## PROPOSED 2015 AND 2016 HARVEST SPECIFICATIONS AND SELECT MANAGEMENT MEASURES FOR GROUNDFISH STOCKS AND STOCK COMPLEXES

## Summary of Tables included in this attachment:

- Table 1. 2014 OFLs (mt) and preferred 2015 and 2016 OFLs (mt) for west coast groundfish stocks, excluding kelp greenling, cabezon in Washington, and leopard shark (overfished stocks in CAPS; stocks with new assessments in **bold**; component stocks in status quo stock complexes in *italics*).
- Table 2. Preferred 2015 and 2016 OFLs (in mt) and ABCs (in mt) for kelp greenling in California, kelp greenling in Oregon, kelp greenling in Washington, and leopard shark.
- Table 3. Alternative 2015 and 2016 OFLs (in mt) and ABCs (in mt) for cabezon in Washington varied by the choice of an overfishing probability (P\*) and according to the methodology recommended by the SSC in March 2014 for calculating the OFLs.
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- Table 8. Proposed blue rockfish harvest guidelines for California fisheries in 2015 and 2016.
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Table 1. 2014 OFLs (mt) and preferred 2015 and 2016 OFLs (mt) for west coast groundfish stocks, excluding kelp greenling, cabezon in Washington, and leopard shark (overfished stocks in CAPS; stocks with new assessments in bold; component stocks in status quo stock complexes in *italics*).

| Stock   | 2014<br>OFL | Cat. | 2015<br>OFL | 2016<br>OFL | Comments  |
|---|-------------|------|-------------|-------------|---|
| OVERFISHED STO                                | CKS         |      |             |             |   |
| BOCACCIO S. of 40°10' N. lat.                 | 881         | 1    | 1,444       | 1,351       | Projected using a 50% SPR from the 2013 update stock assessment with a 6% reduction to subtract the portion of the assessed stock north of 40°10' N. lat.   |
| CANARY  | 741         | 1    | 733         | 729         | Based on projections in the 2011 rebuilding analysis  |
| COWCOD S. of 40 <sup>0</sup> 10'<br>N. lat.   | 12          |      | 66.6        | 66.1        | Sum of Conception and Monterey OFLs.  |
| COWCOD<br>(Conception)                        | 7           | 2    | 55.0        | 54.1        | Projected using a 50% SPR from the 2013 stock assessment.   |
| COWCOD (Monterey)                             | 5           | 3    | 11.6        | 12.0        | Revised DB-SRA estimate calculated in 2011.   |
| DARKBLOTCHED                                  | 553         | 1    | 574         | 580         | Projected using a 50% SPR from the 2013 stock assessment  |
| PACIFIC OCEAN<br>PERCH                        | 838         | 1    | 842         | 850         | Projected using a 50% SPR from the 2011 rebuilding analysis   |
| PETRALE SOLE                                  | 2,774       | 1    | 2,946       | 3,044       | Projected using a 30% SPR from the 2013 stock assessment  |
| YELLOWEYE                                     | 51          | 2    | 52          | 52          | Projected using a 50% SPR from the 2011rebuilding analysis  |
| NON-DEPLETED ST                               | OCKS        |      |             |             |   |
| Arrowtooth Flounder                           | 6,912       | 2    | 6,599       | 6,396       | Projected using a 30% SPR from the 2007 full assessment.  |
| Black Rockfish (OR-CA)                        | 1,166       | 1    | 1,176       | 1,183       | Projected using a 50% SPR from the 2007 full assessment with the addition of 3% of the northern OFL to account for the portion of the stock estimated between Cape Falcon and the Columbia River. |
| Black Rockfish (WA)                           | 428         | 1    | 421         | 423         | Projected using a 50% SPR from the 2007 full assessment with a 3% reduction to account for the portion of the stock estimated between Cape Falcon and the Columbia River.                         |
| Cabezon (CA)                                  | 165         | 1    | 161         | 158         | Projected using a 45% SPR from the 2009 full assessment.  |
| Cabezon (OR)                                  | 49          | 1    | 49          | 49          | Projected using a 45% SPR from the 2009 full assessment.  |
| California scorpionfish                       | 122         | 1    | 119         | 117         | Projected using a 45% SPR from the 2005 full assessment.  |
| Chilipepper S. of 40 <sup>0</sup> 10' N. lat. | 1,722       | 1    | 1,703       | 1,694       | Projected using a 50% SPR from the 2007 full assessment. The portion of the coastwide stock south of 40°10' N. lat. (93%) is based on average historical landings.                                |
| Dover Sole                                    | 77,774      | 1    | 66,871      | 59,221      | Projected using a 30% SPR from the 2011 full assessment.  |
| English Sole                                  | 5,906       | 2    | 12,092      | 8,493       | Projected using a 30% SPR from the 2013 data-moderate assessment.   |
| Lingcod N. of 42° N. lat. (OR & WA)           | 1,984       | 1    | 1,898       | 1,842       | Projected using a 45% SPR from the 2009 full assessment.  |
| Lingcod S. of 42° N. lat. (CA)                | 2,454       | 2    | 2,317       | 2,185       | Projected using a 45% SPR from the 2009 full assessment.  |
| Lingcod N. of 40°10' N. lat.                  | 3,162       | 1    | 3,010       | 2,891       | Projected using a 45% SPR from the 2009 full assessment with 48% of the OFL S. of 42° N. lat. added to account for line shift.  |
| Lingcod S. of 40°10' N.                       | 1,276       | 2    | 1,205       | 1,136       | Projected using a 45% SPR from the 2009 full assessment with 48% of the OFL S. of 42° N. lat.   |

| Stock   | 2014<br>OFL | Cat. | 2015<br>OFL | 2016<br>OFL | Comments  |  |  |  |  |
|---|-------------|------|-------------|-------------|---|--|--|--|--|
| lat.  |             |      |             |             | subtracted to account for line shift.   |  |  |  |  |
| Longnose skate                                  | 2,816       | 1    | 2,449       | 2,405       | Projected using a 50% SPR from the 2007 full assessment. 2015 and 2016 OFLs projected using the status quo 45% SPR rate are 2,745 and 2,686 mt, respectively.                 |  |  |  |  |
| Longspine<br>Thornyhead<br>(coastwide)          | 3,304       | 2    | 5,007       | 4,763       | Projected using a 50% SPR from the 2013 full assessment.  |  |  |  |  |
| Pacific Cod                                     | 3,200       | 3    | 3,200       | 3,200       | Status quo OFL.   |  |  |  |  |
| Sablefish (coastwide)                           | 7,158       | 1    | 7,857       | 8,526       | Projected using a 45% SPR from the 2011 full assessment.  |  |  |  |  |
| Shortbelly                                      | 6,950       | 2    | 6,950       | 6,950       | MSY estimated from 2007 assessment.   |  |  |  |  |
| Shortspine<br>Thornyhead<br>(coastwide)         | 2,310       | 2    | 3,203       | 3,169       | Projected using a 50% SPR from the 2013 full assessment.  |  |  |  |  |
| Spiny dogfish                                   | 2,950       | 2    | 2,523       | 2,503       | Projected using a 50% SPR from the 2011 full assessment. 2015 and 2016 OFLs projected using status quo 45% SPR rate are 2,921 and 2,893 mt, respectively.                     |  |  |  |  |
| Splitnose S. of 40 <sup>0</sup> 10'<br>N. lat.  | 1,747       | 1    | 1,794       | 1,826       | Projected using a 50% SPR from the 2009 full assessment. The portion of the coastwide stock so of 40°10' N. lat. (64.2%) is based on average historical (1916-2008) landings. |  |  |  |  |
| Starry Flounder                                 | 1,834       | 2    | 1,841       | 1,847       | Projected using a 30% SPR from the 2005 full assessment.  |  |  |  |  |
| Widow   | 4,435       | 1    | 4,137       | 3,990       | Projected using a 50% SPR from the 2011 full assessment.  |  |  |  |  |
| Yellowtail N. of 40 <sup>0</sup> 10'<br>N. lat. | 4,584       | 2    | 12,281      | 11,647      | Projected using a 50% SPR from the 2013 data-moderate assessment.   |  |  |  |  |
| STOCK COMPLEXI                                  | ES          |      |             |             |   |  |  |  |  |
| Nearshore Rockfish<br>North                     | 110         |      | 88          | 88          | Sum of OFL contributions of component stocks in the complex.  |  |  |  |  |
| Black and yellow                                | 0.01        | 3    | 0.01        | 0.01        | DB-SRA estimate calculated in 2011 calculated in 2011   |  |  |  |  |
| Blue (CA)                                       | 27.4        | 2    | 27.4        | 27.7        | Projected using a 50% SPR from the 2007 full assessment. The portion of the assessed stock in CA north of 40°10' N. lat. (12.7%) is based on average historical landings.     |  |  |  |  |
| Blue (OR & WA)                                  | 32.3        | 3    | 32.3        | 32.3        | DCAC estimate.  |  |  |  |  |
| Brown   | 5.5         | 2    | 1.9         | 1.9         | Projected using a 50% SPR from the 2013 data-moderate assessment.   |  |  |  |  |
| Calico  | 1           | 3    | -           | -           | No harvest contribution (3a stock). Max. landings <2 mt, 1928-2008; mainly a discard species  |  |  |  |  |
| China   | 9.8         | 2    | 7.2         | 7.4         | Projected using a 50% SPR from the 2013 data-moderate assessment. Assumes P* = 0.45   |  |  |  |  |
| Copper  | 26.0        | 2    | 10.6        | 10.3        |   |  |  |  |  |
| Gopher  | -           | 3    | -           | -           | No harvest contribution (3a stock).   |  |  |  |  |
| Grass   | 0.7         | 3    | 0.7         | 0.7         | DB-SRA estimate calculated in 2011 calculated in 2011   |  |  |  |  |
| Kelp  | 0.01        | 3    | 0.01        | 0.01        | DB-SRA estimate calculated in 2011 calculated in 2011   |  |  |  |  |
| Olive   | 0.3         | 3    | 0.3         | 0.3         | DB-SRA estimate calculated in 2011 calculated in 2011   |  |  |  |  |
| Quillback                                       | 7.4         | 3    | 7.4         | 7.4         | DB-SRA estimate calculated in 2011 calculated in 2011   |  |  |  |  |

| Stock                                   | 2014<br>OFL | Cat. | 2015<br>OFL | 2016<br>OFL | Comments   |  |  |  |  |  |
|---|-------------|------|-------------|-------------|--|--|--|--|--|--|
| Treefish                                | 0.2         | 3    | 0.2         | 0.2         | DB-SRA estimate calculated in 2011 calculated in 2011  |  |  |  |  |  |
| Shelf Rockfish North                    | 2,195       |      | 2,209       | 2,218       | Sum of OFL contributions of component stocks in the complex.   |  |  |  |  |  |
| Bronzespotted                           | -           | 3    | -           | -           | No harvest contribution in the north (3a stock)  |  |  |  |  |  |
| Bocaccio                                | 284.0       | 3    | 284.0       | 284.0       | DB-SRA estimate calculated in 2011 calculated in 2011  |  |  |  |  |  |
| Chameleon                               | -           | 3    | -           | -           | No harvest contribution (3a stock).  |  |  |  |  |  |
| Chilipepper                             | 129.6       | 3    | 128.2       | 127.5       | Projected using a 50% SPR from the 2007 full assessment. The portion of the coastwide stock north of 40°10' N. lat. (7%) is based on average historical landings.  |  |  |  |  |  |
| Cowcod                                  | -           | 3    | 0.4         | 0.4         | No harvest contribution (3a stock).  |  |  |  |  |  |
| Flag                                    | 0.1         | 3    | 0.1         | 0.1         | DB-SRA estimate calculated in 2011 calculated in 2011  |  |  |  |  |  |
| Freckled                                | -           | 3    | -           | -           | No harvest contribution (3a stock).  |  |  |  |  |  |
| Greenblotched                           | 1.3         | 3    | 1.3         | 1.3         | DB-SRA estimate calculated in 2011 calculated in 2011  |  |  |  |  |  |
| Greenspotted 40°10' to 42° N. lat.      | 9.4         | 2    | 10.0        | 9.9         | Projection using a 50% SPR from the full 2011 assessment. The portion of the assessed area north a 40°10' N lat. (22.2% of OFL from northern California model) based on average historical catch.              |  |  |  |  |  |
| Greenspotted N. of 42 N. lat. (OR & WA) | 6.1         | 3    | 6.1         | 6.1         | DCAC estimate  |  |  |  |  |  |
| Greenstriped                            | 1,268.3     | 2    | 1,281.9     | 1,292.0     | Projected using a 50% SPR from the full 2009 assessment. The portion of the coastwide stock of 40°10' N. lat. (84.5%) is based on the mean of the 2003-2008 swept area biomass estimate the NMFS trawl survey. |  |  |  |  |  |
| Halfbanded                              | -           | 3    | -           | -           | No harvest contribution (3a stock). Max. landings <2 mt, 1928-2008; mainly a discard species   |  |  |  |  |  |
| Harlequin                               | 1           | 3    | -           | 1           | DB-SRA estimate calculated in 2011 calculated in 2011  |  |  |  |  |  |
| Honeycomb                               | 1           | 3    | -           | 1           | No harvest contribution in the north (3a stock)  |  |  |  |  |  |
| Mexican                                 | 1           | 3    | -           | 1           | No harvest contribution in the north (3a stock)  |  |  |  |  |  |
| Pink                                    | 0.004       | 3    | 0.004       | 0.004       | DB-SRA estimate calculated in 2011 calculated in 2011  |  |  |  |  |  |
| Pinkrose                                | 1           | 3    | -           | 1           | DB-SRA estimate calculated in 2011 calculated in 2011  |  |  |  |  |  |
| Puget Sound                             | -           | 3    | -           | -           | No harvest contribution (3a stock).  |  |  |  |  |  |
| Pygmy                                   | -           | 3    | -           | -           | No harvest contribution (3a stock).  |  |  |  |  |  |
| Redstripe                               | 269.9       | 3    | 269.9       | 269.9       | DB-SRA estimate calculated in 2011 calculated in 2011  |  |  |  |  |  |
| Rosethorn                               | 12.9        | 3    | 12.9        | 12.9        | DB-SRA estimate calculated in 2011 calculated in 2011  |  |  |  |  |  |
| Rosy                                    | 3.0         | 3    | 3.0         | 3.0         | DB-SRA estimate calculated in 2011 calculated in 2011  |  |  |  |  |  |
| Silvergray                              | 159.4       | 3    | 159.4       | 159.4       | DB-SRA estimate calculated in 2011 calculated in 2011  |  |  |  |  |  |
| Speckled                                | 0.2         | 3    | 0.2         | 0.2         | DB-SRA estimate calculated in 2011 calculated in 2011  |  |  |  |  |  |
| Squarespot                              | 0.2         | 3    | 0.2         | 0.2         | DB-SRA estimate calculated in 2011 calculated in 2011  |  |  |  |  |  |
| Starry                                  | 0.004       | 3    | 0.004       | 0.004       | DB-SRA estimate calculated in 2011 calculated in 2011  |  |  |  |  |  |
| Stripetail                              | 40.4        | 3    | 40.4        | 40.4        | DB-SRA estimate calculated in 2011 calculated in 2011. Only status determined from 2013 data-<br>moderate assessment, so remains a cat. 3 stock  |  |  |  |  |  |
| Swordspine                              | 0.0001      | 3    | 0.0001      | 0.0001      | DB-SRA estimate calculated in 2011 calculated in 2011  |  |  |  |  |  |

| Stock  | 2014<br>OFL | Cat. | 2015<br>OFL | 2016<br>OFL | Comments  |  |  |  |  |  |
|--|-------------|------|-------------|-------------|---|--|--|--|--|--|
| Tiger  | 1.0         | 3    | 1.0         | 1.0         | DB-SRA estimate calculated in 2011 calculated in 2011   |  |  |  |  |  |
| Vermilion  | 9.7         | 3    | 9.7         | 9.7         | DB-SRA estimate calculated in 2011 calculated in 2011   |  |  |  |  |  |
| Slope Rockfish North   | 1,553       |      | 1,804       | 1,818       | Sum of OFL contributions of component stocks in the complex.  |  |  |  |  |  |
| Aurora   | 15.4        | 1    | 17.4        | 17.5        | Projected using a 50% SPR from the 2013 full assessment. The portion of the coastwide stock north of 40°10' N lat. (19%) is based on average survey biomass.              |  |  |  |  |  |
| Bank   | 17.2        | 3    | 17.2        | 17.2        | DB-SRA estimate calculated in 2011 calculated in 2011   |  |  |  |  |  |
| Blackgill  | 4.7         | 3    | 4.7         | 4.7         | DCAC estimate.  |  |  |  |  |  |
| Redbanded  | 45.3        | 3    | 45.3        | 45.3        | DB-SRA estimate calculated in 2011 calculated in 2011   |  |  |  |  |  |
| Rougheye/Blackspotted  | 71.1        | 2    | 201.9       | 206.8       | Projected using a 50% SPR from the 2013 full assessment. The coastwide OFLs are apportioned north (98%) and south (2%) based on average landings during 1985-2012.        |  |  |  |  |  |
| Sharpchin  214.5  2 305.6  297.6  Coastwide OFLs projected using a 50% SPR from the 2013 data-moderate apportioned north and south of 40°10' N lat. (80%N, 20% S) based on average estimates from the triennial survey.  Shortraker  18.7  3 18.7  DB-SRA estimate calculated in 2011 calculated in 20 |             |      |             |             |   |  |  |  |  |  |
| Shortraker   | 18.7        | 3    | 18.7        | 18.7        | DB-SRA estimate calculated in 2011 calculated in 2011   |  |  |  |  |  |
| Splitnose  | 974.1       | 1    | 1,000.6     | 1,018.2     | of 40°10′ N. lat. (35.8%) is based on average historical (1916-2008) landings.  |  |  |  |  |  |
| Yellowmouth  | 192.4       | 3    | 192.4       | 192.4       | DB-SRA estimate calculated in 2011 calculated in 2011   |  |  |  |  |  |
| Nearshore Rockfish<br>South  | 1,160       |      | 1,313       | 1,288       | Sum of OFL contributions of component stocks in the complex.  |  |  |  |  |  |
| Shallow Nearshore<br>Species   | NA          | NA   | NA          | NA          |   |  |  |  |  |  |
| Black and yellow   | 27.5        | 3    | 27.5        | 27.5        | DB-SRA estimate calculated in 2011 calculated in 2011   |  |  |  |  |  |
| China  | 16.6        | 2    | 55.2        | 52.7        | Projected using a 50% SPR from the 2013 data-moderate assessment  |  |  |  |  |  |
| Gopher (N of Pt. Conception)   | 153.0       | 1    | 148.0       | 144.0       | Projected using a 50% SPR from the 2005 full assessment.  |  |  |  |  |  |
| Gopher (S of Pt. Conception)   | 25.6        | 3    | 25.6        | 25.6        | DCAC estimate.  |  |  |  |  |  |
| Grass  | 59.6        | 3    | 59.6        | 59.6        | DB-SRA estimate calculated in 2011 calculated in 2011   |  |  |  |  |  |
| Kelp   | 27.7        | 3    | 27.7        | 27.7        | DB-SRA estimate calculated in 2011 calculated in 2011   |  |  |  |  |  |
| Deeper Nearshore<br>Species  | NA          | NA   | NA          | NA          |   |  |  |  |  |  |
| Blue (assessed area)   | 187.8       | 2    | 188.6       | 190.3       | Projected using a 50% SPR from the 2007 full assessment. The portion of the assessed stock in CA south of 40°10' N. lat. (87.3%) is based on average historical landings. |  |  |  |  |  |
| Blue (S of 34 <sup>o</sup> 27'<br>N. lat.)   | 72.9        | 3    | 72.9        | 72.9        | DCAC estimate.  |  |  |  |  |  |
| Brown  | 204.6       | 2    | 163.8       | 160.2       | Projected using a 50% SPR from the 2013 data-moderate assessment  |  |  |  |  |  |

| Stock                | 2014<br>OFL | Cat. | 2015<br>OFL | 2016<br>OFL   | Comments  |  |  |  |  |
|----------------------|-------------|------|-------------|---|---|--|--|--|--|
| Calico               | _           | 3    | _           | - 1   | No harvest contribution (3a stock). Max. landings <2 mt, 1928-2008; mainly a discard species  |  |  |  |  |
| Copper               | 141.5       | 2    | 301.1       | 284.3   | Projected using a 50% SPR from the 2013 data-moderate assessment  |  |  |  |  |
| Olive                | 224.6       | 3    | 224.6       | 224.6   | DB-SRA estimate calculated in 2011 calculated in 2011   |  |  |  |  |
| Quillback            | 5.4         | 3    | 5.4         | 5.4   | DB-SRA estimate calculated in 2011 calculated in 2011   |  |  |  |  |
| Treefish             | 13.2        | 3    | 13.2        | 13.2  | DB-SRA estimate calculated in 2011 calculated in 2011   |  |  |  |  |
| Shelf Rockfish South | 1,912.9     |      | 1,917.9     | 1,918.9   | Sum of OFL contributions of component stocks in the complex.  |  |  |  |  |
| Bronzespotted        | 3.6         | 3    | 3.6         | 3.6   | DB-SRA estimate calculated in 2011 calculated in 2011   |  |  |  |  |
| Chameleon            | -           | 3    | -           | -   | No harvest contribution (3a stock).   |  |  |  |  |
| Flag                 | 23.4        | 3    | 23.4        | 23.4  | DB-SRA estimate calculated in 2011 calculated in 2011   |  |  |  |  |
| Freckled             | -           | 3    | -           | -   | No harvest contribution (3a stock).   |  |  |  |  |
| Greenblotched        | 23.1        | 3    | 23.1        | 23.1  | DB-SRA estimate calculated in 2011 calculated in 2011   |  |  |  |  |
| Greenspotted         | 80.3        | 2    | 82.8        | Projection using a 50% SPR from the full 2011 assessment. The portion of the assessed 40°10' N lat. (77.8% of OFL from northern California model from average historica OFL from the southern California model) |   |  |  |  |  |
| Greenstriped         | 232.7       | 2    | 235.1       | 237.0   | Projected using a 50% SPR from the full 2009 assessment. The portion of the coastwide stock so  |  |  |  |  |
| Halfbanded           | -           | 3    | -           | -   | No harvest contribution (3a stock).   |  |  |  |  |
| Harlequin            | -           | 3    | -           | -   | DB-SRA estimate calculated in 2011 calculated in 2011   |  |  |  |  |
| Honeycomb            | 9.9         | 3    | 9.9         | 9.9   | DB-SRA estimate calculated in 2011 calculated in 2011   |  |  |  |  |
| Mexican              | 5.1         | 3    | 5.1         | 5.1   | DB-SRA estimate calculated in 2011 calculated in 2011   |  |  |  |  |
| Pink                 | 2.5         | 3    | 2.5         | 2.5   | DB-SRA estimate calculated in 2011 calculated in 2011   |  |  |  |  |
| Pinkrose             | -           | 3    | -           | -   | DB-SRA estimate calculated in 2011 calculated in 2011   |  |  |  |  |
| Pygmy                | -           | 3    | -           | -   | No harvest contribution (3a stock).   |  |  |  |  |
| Redstripe            | 0.5         | 3    | 0.5         | 0.5   | DB-SRA estimate calculated in 2011 calculated in 2011   |  |  |  |  |
| Rosethorn            | 2.1         | 3    | 2.1         | 2.1   | DB-SRA estimate calculated in 2011 calculated in 2011   |  |  |  |  |
| Rosy                 | 44.5        | 3    | 44.5        | 44.5  | DB-SRA estimate calculated in 2011 calculated in 2011   |  |  |  |  |
| Silvergray           | 0.5         | 3    | 0.5         | 0.5   | DB-SRA estimate calculated in 2011 calculated in 2011   |  |  |  |  |
| Speckled             | 39.4        | 3    | 39.4        | 39.4  | DB-SRA estimate calculated in 2011 calculated in 2011   |  |  |  |  |
| Squarespot           | 11.1        | 3    | 11.1        | 11.1  | DB-SRA estimate calculated in 2011 calculated in 2011   |  |  |  |  |
| Starry               | 62.6        | 3    | 62.6        | 62.6  | DB-SRA estimate calculated in 2011 calculated in 2011   |  |  |  |  |
| Stripetail           | 23.6        | 3    | 23.6        | 23.6  | DB-SRA estimate calculated in 2011 calculated in 2011. Only status determined from 2013 data-<br>moderate assessment, so presumed to remain a cat. 3 stock. |  |  |  |  |
| Swordspine           | 14.2        | 3    | 14.2        | 14.2  | DB-SRA estimate calculated in 2011 calculated in 2011   |  |  |  |  |
| Tiger                | 0.04        | 3    | 0.04        | 0.04  | DB-SRA estimate calculated in 2011 calculated in 2011   |  |  |  |  |
| Vermilion            | 269.3       | 3    | 269.3       | 269.3   | DB-SRA estimate calculated in 2011.   |  |  |  |  |

| Stock                 | 2014<br>OFL | Cat. | 2015<br>OFL | 2016<br>OFL | Comments  |
|-----------------------|-------------|------|-------------|-------------|---|
| Yellowtail            | 1,064.4     | 3    | 1,064.4     | 1,064.4     | DB-SRA estimate calculated in 2011.   |
| Slope Rockfish South  | 685         |      | 806         | 807         | Sum of OFL contributions of component stocks in the complex.  |
| Aurora                | 26.1        | 1    | 74.3        | 74.3        | Projected using a 50% SPR from the 2013 full assessment. The portion of the coastwide stock south of 40°10' N lat. (81%) is based on average survey biomass.  |
| Bank                  | 503.2       | 3    | 503.2       | 503.2       | DB-SRA estimate calculated in 2011.   |
| Blackgill             | 134.0       | 2    | 137.0       | 140.0       | Projected using a 50% SPR from the 2011 full assessment.  |
| Pacific ocean perch   | -           | 3    | -           | -           | No harvest contribution (3a stock).   |
| Redbanded             | 10.4        | 3    | 10.4        | 10.4        | DB-SRA estimate calculated in 2011.   |
| Rougheye/Blackspotted | 0.4         | 2    | 4.1         | 4.2         | Projected using a 50% SPR from the 2013 full assessment. The coastwide OFLs are apportioned north (98%) and south (2%) based on average landings during 1985-2012.  |
| Sharpchin             | 9.8         | 2    | 76.4        | 74.4        | Coastwide OFLs projected using a 50% SPR from the 2013 data-moderate assessment. OFLs are apportioned north and south of 40°10' N lat. (80%N, 20% S) based on average swept area biomass estimates from the triennial survey. |
| Shortraker            | 0.1         | 3    | 0.1         | 0.1         | DB-SRA estimate calculated in 2011.   |
| Yellowmouth           | 0.8         | 3    | 0.8         | 0.8         | DB-SRA estimate calculated in 2011.   |
| Other Flatfish        | 10,060      |      | 11,298      | 9,948       | Sum of OFL contributions of component stocks in the complex.  |
| Butter sole           | 4.6         | 3    | 4.6         | 4.6         | Based on the average catch during 1994-1998 + a 60% discard rate estimated from the EDCP study.   |
| Curlfin sole          | 8.2         | 3    | 8.2         | 8.2         | Based on the average catch during 1994-1998 + a 60% discard rate estimated from the EDCP study.   |
| Flathead sole         | 35.0        | 3    | 35.0        | 35.0        | <i>Max.</i> catch = 35 mt in 2005   |
| Pacific sanddab       | 4,801.0     | 3    | 4,801.0     | 4,801.0     | DB-SRA estimate calculated in 2011. Only status determined from 2013 full assessment, so presumed to remain a cat. 3 stock.   |
| Rex sole              | 4,371.5     | 2    | 5,609.0     | 4,259.0     | Projected using a 50% SPR from the 2013 data-moderate assessment.   |
| Rock sole             | 66.7        | 3    | 66.7        | 66.7        | DB-SRA estimate calculated in 2011.   |
| Sand sole             | 773.2       | 3    | 773.2       | 773.2       | DB-SRA estimate calculated in 2011.   |

Table 2. Preferred 2015 and 2016 OFLs (in mt) and ABCs (in mt) for kelp greenling in California, kelp greenling in Oregon, kelp greenling in Washington, and leopard shark.

| Stock                | P*   | 2015<br>OFL | 2015<br>ABC | 2016<br>OFL | 2016<br>ABC |
|----------------------|------|-------------|-------------|-------------|-------------|
| Kelp greenling in CA | 0.45 | 118.9       | 99.2        | 118.9       | 99.2        |
| Kelp greenling in OR | 0.45 | 14.0        | 11.7        | 16.6        | 12.9        |
| Kelp greenling in WA | 0.4  | 31.4        | 21.8        | 28.4        | 19.7        |
| Leopard shark        | 0.45 | 167.1       | 139.4       | 167.1       | 139.4       |

Table 3. Alternative 2015 and 2016 OFLs (in mt) and ABCs (in mt) for cabezon in Washington varied by the choice of an overfishing probability (P\*) and according to the methodology recommended by the SSC in March 2014 for calculating the OFLs.

| Stock         | P*   | 2015<br>OFL | 2015<br>ABC | 2016<br>OFL | 2016<br>ABC |
|---------------|------|-------------|-------------|-------------|-------------|
|               | 0.45 | 4.5         | 3.7         | 4.8         | 4.0         |
|               | 0.4  | 4.5         | 3.1         | 4.9         | 3.4         |
| Cabezon in WA | 0.35 | 4.5         | 2.6         | 5.0         | 2.9         |
|               | 0.3  | 4.5         | 2.1         | 5.1         | 2.4         |
|               | 0.25 | 4.5         | 1.7         | 5.1         | 1.9         |

Table 4. Preliminary preferred 2015 and 2016 annual catch limits (ACLs in mt) for west coast groundfish stocks and stock complexes (stocks with new assessments in bold).

|                                   | Status<br>Quo<br>ACL |        |        | Preliminary Preferred ACLs (Alt. 3)                          | ACLs               | Varied by<br>Probabi |                    | fishing            |
|-----------------------------------|----------------------|--------|--------|--|--------------------|----------------------|--------------------|--------------------|
| Stock                             |                      |        |        |  | 20                 | )15                  | 2016               |                    |
|                                   | 2014                 | 2015   | 2016   | ACL Harvest Control Rule                                     | P* = 0.45 (Alt. 1) | P* = 0.25 (Alt. 2)   | P* = 0.45 (Alt. 1) | P* = 0.25 (Alt. 2) |
| OVERFISHED STOCKS                 |                      |        |        |  |                    |                      |                    |                    |
| BOCACCIO S. of 40°10'             | 337                  | 349    | 362    | SPR = 77.7%  | 349                | 349                  | 362                | 362                |
| CANARY                            | 119                  | 122    | 125    | SPR = 88.7%  | 122                | 122                  | 125                | 125                |
| COWCOD S. of 40°10'               | 3                    | 10     | 10     | SPR = 82.7% (F = 0.007); ACT = 4 mt                          | 10                 | 10                   | 10                 | 10                 |
| DARKBLOTCHED                      | 330                  | 338    | 346    | SPR = 64.9%  | 338                | 338                  | 346                | 346                |
| PACIFIC OCEAN PERCH               | 153                  | 158    | 164    | SPR = 86.4%  | 158                | 158                  | 164                | 164                |
| PETRALE SOLE                      | 2,652                | 2,816  | 2,910  | 25-5 rule  | 2,816              | 2,310                | 2,910              | 2,386              |
| YELLOWEYE                         | 18                   | 18     | 19     | SPR = 76.0%  | 18                 | 18                   | 19                 | 19                 |
| NON-DEPLETED STOCKS               |                      |        |        |  |                    |                      |                    | _                  |
| Arrowtooth Flounder               | 5,758                | 5,497  | 5,328  | $ACL = ABC (P^* = 0.4)$                                      | 6,025              | 4,058                | 5,840              | 3,934              |
| Black Rockfish (OR-CA)            | 1,000                | 1,000  | 1,000  | Constant catch strategy                                      | 1,000              | 922                  | 1,000              | 927                |
| Black Rockfish (WA)               | 409                  | 402    | 404    | $ACL = ABC (P^* = 0.45)$                                     | 402                | 330                  | 404                | 332                |
| Cabezon (CA)                      | 158                  | 154    | 151    | $ACL = ABC (P^* = 0.45)$                                     | 154                | 126                  | 151                | 124                |
| Cabezon (OR)                      | 47                   | 47     | 47     | $ACL = ABC (P^* = 0.45)$                                     | 47                 | 38                   | 47                 | 38                 |
| California scorpionfish           | 117                  | 114    | 111    | $ACL = ABC (P^* = 0.45)$                                     | 114                | 93                   | 111                | 91                 |
| Chilipepper S. of 40°10'          | 1,647                | 1,628  | 1,619  | $ACL = ABC (P^* = 0.45)$                                     | 1,628              | 1,335                | 1,619              | 1,328              |
| Dover Sole                        | 25,000               | 25,000 | 25,000 | Constant catch strategy; alt. ACL = 50,000 mt                | 25,000             | 25,000               | 25,000             | 25,000             |
| English Sole                      | 5,646                | 11,040 | 7,754  | $ACL = ABC (P^* = 0.45)$                                     | 11,040             | 7,437                | 7,754              | 5,223              |
| Lingcod N. of 40°10'              | 2,635                | 2,830  | 2,719  | $ACL = ABC (P^* = 0.45)$                                     | 2,830              | 2,172                | 2,719              | 2,089              |
| Lingcod S. of 40°10'              | 1,063                | 1,004  | 946    | $ACL = ABC (P^* = 0.4)$                                      | 1,100              | 741                  | 1,037              | 699                |
| Longnose skate                    | 2,000                | 2,000  | 2,000  | Constant catch strategy                                      | 2,000              | 1,920                | 2,000              | 1,885              |
| Longspine Thornyhead N. of 34°27' | 1,958                | 3,170  | 3,015  | ACL = $76\%$ of coastwide ABC ( $P^* = 0.4$ )                |                    | 2,340                | 3,305              | 2,226              |
| Longspine Thornyhead S. of 34°27' | 347                  | 1,001  | 952    | ACL = 24% of coastwide ABC (P* = 0.4)                        | 1,097              | 739                  | 1,044              | 703                |
| Pacific Cod                       | 1,600                | 1,600  | 1,600  | ACL = 50% of OFL   | 1,600              | 1,213                | 1,600              | 1,213              |
| Sablefish N. of 36°               | 4,349                | 4,793  | 5,241  | 40-10 rule applied to 73.6% of coastwide ABC ( $P^* = 0.4$ ) | 5,012              | 4,114                | 5,467              | 4,540              |

|                                      | Status<br>Quo<br>ACL |        |        | Preliminary Preferred ACLs (Alt. 3)  | ACLs               |                    | y the Overfishing ility (P*) |                    |
|--------------------------------------|----------------------|--------|--------|--|--------------------|--------------------|------------------------------|--------------------|
| Stock                                |                      |        |        |  | 20                 | 15                 | 2016                         |                    |
|                                      | 2014                 | 2015   | 2016   | ACL Harvest Control Rule   | P* = 0.45 (Alt. 1) | P* = 0.25 (Alt. 2) | P* = 0.45 (Alt. 1)           | P* = 0.25 (Alt. 2) |
|                                      | 1                    | F      |        |  |                    |                    |                              | T                  |
| Sablefish S. of 36°                  | 1,560                | 1,719  | 1,880  | 40-10 rule applied to 26.4% of coastwide ABC ( $P^* = 0.4$ )   | 1,798              | 1,475              | 1,961                        | 1,629              |
| Shortbelly                           | 50                   | 50     | 50     | De minimis ACL to accommodate incidental bycatch and allow harvestable surplus to be available as forage | 50                 | 50                 | 50                           | 50                 |
| Shortspine Thornyhead N. of 34°27'   | 1,525                | 1,745  | 1,726  | ACL = 65.4% of coastwide ABC (P* = 0.4)  | 1,913              | 1,288              | 1,892                        | 1,275              |
| Shortspine Thornyhead S. of 34°27'   | 393                  | 923    | 913    | ACL = 34.6% of coastwide ABC (P* = 0.4)  | 1,012              | 682                | 1,001                        | 674                |
| Spiny dogfish                        |                      | 1,912  | 1,897  | $ACL = ABC (P^* = 0.35)$   | 2,303              | 1,551              | 2,285                        | 1,540              |
| Splitnose S. of 40 <sup>0</sup> 10'  | 1,670                | 1,715  | 1,746  | $ACL = ABC (P^* = 0.45)$   | 1,715              | 1,406              | 1,746                        | 1,432              |
| Starry Flounder                      | 1,528                | 1,534  | 1,539  | $ACL = ABC (P^* = 0.4)$  | 1,681              | 1,132              | 1,686                        | 1,136              |
| Widow                                | 1,500                | 1,500  | 1,500  | Constant catch strategy; alt. $ACL = 3,000 \text{ mt}$   | 1,500              | 1,500              | 1,500                        | 1,500              |
| Yellowtail N. of 40 <sup>0</sup> 10' | 4,382                | 11,213 | 10,634 | $ACL = ABC (P^* = 0.45)$ 1   |                    | 7,553              | 10,634                       | 7,163              |
| STOCK COMPLEXES                      |                      |        |        |  |                    |                    |                              |                    |
| Nearshore Rockfish North             | 94                   | 69     | 69     | ACL = ABC (P* = 0.45); 40-10 adj. ACL contrib. for blue RF in CA and China RF                            | 69                 | 40                 | 69                           | 41                 |
| Shelf Rockfish North                 | 968                  | 1,944  | 1,952  | ACL = ABC (P* = 0.45); 40-10 adj. ACL contrib. for greenspotted RF in CA                                 | 1,944              | 1,142              | 1,952                        | 1,148              |
| Slope Rockfish North                 | 1,160                | 1,669  | 1,683  | $ACL = ABC (P^* = 0.45)$   | 1,669              | 1,215              | 1,683                        | 1,227              |
| Nearshore Rockfish South             | 990                  | 1,114  | 1,006  | ACL = ABC (P* = 0.45); 40-10 adj. ACL contrib. for blue RF N of 34°27' N lat.                            | 1,114              | 696                | 1,006                        | 684                |
| Shelf Rockfish South                 | 714                  | 1,624  | 1,625  | ACL = ABC (P* = 0.45); 40-10 adj. ACL contrib. for greenspotted RF in CA                                 | 1,624              | 802                | 1,625                        | 803                |
| Slope Rockfish South                 | 622                  | 687    | 689    | $ACL = ABC (P^* = 0.45); 40-10 adj. ACL contrib. for blackgill RF$                                       | 687                | 384                | 689                          | 386                |
| Other Flatfish                       | 4,884                | 8,620  | 7,496  | $ACL = ABC (P^* = 0.4)$  | 9,865              | 5,606              | 8,633                        | 4,775              |
| Other Fish                           | 4,697                |        | •      | This complex no longer exists  | NA                 | NA                 | NA                           | NA                 |
| Cabezon (WA) a/                      | NA                   | 3.7    | 4.0    | $ACL = ABC (P^* = 0.45)$   | 3.7                | 1.7                | 4.0                          | 1.8                |
| Kelp greenling (CA) a/               | NA                   | 99.2   | 99.2   | $ACL = ABC (P^* = 0.45)$   | 99.2               | 45.1               | 99.2                         | 45.1               |
| Kelp greenling (OR) a/               | NA                   | 11.7   | 12.9   | $ACL = ABC (P^* = 0.45)$   | 11.7               | 5.3                | 12.9                         | 6.3                |
| Kelp greenling (WA) a/               | NA                   | 21.8   | 19.7   | $ACL = ABC (P^* = 0.4)$  | 26.2               | 11.9               | 23.7                         | 10.8               |
| Leopard shark a/                     | NA                   | 139.4  | 139.4  | $ACL = ABC (P^* = 0.45)$   | 139.4              | 63.3               | 139.4                        | 63.3               |

| Stock                                  | Status<br>Quo<br>ACL |      | ACLs Varied by the Overfishing<br>Probability (P*) |   |                    |                    |                    |                    |
|--|----------------------|------|--|---|--------------------|--------------------|--------------------|--------------------|
| Stock                                  |                      |      |  |   |                    | )15                | 2016               |                    |
|  | 2014 2015            | 2015 | 2015 2016  | ACL Harvest Control Rule                    | P* = 0.45 (Alt. 1) | P* = 0.25 (Alt. 2) | P* = 0.45 (Alt. 1) | P* = 0.25 (Alt. 2) |
| ECOSYSTEM COMPONENT SPEC               | CIES                 |      |  |   |                    |                    |                    |                    |
| Big skate                              |                      |      |  |   |                    |                    |                    |                    |
| California skate                       | 1                    |      |  |   |                    |                    |                    |                    |
| Aleutian skate                         |                      |      |  |   |                    |                    |                    |                    |
| Roughtail/black skate                  |                      |      |  |   |                    |                    |                    |                    |
| Bering/sandpaper skate                 |                      |      |  |   |                    |                    |                    |                    |
| All other skates (other than longnose) |                      |      |  | No harmost specifications for an EC species |                    |                    |                    |                    |
| Pacific grenadier                      |                      |      |  | No harvest specifications for an EC species |                    |                    |                    |                    |
| Giant grenadier                        |                      |      |  |   |                    |                    |                    |                    |
| All other grenadiers                   |                      |      |  |   |                    |                    |                    |                    |
| Ratfish                                |                      |      |  |   |                    |                    |                    |                    |
| Soupfin shark                          |                      |      |  |   |                    |                    |                    |                    |
| Finescale codling                      |                      |      |  |   |                    |                    |                    |                    |

a/ These stocks have been managed in the Other Fish complex and are contemplated for individual stock management or in a new shallow roundfish stock complex in 2015-2016.

Table 5. Estimated time to rebuild and exploitation rate relative to alternative 2015-2016 ACLs for cowcod south of 40°10' N lat.

|        |                                |   |                            |          | ACLs | (mt) |                                      |                              |  |                                      |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |            |      |   |       |       |
|--------|--------------------------------|---|----------------------------|----------|------|------|--------------------------------------|------------------------------|--|--------------------------------------|-----------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----|-----|------------|------|---|-------|-------|
| Stock  | Current<br>T <sub>TARGET</sub> | Current<br>SPR or<br>Harvest<br>Control<br>Rule | PPA<br>T <sub>TARGET</sub> | ACL Alt. | 2015 | 2016 | SPR or<br>Harvest<br>Control<br>Rule | Median<br>Time to<br>Rebuild | Rebuilding<br>Duration<br>Beyond<br>T@F=0 (yrs.) | Prob. of<br>Rebuilding by<br>Ttarget | Prob. of<br>Rebuilding by<br>Tmax |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |            |      |   |       |       |
|        |                                |   |                            | ı        | 0    | 1 0  | Е 0                                  | 2010                         | 1 0  | 05.00/                               | 02.00/                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |            |      |   |       |       |
|        |                                |   |                            |          | 0    | 0    | E = 0                                | 2019                         | 0  | 95.9%                                | 93.8%                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |            |      |   |       |       |
|        |                                |   |                            |          | 1.8  | 1.9  | E = 0.0013                           | 2019                         | 0  | 95.2%                                | 93.0%                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |            |      |   |       |       |
|        |                                |   |                            |          | 2.4  | 2.5  | E = 0.0018                           | 2019                         | 0  | 95.0%                                | 92.7%                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |            |      |   |       |       |
|        |                                |   |                            |          | 3.0  | 3.1  | E = 0.0022                           | 2019                         | 0  | 94.7%                                | 92.4%                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |            |      |   |       |       |
|        |                                |   |                            |          | 3.7  | 3.8  | E = 0.0027                           | 2019                         | 0  | 94.4%                                | 91.9%                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |            |      |   |       |       |
|        |                                |   |                            | PPA ACT  | 4.3  | 4.4  | E = 0.0031                           | 2019                         | 0  | 94.0%                                | 91.5%                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |            |      |   |       |       |
|        |                                |   |                            |          | 4.9  | 5.0  | E = 0.0036                           | 2019                         | 0  | 93.4%                                | 91.3%                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |            |      |   |       |       |
|        |                                |   |                            |          | 5.5  | 5.6  | E = 0.0040                           | 2019                         | 0  | 93.4%                                | 91.0%                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |            |      |   |       |       |
| Cowcod | 2068                           | 82.7%   | X                          |          | 6.1  | 6.3  | E = 0.0045                           | 2019                         | 0  | 93.1%                                | 90.6%                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |            |      |   |       |       |
| 30204  | 2000                           | 021,70  | 71                         |          | 6.7  | 6.9  | E = 0.0049                           | 2019                         | 0  | 92.7%                                | 90.2%                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |            |      |   |       |       |
|        |                                |   |                            |          | 7.3  | 7.5  | E = 0.0054                           | 2019                         | 0  | 92.4%                                | 89.8%                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |            |      |   |       |       |
|        |                                |   |                            |          | 7.9  | 8.1  | E = 0.0058                           | 2019                         | 0  | 92.0%                                | 89.6%                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |            |      |   |       |       |
|        |                                |   |                            |          |      |      |                                      |                              |  |                                      |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 8.5 | 8.8 | E = 0.0063 | 2019 | 0 | 91.5% | 89.2% |
|        |                                |   |                            |          | 9.1  | 9.4  | E = 0.0067                           | 2019                         | 0  | 91.2%                                | 88.8%                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |            |      |   |       |       |
|        |                                |   |                            | PPA ACL  | 9.5  | 9.8  | E = 0.007                            | 2020                         | 1  | 90.9%                                | 88.4%                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |            |      |   |       |       |
|        |                                |   |                            |          | 9.7  | 10.0 | E = 0.0072                           | 2020                         | 1  | 90.9%                                | 88.5%                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |            |      |   |       |       |
|        |                                |   |                            |          | 55.8 | 55.8 | E = 0.0409                           | 2039                         | 20   | 55.0%                                | 53.4%                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |            |      |   |       |       |
|        |                                |   |                            |          | 62.5 | 62.2 | E = 0.0458                           | 2057                         | 38   | 51.4%                                | 50.0%                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |            |      |   |       |       |

Table 6. Proposed annual catch limits and alternative state harvest guidelines for the Nearshore Rockfish complex north of 40°10' N lat. in 2015 and 2016 (as adopted for analysis in November 2013a/).

| Year  | ACL  | Basis for           | N CA    |       | OR      |       | WA      |          | OR + WA |       |
|-------|------|---------------------|---------|-------|---------|-------|---------|----------|---------|-------|
| 1 ear | (mt) | HG                  | HG (mt) | %     | HG (mt) | %     | HG (mt) | <b>%</b> | HG (mt) | %     |
| 2015  | 69   | Prop. of cum. catch | 36.1    | 52.6% | 28.1    | 40.9% | 4.5     | 6.5%     | 32.6    | 47.4% |
| 2016  | 69   | Prop. of cum. catch | 36.4    | 52.6% | 28.3    | 40.9% | 4.5     | 6.5%     | 32.8    | 47.4% |

a/ See Agenda Item C.4.b, WDFW Report for additional alternative HGs for the northern Nearshore Rockfish complex.

Table 7. Proposed annual catch limits and alternative state harvest guidelines for China rockfish north of  $40^{\circ}10^{\circ}$  N lat. in 2015 and 2016 as adopted for analysis in November 2013 ( $P^* = 0.45$ ; 40-10 adj.).

|                 | ACL                          |                            | N          | CA    | (          | )R    | V          | VA    | OR         | + WA  |
|-----------------|------------------------------|----------------------------|------------|-------|------------|-------|------------|-------|------------|-------|
| Year (mt)<br>a/ |                              | Basis for HG               | HG<br>(mt) | %     | HG<br>(mt) | %     | HG<br>(mt) | %     | HG<br>(mt) | %     |
|                 |                              | Prop. of cum. catch        | 0.9        | 15.3% | 4.2        | 66.9% | 1.1        | 17.9% | 5.3        | 84.7% |
| 2015            | 6.2                          | Prop of highest rec. catch | 0.7        | 10.5% | 3.5        | 55.5% | 2.1        | 34.0% | 5.6        | 89.5% |
|                 | Prop. of highest comm. catch | 1.0                        | 16.6%      | 5.2   | 83.4%      | 0.0   | 0.0%       | 5.2   | 83.4%      |       |
|                 |                              | Prop. of cum. catch        | 1.0        | 15.3% | 4.3        | 66.9% | 1.2        | 17.9% | 5.5        | 84.7% |
| 2016 6.5        | Prop of highest rec. catch   | 0.7                        | 10.5%      | 3.6   | 55.5%      | 2.2   | 34.0%      | 5.8   | 89.5%      |       |
|                 | Prop. of highest comm. catch | 1.1                        | 16.6%      | 5.4   | 83.4%      | 0.0   | 0.0%       | 5.4   | 83.4%      |       |

a/ Annual catch limits adjusted from the ABCs (cat.  $2/P^* = 0.45$ ) using the 40-10 harvest control rule.

Table 8. Proposed blue rockfish harvest guidelines for California fisheries in 2015 and 2016.

| Auro  | OFL contr | •     |        | ribution by<br>ea | 40-10 adj<br>contributi | usted HG<br>on by area |  |
|---|-----------|-------|--------|-------------------|-------------------------|------------------------|--|
| Area  | aı        | ca    | P* = ( | ).45 a/           | P* = 0.45  a            |                        |  |
|   | 2015      | 2016  | 2015   | 2016              | 2015                    | 2016                   |  |
| 40°10' - 42° N lat.                         | 27.4      | 27.7  | 25.0   | 25.3              | 17.0                    | 17.5                   |  |
| 34°27' - 40°10' N lat.                      | 188.6     | 190.3 | 172.2  | 173.8             | 116.6                   | 120.0                  |  |
| South of 34°27' N lat.<br>(unassessed area) | 72.9      | 72.9  | 60.8   | 60.8              | 60.8                    | 60.8                   |  |
| Total for CA                                | 288.9     | 290.9 | 258.0  | 259.8             | 194.4                   | 198.3                  |  |

a/ Harvest specifications based on the ABCs determined using a  $P^* = 0.45$  are preferred.

Table 9. Proposed 2015 and 2016 OFL and ABC contributions (in mt), and proposed harvest guidelines (in mt) for blackgill rockfish south of  $40^{\circ}10^{\circ}$  N lat.

| Stock                          | 2015 OFL contribution | 2015 ABC contribution | 2015<br>HG a/ | 2016 OFL contribution | 2016 ABC contribution | 2016<br>HG a/ |
|--------------------------------|-----------------------|-----------------------|---------------|-----------------------|-----------------------|---------------|
| Blackgill Rockfish S of 40°10' | 137                   | 125                   | 114           | 140                   | 128                   | 117           |

a/ Harvest guideline is based on the 40-10 adjustment from the preferred ABC.

Table 10. Alternative 3 – Preliminary Preferred Alternative (PPA). 2015 ACLs and estimates of tribal (Trib), EFP, research (Res.), and incidental open access (OA) groundfish mortality in metric tons, used to calculate the fishery harvest guideline (HG), under Alternative 3.

| Species               | Area                | ACL    | Tribal | EFP   | Research | OA    | Fishery<br>HG |
|-----------------------|---------------------|--------|--------|-------|----------|-------|---------------|
| BOCACCIO              | S of 40°10' N. lat. | 349    |        | 3     | 4.6      | 0.7   | 340.7         |
| CANARY                | Coastwide           | 122    | 7.7    | 1     | 4.5      | 2     | 106.8         |
| COWCOD                | S of 40°10' N. lat. | 10     |        | 0.015 | 2        |       | 7.98          |
| DARKBLOTCHED          | Coastwide           | 338    | 0.2    | 0.1   | 2.1      | 18.4  | 317.2         |
| PETRALE SOLE          | Coastwide           | 2,816  | 220    |       | 14.2     | 2.4   | 2,579.4       |
| POP                   | N of 40°10' N. lat. | 158    | 9.2    |       | 5.2      | 0.6   | 143.0         |
| YELLOWEYE             | Coastwide           | 18     | 2.3    | 0.03  | 3.3      | 0.2   | 12.2          |
| Arrowtooth flounder   | Coastwide           | 5,497  | 2,041  |       | 16.39    | 30    | 3,409.6       |
| Black                 | N of 46°16' N. lat. | 402    | 14     |       |          |       | 388.0         |
| Black                 | S of 46°16' N. lat. | 1,000  |        | 1     |          |       | 999.0         |
| Cabezon               | OR                  | 47     |        |       |          |       | 47.0          |
| Cabezon               | CA                  | 154    |        |       |          |       | 154.0         |
| Cabezon               | WA                  | XXX    |        |       |          |       | XXX           |
| California            | S of 34°27' N. lat. | 114    |        |       |          | 2     | 112.0         |
| Chilipepper           | S of 40°10' N. lat. | 1,628  |        | 10    | 9        | 5     | 1,604.0       |
| Dover sole            | Coastwide           | 25,000 | 1,497  |       | 41.9     | 55    | 23,406.1      |
| English sole          | Coastwide           | 11,040 | 91     |       | 5.8      | 7     | 10,936.2      |
| Kelp Greenling        | CA                  | 99     |        |       |          |       | 99.2          |
| Kelp Greenling        | OR                  | 12     |        |       |          |       | 11.7          |
| Kelp Greenling        | WA                  | 21.8   |        |       |          |       | 21.8          |
| Leopard Shark         | Coastwide           | 139    |        |       |          |       | 139.4         |
| Lingcod               | N of 40'10° N. lat. | 2,830  | 250    | 0.5   | 11.67    | 16    | 2,551.8       |
| Lingcod               | S of 40'10° N. lat. | 1,004  |        | 1.0   | 1.1      | 7     | 994.9         |
| Longnose skate        | Coastwide           | 2,000  | 56     |       | 13.18    | 3.8   | 1,927.0       |
| Longspine             | N of 34°27' N. lat. | 3,170  | 30     |       | 13.5     | 3     | 3,123.5       |
| Longspine             | S of 34°27' N. lat. | 1,001  |        |       | 1        | 2     | 998.0         |
| Pacific cod           | Coastwide           | 1,600  | 400    |       | 7.04     | 2     | 1,191.0       |
| Sablefish             | N of 36° N. lat.    | 4,793  |        |       | See Tabl | e 14  | -             |
| Sablefish             | S of 36° N. lat.    | 1,719  |        |       | 3        | 2     | 1,714.0       |
| Shortbelly            | Coastwide           | 50     |        |       | 2        |       | 48.0          |
| Shortspine            | N of 34°27' N. lat. | 1,745  | 50     |       | 7.22     | 2     | 1,685.8       |
| Shortspine            | S of 34°27' N. lat. | 923    |        |       | 1        | 41    | 881.0         |
| Spiny Dogfish         | Coastwide           | 1,912  | 111.8  | 1     | 12.5     | 49.53 | 1,737.2       |
| Splitnose             | S of 40°10' N. lat. | 1,715  |        | 1.5   | 9        |       | 1,704.5       |
| Starry flounder       | Coastwide           | 1,534  | 2      |       |          | 8.3   | 1,523.7       |
| Widow                 | Coastwide           | 1,500  | 60     | 9     | 7.9      | 3.3   | 1,419.8       |
| Yellowtail            | N of 40°10' N. lat. | 11,213 | 677    | 10    | 16.6     | 3     | 10,506.4      |
| Nearshore rockfish N. | N of 40°10' N. lat. | 69     |        |       |          |       | 69.0          |
| Nearshore rockfish S. | S of 40°10' N. lat. | 1,114  |        |       | 2.6      | 1.4   | 1,110.0       |
| Shelf rockfish N.     | N of 40°10' N. lat. | 1,944  | 30     | 3     | 13.4     | 26    | 1,871.6       |
| Shelf rockfish S.     | S of 40°10' N. lat. | 1,624  |        | 30    | 9.6      | 9     | 1,575.4       |
| Slope rockfish N.     | N of 40°10' N. lat. | 1,669  | 36     | 1     | 8.1      | 19    | 1,604.9       |
| Slope rockfish S.     | S of 40°10' N. lat. | 687    |        | 1     | 2        | 17    | 667.0         |
| Other flatfish        | Coastwide           | 8,620  | 60     |       | 19       | 125   | 8,416.0       |

Table 11. Alternative 3 – PPA. Stock specific fishery harvest guidelines (HG) or annual catch targets (ACT) and allocations for 2015 (in mt).

| Species               | Area                | Fishery<br>HG or | Allocation Type | T     | rawl     | Non   | -trawl  |
|-----------------------|---------------------|------------------|-----------------|-------|----------|-------|---------|
|                       |                     | ACT              |                 | %     | Mt       | %     | Mt      |
| BOCACCIO              | S of 40°10' N. lat. | 340.7            | Biennial        | N/A   | 81.9     | N/A   | 258.8   |
| CANARY                | Coastwide           | 106.8            | Biennial        | N/A   | 56.9     | N/A   | 49.9    |
| COWCOD a/             | S of 40°10' N. lat. | 4.0              | Biennial        | N/A   | 1.4      | N/A   | 2.6     |
| DARKBLOTCHED          | Coastwide           | 317.2            | Amendment 21    | 95%   | 301.3    | 5%    | 15.9    |
| PETRALE SOLE          | Coastwide           | 2,579.4          | Biennial        | N/A   | 2,544.4  | N/A   | 35.0    |
| POP                   | N of 40°10' N. lat. | 143.0            | Amendment 21    | 95%   | 135.9    | 5%    | 7.2     |
| YELLOWEYE             | Coastwide           | 12.2             | Biennial        | N/A   | 1.0      | N/A   | 11.2    |
| Arrowtooth flounder   | Coastwide           | 3,409.6          | Amendment 21    | 95%   | 3,239.1  | 5%    | 170.5   |
| Black                 | N of 46°16' N. lat. | 388.0            | None            |       |          |       |         |
| Black                 | S of 46°16' N. lat. | 999.0            | None            |       |          |       |         |
| Cabezon               | OR                  | 47.0             | None            |       |          |       |         |
| Cabezon               | CA                  | 154.0            | None            |       |          |       |         |
| Cabezon               | WA                  | XXX              | None            |       |          |       |         |
| California            | S of 34°27' N. lat. | 112.0            | None            |       |          |       |         |
| Chilipepper           | S of 40°10' N. lat. | 1,604.0          | Amendment 21    | 75%   | 1,203.0  | 25%   | 401.0   |
| Dover sole            | Coastwide           | 23,406.1         | Amendment 21    | 95%   | 22,235.8 | 5%    | 1,170.3 |
| English sole          | Coastwide           | 10,936.2         | Amendment 21    | 95%   | 10,389.4 | 5%    | 546.8   |
| Kelp Greenling        | CA                  | 99.2             | None            |       |          |       |         |
| Kelp Greenling        | OR                  | 11.7             | None            |       |          |       |         |
| Kelp Greenling        | WA                  | 21.8             | None            |       |          |       |         |
| Leopard Shark         | Coastwide           | 139.4            | None            |       |          |       |         |
| Lingcod               | N of 40'10° N. lat. | 2,551.8          | Amendment 21    | 45%   | 1,148.3  | 55%   | 1,403.5 |
| Lingcod               | S of 40'10° N. lat. | 994.9            | Amendment 21    | 45%   | 447.7    | 55%   | 547.2   |
| Longnose skate        | Coastwide           | 1,927.0          | Biennial        | 90%   | 1,734.3  | 10%   | 192.7   |
| Longspine             | N of 34°27' N. lat. | 3,123.5          | Amendment 21    | 95%   | 2,967.3  | 5%    | 156.2   |
| Longspine             | S of 34°27' N. lat. | 998.0            | None            |       |          |       |         |
| Pacific cod           | Coastwide           | 1,191.0          | Amendment 21    | 95%   | 1,131.4  | 5%    | 59.5    |
| Sablefish             | N of 36° N. lat.    |                  | See Table 1 c   |       |          |       |         |
| Sablefish             | S of 36° N. lat.    | 1,714.0          | Amendment 21    | 42%   | 719.9    | 58%   | 994.1   |
| Shortbelly            | Coastwide           | 48.0             | None            |       |          |       | 0.0     |
| Shortspine            | N of 34°27' N. lat. | 1,685.8          | Amendment 21    | 95%   | 1,601.5  | 5%    | 84.3    |
| Shortspine            | S of 34°27' N. lat. | 881.0            | Amendment 21    | NA    | 50.0     | NA    | 831.0   |
| Spiny Dogfish         | Coastwide           | 1,737.2          | None            |       |          |       |         |
| Splitnose             | S of 40°10' N. lat. | 1,704.5          | Amendment 21    | 95%   | 1,619.3  | 5%    | 85.2    |
| Starry flounder       | Coastwide           | 1,523.7          | Amendment 21    | 50%   | 761.9    | 50%   | 761.9   |
| Widow                 | Coastwide           | 1,419.8          | Amendment 21    | 91%   | 1,292.0  | 9%    | 127.8   |
| Yellowtail            | N of 40°10' N. lat. | 10,506.4         | Amendment 21    | 88%   | 9,245.6  | 12%   | 1,260.8 |
| Nearshore rockfish N. | N of 40°10' N. lat. | 69.0             | None            |       |          |       |         |
| Nearshore rockfish S. | S of 40°10' N. lat. | 1,110.0          | None            |       |          |       |         |
| Other flatfish        | Coastwide           | 8,416.0          | Amendment 21    | 90%   | 7,574.4  | 10%   | 841.6   |
| Shelf rockfish N.     | N of 40°10' N. lat. | 1,871.6          | Biennial        | 60.2% | 1,126.7  | 39.8% | 744.9   |
| Shelf rockfish S.     | S of 40°10' N. lat. | 1,575.4          | Biennial        | 12.2% | 192.2    | 87.8% | 1,383.2 |
| Slope rockfish N.     | N of 40°10' N. lat. | 1,604.9          | Amendment 21    | 81%   | 1,300.0  | 19%   | 304.9   |
| Slope rockfish S.     | S of 40°10' N. lat. | 667.0            | Amendment 21    | 63%   | 420.2    | 37%   | 246.8   |

a/ The cowcod fishery harvest guideline is further reduced to an ACT of 4 mt.

Table 12. Alternative 3 - PPA. 2016 ACLs and estimates of tribal (Trib), EFP, research (Res.), and incidental open access (OA) groundfish mortality in metric tons, used to calculate the fishery harvest guideline (HG), under Alternative 3.

| Species               | Area                | ACL    | Tribal | EFP   | Research | OA      | Fishery HG |
|-----------------------|---------------------|--------|--------|-------|----------|---------|------------|
| BOCACCIO              | S of 40°10' N. lat. | 362    |        | 3     | 4.6      | 0.7     | 353.7      |
| CANARY                | Coastwide           | 125    | 7.7    | 1     | 4.5      | 2       | 109.8      |
| COWCOD                | S of 40°10' N. lat. | 10     |        | 0.015 | 2        |         | 7.98       |
| DARKBLOTCHED          | Coastwide           | 346    | 0.2    | 0.1   | 2.1      | 18.4    | 325.2      |
| PETRALE SOLE          | Coastwide           | 2,910  | 220    |       | 14.2     | 2.4     | 2,673.4    |
| POP                   | N of 40°10' N. lat. | 164    | 9.2    |       | 5.2      | 0.6     | 149.0      |
| YELLOWEYE             | Coastwide           | 19     | 2.3    | 0.03  | 3.3      | 0.2     | 13.2       |
| Arrowtooth flounder   | Coastwide           | 5,328  | 2,041  |       | 16.39    | 30      | 3,240.6    |
| Black                 | N of 46°16' N. lat. | 404    | 14     |       |          |         | 390.0      |
| Black                 | S of 46°16' N. lat. | 1,000  |        | 1     |          |         | 999.0      |
| Cabezon               | OR                  | 47     |        |       |          |         | 47.0       |
| Cabezon               | CA                  | 151    |        |       |          |         | 151.0      |
| Cabezon               | WA                  | XXX    |        |       |          |         | XXX        |
| CA scorpionfish       | S of 34°27' N. lat. | 111    |        |       |          | 2       | 109.0      |
| Chilipepper           | S of 40°10' N. lat. | 1,619  |        | 10    | 9        | 5       | 1,595.0    |
| Dover sole            | Coastwide           | 25,000 | 1,497  |       | 41.9     | 55      | 23,406.1   |
| English sole          | Coastwide           | 7,754  | 91     |       | 5.8      | 7       | 7,650.2    |
| Kelp Greenling        | CA                  | 99     |        |       |          |         | 99.2       |
| Kelp Greenling        | OR                  | 13     |        |       |          |         | 12.9       |
| Kelp Greenling        | WA                  | 19.7   |        |       |          |         | 19.7       |
| Leopard Shark         | Coastwide           | 139    |        |       |          |         | 139.4      |
| Lingcod               | N of 40'10° N. lat. | 2,719  | 250    | 0.5   | 11.67    | 16      | 2,440.8    |
| Lingcod               | S of 40'10° N. lat. | 946    |        | 1.0   | 1.1      | 7       | 936.9      |
| Longnose skate        | Coastwide           | 2,000  | 56     |       | 13.18    | 3.8     | 1,927.0    |
| Longspine             | N of 34°27' N. lat. | 3,015  | 30     |       | 13.5     | 3       | 2,968.5    |
| Longspine             | S of 34°27' N. lat. | 952    |        |       | 1        | 2       | 949.0      |
| Pacific cod           | Coastwide           | 1,600  | 400    |       | 7.04     | 2       | 1,191.0    |
| Sablefish             | N of 36° N. lat.    | 5,241  |        |       | Se       | e Table | 14         |
| Sablefish             | S of 36° N. lat.    | 1,880  |        |       | 3        | 2       | 1,875.0    |
| Shortbelly            | Coastwide           | 50     |        |       | 2        |         | 48.0       |
| Shortspine            | N of 34°27' N. lat. | 1,726  | 50     |       | 7.22     | 2       | 1,666.8    |
| Shortspine            | S of 34°27' N. lat. | 913    |        |       | 1        | 41      | 871.0      |
| Spiny Dogfish         | Coastwide           | 1,897  | 111.8  | 1     | 12.5     | 49.53   | 1,722.2    |
| Splitnose             | S of 40°10' N. lat. | 1,746  |        | 1.5   | 9        |         | 1,735.5    |
| Starry flounder       | Coastwide           | 1,539  | 2      |       |          | 8.3     | 1,528.7    |
| Widow                 | Coastwide           | 1,500  | 60     | 9     | 7.9      | 3.3     | 1,419.8    |
| Yellowtail            | N of 40°10' N. lat. | 10,634 | 677    | 10    | 16.6     | 3       | 9,927.4    |
| Nearshore rockfish N. | N of 40°10' N. lat. | 69     |        |       |          |         | 69.0       |
| Nearshore rockfish S. | S of 40°10' N. lat. | 1,006  |        |       | 2.6      | 1.4     | 1,002.0    |
| Shelf rockfish N.     | N of 40°10' N. lat. | 1,952  | 30     | 3     | 13.4     | 26      | 1,879.6    |
| Shelf rockfish S.     | S of 40°10' N. lat. | 1,625  |        | 30    | 9.6      | 9       | 1,576.4    |
| Slope rockfish N.     | N of 40°10' N. lat. | 1,683  | 36     | 1     | 8.1      | 19      | 1,618.9    |
| Slope rockfish S.     | S of 40°10' N. lat. | 689    |        | 1     | 2        | 17      | 669.0      |
| Other flatfish        | Coastwide           | 7,496  | 60     |       | 19       | 125     | 7,292.0    |

Table~13.~Alternative~3-Preliminary~Preferred~Alternative.~Stock~specific~fishery~harvest~guidelines~(HG)~or~annual~catch~targets~(ACT)~and~allocations~for~2016~(in~mt).

| BOCACCIO   S of 40°10' N. lat.   353.7   Biennial   N/A   85.0   N/A   26  | Species             | Awaa                | Fisher  |               | T    | Trawl Mt |      | trawl  |
|--|---------------------|---------------------|---------|---------------|------|----------|------|--------|
| CANARY   | Species             | Area                | y HG    | Allocation    | %    | Mt       | %    | Mt     |
| COWCOD a/  | BOCACCIO            | S of 40°10' N. lat. | 353.7   | Biennial      |      |          |      | 268.7  |
| DARKBLOTCHED   |                     |                     |         |               |      |          |      | 49.9   |
| PETRALE SOLE   |                     | S of 40°10' N. lat. |         | Biennial      | N/A  |          |      | 2.6    |
| POP  | DARKBLOTCHED        | Coastwide           | 325.2   |               |      |          |      | 16.3   |
| YELLOWEYE         Coastwide         13.2         Biennial         N/A         1.0         N/A         1           Arrowtooth flounder         Coastwide         3,240.6         Amendment         95%         3,078.6         5%         16           Black         Nof 46°16' N.         390.0         None  | PETRALE SOLE        | Coastwide           | 2,673.4 | Biennial      | N/A  | 2,638.4  | N/A  | 35.0   |
| Arrowtooth flounder  |                     | N of 40°10' N.      | 149.0   |               | 95%  | 141.6    | 5%   | 7.5    |
| Black         N of 46°16' N.         390.0         None           Black         S of 46°16' N. lat.         999.0         None           Cabezon         OR         47.0         None           Cabezon         CA         151.0         None           Cabezon         WA         XXX         None           California         S of 34°27' N. lat.         109.0         None           Chilipepper         S of 40°10' N. lat.         1,595.0         Amendment         75%         1,196.3         25%         39           Dover sole         Coastwide         23,406.         Amendment         95%         22,235.         5%         1,1           English sole         Coastwide         7,650.2         Amendment         95%         7,267.7         5%         38           Kelp Greenling         CA         99.2         None         None <td>YELLOWEYE</td> <td>Coastwide</td> <td></td> <td>Biennial</td> <td>N/A</td> <td>1.0</td> <td>N/A</td> <td>11.2</td>  | YELLOWEYE           | Coastwide           |         | Biennial      | N/A  | 1.0      | N/A  | 11.2   |
| Black  | Arrowtooth flounder | Coastwide           | 3,240.6 | Amendment     | 95%  | 3,078.6  | 5%   | 162.0  |
| Cabezon         OR         47.0         None           Cabezon         CA         151.0         None           Cabezon         WA         XXX         None           California         S of 34°27' N. lat.         109.0         None           Chilipepper         S of 40°10' N. lat.         1,595.0         Amendment         75%         1,196.3         25%         39           Dover sole         Coastwide         23,406.         Amendment         95%         22,235.         5%         1,1           English sole         Coastwide         7,650.2         Amendment         95%         7,267.7         5%         38           Kelp Greenling         CA         99.2         None   | Black               | N of 46°16' N.      | 390.0   | None          |      |          |      |        |
| Cabezon         CA         151.0         None           Cabezon         WA         XXXX         None           California         S of 34°27' N. lat.         109.0         None           Chilipepper         S of 40°10' N. lat.         1,595.0         Amendment         75%         1,196.3         25%         39           Dover sole         Coastwide         23,406.         Amendment         95%         22,235.         5%         1,1           English sole         Coastwide         7,650.2         Amendment         95%         7,267.7         5%         38           Kelp Greenling         CA         99.2         None         None </td <td>Black</td> <td>S of 46°16' N. lat.</td> <td>999.0</td> <td>None</td> <td></td> <td></td> <td></td> <td></td>  | Black               | S of 46°16' N. lat. | 999.0   | None          |      |          |      |        |
| Cabezon         WA         XXX         None           California         S of 34°27' N. lat.         109.0         None           Chilipepper         S of 40°10' N. lat.         1,595.0         Amendment         75%         1,196.3         25%         39           Dover sole         Coastwide         23,406.         Amendment         95%         22,235.         5%         1,1           English sole         Coastwide         7,650.2         Amendment         95%         7,267.7         5%         38           Kelp Greenling         CA         99.2         None         None </td <td>Cabezon</td> <td>OR</td> <td>47.0</td> <td>None</td> <td></td> <td></td> <td></td> <td></td>  | Cabezon             | OR                  | 47.0    | None          |      |          |      |        |
| California         S of 34°27' N. lat.         109.0         None           Chilipepper         S of 40°10' N. lat.         1,595.0         Amendment         75%         1,196.3         25%         39           Dover sole         Coastwide         23,406.         Amendment         95%         22,235.         5%         1,1           English sole         Coastwide         7,650.2         Amendment         95%         7,267.7         5%         38           Kelp Greenling         CA         99.2         None         Non  | Cabezon             | CA                  | 151.0   | None          |      |          |      |        |
| Chilipepper         S of 40°10' N. lat.         1,595.0         Amendment         75%         1,196.3         25%         39           Dover sole         Coastwide         23,406.         Amendment         95%         22,235.         5%         1,1           English sole         Coastwide         7,650.2         Amendment         95%         7,267.7         5%         38           Kelp Greenling         CA         99.2         None  | Cabezon             | WA                  | XXX     | None          |      |          |      |        |
| Dover sole         Coastwide         23,406.         Amendment         95%         22,235.         5%         1,1           English sole         Coastwide         7,650.2         Amendment         95%         7,267.7         5%         38           Kelp Greenling         CA         99.2         None         1 <td< td=""><td>California</td><td>S of 34°27' N. lat.</td><td>109.0</td><td>None</td><td></td><td></td><td></td><td></td></td<>   | California          | S of 34°27' N. lat. | 109.0   | None          |      |          |      |        |
| English sole         Coastwide         7,650.2         Amendment         95%         7,267.7         5%         38           Kelp Greenling         CA         99.2         None         12.9         None         12.0         None         <   | Chilipepper         | S of 40°10' N. lat. | 1,595.0 | Amendment     | 75%  | 1,196.3  | 25%  | 398.8  |
| Kelp Greenling         CA         99.2         None           Kelp Greenling         WA         12.9         None           Leopard Shark         Coastwide         139.4         None           Lingcod         N of 40'10° N.         2,440.8         Amendment         45%         1,098.4         55%         1,3           Lingcod         S of 40'10° N. lat.         936.9         Amendment         45%         421.6         55%         51           Longnose skate         Coastwide         1,927.0         Biennial         90%         1,734.3         10%         19           Longspine         N of 34°27' N.         2,968.5         Amendment         95%         2,820.1         5%         14           Longspine         S of 34°27' N. lat.         949.0         None         None         1           Pacific cod         Coastwide         1,191.0         Amendment         95%         1,131.4         5%         56           Sablefish         N of 36° N. lat.         0.0         See Table 1 c         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1  | Dover sole          | Coastwide           | 23,406. | Amendment     | 95%  | 22,235.  | 5%   | 1,170. |
| Kelp Greenling         OR         12.9         None           Kelp Greenling         WA         19.7         None           Leopard Shark         Coastwide         139.4         None           Lingcod         N of 40'10° N.         2,440.8         Amendment         45%         1,098.4         55%         1,3           Lingcod         S of 40'10° N. lat.         936.9         Amendment         45%         421.6         55%         51           Longnose skate         Coastwide         1,927.0         Biennial         90%         1,734.3         10%         19           Longspine         N of 34°27' N.         2,968.5         Amendment         95%         2,820.1         5%         14           Longspine         S of 34°27' N. lat.         949.0         None         None         95%         1,131.4         5%         5           Sablefish         N of 36° N. lat.         0.0         See Table 1 c         0         5         5           Sablefish         S of 36° N. lat.         1,875.0         Amendment         42%         787.5         58%         1,6           Shortspine         N of 34°27' N. lat.         871.0         Amendment         NA         50.0         NA  | English sole        | Coastwide           | 7,650.2 | Amendment     | 95%  | 7,267.7  | 5%   | 382.5  |
| Kelp Greenling         WA         19.7         None           Leopard Shark         Coastwide         139.4         None           Lingcod         N of 40'10° N.         2,440.8         Amendment         45%         1,098.4         55%         1,3           Lingcod         S of 40'10° N. lat.         936.9         Amendment         45%         421.6         55%         51           Longsose skate         Coastwide         1,927.0         Biennial         90%         1,734.3         10%         19           Longspine         N of 34°27' N.         2,968.5         Amendment         95%         2,820.1         5%         14           Longspine         S of 34°27' N. lat.         949.0         None         None         95%         1,131.4         5%         59           Sablefish         N of 36° N. lat.         0.0         See Table 1 c         0.0         0.0         See Table 1 c         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0  | Kelp Greenling      | CA                  | 99.2    | None          |      |          |      |        |
| Kelp Greenling         WA         19.7         None           Leopard Shark         Coastwide         139.4         None           Lingcod         N of 40'10° N.         2,440.8         Amendment         45%         1,098.4         55%         1,3           Lingcod         S of 40'10° N. lat.         936.9         Amendment         45%         421.6         55%         51           Longsose skate         Coastwide         1,927.0         Biennial         90%         1,734.3         10%         19           Longspine         N of 34°27' N.         2,968.5         Amendment         95%         2,820.1         5%         14           Longspine         S of 34°27' N. lat.         949.0         None         None         95%         1,131.4         5%         59           Sablefish         N of 36° N. lat.         0.0         See Table 1 c         0.0         0.0         See Table 1 c         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0  | Kelp Greenling      | OR                  | 12.9    | None          |      |          |      |        |
| Lingcod         N of 40'10° N.         2,440.8         Amendment         45%         1,098.4         55%         1,3           Lingcod         S of 40'10° N. lat.         936.9         Amendment         45%         421.6         55%         51           Longnose skate         Coastwide         1,927.0         Biennial         90%         1,734.3         10%         19           Longspine         N of 34°27' N.         2,968.5         Amendment         95%         2,820.1         5%         14           Longspine         S of 34°27' N. lat.         949.0         None         None         1           Pacific cod         Coastwide         1,191.0         Amendment         95%         1,131.4         5%         59           Sablefish         N of 36° N. lat.         0.0         See Table 1 c         0         0         1,131.4         5%         59           Shortbelly         Coastwide         48.0         None         0  |                     | WA                  | 19.7    | None          |      |          |      |        |
| Lingcod         S of 40'10° N. lat.         936.9         Amendment         45%         421.6         55%         51           Longnose skate         Coastwide         1,927.0         Biennial         90%         1,734.3         10%         19           Longspine         N of 34°27' N.         2,968.5         Amendment         95%         2,820.1         5%         14           Longspine         S of 34°27' N. lat.         949.0         None         None         95%         1,131.4         5%         59           Sablefish         N of 36° N. lat.         0.0         See Table 1 c         0.0         0.0         See Table 1 c         0.0  | Leopard Shark       | Coastwide           | 139.4   | None          |      |          |      |        |
| Longnose skate         Coastwide         1,927.0         Biennial         90%         1,734.3         10%         19           Longspine         N of 34°27' N.         2,968.5         Amendment         95%         2,820.1         5%         14           Longspine         S of 34°27' N. lat.         949.0         None         None <td>Lingcod</td> <td>N of 40'10° N.</td> <td>2,440.8</td> <td>Amendment</td> <td>45%</td> <td>1,098.4</td> <td>55%</td> <td>1,342.</td>   | Lingcod             | N of 40'10° N.      | 2,440.8 | Amendment     | 45%  | 1,098.4  | 55%  | 1,342. |
| Longnose skate         Coastwide         1,927.0         Biennial         90%         1,734.3         10%         19           Longspine         N of 34°27' N.         2,968.5         Amendment         95%         2,820.1         5%         14           Longspine         S of 34°27' N. lat.         949.0         None         None         None         1,191.0         Amendment         95%         1,131.4         5%         5%           Sablefish         N of 36° N. lat.         0.0         See Table 1 c         5         58%         1,0           Sablefish         S of 36° N. lat.         1,875.0         Amendment         42%         787.5         58%         1,0           Shortbelly         Coastwide         48.0         None         0  |                     | S of 40'10° N. lat. | 936.9   | Amendment     | 45%  |          | 55%  | 515.3  |
| Longspine         S of 34°27' N. lat.         949.0         None         Pacific cod         Coastwide         1,191.0         Amendment         95%         1,131.4         5%         59           Sablefish         N of 36° N. lat.         0.0         See Table 1 c         0.0         See Table 1 c         0.0         See Table 1 c         0.0         0.0         See Table 1 c         0.0<   |                     | Coastwide           | 1,927.0 | Biennial      | 90%  | 1,734.3  | 10%  | 192.7  |
| Pacific cod         Coastwide         1,191.0         Amendment         95%         1,131.4         5%         59           Sablefish         N of 36° N. lat.         0.0         See Table 1 c         0.0         See Table 1 c         0.0         See Table 1 c         0.0         <   | Longspine           | N of 34°27' N.      | 2,968.5 | Amendment     | 95%  | 2,820.1  | 5%   | 148.4  |
| Sablefish         N of 36° N. lat.         0.0         See Table 1 c         See Table 1 c | Longspine           | S of 34°27' N. lat. | 949.0   | None          |      |          |      |        |
| Sablefish         S of 36° N. lat.         1,875.0         Amendment         42%         787.5         58%         1,0           Shortbelly         Coastwide         48.0         None         0           Shortspine         N of 34°27' N.         1,666.8         Amendment         95%         1,583.4         5%         85           Shortspine         S of 34°27' N. lat.         871.0         Amendment         NA         50.0         NA         82           Spiny Dogfish         Coastwide         1,722.2         None         1,648.7         5%         86           Splitnose         S of 40°10' N. lat.         1,735.5         Amendment         95%         1,648.7         5%         86  | Pacific cod         | Coastwide           | 1,191.0 | Amendment     | 95%  | 1,131.4  | 5%   | 59.5   |
| Shortbelly         Coastwide         48.0         None         0           Shortspine         N of 34°27' N.         1,666.8         Amendment         95%         1,583.4         5%         85           Shortspine         S of 34°27' N. lat.         871.0         Amendment         NA         50.0         NA         82           Spiny Dogfish         Coastwide         1,722.2         None         None         Sof 40°10' N. lat.         1,735.5         Amendment         95%         1,648.7         5%         86   | Sablefish           | N of 36° N. lat.    | 0.0     | See Table 1 c |      |          |      |        |
| Shortspine         N of 34°27' N.         1,666.8         Amendment         95%         1,583.4         5%         83           Shortspine         S of 34°27' N. lat.         871.0         Amendment         NA         50.0         NA         82           Spiny Dogfish         Coastwide         1,722.2         None         None         Sof 40°10' N. lat.         1,735.5         Amendment         95%         1,648.7         5%         86  | Sablefish           | S of 36° N. lat.    | 1,875.0 | Amendment     | 42%  | 787.5    | 58%  | 1,087. |
| Shortspine         S of 34°27' N. lat.         871.0         Amendment         NA         50.0         NA         82           Spiny Dogfish         Coastwide         1,722.2         None         Splitnose         S of 40°10' N. lat.         1,735.5         Amendment         95%         1,648.7         5%         86  | Shortbelly          | Coastwide           | 48.0    | None          |      |          |      | 0.0    |
| Spiny Dogfish         Coastwide         1,722.2         None           Splitnose         S of 40°10' N. lat.         1,735.5         Amendment         95%         1,648.7         5%         86   | Shortspine          | N of 34°27' N.      | 1,666.8 | Amendment     | 95%  | 1,583.4  | 5%   | 83.3   |
| Splitnose S of 40°10' N. lat. 1,735.5 Amendment 95% 1,648.7 5% 86  | Shortspine          | S of 34°27' N. lat. | 871.0   | Amendment     | NA   | 50.0     | NA   | 821.0  |
|  | Spiny Dogfish       | Coastwide           | 1,722.2 | None          |      |          |      |        |
|  | Splitnose           | S of 40°10' N. lat. | 1,735.5 | Amendment     | 95%  | 1,648.7  | 5%   | 86.8   |
| Starry flounder   Coastwide   1,528.7   Amendment   50%   764.4   50%   76   | Starry flounder     | Coastwide           | 1,528.7 | Amendment     | 50%  | 764.4    | 50%  | 764.4  |
| Widow Coastwide 1,419.8 Amendment 91% 1,292.0 9% 12  | Widow               | Coastwide           | 1,419.8 | Amendment     | 91%  | 1,292.0  | 9%   | 127.8  |
| Yellowtail N of 40°10' N. 9,927.4 Amendment 88% 8,736.1 12% 1,1  | Yellowtail          | N of 40°10' N.      | 9,927.4 | Amendment     | 88%  | 8,736.1  | 12%  | 1,191. |
| Nearshore rockfish N of 40°10′ N. 69.0 None  | Nearshore rockfish  | N of 40°10' N.      | 69.0    | None          |      |          |      |        |
| Nearshore rockfish S of 40°10' N. lat. 1,002.0 None  | Nearshore rockfish  | S of 40°10' N. lat. | 1,002.0 | None          |      |          |      |        |
| Other flatfish Coastwide 7,292.0 Amendment 90% 6,562.8 10% 72  | Other flatfish      | Coastwide           | 7,292.0 | Amendment     | 90%  | 6,562.8  | 10%  | 729.2  |
|  | Shelf rockfish N.   | N of 40°10' N.      |         | Biennial      | 60.2 | 1,131.5  | 39.8 | 748.1  |
|  |                     | S of 40°10' N. lat. |         | Biennial      |      |          |      | 1,384. |
|  |                     |                     |         |               |      |          |      | 307.6  |
|  |                     |                     | -       |               |      |          |      | 247.5  |

a/ The cowcod fishery harvest guideline is further reduced to an ACT of 4 mt.

Table 14. Alternative 3 – Preliminary Preferred Alternative. Sablefish north of  $36^{\circ}$  N. latitude ACLs, set-asides used to calculate the commercial harvest guideline (mt) for 2015-2016 under Alternative 3.

| Year | ACL   | Tribal<br>Share a/ | Res. | Rec | EFP | Non-<br>Tribal<br>Comm.<br>Share |
|------|-------|--------------------|------|-----|-----|----------------------------------|
| 2015 | 4,793 | 479                | 26   | 6.1 | 1   | 4,281                            |
| 2016 | 5,241 | 524                | 26   | 6.1 | 1   | 4,684                            |

a/ The sablefish allocation to Pacific coast treaty Indian Tribes is 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.

Table 15. Alternative 3 – Preliminary Preferred. At-sea whiting set-asides under the Preferred Alternative. The No Action set-aside values are provided for reference.

|                       | Alternative         |                       | No Action Set-<br>Asides |
|-----------------------|---------------------|-----------------------|--------------------------|
| Species               | Area                | Total Set-Asides (mt) | Total Set-Asides (mt)    |
| PETRALE SOLE          | Coastwide           | 5                     | 5                        |
| YELLOWEYE             | Coastwide           | 0                     | 0                        |
| Arrowtooth flounder   | Coastwide           | 45                    | 20                       |
| Dover sole            | Coastwide           | 5                     | 5                        |
| English sole          | Coastwide           | 5                     | 5                        |
| Lingcod               | N of 40°10' N. lat. | 15                    | 15                       |
| Longnose skate        | Coastwide           | 5                     | 5                        |
| Longspine thornyhead  | N of 34°27' N. lat. | 5                     | 5                        |
| Pacific cod           | Coastwide           | 5                     | 5                        |
| Pacific halibut a/    | Coastwide           | 10                    | 10                       |
| Sablefish             | N of 36° N. lat.    | 50                    | 50                       |
| Shortspine thornyhead | N of 34°27' N. lat. | 20                    | 20                       |
| Starry flounder       | Coastwide           | 5                     | 5                        |
| Yellowtail            | N of 40°10' N. lat. | 300                   | 300                      |
| Shelf rockfish north  | N of 40°10' N. lat. | 35                    | 35                       |
| Slope rockfish north  | N of 40°10' N. lat. | 100                   | 100                      |
| Other Fish b/         | Coastwide           | TBD                   | 520                      |
| Spiny Dogfish         | Coastwide           | TBD                   | N/A                      |
| Other flatfish        | Coastwide           | 20                    | 20                       |

a/As stated in §660.55 (m), the Pacific halibut set-aside is 10 mt, to accommodate bycatch in the at-sea Pacific whiting fisheries and in the shorebased trawl sector south of 40°10 N. latitude (estimated to 5 mt each). b/ In 2014, spiny dogfish was managed as part of the Other Fish complex. Under the Preferred Alternative, starting in 2015-2016, spiny dogfish will be managed separately.

Table 16. Preliminary preferred set-asides and allocations for overfished species.

|                  | Boca  | ccio  | Can   | ary   | Cow   | cod   | Darkbl | otched | PC    | )P    | Pet     | rale    | Yello | weye |
|------------------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|---------|---------|-------|------|
|                  | 2015  | 2016  | 2015  | 2016  | 2015  | 2016  | 2015   | 2016   | 2015  | 2016  | 2015    | 2016    | 2015  | 2016 |
| ACL              | 349   | 362   | 122   | 125   | 10    | 10    | 338    | 346    | 158   | 164   | 2,816   | 2,910   | 18    | 19   |
| Set-Asides Total | 8.3   | 8.3   | 15.2  | 15.2  | 2.0   | 2.0   | 20.8   | 20.8   | 15.0  | 15.0  | 236.6   | 236.6   | 5.83  | 5.83 |
| Tribal           |       |       | 7.7   | 7.7   | 0     | 0     | 0.2    | 0.2    | 9.2   | 9.2   | 220     | 220     | 2.3   | 2.3  |
| EFP              | 3     | 3     | 1     | 1     | 0.015 | 0.015 | 0.1    | 0.1    |       |       |         |         | 0.03  | 0.03 |
| Research         | 4.6   | 4.6   | 4.5   | 4.5   | 2     | 2     | 2.1    | 2.1    | 5.2   | 5.2   | 14.2    | 14.2    | 3.3   | 3.3  |
| Open Access      | 0.7   | 0.7   | 2     | 2     | 0     | 0     | 18.4   | 18.4   | 0.6   | 0.6   | 2.4     | 2.4     | 0.2   | 0.2  |
| Fishery HG       | 340.7 | 353.7 | 106.8 | 109.8 | 4.0   | 4.0   | 317.2  | 325.2  | 143.0 | 149.0 | 2,579.4 | 2,673.4 | 12.2  | 13.2 |
| Trawl Total      | 81.9  | 85.0  | 56.9  | 58.5  | 1.4   | 1.4   | 301.3  | 308.9  | 135.9 | 141.6 | 2,544.4 | 2,638.4 | 1.0   | 1.1  |
| Shorebased IFQ   | 81.9  | 85.0  | 43.3  | 44.5  | 1.4   | 1.4   | 285.6  | 293.0  | 118.5 | 124.0 | 2,539.4 | 2,633.4 | 1.0   | 1.1  |
| At-Sea Whiting   | 0.0   |       | 13.7  | 14.0  |       |       | 15.7   | 16.1   | 17.4  | 17.4  | 5       | 5       |       |      |
| C-P              | 0.0   |       | 8.0   | 8.2   |       |       | 9.2    | 9.5    | 10.2  | 10.2  |         |         |       |      |
| Mothership       | 0.0   |       | 5.6   | 5.8   |       |       | 6.5    | 6.7    | 7.2   | 7.2   |         |         |       |      |
| Non-Trawl Total  | 258.8 | 268.7 | 49.9  | 51.3  | 2.6   | 2.6   | 15.9   | 16.3   | 7.2   | 7.5   | 35.0    | 35.0    | 11.2  | 12.1 |
| Non-Nearshore    | 79.1  | 82.1  | 3.8   | 3.9   |       |       |        |        |       |       |         |         | 1.1   | 1.2  |
| Nearshore FG     | 1.0   | 1.0   | 6.7   | 6.9   |       |       |        |        |       |       |         |         | 1.2   | 1.3  |
| WA Rec a/        | 0.0   | 0.0   | 3.4   | 3.5   |       |       |        |        |       |       |         |         | 2.9   | 3.1  |
| OR Rec a/        | 0.0   | 0.0   | 11.7  | 12.0  |       |       |        |        |       |       |         |         | 2.6   | 2.8  |
| CA Rec           | 178.8 | 185.6 | 24.3  | 25.0  |       |       |        |        |       |       |         |         | 3.4   | 3.7  |

a/ Values represent HGs which may be adjusted within the non-trawl allocation.

Table 17. Alternative 3 – Shorebased IFQ. IFQ species and Pacific halibut allocations or set-asides under Alternative 3 for 2015 and 2016. No action allocations are provided in the right panel.

| IFQ Species            | Area                    | Alt 3-<br>2015<br>SB IFQ<br>Allocation (mt)<br>a/b/ | Alt 3-<br>2016<br>SB IFQ<br>Allocation (mt)<br>a/b/ | No Action –<br>2014<br>SB IFQ<br>Allocation (mt) |
|------------------------|-------------------------|---|---|--|
| BOCACCIO               | South of 40°10' N. lat. | 81.9  | 85.0  | 79.0   |
| CANARY                 | Coastwide               | 43.3  | 44.5  | 41.1   |
| COWCOD                 | South of 40°10' N. lat. | 1.4   | 1.4   | 1.0  |
| DARKBLOTCHED           | Coastwide               | 285.6   | 292.8   | 278.4  |
| PETRALE                | Coastwide               | 2,539.4   | 2,633.4   | 2,378.0  |
| POP                    | North of 40°10' N. lat. | 118.5   | 124.2   | 112.3  |
| YELLOWEYE              | Coastwide               | 1.0   | 1.1   | 1.0  |
| Arrowtooth flounder    | Coastwide               | 3,194   | 3,033   | 3,467  |
| Chilipepper rockfish   | South of 40°10' N. lat. | 1,203   | 1,196   | 1,067  |
| Dover sole             | Coastwide               | 22,231  | 22,231  | 22,235   |
| English sole           | Coastwide               | 10,384  | 7,263   | 5,261  |
| Lingcod                | North of 40°10' N. lat. | 1,133   | 1,083   | 1,152  |
| Lingcod                | South of 40°10' N. lat. | 448   | 422   | 473  |
| Longspine thornyheads  | North of 34°27' N. lat  | 2,962   | 2,815   | 1,811  |
| Pacific cod            | Coastwide               | 1,126   | 1,126   | 1,126  |
| Pacific halibut a/     | North of 40°10' N. lat. | 45 max  | 45 max  | 60 max   |
| Pacific halibut b/     | South of 40°10' N. lat. | 10  | 10  | 10   |
| Sablefish              | North of 36° N. lat.    | 2,199   | 2,411   | 1,988  |
| Sablefish              | South of 36° N. lat.    | 720   | 788   | 653  |
| Shortspine thornyheads | North of 34°27' N.      | 1,581   | 1,563   | 1,372  |
| Shortspine thornyheads | South of 34°27' N       | 50  | 50  | 50   |
| Splitnose rockfish     | South of 40°10' N. lat. | 1,619   | 1,649   | 1,575  |
| Starry flounder        | Coastwide               | 757   | 759   | 756  |
| Widow rockfish         | Coastwide               | 1,002   | 1,002   | 994  |
| Yellowtail rockfish    | North of 40°10' N. lat. | 8,946   | 8,436   | 2,939  |
| Shelf rockfish         | North of 40°10' N. lat. | 1,091   | 1,097   | 508  |
| Shelf rockfish         | South of 40°10' N. lat. | 192   | 192   | 81   |
| Slope rockfish         | North of 40°10' N. lat. | 1,200   | 1,211   | 789  |
| Slope rockfish         | South of 40°10' N. lat. | 427   | 428   | 379  |
| Other flatfish         | Coastwide               | 7,554   | 6,543   | 4,190  |

a/ Pacific halibut is managed using IBQ, see regulations at §660.140. Starting in 2015, the maximum IBQ allocation of legal sized fish is 45 mt, see (§660.55 (m)).

b/ As stated in regulations (§660.55 (m)), a Pacific halibut set-aside of 10 mt, to accommodate bycatch in the at-sea Pacific whiting fisheries and in the shorebased trawl sector south of 40°10 N. latitude. (estimated to be 5 mt each).