat.	47			-		47.0
Cabezon (CA)	S of 42° N. lat.	150			-	0.3	149.7
California scorpionfish	S of 34°27' N. lat.	150			0.2	2.0	147.8
Canary rockfish	Coastwide	566	35.0	1.0	7.2	1.2	522.6
Chilipepper	S of 40°10' N. lat.	2,607		10.0	10.9	5.0	2,581.1
COWCOD	S of 40°10' N. lat.	10		0.015	2.0	0.0	8.0
DARKBLOTCHED	Coastwide	641	0.2	0.1	2.5	24.5	613.8
Dover sole	Coastwide	50,000	1,497.0		41.9	54.8	48,406.3
English sole	Coastwide	9,964	200.0		5.8	7.0	9,751.2
Lingcod	N of 40'10° N. lat.	3,333	250.0	0.5	11.7	16.0	3,054.8
Lingcod	S of 40'10° N. lat.	1,251		1.0	1.1	6.9	1,242.0
Longnose skate	Coastwide	2,000	130.0		13.2	3.8	1,853.0
Longspine thornyhead	N of 34°27' N. lat.	2,894	30.0		13.5	3.3	2,847.2
Longspine thornyhead	S of 34°27' N. lat.	914			1.4	1.8	910.8
Nearshore rockfish north	N of 40°10' N. lat.	105	1.5		-	0.3	103.2
Nearshore rockfish south	S of 40°10' N. lat.	1,163			2.7	1.4	1,158.9
Shelf rockfish north	N of 40°10' N. lat.	2,049	30.0	3.0	24.8	26.0	1,965.2
Shelf rockfish south	S of 40°10' N. lat.	1,623		30.0	8.6	8.6	1,575.8
Slope rockfish north	N of 40°10' N. lat.	1,755	36.0	1.0	9.5	18.6	1,689.9
Slope rockfish south	S of 40°10' N. lat.	707		1.0	2.0	17.2	686.8
Other fish	Coastwide	474					474.0
Other flatfish	Coastwide	8,510	60.0		19.0	125.0	8,306.0
Pacific cod	Coastwide	1,600	500.0		7.0	2.0	1,091.0
Pacific whiting a/	Coastwide	325,072	56,888.0	1.0		1,500.0	266,683.0
Petrale sole	Coastwide	3,136	220.0		17.7	3.2	2,895.1
POP	N of 40°10' N. lat.	171	9.2		5.2	10.0	146.6
Sablefish	S of 36° N. lat.	1,075			3.0	2.0	1,070.0
Shortbelly rockfish	Coastwide	500			2.0	8.9	489.1
Shortspine thornyhead	N of 34°27' N. lat.	1,713	50.0		7.2	1.8	1,654.0
Shortspine thornyhead	S of 34°27' N. lat.	906			1.0	41.3	863.7
Spiny dogfish	Coastwide	2,094	275.0	1.0	12.5	49.5	1,756.0
Splitnose rockfish	S of 40°10' N. lat.	1,760		1.5	9.0	0.2	1,749.3
Starry flounder	Coastwide	1,282	2.0			8.3	1,271.7
Widow rockfish	Coastwide	13,508	200.0	9.0	8.2	0.5	13,290.3
YELLOWEYE	Coastwide	20	2.3	0.03	3.27	0.4	14.0
Yellowtail rockfish	N of 40°10' N. lat.	6,196	1,000.0	10.0	16.6	3.4	5,166.1

a/The Pacific whiting total allowable catch was unavailable during the preparation of the analysis; therefore, the 2015 values were used.

REVISED Table 4-82. Alternative 2. Stock specific fishery harvest guidelines (HG) or annual catch targets (ACT) and allocations for 2017 (in mt). All other values are the same as under No Action.

g .		Fishery		Т	'rawl	Non-	trawl
Species	Area	HG or ACT	Allocation Type	%	Mt	%	Mt
Arrowtooth flounder	Coastwide	11,705.9	Amendment 21	95%	11,120.6	5%	585.3
Big skate	Coastwide	436.6	Biennial	95%	414.8	5%	21.8
Black (WA)	N of 46°16'	287.0	None				
Black (OR)	46°16' to 42° N. lat.	526.4	None				
Black (CA)	S of 42° N. lat.	318.0	None				
BOCACCIO	S of 40°10' N. lat.	781.6	Biennial	N/A	187.9	N/A	593.7
Cabezon (OR)	46°16' to 42° N. lat.	47.0	None				
Cabezon (CA)	S of 42° N. lat.	149.7	None				
California scorpionfish a/	S of 34°27' N. lat.	111.0	None				
Canary rockfish	Coastwide	521.6	Biennial	N/A	277.9	N/A	243.7
Chilipepper	S of 40°10' N. lat.	2,581.1	Amendment 21	75%	1,935.8	25%	645.3
COWCOD b/	S of 40°10' N. lat.	4.0	Biennial	N/A	1.4	N/A	2.6
DARKBLOTCHED	Coastwide	613.8	Amendment 21	95%	583.1	5%	30.7
Dover sole	Coastwide	48,406.3	Amendment 21	95%	45,986.0	5%	2,420.3
English sole	Coastwide	9,751.2	Amendment 21	95%	9,263.6	5%	487.6
Lingcod	N of 40'10° N. lat.	3,054.8	Amendment 21	45%	1,374.7	55%	1,680.2
Lingcod	S of 40'10° N. lat.	1,242.0	Amendment 21	45%	558.9	55%	683.1
Longnose skate	Coastwide	1,853.0	Biennial	90%	1,667.7	10%	185.3
Longspine thornyhead	N of 34°27' N. lat.	2,847.2	Amendment 21	95%	2,704.8	5%	142.4
Longspine thornyhead	S of 34°27' N. lat.	910.8	None		,		
Nearshore rockfish north	N of 40°10' N. lat.	103.2	None				
Nearshore rockfish south	S of 40°10' N. lat.	1,158.9	None				
Shelf rockfish north	N of 40°10' N. lat.	1,965.2	Biennial	60.2%	1,183.1	39.8%	782.1
Shelf rockfish south	S of 40°10' N. lat.	1,575.8	Biennial	12.2%	192.2	87.8%	1,383.6
Slope rockfish north	N of 40°10' N. lat.	1,689.9	Amendment 21	81%	1,368.8	19%	321.3
Slope rockfish south	S of 40°10' N. lat.	686.8	Amendment 21	63%	432.7	37%	254.1
Other fish	Coastwide	474.0	None				
Other flatfish	Coastwide	8,306.0	Amendment 21	90%	7,475.4	10%	830.6
Pacific cod	Coastwide	1,091.0	Amendment 21	95%	1,036.4	5%	54.5
Pacific whiting c/	Coastwide	266,683.0	Amendment 21	100%	266,683.0	0%	0.0
Petrale sole	Coastwide	2,895.1	Amendment 21	95%	2,750.3	5%	144.8
POP	N of 40°10' N. lat.	146.6	Amendment 21	95%	139.3	5%	7.3
Sablefish	S of 36° N. lat.	1,070.0	Amendment 21	42%	449.4	58%	620.6
Shortbelly rockfish	Coastwide	489.1	None				0.0
Shortspine thornyhead	N of 34°27' N. lat.	1,654.0	Amendment 21	95%	1,571.3	5%	82.7
Shortspine thornyhead	S of 34°27' N. lat.	863.7	Amendment 21	NA	50.0	NA	813.7
Spiny dogfish	Coastwide	1,756.0	None				
Splitnose rockfish	S of 40°10' N. lat.	1,749.3	Amendment 21	95%	1,661.8	5%	87.5
Starry flounder	Coastwide	1,271.7	Amendment 21	50%	635.9	50%	635.9
Widow rockfish	Coastwide	13,290.3	Amendment 21	91%	12,094.2	9%	1,196.9
YELLOWEYE	Coastwide	14.0	Biennial	N/A	1.1	N/A	12.9
Yellowtail rockfish	N of 40°10' N. lat.	5,166.1	Amendment 21	88%	4,546.1	12%	619.9
/The California seemienfish fisher				1	,,,,,,,,,		

a/ The California scorpionfish fishery harvest guideline (147.8 mt) is further reduced to an ACT of 111 mt b/ The cowcod fishery harvest guideline (8 mt) is further reduced to an ACT of 4 mt

<sup>&</sup>lt;sup>e</sup> Pacific whiting TAC forecasts for 2017-2018 were unavailable during the preparation of the analysis; therefore, the 2015 values were used.

REVISED Table 4-83. Alternative 2. 2018 ACLs and estimates of tribal, EFP, research, and incidental open access (OA) mortality (in mt), used to calculate the fishery harvest guideline (HG). All other values are the same as under No Action.

Species	Area	ACL	Tribal	EFP	Research	OA	HG
Arrowtooth flounder	Coastwide	13,743	2,041.0		16.4	40.8	11,644.9
Big skate	Coastwide	494	15.0		4.0	38.4	436.6
Black (WA)	Washington	301	18.0		-	-	283.0
Black (OR)	Oregon	520			_	0.6	519.4
Black (CA)	California	319		1.0			318.0
Blackgill	S of 40°10' N. lat.	123			0.5	0.1	122.4
BOCACCIO	S of 40°10' N. lat.	741		3.0	4.6	0.8	732.6
Cabezon (OR)	46°16' to 42° N. lat.	47			-		47.0
Cabezon (CA)	S of 42° N. lat.	149			-	0.3	148.7
California scorpionfish	S of 34°27' N. lat.	150			0.2	2.0	147.8
Canary rockfish	Coastwide	504	35.0	1.0	7.2	1.2	459.6
Chilipepper	S of 40°10' N. lat.	2,507		10.0	10.9	5.0	2,481.1
COWCOD	S of 40°10' N. lat.	10		0.015	2.0	0.0	8.0
DARKBLOTCHED	Coastwide	653	0.2	0.1	2.5	24.5	625.8
Dover sole	Coastwide	50,000	1,497.0		41.9	54.8	48,406.3
English sole	Coastwide	7,537	200.0		5.8	7.0	7,324.2
Lingcod	N of 40'10° N. lat.	3,110	250.0	0.5	11.7	16.0	2,831.8
Lingcod	S of 40'10° N. lat.	1,144		1.0	1.1	6.9	1,135.0
Longnose skate	Coastwide	2,000	130.0		13.2	3.8	1,853.0
Longspine thornyhead	N of 34°27' N. lat.	2,747	30.0		13.5	3.3	2,700.2
Longspine thornyhead	S of 34°27' N. lat.	867			1.4	1.8	863.8
Nearshore rockfish north	N of 40°10' N. lat.	105	1.5		_	0.3	103.2
Nearshore rockfish south	S of 40°10' N. lat.	1,179			2.7	1.4	1,174.9
Shelf rockfish north	N of 40°10' N. lat.	2,047	30.0	3.0	24.8	26.0	1,963.2
Shelf rockfish south	S of 40°10' N. lat.	1,624		30.0	8.6	8.6	1,576.8
Slope rockfish north	N of 40°10' N. lat.	1,754	36.0	1.0	9.5	18.6	1,688.9
Slope rockfish south	S of 40°10' N. lat.	586		1.0	2.0	17.2	565.8
Other Fish	Coastwide	441					441.0
Other flatfish	Coastwide	7,281	60.0		19.0	125.0	7,077.0
Pacific cod	Coastwide	1,600	500.0		7.0	2.0	1,091.0
Pacific whiting a/	Coastwide	325,072	56,888.0	1.0		1,500.0	266,683.0
Petrale Sole	Coastwide	3,013	220.0		17.7	3.2	2,772.1
POP	N of 40°10' N. lat.	176	9.2		5.2	10.0	151.6
Sablefish	S of 36° N. lat.	1,120			3.0	2.0	1,115.0
Shortbelly rockfish	Coastwide	500			2.0	8.9	489.1
Shortspine thornyhead	N of 34°27' N. lat.	1,698	50.0		7.2	1.8	1,639.0
Shortspine thornyhead	S of 34°27' N. lat.	898			1.0	41.3	855.7
Spiny Dogfish	Coastwide	2,083	275.0	1.0	12.5	49.5	1,745.0
Splitnose rockfish	S of 40°10' N. lat.	1,761		1.5	9.0	0.2	1,750.3
Starry flounder	Coastwide	1,282	2.0			8.3	1,271.7
Widow rockfish	Coastwide	12,655	200.0	9.0	8.2	0.5	12,437.3
YELLOWEYE	Coastwide	20	2.3	0.03	3.3	0.4	14.0
Yellowtail rockfish	N of 40°10' N. lat.	6,002	1,000.0	10.0	16.6	3.4	4,972.1

<sup>&</sup>lt;sup>a/</sup> Pacific whiting TAC forecasts for 2017-2018 were unavailable during the preparation of the analysis; therefore, the 2015 values were used.

REVISED Table 4-84. Alternative 2. Stock specific fishery harvest guidelines (HG) or annual catch targets (ACT) and allocations for 2018 (in mt). All other values are the same as under No Action.

Area			Fishery		Trawl		Non-trawl	
Arrowtooth flounder	Species	Area	HG or		%	Mt	%	Mt
Black (WA)	Arrowtooth flounder	Coastwide	11,644.9		95%	11,062.6	5%	582.2
Black (WA)	Big skate	Coastwide	436.6	Biennial	95%		5%	21.8
Black (OR)	<u> </u>		283.0	None				
Black (CA)		46°16' to 42° N. lat.	519.4	None				
Blackgill		S of 42° N. lat.	318.0	None				
BOCÁCCIO   S of 40°10' N. lat.   732.6   Biennial   N/A   176.1   N/A   556.5		S of 40°10' N. lat.		Amendment 26	41%	50.2	59%	72.2
Cabezon (OR)			732.6					
Cabezon (CA)   S of 42° N. lat.   148.7   None   California scorpionfish a/ S of 34°27 N. lat.   111.0   None   Canary rockfish   Coastwide   459.6   Biennial   N/A   244.9   N/A   214.7   Chilipepper   S of 40°10′ N. lat.   2,481.1   Amendment 21   75%   1,860.8   25%   620.3   COWCOD b/ S of 40°10′ N. lat.   4.0   Biennial   N/A   1.4   N/A   2.6   DARKBLOTCHED   Coastwide   625.8   Amendment 21   95%   594.5   5%   31.3   Dover sole   Coastwide   48,406.3   Amendment 21   95%   45,986.0   5%   2,420.3   English sole   Coastwide   48,406.3   Amendment 21   95%   6,988.0   5%   366.2   English sole   Coastwide   7,324.2   Amendment 21   95%   6,988.0   5%   366.2   Lingcod   N of 40°10° N. lat.   1,135.0   Amendment 21   45%   1,274.3   55%   624.3   Longspine thornyhead   N of 34°27′ N. lat.   2,700.2   Amendment 21   45%   510.8   55%   624.3   Longspine thornyhead   N of 34°27′ N. lat.   863.8   None   N of 40°10′ N. lat.   1,174.9   None   N of 40°10′ N. lat.   1,174.9   None   N of 40°10′ N. lat.   1,174.9   None   N of 40°10′ N. lat.   1,576.8   Biennial   12.2%   192.4   87.8%   1,384.4   Slope rockfish south   S of 40°10′ N. lat.   1,576.8   Biennial   12.2%   192.4   87.8%   1,384.4   Slope rockfish south   S of 40°10′ N. lat.   1,688.9   Amendment 21   95%   6,696.3   10%   707.7   Pacific cod   Coastwide   7,077.0   Amendment 21   95%   1,036.4   5%   5.9   50.9   Other flatfish   Coastwide   266,683.0   Amendment 21   95%   1,036.4   5%   54.5   Pacific whiting c/ Coastwide   266,683.0   Amendment 21   95%   1,036.4   5%   54.5   Pacific whiting c/ Coastwide   2,772.1   Amendment 21   95%   1,557.0   5%   81.9   Pacific whiting c/ Coastwide   489.1   None   Coastwide   489.1   N				None				
California scorpionfish at				None				
Canary rockfish	California scorpionfish a/			None				
Chilipepper				Biennial	N/A	244.9	N/A	214.7
COWCOD b				Amendment 21				
DARKBLOTCHED								
Dover sole								
English sole								
Lingcod								
Lingcod						,		
Longnose skate								
Longspine thornyhead   N of 34°27' N. lat.   2,700.2   Amendment 21   95%   2,565.2   5%   135.0								
None								
Nearshore rockfish north         N of 40°10' N. lat.         103.2         None         Image: None <td></td> <td></td> <td></td> <td></td> <td>7</td> <td></td> <td>- , ,</td> <td></td>					7		- , ,	
Nearshore rockfish south   S of 40°10' N. lat.   1,174.9   None								
Shelf rockfish north         N of 40°10' N. lat.         1,963.2         Biennial         60.2%         1,181.8         39.8%         781.4           Shelf rockfish south         S of 40°10' N. lat.         1,576.8         Biennial         12.2%         192.4         87.8%         1,384.4           Slope rockfish north         N of 40°10' N. lat.         1,688.9         Amendment 21         81%         1,368.0         19%         320.9           Slope rockfish south         S of 40°10' N. lat.         565.8         91%         514.9         9%         50.9           Other fish         Coastwide         441.0         None								
Shelf rockfish south         S of 40°10' N. lat.         1,576.8         Biennial         12.2%         192.4         87.8%         1,384.4           Slope rockfish north         N of 40°10' N. lat.         1,688.9         Amendment 21         81%         1,368.0         19%         320.9           Slope rockfish south         S of 40°10' N. lat.         565.8         91%         514.9         9%         50.9           Other fish         Coastwide         441.0         None         707.7         Amendment 21         90%         6,369.3         10%         707.7           Pacific cod         Coastwide         1,091.0         Amendment 21         95%         1,036.4         5%         54.5           Pacific whiting c/         Coastwide         266,683.0         Amendment 21         95%         1,036.4         5%         54.5           Pacific whiting c/         Coastwide         2,772.1         Amendment 21         95%         2,663.5         5%         138.6           POP         N of 40°10' N. lat.         151.6         Amendment 21         95%         1,44.0         5%         7.6           Sablefish         S of 36° N. lat.         1,115.0         Amendment 21         95%         1,557.0         5%         81.9			·		60.2%	1.181.8	39.8%	781.4
Slope rockfish north         N of 40°10' N. lat.         1,688.9         Amendment 21         81%         1,368.0         19%         320.9           Slope rockfish south         S of 40°10' N. lat.         565.8         91%         514.9         9%         50.9           Other fish         Coastwide         441.0         None						1		
Slope rockfish south         S of 40°10' N. lat.         565.8         91%         514.9         9%         50.9           Other fish         Coastwide         441.0         None         ————————————————————————————————————	Slope rockfish north	N of 40°10' N. lat.		Amendment 21	81%	1,368.0	19%	
Other fish         Coastwide         441.0         None								
Other flatfish         Coastwide         7,077.0         Amendment 21         90%         6,369.3         10%         707.7           Pacific cod         Coastwide         1,091.0         Amendment 21         95%         1,036.4         5%         54.5           Pacific whiting c/         Coastwide         266,683.0         Amendment 21         100%         266,683.0         0%         0.0           Petrale sole         Coastwide         2,772.1         Amendment 21         95%         2,663.5         5%         138.6           POP         N of 40°10' N. lat.         151.6         Amendment 21         95%         144.0         5%         7.6           Sablefish         S of 36° N. lat.         1,115.0         Amendment 21         42%         468.3         58%         646.7           Shortbelly rockfish         Coastwide         489.1         None         0.0         0.0           Shortspine thornyhead         N of 34°27' N. lat.         855.7         Amendment 21         95%         1,557.0         5%         81.9           Spiny dogfish         Coastwide         1,745.0         None				None				
Pacific cod         Coastwide         1,091.0         Amendment 21         95%         1,036.4         5%         54.5           Pacific whiting c/         Coastwide         266,683.0         Amendment 21         100%         266,683.0         0%         0.0           Petrale sole         Coastwide         2,772.1         Amendment 21         95%         2,663.5         5%         138.6           POP         N of 40°10' N. lat.         151.6         Amendment 21         95%         144.0         5%         7.6           Sablefish         S of 36° N. lat.         1,115.0         Amendment 21         42%         468.3         58%         646.7           Shortsbelly rockfish         Coastwide         489.1         None         0.0           Shortspine thornyhead         N of 34°27' N. lat.         1,639.0         Amendment 21         95%         1,557.0         5%         81.9           Shortspine thornyhead         S of 34°27' N. lat.         855.7         Amendment 21         NA         50.0         NA         805.7           Spiny dogfish         Coastwide         1,745.0         None	Other flatfish			Amendment 21	90%	6,369.3	10%	707.7
Pacific whiting c/         Coastwide         266,683.0         Amendment 21         100%         266,683.0         0%         0.0           Petrale sole         Coastwide         2,772.1         Amendment 21         95%         2,663.5         5%         138.6           POP         N of 40°10' N. lat.         151.6         Amendment 21         95%         144.0         5%         7.6           Sablefish         S of 36° N. lat.         1,115.0         Amendment 21         42%         468.3         58%         646.7           Shortspine thornyhead         N of 34°27' N. lat.         1,639.0         Amendment 21         95%         1,557.0         5%         81.9           Shortspine thornyhead         S of 34°27' N. lat.         855.7         Amendment 21         NA         50.0         NA         805.7           Spiny dogfish         Coastwide         1,745.0         None         None         Sof 40°10' N. lat.         1,750.3         Amendment 21         95%         1,662.8         5%         87.6           Starry flounder         Coastwide         1,271.7         Amendment 21         50%         635.9         50%         635.9           Widow rockfish         Coastwide         12,437.3         Amendment 21         91%								
Petrale sole         Coastwide         2,772.1         Amendment 21         95%         2,663.5         5%         138.6           POP         N of 40°10' N. lat.         151.6         Amendment 21         95%         144.0         5%         7.6           Sablefish         S of 36° N. lat.         1,115.0         Amendment 21         42%         468.3         58%         646.7           Shortsbelly rockfish         Coastwide         489.1         None         0.0           Shortspine thornyhead         N of 34°27' N. lat.         1,639.0         Amendment 21         95%         1,557.0         5%         81.9           Shortspine thornyhead         S of 34°27' N. lat.         855.7         Amendment 21         NA         50.0         NA         805.7           Spiny dogfish         Coastwide         1,745.0         None         None         0.0           Splitnose rockfish         S of 40°10' N. lat.         1,750.3         Amendment 21         95%         1,662.8         5%         87.6           Starry flounder         Coastwide         1,271.7         Amendment 21         50%         635.9         50%         635.9           Widow rockfish         Coastwide         12,437.3         Amendment 21         91% </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
POP         N of 40°10' N. lat.         151.6         Amendment 21         95%         144.0         5%         7.6           Sablefish         S of 36° N. lat.         1,115.0         Amendment 21         42%         468.3         58%         646.7           Shortbelly rockfish         Coastwide         489.1         None         0.0           Shortspine thornyhead         N of 34°27' N. lat.         1,639.0         Amendment 21         95%         1,557.0         5%         81.9           Shortspine thornyhead         S of 34°27' N. lat.         855.7         Amendment 21         NA         50.0         NA         805.7           Spiny dogfish         Coastwide         1,745.0         None						· ·		
Sablefish         S of 36° N. lat.         1,115.0         Amendment 21         42%         468.3         58%         646.7           Shortbelly rockfish         Coastwide         489.1         None         0.0           Shortspine thornyhead         N of 34°27' N. lat.         1,639.0         Amendment 21         95%         1,557.0         5%         81.9           Shortspine thornyhead         S of 34°27' N. lat.         855.7         Amendment 21         NA         50.0         NA         805.7           Spiny dogfish         Coastwide         1,745.0         None								
Shortbelly rockfish         Coastwide         489.1         None         0.0           Shortspine thornyhead         N of 34°27' N. lat.         1,639.0         Amendment 21         95%         1,557.0         5%         81.9           Shortspine thornyhead         S of 34°27' N. lat.         855.7         Amendment 21         NA         50.0         NA         805.7           Spiny dogfish         Coastwide         1,745.0         None	Sablefish	S of 36° N. lat.						
Shortspine thornyhead         N of 34°27' N. lat.         1,639.0         Amendment 21         95%         1,557.0         5%         81.9           Shortspine thornyhead         S of 34°27' N. lat.         855.7         Amendment 21         NA         50.0         NA         805.7           Spiny dogfish         Coastwide         1,745.0         None								
Shortspine thornyhead         S of 34°27' N. lat.         855.7         Amendment 21         NA         50.0         NA         805.7           Spiny dogfish         Coastwide         1,745.0         None					95%	1,557.0	5%	
Spiny dogfish         Coastwide         1,745.0         None         Splitnose rockfish         S of 40°10' N. lat.         1,750.3         Amendment 21         95%         1,662.8         5%         87.6           Starry flounder         Coastwide         1,271.7         Amendment 21         50%         635.9         50%         635.9           Widow rockfish         Coastwide         12,437.3         Amendment 21         91%         11,317.9         9%         1,119.4           YELLOWEYE         Coastwide         14.0         Biennial         N/A         1.1         N/A         12.9	1 7							
Splitnose rockfish         S of 40°10' N. lat.         1,750.3         Amendment 21         95%         1,662.8         5%         87.6           Starry flounder         Coastwide         1,271.7         Amendment 21         50%         635.9         50%         635.9           Widow rockfish         Coastwide         12,437.3         Amendment 21         91%         11,317.9         9%         1,119.4           YELLOWEYE         Coastwide         14.0         Biennial         N/A         1.1         N/A         12.9								,
Starry flounder         Coastwide         1,271.7         Amendment 21         50%         635.9         50%         635.9           Widow rockfish         Coastwide         12,437.3         Amendment 21         91%         11,317.9         9%         1,119.4           YELLOWEYE         Coastwide         14.0         Biennial         N/A         1.1         N/A         12.9					95%	1,662.8	5%	87.6
Widow rockfish         Coastwide         12,437.3         Amendment 21         91%         11,317.9         9%         1,119.4           YELLOWEYE         Coastwide         14.0         Biennial         N/A         1.1         N/A         12.9								
YELLOWEYE Coastwide 14.0 Biennial N/A 1.1 N/A 12.9								
			· · · · · · · · · · · · · · · · · · ·					

a/ The California scorpionfish fishery harvest guideline (147.8 mt) is further reduced to an ACT of 111 mt

b/ The cowcod fishery harvest guideline (8 mt) is further reduced to an ACT of 4 mt

c/ Pacific whiting TAC forecasts for 2017-2018 were unavailable during the preparation of the analysis; therefore the 2015 values were used.

