Table 1. Percentage of primary tier-limit sablefish catch landed by sablefish-endorsed fixed-gear vessels during 2001-2003 that was observed by the West Coast Groundfish Observer Program.

<table>
<thead>
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<th>Year (based on fishtickets)</th>
<th>Port Group</th>
<th>Hook and line</th>
<th>Pot</th>
<th>Total</th>
<th>Hook and line</th>
<th>Pot</th>
<th>Total</th>
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<td>Observed</td>
<td>Total</td>
<td>Not observed</td>
<td>Observed</td>
<td>Total</td>
</tr>
<tr>
<td></td>
<td>metric tons</td>
<td>% of gear</td>
<td>metric tons</td>
<td>% of gear</td>
<td>metric tons</td>
<td>% of gear</td>
<td>metric tons</td>
</tr>
<tr>
<td>2001</td>
<td>Puget Sound</td>
<td>209</td>
<td>86%</td>
<td>35</td>
<td>14%</td>
<td>244</td>
<td>100%</td>
</tr>
<tr>
<td></td>
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<td>100%</td>
<td></td>
<td></td>
<td>111</td>
<td></td>
</tr>
<tr>
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<td>5</td>
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<td>244</td>
<td>100%</td>
</tr>
<tr>
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</tr>
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<td>74</td>
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</tr>
<tr>
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</tr>
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</tr>
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</tr>
<tr>
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<td>75%</td>
<td>188</td>
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</tr>
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Table 2. Percentage of the catch of all groundfish (excluding shark and skate) landed by sablefish-endorsed fixed-gear vessels on tier-limit trips during the primary sablefish seasons in 2001-2003 that was observed by the West Coast Groundfish Observer Program.

<table>
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<th>Port Group (based on fishtickets)</th>
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<th></th>
<th>Pot</th>
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<td>Total</td>
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<td>metric tons</td>
<td>% of gear total</td>
<td>metric tons</td>
<td>% of gear total</td>
</tr>
<tr>
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<td><strong>Neah Bay</strong></td>
<td><strong>Astoria</strong></td>
<td><strong>Newport</strong></td>
<td><strong>Coos Bay</strong></td>
<td><strong>Crescent City</strong></td>
</tr>
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<td>5%</td>
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<td></td>
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<td></td>
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<td>100%</td>
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<td>7</td>
</tr>
<tr>
<td></td>
<td>716</td>
<td>81%</td>
<td>173</td>
<td>19%</td>
<td>890</td>
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</table>
Table 3. Number of observed limited entry, fixed-gear primary sablefish fishery trips, by calendar year, port group, and gear.

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<th></th>
<th>Pot</th>
<th></th>
<th>All gears</th>
<th></th>
</tr>
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<tr>
<td></td>
<td>Number of trips</td>
<td>% of coastwide</td>
<td>Number of trips</td>
<td>% of coastwide</td>
<td>Number of trips</td>
<td>% of coastwide</td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Puget Sound</td>
<td>3</td>
<td>30%</td>
<td>-</td>
<td>-</td>
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<td>17%</td>
</tr>
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<td>44%</td>
<td>8</td>
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<tr>
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<td>70%</td>
<td>-</td>
<td>-</td>
<td>7</td>
<td>39%</td>
</tr>
<tr>
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<td>100%</td>
<td>8</td>
<td>100%</td>
<td>18</td>
<td>100%</td>
</tr>
<tr>
<td>2002</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
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<td>10%</td>
<td>-</td>
<td>-</td>
<td>6</td>
<td>8%</td>
</tr>
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<td>22%</td>
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<td>-</td>
<td>13</td>
<td>16%</td>
</tr>
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<td>3</td>
<td>14%</td>
<td>6</td>
<td>8%</td>
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<td>3%</td>
<td>3</td>
<td>14%</td>
<td>5</td>
<td>6%</td>
</tr>
<tr>
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<td>17%</td>
<td>2</td>
<td>9%</td>
<td>12</td>
<td>15%</td>
</tr>
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<td>28%</td>
<td>14</td>
<td>64%</td>
<td>30</td>
<td>38%</td>
</tr>
<tr>
<td>Eureka</td>
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<td>10%</td>
<td>-</td>
<td>-</td>
<td>6</td>
<td>8%</td>
</tr>
<tr>
<td>Fort Bragg</td>
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<td>3%</td>
<td>-</td>
<td>-</td>
<td>2</td>
<td>3%</td>
</tr>
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<td>100%</td>
<td>22</td>
<td>100%</td>
<td>80</td>
<td>100%</td>
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<td>8%</td>
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<td>13%</td>
</tr>
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<td>-</td>
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<td>12%</td>
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<td>4%</td>
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<td>-</td>
<td>-</td>
<td>5</td>
<td>7%</td>
</tr>
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<td>4</td>
<td>10%</td>
<td>-</td>
<td>-</td>
<td>4</td>
<td>6%</td>
</tr>
<tr>
<td>All ports</td>
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<td>100%</td>
<td>26</td>
<td>100%</td>
<td>67</td>
<td>100%</td>
</tr>
</tbody>
</table>

Note: Port assignments based on the observed port where off-loading occurred.
Table 4. Number of observed limited entry, fixed-gear primary sablefish fishery sets, by calendar year, depth strata, and gear.

| Depth * | Hook and line | | Pot | | All gears | |
|---------|--------------|----------------|----------------|----------------|
|         | Number of sets | % by depth strata | Number of sets | % by depth strata | Number of sets | % by depth strata |
| 2001    |               |                  |               |                  |                |                |
| Deep    | 80            | 99               | 27            | 40               | 107            | 72             |
| Shallow | 1             | 1                | 41            | 60               | 42             | 28             |
| All Depths | 81          | 100             | 68            | 100              | 149            | 100            |
| 2002    |               |                  |               |                  |                |                |
| Deep    | 290           | 83               | 239           | 99               | 529            | 90             |
| Shallow | 58            | 17               | 2             | 1                | 60             | 10             |
| All Depths | 348        | 100             | 241           | 100              | 589            | 100            |
| 2003    |               |                  |               |                  |                |                |
| Deep    | 311           | 97               | 279           | 100              | 590            | 98             |
| Shallow | 11            | 3                | 11            | 1                | 61             | 2              |
| All Depths | 322        | 100             | 279           | 100              | 601            | 100            |

* The depths used to partition sets into deep and shallow strata were 100 fm north of 40°10’ N. lat., and 150 fm south of 40°10’ N. lat.
<table>
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<th>Species</th>
<th>Hook and line</th>
<th>Pot</th>
</tr>
</thead>
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<td>% of pounds total</td>
</tr>
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</tr>
<tr>
<td>discarded</td>
<td>Observed</td>
<td>76 100%</td>
</tr>
<tr>
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</tr>
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<td>total</td>
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<tr>
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<td>Observed</td>
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<tr>
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</tr>
<tr>
<td>discarded</td>
<td>Observed</td>
<td>44 16%</td>
</tr>
<tr>
<td>retained</td>
<td>None</td>
<td>1 100%</td>
</tr>
<tr>
<td>total</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Pacific ocean perch</td>
<td>None</td>
<td>166 100%</td>
</tr>
<tr>
<td>discarded</td>
<td>Observed</td>
<td>4 13%</td>
</tr>
<tr>
<td>retained</td>
<td>None</td>
<td>2 100%</td>
</tr>
<tr>
<td>total</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Lingcod</td>
<td>None</td>
<td>60 52%</td>
</tr>
<tr>
<td>discarded</td>
<td>Observed</td>
<td>687 29%</td>
</tr>
<tr>
<td>retained</td>
<td>None</td>
<td>1,075 29%</td>
</tr>
<tr>
<td>total</td>
<td>None</td>
<td>2,331 100%</td>
</tr>
<tr>
<td>Sablefish</td>
<td>None</td>
<td>15,064 7%</td>
</tr>
<tr>
<td>discarded</td>
<td>Observed</td>
<td>81,152 17%</td>
</tr>
<tr>
<td>retained</td>
<td>None</td>
<td>67,640 13%</td>
</tr>
<tr>
<td>total</td>
<td>None</td>
<td>201,041 100%</td>
</tr>
<tr>
<td>Pacific hake</td>
<td>None</td>
<td>106 100%</td>
</tr>
<tr>
<td>discarded</td>
<td>Observed</td>
<td>139 92%</td>
</tr>
<tr>
<td>retained</td>
<td>None</td>
<td>2 100%</td>
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<tr>
<td>total</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Roundfish other than lingcod, sablefish and hake</td>
<td>None</td>
<td>575 100%</td>
</tr>
<tr>
<td>discarded</td>
<td>Observed</td>
<td>658 33%</td>
</tr>
<tr>
<td>retained</td>
<td>None</td>
<td>1 5%</td>
</tr>
<tr>
<td>total</td>
<td>None</td>
<td>None</td>
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</table>
### Table 5 (cont.). Discard rates for species taken in the limited entry, fixed-gear primary sablefish fishery, by gear and calendar year.

<table>
<thead>
<tr>
<th>Species</th>
<th>Hook and line</th>
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<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>% of pounds</td>
<td>% of pounds</td>
<td>% of pounds</td>
<td>% of pounds</td>
<td>% of pounds</td>
<td>% of pounds</td>
</tr>
<tr>
<td>Dover sole</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>discarded</td>
<td>18 100%</td>
<td>2,549 98%</td>
<td>772 93%</td>
<td>57 88%</td>
<td>457 63%</td>
<td>202 27%</td>
</tr>
<tr>
<td>retained</td>
<td>64 2%</td>
<td>60 7%</td>
<td>8 12%</td>
<td>274 37%</td>
<td>538 73%</td>
<td></td>
</tr>
<tr>
<td>total</td>
<td>18 100%</td>
<td>2,613 100%</td>
<td>832 100%</td>
<td>65 100%</td>
<td>731 100%</td>
<td>741 100%</td>
</tr>
<tr>
<td>Arrowtooth flounder</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>discarded</td>
<td>4,394 100%</td>
<td>9,767 64%</td>
<td>10,195 64%</td>
<td>49 100%</td>
<td>142 49%</td>
<td>809 90%</td>
</tr>
<tr>
<td>retained</td>
<td>10 0%</td>
<td>5,414 36%</td>
<td>5,612 36%</td>
<td>.</td>
<td>148 51%</td>
<td>94 10%</td>
</tr>
<tr>
<td>total</td>
<td>4,404 100%</td>
<td>15,181 100%</td>
<td>15,807 100%</td>
<td>49 100%</td>
<td>290 100%</td>
<td>903 100%</td>
</tr>
<tr>
<td>Petrale sole</td>
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<td>discarded</td>
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<td>37 4%</td>
<td>28 13%</td>
<td>2 100%</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>retained</td>
<td>Observerved</td>
<td>896 96%</td>
<td>181 87%</td>
<td>1 100%</td>
<td>Observerved</td>
<td>Observerved</td>
</tr>
<tr>
<td>total</td>
<td>None</td>
<td>933 100%</td>
<td>209 100%</td>
<td>2 100%</td>
<td>Observerved</td>
<td>Observerved</td>
</tr>
<tr>
<td>Other flatfish</td>
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</tr>
<tr>
<td>retained</td>
<td>None</td>
<td>402 100%</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>total</td>
<td>402 100%</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Longspine thornyhead</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>discarded</td>
<td>None</td>
<td>0 0%</td>
<td>None</td>
<td>None</td>
<td>0 32%</td>
<td>3 70%</td>
</tr>
<tr>
<td>retained</td>
<td>Observerved</td>
<td>110 100%</td>
<td>None</td>
<td>1 68%</td>
<td>2 30%</td>
<td>1 100%</td>
</tr>
<tr>
<td>total</td>
<td>None</td>
<td>111 100%</td>
<td>None</td>
<td>1 100%</td>
<td>5 100%</td>
<td></td>
</tr>
<tr>
<td>Shortspine thornyhead</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>discarded</td>
<td>982 28%</td>
<td>72 5%</td>
<td>121 7%</td>
<td>7 100%</td>
<td>8 16%</td>
<td>24 5%</td>
</tr>
<tr>
<td>retained</td>
<td>2,507 72%</td>
<td>1,515 95%</td>
<td>1,593 93%</td>
<td>41 84%</td>
<td>499 95%</td>
<td></td>
</tr>
<tr>
<td>total</td>
<td>3,489 100%</td>
<td>1,587 100%</td>
<td>1,714 100%</td>
<td>7 100%</td>
<td>523 100%</td>
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<tr>
<td>Mixed thornyheads</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>discarded</td>
<td>190 29%</td>
<td>10 6%</td>
<td>2 3%</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>retained</td>
<td>473 71%</td>
<td>153 94%</td>
<td>56 97%</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>total</td>
<td>664 100%</td>
<td>163 100%</td>
<td>58 100%</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Yellowtail rockfish</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>discarded</td>
<td>None</td>
<td>83 32%</td>
<td>47 13%</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>retained</td>
<td>Observerved</td>
<td>180 68%</td>
<td>320 87%</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>total</td>
<td>263 100%</td>
<td>367 100%</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Shelf rockfish other than those listed individually</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>discarded</td>
<td>17 48%</td>
<td>1,150 56%</td>
<td>727 32%</td>
<td>6 74%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>retained</td>
<td>19 52%</td>
<td>914 44%</td>
<td>1,562 68%</td>
<td>2 26%</td>
<td>33 100%</td>
<td>48 100%</td>
</tr>
<tr>
<td>total</td>
<td>36 100%</td>
<td>2,063 100%</td>
<td>2,289 100%</td>
<td>8 100%</td>
<td>33 100%</td>
<td>48 100%</td>
</tr>
<tr>
<td>Slope rockfish other than darkblotched and POP</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>discarded</td>
<td>32 3%</td>
<td>1,143 15%</td>
<td>1,830 12%</td>
<td>50 74%</td>
<td>8 1%</td>
<td></td>
</tr>
<tr>
<td>retained</td>
<td>1,186 97%</td>
<td>6,272 85%</td>
<td>13,756 88%</td>
<td>18 26%</td>
<td>583 99%</td>
<td>901 100%</td>
</tr>
<tr>
<td>total</td>
<td>1,220 100%</td>
<td>7,414 100%</td>
<td>15,586 100%</td>
<td>68 100%</td>
<td>591 100%</td>
<td>901 100%</td>
</tr>
</tbody>
</table>
Table 5 (cont.). Discard rates for species taken in the limited entry, fixed-gear primary sablefish fishery, by gear and calendar year.

<table>
<thead>
<tr>
<th></th>
<th>Hook and line</th>
<th></th>
<th></th>
<th>Pot</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2001 % of</td>
<td>2002 % of</td>
<td>2003 % of</td>
<td>2001 % of</td>
<td>2002 % of</td>
<td>2003 % of</td>
</tr>
<tr>
<td></td>
<td>pounds total</td>
<td>pounds total</td>
<td>pounds total</td>
<td>pounds total</td>
<td>pounds total</td>
<td>pounds total</td>
</tr>
<tr>
<td>Black rockfish</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>retained total</td>
<td>None observed</td>
<td>177 100%</td>
<td>None observed</td>
<td>None observed</td>
<td>None observed</td>
<td>None observed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>177 100%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nearshore rockfish other than black</td>
<td>None observed</td>
<td>1 100%</td>
<td>None observed</td>
<td>None observed</td>
<td>None observed</td>
<td>None observed</td>
</tr>
<tr>
<td>retained total</td>
<td></td>
<td>1 100%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>None observed</td>
<td>11 100%</td>
<td>None observed</td>
<td>None observed</td>
<td>None observed</td>
<td>None observed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11 100%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pacific Halibut</td>
<td>15,299 91%</td>
<td>68,922 81%</td>
<td>101,188 84%</td>
<td>2,028 100%</td>
<td>2,081 100%</td>
<td>163 100%</td>
</tr>
<tr>
<td>discarded total</td>
<td>1,543 9%</td>
<td>16,197 19%</td>
<td>19,247 16%</td>
<td>2,028 100%</td>
<td>2,081 100%</td>
<td>163 100%</td>
</tr>
<tr>
<td></td>
<td>16,842 100%</td>
<td>85,119 100%</td>
<td>120,435 100%</td>
<td>2,028 100%</td>
<td>2,081 100%</td>
<td>163 100%</td>
</tr>
<tr>
<td></td>
<td>None observed</td>
<td>None observed</td>
<td>8 100%</td>
<td>None observed</td>
<td>None observed</td>
<td>None observed</td>
</tr>
<tr>
<td>Salmon</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>discarded total</td>
<td>None observed</td>
<td>None observed</td>
<td>8 100%</td>
<td>None observed</td>
<td>None observed</td>
<td>None observed</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Table 6. Bycatch ratios of sablefish and 8 overfished species in the limited entry, fixed-gear primary sablefish fishery, by gear, year, and depth strata.

<table>
<thead>
<tr>
<th>Species</th>
<th>Depth strata</th>
<th>Hook and line</th>
<th>Pot</th>
<th>All years</th>
<th>Hook and line</th>
<th>Pot</th>
<th>All years</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>2001</td>
<td>2002</td>
<td>2003</td>
<td>All years</td>
<td>2001</td>
<td>2002</td>
</tr>
<tr>
<td>Sablefish</td>
<td>deep</td>
<td>no. of observed sets</td>
<td>80</td>
<td>290</td>
<td>311</td>
<td>681</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td></td>
<td>bycatch ratio</td>
<td>108.4%</td>
<td>120.4%</td>
<td>115.2%</td>
<td>115.7%</td>
<td>102.6%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>std. err. of bycatch ratio</td>
<td>0.0969</td>
<td>0.0816</td>
<td>0.0780</td>
<td>0.0511</td>
<td>0.1762</td>
</tr>
<tr>
<td></td>
<td>shallow</td>
<td>no. of observed sets</td>
<td>1</td>
<td>290</td>
<td>172</td>
<td>41</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>bycatch ratio</td>
<td>1100%</td>
<td>125.4%</td>
<td>106.4%</td>
<td>119.3%</td>
<td>107.7%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>std. err. of bycatch ratio</td>
<td>0.0280</td>
<td>0.1906</td>
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<td>0.2521</td>
<td>0.2524</td>
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<td>deep</td>
<td>no. of observed sets</td>
<td>80</td>
<td>290</td>
<td>311</td>
<td>681</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td></td>
<td>bycatch ratio</td>
<td>0.000%</td>
<td>0.003%</td>
<td>0.017%</td>
<td>0.009%</td>
<td>0.000%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>std. err. of bycatch ratio</td>
<td>0.0969</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.1762</td>
</tr>
<tr>
<td>Canary rockfish</td>
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<td>no. of observed sets</td>
<td>80</td>
<td>290</td>
<td>311</td>
<td>681</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td></td>
<td>bycatch ratio</td>
<td>0.000%</td>
<td>1.487%</td>
<td>0.908%</td>
<td>1.243%</td>
<td>0.007%</td>
</tr>
<tr>
<td>Cowcod rockfish</td>
<td>deep</td>
<td>no. of observed sets</td>
<td>80</td>
<td>290</td>
<td>311</td>
<td>681</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td></td>
<td>bycatch ratio</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
</tr>
<tr>
<td>Widower rockfish</td>
<td>deep</td>
<td>no. of observed sets</td>
<td>80</td>
<td>290</td>
<td>311</td>
<td>681</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td></td>
<td>bycatch ratio</td>
<td>0.000%</td>
<td>0.015%</td>
<td>0.000%</td>
<td>0.011%</td>
<td>0.000%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>std. err. of bycatch ratio</td>
<td>0.0002</td>
<td>0.0075</td>
<td>0.0001</td>
<td>0.0001</td>
<td>0.0001</td>
</tr>
</tbody>
</table>

1 The depths used to partition sets into deep and shallow strata were 100 fm north of 40° 10' N. lat., and 150 fm south of 40° 10' N. lat.
2 Bycatch ratios are calculated as total pounds caught of each species divided by the retained sablefish poundage.
Table 6 (cont.). Bycatch ratios of sablefish and 8 overfished species in the limited entry, fixed-gear primary sablefish fishery, by gear, year, and depth strata.

<table>
<thead>
<tr>
<th>Species</th>
<th>Depth strata</th>
<th>Hook and line</th>
<th></th>
<th>Pot</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>2001</td>
<td>2002</td>
<td>2003</td>
<td>All years</td>
</tr>
<tr>
<td>Yelloweye rockfish</td>
<td>deep</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>no. of observed sets</td>
<td>80</td>
<td>290</td>
<td>311</td>
<td>681</td>
</tr>
<tr>
<td></td>
<td>bycatch ratio</td>
<td>0.0%</td>
<td>0.1%</td>
<td>0.1%</td>
<td>0.1%</td>
</tr>
<tr>
<td></td>
<td>std. err. of bycatch ratio</td>
<td>0.0001</td>
<td>0.0002</td>
<td>0.0003</td>
<td>0.0001</td>
</tr>
<tr>
<td></td>
<td>shallow</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>no. of observed sets</td>
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<td>58</td>
<td>11</td>
<td>70</td>
</tr>
<tr>
<td></td>
<td>bycatch ratio</td>
<td>0.0%</td>
<td>1.7%</td>
<td>0.5%</td>
<td>1.3%</td>
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<tr>
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<td>0.0048</td>
<td>0.0042</td>
<td>0.0001</td>
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<td>0.647%</td>
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1 The depths used to partition sets into deep and shallow strata were 100 fm north of 40°10’ N. lat., and 150 fm south of 40°10’ N. lat.

2 Bycatch ratios are calculated as total pounds caught of each species divided by the retained sablefish poundage.
Table 7. Three measures of discard, and associated standard errors, for selected species in the limited entry, fixed-gear primary sablefish fishery, by gear, year, and depth strata.

<table>
<thead>
<tr>
<th>Species</th>
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<th>Hook and line</th>
<th>Pot</th>
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<tr>
<td>number of observed sets</td>
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<td>290</td>
<td>311</td>
</tr>
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<td>0.0%</td>
<td>11.4%</td>
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<td></td>
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<td>0.000</td>
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<td>std. err. of discard lb/effort</td>
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<td>discarded lb per retained sablefish lb</td>
<td>0.003%</td>
<td>0.000%</td>
<td>0.001%</td>
</tr>
<tr>
<td>std. err. of discard lb/sablefish lb</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>shallow</td>
<td>1</td>
<td>58</td>
<td>11</td>
</tr>
<tr>
<td>species discard percentage</td>
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<td>16.4%</td>
<td>84.9%</td>
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<td>0.1352</td>
<td>0.4238</td>
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<td>Not observed</td>
<td>1.126</td>
<td>0.100</td>
</tr>
<tr>
<td>std. err. of discard lb/effort</td>
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<td>0.0674</td>
<td>0.3627</td>
</tr>
<tr>
<td>discarded lb per retained sablefish lb</td>
<td>1.448%</td>
<td>0.149%</td>
<td>1.055%</td>
</tr>
<tr>
<td>std. err. of discard lb/sablefish lb</td>
<td>0.0064</td>
<td>0.0008</td>
<td>0.0046</td>
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Canary rockfish

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<tr>
<td></td>
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<td>0.0001</td>
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<tr>
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<td>11</td>
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<tr>
<td>species discard percentage</td>
<td>97.4%</td>
<td>16.4%</td>
<td>84.9%</td>
</tr>
<tr>
<td>std. err. of species discard %</td>
<td>0.5513</td>
<td>0.1352</td>
<td>0.4238</td>
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<tr>
<td>discarded lb per unit of effort</td>
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<td>0.100</td>
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<td>std. err. of discard lb/effort</td>
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<td>0.0674</td>
<td>0.3627</td>
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<td>discarded lb per retained sablefish lb</td>
<td>1.448%</td>
<td>0.149%</td>
<td>1.055%</td>
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<td>std. err. of discard lb/sablefish lb</td>
<td>0.0064</td>
<td>0.0008</td>
<td>0.0046</td>
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</table>

The depths used to partition sets into deep and shallow strata were 100 fm north of 40°10' N. lat., and 150 fm south of 40°10' N. lat.

The unit of effort is calculated as (set hours) times (number of hooks) divided by 1,000. Thus, the values shown are 1,000 times larger than would result from dividing discarded pounds by [(set hours) times (number of hooks)].
Table 7 (cont.). Three measures of discard, and associated standard errors, for selected species in the limited entry, fixed-gear primary sablefish fishery, by gear, year, and depth strata.

<table>
<thead>
<tr>
<th>Species</th>
<th>Depth strata</th>
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<td>species discard percentage</td>
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<td>std. err. of species discard %</td>
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<td>discarded lb per unit of effort 2</td>
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</tr>
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<td>std. err. of discard lb/effect</td>
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<td>discarded lb per retained sablefish lb</td>
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<td>std. err. of discard lb/sablefish lb</td>
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<td>number of observed sets</td>
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<td>std. err. of species discard %</td>
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<td>discarded lb per unit of effort 2</td>
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<td>std. err. of discard lb/effect</td>
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<td>discarded lb per retained sablefish lb</td>
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<td>std. err. of discard lb/sablefish lb</td>
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<td>std. err. of discard lb/sablefish lb</td>
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</table>

1 The depths used to partition sets into deep and shallow strata were 100 fm north of 40°10' N. lat., and 150 fm south of 40°10' N. lat.

2 The unit of effort is calculated as (set hours) times (number of hooks) divided by 1,000. Thus, the values shown are 1,000 times larger than would result from dividing discarded pounds by [(set hours) times (number of hooks)].
Table 7 (cont.). Three measures of discard, and associated standard errors, for selected species in the limited entry, fixed-gear primary sablefish fishery, by gear, year, and depth strata.

<table>
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<table>
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<th>Species</th>
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<td>Pacific ocean perch</td>
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<td>681</td>
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The depths used to partition sets into deep and shallow strata were 100 fm north of 40°10' N. lat., and 150 fm south of 40°10' N. lat.

The unit of effort is calculated as (set hours) times (number of hooks) divided by 1,000. Thus, the values shown are 1,000 times larger than would result from dividing discarded pounds by [(set hours) times (number of hooks)].
Table 7 (cont.). Three measures of discard, and associated standard errors, for selected species in the limited entry, fixed-gear primary sablefish fishery, by gear, year, and depth strata.

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*The depths used to partition sets into deep and shallow strata were 100 fm north of 40°10' N. lat., and 150 fm south of 40°10' N. lat. *

2 The unit of effort is calculated as (set hours) times (number of hooks) divided by 1,000. Thus, the values shown are 1,000 times larger than would result from dividing discarded pounds by [(set hours) times (number of hooks)].
Table 7 (cont.). Three measures of discard, and associated standard errors, for selected species in the limited entry, fixed-gear primary sablefish fishery, by gear, year, and depth strata.

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<td>std. err. of discard lb/effort</td>
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<tr>
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<td>0.019%</td>
<td>0.013%</td>
<td>0.139%</td>
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<tr>
<td></td>
<td>discarded lb per retained sablefish lb</td>
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</table>

1 The depths used to partition sets into deep and shallow strata were 100 fm north of 40°10’ N. lat., and 150 fm south of 40°10’ N. lat.
2 The unit of effort is calculated as (set hours) times (number of hooks) divided by 1,000. Thus, the values shown are 1,000 times larger than would result from dividing discarded pounds by [(set hours) times (number of hooks)].
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<table>
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<tr>
<th>Species</th>
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<td>std. err. of discard lb/sablefish lb</td>
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The depths used to partition sets into deep and shallow strata were 100 fm north of 40°10' N. lat., and 150 fm south of 40°10' N. lat.

The unit of effort is calculated as (set hours) times (number of hooks) divided by 1,000. Thus, the values shown are 1,000 times larger than would result from dividing discarded pounds by [(set hours) times (number of hooks)].
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<thead>
<tr>
<th>Species</th>
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<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
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<td>std. err. of discard lb/sablefish lb</td>
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<td>0.4%</td>
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<td>0.000</td>
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<td>std. err. of discard lb/effort</td>
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</table>

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<table>
<thead>
<tr>
<th>Species</th>
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<th>Pot</th>
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<td>2001 2002 2003 All years</td>
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<td>std. err. of discarded lb/effort Not observed</td>
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<td>discarded lb per retained sablefish lb Not observed</td>
<td>Not observed</td>
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<td>species discard percentage 28.7% 6.2% 2.7% 22.8%</td>
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<td>std. err. of species discard % Not observed</td>
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<td>discarded lb per retained sablefish lb Not observed</td>
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<td></td>
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<td>std. err. of discarded lb/sablefish lb Not observed</td>
<td>Not observed</td>
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The depths used to partition sets into deep and shallow strata were 100 fm north of 40°10' N. lat., and 150 fm south of 40°10' N. lat.

The unit of effort is calculated as (set hours) times (number of hooks) divided by 1,000. Thus, the values shown are 1,000 times larger than would result from dividing discarded pounds by [(set hours) times (number of hooks)].
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<th>Species</th>
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<th>Pot</th>
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<tr>
<td>Shelf rockfish other than those listed individually deep</td>
<td></td>
<td>80</td>
<td>290</td>
</tr>
<tr>
<td>number of observed sets</td>
<td></td>
<td>80</td>
<td>290</td>
</tr>
<tr>
<td>species discard percentage</td>
<td></td>
<td>48.0%</td>
<td>57.2%</td>
</tr>
<tr>
<td>std. err. of species discard %</td>
<td></td>
<td>0.2773</td>
<td>0.1141</td>
</tr>
<tr>
<td>discarded lb per unit of effort 2</td>
<td></td>
<td>0.006</td>
<td>0.092</td>
</tr>
<tr>
<td>std. err. of discard lb/effort</td>
<td></td>
<td>0.0024</td>
<td>0.0177</td>
</tr>
<tr>
<td>discarded lb per retained sablefish lb</td>
<td></td>
<td>0.010%</td>
<td>0.140%</td>
</tr>
<tr>
<td>std. err. of discard lb/sablefish lb</td>
<td></td>
<td>0.0000</td>
<td>0.0003</td>
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<tr>
<td>shallow</td>
<td></td>
<td>1</td>
<td>58</td>
</tr>
<tr>
<td>species discard percentage</td>
<td></td>
<td>54.7%</td>
<td>17.9%</td>
</tr>
<tr>
<td>std. err. of species discard %</td>
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<td>0.1428</td>
<td>0.0307</td>
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<tr>
<td>discarded lb per unit of effort 2</td>
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<td>Not observed</td>
<td>1.089</td>
</tr>
<tr>
<td>std. err. of discard lb/effort</td>
<td></td>
<td>0.3223</td>
<td>0.0991</td>
</tr>
<tr>
<td>discarded lb per retained sablefish lb</td>
<td></td>
<td>1.400%</td>
<td>0.221%</td>
</tr>
<tr>
<td>std. err. of discard lb/sablefish lb</td>
<td></td>
<td>0.0043</td>
<td>0.0011</td>
</tr>
</tbody>
</table>

1. The depths used to partition sets into deep and shallow strata were 100 fm north of 40°10' N. lat., and 150 fm south of 40°10' N. lat.
2. The unit of effort is calculated as (set hours) times (number of hooks) divided by 1,000. Thus, the values shown are 1,000 times larger than would result from dividing discarded pounds by [(set hours) times (number of hooks)].
### Table 7 (cont.). Three measures of discard, and associated standard errors, for selected species in the limited entry, fixed-gear primary sablefish fishery, by gear, year, and depth strata.

<table>
<thead>
<tr>
<th>Depth strata 1</th>
<th>Hook and line</th>
<th>Pot</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2001</td>
<td>2002</td>
</tr>
<tr>
<td>Slope rockfish other than darkblotched and POP deep</td>
<td></td>
<td></td>
</tr>
<tr>
<td>number of observed sets</td>
<td>80</td>
<td>290</td>
</tr>
<tr>
<td>species discard percentage</td>
<td>2.6%</td>
<td>14.6%</td>
</tr>
<tr>
<td>std. err. of species discard %</td>
<td>0.0089</td>
<td>0.0231</td>
</tr>
<tr>
<td>discarded lb per unit of effort 2</td>
<td>0.010</td>
<td>0.209</td>
</tr>
<tr>
<td>std. err. of discard lb/effort</td>
<td>0.0091</td>
<td>0.0726</td>
</tr>
<tr>
<td>discarded lb per retained sablefish lb</td>
<td>0.018%</td>
<td>0.317%</td>
</tr>
<tr>
<td>std. err. of discard lb/sablefish lb</td>
<td>0.0002</td>
<td>0.0011</td>
</tr>
<tr>
<td>shallow</td>
<td></td>
<td></td>
</tr>
<tr>
<td>number of observed sets</td>
<td>1</td>
<td>58</td>
</tr>
<tr>
<td>species discard percentage</td>
<td>100.0%</td>
<td>1.9%</td>
</tr>
<tr>
<td>std. err. of species discard %</td>
<td>0.9950</td>
<td>0.0106</td>
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<td>discarded lb per unit of effort 2</td>
<td>Not observed</td>
<td>0.115</td>
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<td>std. err. of discard lb/effort</td>
<td>Not observed</td>
<td>0.1094</td>
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<tr>
<td>discarded lb per retained sablefish lb</td>
<td>0.148%</td>
<td>0.041%</td>
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<tr>
<td>std. err. of discard lb/sablefish lb</td>
<td>0.0014</td>
<td>0.0004</td>
</tr>
<tr>
<td>Black rockfish deep</td>
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<td></td>
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<tr>
<td>number of observed sets</td>
<td>80</td>
<td>290</td>
</tr>
<tr>
<td>species discard percentage</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
<tr>
<td>std. err. of species discard %</td>
<td></td>
<td></td>
</tr>
<tr>
<td>discarded lb per unit of effort 2</td>
<td>Not observed</td>
<td>0.000</td>
</tr>
<tr>
<td>std. err. of discard lb/effort</td>
<td>Not observed</td>
<td></td>
</tr>
<tr>
<td>discarded lb per retained sablefish lb</td>
<td>Not observed</td>
<td></td>
</tr>
<tr>
<td>std. err. of discard lb/sablefish lb</td>
<td></td>
<td></td>
</tr>
<tr>
<td>shallow</td>
<td></td>
<td></td>
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<td>number of observed sets</td>
<td>1</td>
<td>58</td>
</tr>
<tr>
<td>species discard percentage</td>
<td>Not observed</td>
<td></td>
</tr>
<tr>
<td>std. err. of species discard %</td>
<td></td>
<td></td>
</tr>
<tr>
<td>discarded lb per unit of effort 2</td>
<td>Not observed</td>
<td></td>
</tr>
<tr>
<td>std. err. of discard lb/effort</td>
<td>Not observed</td>
<td></td>
</tr>
<tr>
<td>discarded lb per retained sablefish lb</td>
<td>Not observed</td>
<td></td>
</tr>
<tr>
<td>std. err. of discard lb/sablefish lb</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 The depths used to partition sets into deep and shallow strata were 100 fm north of 40°10' N. lat., and 150 fm south of 40°10' N. lat.

2 The unit of effort is calculated as (set hours) times (number of hooks) divided by 1,000. Thus, the values shown are 1,000 times larger than would result from dividing discarded pounds by {[(set hours) times (number of hooks)]}.
Table 7 (cont.). Three measures of discard, and associated standard errors, for selected species in the limited entry, fixed-gear primary sablefish fishery, by gear, year, and depth strata.

<table>
<thead>
<tr>
<th>Species</th>
<th>Depth strata</th>
<th>Hook and line</th>
<th>Pot</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Nearshore rockfish other than black</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deep</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>number of observed sets</td>
<td>80</td>
<td>290</td>
<td>311</td>
<td>681</td>
</tr>
<tr>
<td>species discard percentage</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
<tr>
<td>discarded lb per unit of effort</td>
<td>Not observed</td>
<td>Not observed</td>
<td>Not observed</td>
<td>Not observed</td>
</tr>
<tr>
<td>std. err. of discard lb/effort</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>discarded lb per retained sablefish lb</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>std. err. of discard lb/sablefish lb</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shallow</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>number of observed sets</td>
<td>1</td>
<td>58</td>
<td>11</td>
<td>70</td>
</tr>
<tr>
<td>species discard percentage</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>discarded lb per unit of effort</td>
<td>Not observed</td>
<td>Not observed</td>
<td>Not observed</td>
<td>Not observed</td>
</tr>
<tr>
<td>std. err. of discard lb/effort</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>discarded lb per retained sablefish lb</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>std. err. of discard lb/sablefish lb</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>California halibut</td>
<td>Deep</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>number of observed sets</td>
<td>80</td>
<td>290</td>
<td>311</td>
<td>681</td>
</tr>
<tr>
<td>species discard percentage</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>discarded lb per unit of effort</td>
<td>Not observed</td>
<td>Not observed</td>
<td>Not observed</td>
<td>Not observed</td>
</tr>
<tr>
<td>std. err. of discard lb/effort</td>
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</tr>
<tr>
<td>discarded lb per retained sablefish lb</td>
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<td></td>
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<td>std. err. of discard lb/sablefish lb</td>
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<td></td>
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</tr>
<tr>
<td>Shallow</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>number of observed sets</td>
<td>1</td>
<td>58</td>
<td>11</td>
<td>70</td>
</tr>
<tr>
<td>species discard percentage</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>discarded lb per unit of effort</td>
<td>Not observed</td>
<td>Not observed</td>
<td>Not observed</td>
<td>Not observed</td>
</tr>
<tr>
<td>std. err. of discard lb/effort</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>discarded lb per retained sablefish lb</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>std. err. of discard lb/sablefish lb</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 The depths used to partition sets into deep and shallow strata were 100 fm north of 40°10’ N. lat., and 150 fm south of 40°10’ N. lat.

2 The unit of effort is calculated as (set hours) times (number of hooks) divided by 1,000. Thus, the values shown are 1,000 times larger than would result from dividing discarded pounds by [(set hours) times (number of hooks)].
### Table 7 (cont.). Three measures of discard, and associated standard errors, for selected species in the limited entry, fixed-gear primary sablefish fishery, by gear, year, and depth strata.

<table>
<thead>
<tr>
<th>Species</th>
<th>Depth strata</th>
<th>Hook and line</th>
<th>Pot</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>2001</td>
<td>2002</td>
</tr>
<tr>
<td>Pacific halibut</td>
<td>deep</td>
<td></td>
<td></td>
</tr>
<tr>
<td>number of observed sets</td>
<td>80</td>
<td>290</td>
<td>311</td>
</tr>
<tr>
<td>species discard percentage</td>
<td>90.9%</td>
<td>82.5%</td>
<td>84.1%</td>
</tr>
<tr>
<td>std. err. of species discard %</td>
<td>0.3174</td>
<td>0.1452</td>
<td>0.1139</td>
</tr>
<tr>
<td>discarded lb per unit of effort 2</td>
<td>4.747</td>
<td>10.694</td>
<td>16.729</td>
</tr>
<tr>
<td>std. err. of discard lb/effort</td>
<td>1.3277</td>
<td>1.6375</td>
<td>2.2131</td>
</tr>
<tr>
<td>discarded lb per retained sablefish lb</td>
<td>8.038%</td>
<td>16.180%</td>
<td>22.508%</td>
</tr>
<tr>
<td>std. err. of discard lb/sablefish lb</td>
<td>0.0227</td>
<td>0.0246</td>
<td>0.0271</td>
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<tr>
<td>shallow</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>number of observed sets</td>
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<td>58</td>
<td>11</td>
</tr>
<tr>
<td>species discard percentage</td>
<td>89.8%</td>
<td>75.5%</td>
<td>81.2%</td>
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<td>std. err. of species discard %</td>
<td>0.2163</td>
<td>0.2849</td>
<td>0.1867</td>
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<tr>
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<td>20.612</td>
<td>22.872</td>
<td>12.130</td>
</tr>
<tr>
<td>std. err. of discard lb/effort</td>
<td>6.0704</td>
<td>7.0953</td>
<td>5.0890</td>
</tr>
<tr>
<td>discarded lb per retained sablefish lb</td>
<td>14.327%</td>
<td>29.410%</td>
<td>17.998%</td>
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<td>std. err. of discard lb/sablefish lb</td>
<td>0.0812</td>
<td>0.0610</td>
<td>0.0611</td>
</tr>
<tr>
<td>Salmon</td>
<td>deep</td>
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<td></td>
</tr>
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<td>number of observed sets</td>
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<td>290</td>
<td>311</td>
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<tr>
<td>species discard percentage</td>
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<td>100.0%</td>
<td>100.0%</td>
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<tr>
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<td>0.001</td>
<td>0.001</td>
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<td>discarded lb per unit of effort 2</td>
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<td>Not observed</td>
<td>Not observed</td>
</tr>
<tr>
<td>std. err. of discard lb/effort</td>
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<td>Not observed</td>
<td>Not observed</td>
</tr>
<tr>
<td>discarded lb per retained sablefish lb</td>
<td>0.002%</td>
<td>0.001%</td>
<td>0.001%</td>
</tr>
<tr>
<td>std. err. of discard lb/sablefish lb</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
</tr>
<tr>
<td>shallow</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>number of observed sets</td>
<td>1</td>
<td>58</td>
<td>11</td>
</tr>
<tr>
<td>species discard percentage</td>
<td>Not observed</td>
<td>Not observed</td>
<td>Not observed</td>
</tr>
<tr>
<td>std. err. of species discard %</td>
<td>Not observed</td>
<td>Not observed</td>
<td>Not observed</td>
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<tr>
<td>discarded lb per unit of effort 2</td>
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<td>Not observed</td>
<td>Not observed</td>
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<tr>
<td>std. err. of discard lb/effort</td>
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<td>Not observed</td>
<td>Not observed</td>
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<tr>
<td>discarded lb per retained sablefish lb</td>
<td>Not observed</td>
<td>Not observed</td>
<td>Not observed</td>
</tr>
<tr>
<td>std. err. of discard lb/sablefish lb</td>
<td>Not observed</td>
<td>Not observed</td>
<td>Not observed</td>
</tr>
</tbody>
</table>

1. The depths used to partition sets into deep and shallow strata were 100 fm north of 40°10' N. lat., and 150 fm south of 40°10' N. lat.
2. The unit of effort is calculated as (set hours) times (number of hooks) divided by 1,000. Thus, the values shown are 1,000 times larger than would result from dividing discarded pounds by [(set hours) times (number of hooks)].
Table 8a. Comparison of sablefish discard and bycatch of overfished species among depth strata, using only sets that were designated as sablefish target sets from all years, for both gear types.

<table>
<thead>
<tr>
<th>Depth category of set</th>
<th>0-100 fm</th>
<th>100-125 fm</th>
<th>125-150 fm</th>
<th>&gt;150 fm</th>
<th>&gt;125 fm</th>
<th>&gt;100 fm</th>
<th>All depths</th>
</tr>
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<tbody>
<tr>
<td>Number of sets</td>
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<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>observed</td>
<td>155</td>
<td>221</td>
<td>142</td>
<td>811</td>
<td>953</td>
<td>1,174</td>
<td>1,329</td>
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</table>

<table>
<thead>
<tr>
<th>Sablefish</th>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>catch (lb)</td>
<td>159,465</td>
<td>279,651</td>
<td>199,378</td>
<td>1,187,915</td>
<td>1,387,293</td>
<td>1,666,944</td>
<td>1,826,410</td>
</tr>
<tr>
<td>retained (lb)</td>
<td>138,960</td>
<td>254,222</td>
<td>180,436</td>
<td>971,497</td>
<td>1,151,933</td>
<td>1,406,155</td>
<td>1,545,115</td>
</tr>
<tr>
<td>discard / catch%</td>
<td>12.9%</td>
<td>9.1%</td>
<td>9.5%</td>
<td>18.2%</td>
<td>17.0%</td>
<td>15.6%</td>
<td>15.4%</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Lingcod</th>
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<tbody>
<tr>
<td>catch (lb)</td>
<td>4,331</td>
<td>2,415</td>
<td>1,240</td>
<td>1,273</td>
<td>2,514</td>
<td>4,929</td>
<td>9,260</td>
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<td>bycatch ratio 1</td>
<td>3.117%</td>
<td>0.950%</td>
<td>0.687%</td>
<td>0.131%</td>
<td>0.218%</td>
<td>0.351%</td>
<td>0.599%</td>
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</table>

<table>
<thead>
<tr>
<th>Widow rockfish</th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>catch (lb)</td>
<td>7</td>
<td>10</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>10</td>
<td>18</td>
</tr>
<tr>
<td>bycatch ratio 1</td>
<td>0.005%</td>
<td>0.004%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.001%</td>
<td>0.001%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Canary rockfish</th>
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<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>catch (lb)</td>
<td>855</td>
<td>231</td>
<td>173</td>
<td>22</td>
<td>195</td>
<td>426</td>
<td>1,280</td>
</tr>
<tr>
<td>bycatch ratio 1</td>
<td>0.615%</td>
<td>0.091%</td>
<td>0.096%</td>
<td>0.002%</td>
<td>0.017%</td>
<td>0.030%</td>
<td>0.083%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Yelloweye rockfish</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>catch (lb)</td>
<td>615</td>
<td>420</td>
<td>247</td>
<td>166</td>
<td>413</td>
<td>833</td>
<td>1,448</td>
</tr>
<tr>
<td>bycatch ratio 1</td>
<td>0.443%</td>
<td>0.165%</td>
<td>0.137%</td>
<td>0.017%</td>
<td>0.036%</td>
<td>0.059%</td>
<td>0.094%</td>
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<table>
<thead>
<tr>
<th>Bocaccio rockfish</th>
<th></th>
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<th></th>
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</tr>
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<tbody>
<tr>
<td>catch (lb)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>bycatch ratio 1</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cowcod rockfish</th>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>catch (lb)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>bycatch ratio 1</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pacific ocean perch</th>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>catch (lb)</td>
<td>6</td>
<td>12</td>
<td>36</td>
<td>141</td>
<td>178</td>
<td>189</td>
<td>195</td>
</tr>
<tr>
<td>bycatch ratio 1</td>
<td>0.004%</td>
<td>0.005%</td>
<td>0.020%</td>
<td>0.015%</td>
<td>0.015%</td>
<td>0.013%</td>
<td>0.013%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Darkblotched rockfish</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>catch (lb)</td>
<td>1</td>
<td>16</td>
<td>34</td>
<td>389</td>
<td>422</td>
<td>438</td>
<td>439</td>
</tr>
<tr>
<td>bycatch ratio 1</td>
<td>0.000%</td>
<td>0.006%</td>
<td>0.019%</td>
<td>0.040%</td>
<td>0.037%</td>
<td>0.031%</td>
<td>0.028%</td>
</tr>
</tbody>
</table>

1 The bycatch ratios are calculated by dividing the total catch of each species by the retained poundage of sablefish.
Table 8b. Comparison of sablefish discard and bycatch of overfished species among depth strata, using only sets that were designated as sablefish target sets from all years, for longline gear.

<table>
<thead>
<tr>
<th>Depth category of set</th>
<th>0-100 fm</th>
<th>100-125 fm</th>
<th>125-150 fm</th>
<th>&gt;150 fm</th>
<th>&gt;125 fm</th>
<th>&gt;100 fm</th>
<th>All depths</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of sets observed</td>
<td>105</td>
<td>192</td>
<td>125</td>
<td>318</td>
<td>443</td>
<td>635</td>
<td>740</td>
</tr>
<tr>
<td>Sablefish catch (lb)</td>
<td>126,187</td>
<td>255,858</td>
<td>188,494</td>
<td>617,359</td>
<td>805,853</td>
<td>1,061,712</td>
<td>1,187,899</td>
</tr>
<tr>
<td>retained (lb)</td>
<td>108,240</td>
<td>235,191</td>
<td>171,574</td>
<td>509,086</td>
<td>680,660</td>
<td>915,851</td>
<td>1,024,091</td>
</tr>
<tr>
<td>discard / catch</td>
<td>14.2%</td>
<td>8.1%</td>
<td>9.0%</td>
<td>17.5%</td>
<td>15.5%</td>
<td>13.7%</td>
<td>13.8%</td>
</tr>
<tr>
<td>Lingcod catch (lb)</td>
<td>2,320</td>
<td>1,753</td>
<td>1,101</td>
<td>902</td>
<td>2,003</td>
<td>3,756</td>
<td>6,076</td>
</tr>
<tr>
<td>bycatch ratio</td>
<td>2.144%</td>
<td>0.745%</td>
<td>0.642%</td>
<td>0.177%</td>
<td>0.294%</td>
<td>0.410%</td>
<td>0.593%</td>
</tr>
<tr>
<td>Widow rockfish catch (lb)</td>
<td>7</td>
<td>10</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>10</td>
<td>18</td>
</tr>
<tr>
<td>bycatch ratio</td>
<td>0.007%</td>
<td>0.004%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.001%</td>
<td>0.002%</td>
<td></td>
</tr>
<tr>
<td>Canary rockfish catch (lb)</td>
<td>853</td>
<td>231</td>
<td>173</td>
<td>22</td>
<td>195</td>
<td>426</td>
<td>1,279</td>
</tr>
<tr>
<td>bycatch ratio</td>
<td>0.788%</td>
<td>0.098%</td>
<td>0.101%</td>
<td>0.004%</td>
<td>0.029%</td>
<td>0.046%</td>
<td>0.125%</td>
</tr>
<tr>
<td>Yelloweye rockfish catch (lb)</td>
<td>615</td>
<td>418</td>
<td>247</td>
<td>166</td>
<td>413</td>
<td>831</td>
<td>1,446</td>
</tr>
<tr>
<td>bycatch ratio</td>
<td>0.568%</td>
<td>0.178%</td>
<td>0.144%</td>
<td>0.033%</td>
<td>0.061%</td>
<td>0.091%</td>
<td>0.141%</td>
</tr>
<tr>
<td>Bocaccio rockfish catch (lb)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>bycatch ratio</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
<td></td>
</tr>
<tr>
<td>Cowcod rockfish catch (lb)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>bycatch ratio</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
<td></td>
</tr>
<tr>
<td>Pacific ocean perch catch (lb)</td>
<td>6</td>
<td>12</td>
<td>34</td>
<td>141</td>
<td>175</td>
<td>187</td>
<td>193</td>
</tr>
<tr>
<td>bycatch ratio</td>
<td>0.005%</td>
<td>0.005%</td>
<td>0.020%</td>
<td>0.028%</td>
<td>0.026%</td>
<td>0.020%</td>
<td>0.019%</td>
</tr>
<tr>
<td>Darkblotched rockfish catch (lb)</td>
<td>0</td>
<td>15</td>
<td>34</td>
<td>340</td>
<td>374</td>
<td>389</td>
<td>389</td>
</tr>
<tr>
<td>bycatch ratio</td>
<td>0.000%</td>
<td>0.006%</td>
<td>0.020%</td>
<td>0.067%</td>
<td>0.055%</td>
<td>0.042%</td>
<td>0.038%</td>
</tr>
</tbody>
</table>

1 The bycatch ratios are calculated by dividing the total catch of each species by the retained poundage of sablefish.
Table 8c. Comparison of sablefish discard and bycatch of overfished species among depth strata, using only sets that were designated as sablefish target sets from all years, for pot gear.

<table>
<thead>
<tr>
<th>Depth category of set</th>
<th>0-100 fm</th>
<th>100-125 fm</th>
<th>125-150 fm</th>
<th>&gt;150 fm</th>
<th>&gt;125 fm</th>
<th>&gt;100 fm</th>
<th>All depths</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of sets observed</td>
<td>50</td>
<td>29</td>
<td>17</td>
<td>493</td>
<td>510</td>
<td>539</td>
<td>589</td>
</tr>
<tr>
<td>Sablefish</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>catch (lb)</td>
<td>33,278</td>
<td>23,793</td>
<td>10,884</td>
<td>570,556</td>
<td>581,440</td>
<td>605,233</td>
<td>638,511</td>
</tr>
<tr>
<td>retained (lb)</td>
<td>30,720</td>
<td>19,031</td>
<td>8,862</td>
<td>462,412</td>
<td>471,273</td>
<td>490,304</td>
<td>521,024</td>
</tr>
<tr>
<td>discard / catch</td>
<td>7.7%</td>
<td>20.0%</td>
<td>18.6%</td>
<td>19.0%</td>
<td>18.9%</td>
<td>19.0%</td>
<td>18.4%</td>
</tr>
<tr>
<td>Lingcod</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>catch (lb)</td>
<td>2,011</td>
<td>662</td>
<td>139</td>
<td>372</td>
<td>511</td>
<td>1,173</td>
<td>3,184</td>
</tr>
<tr>
<td>bycatch ratio</td>
<td>6.54%</td>
<td>3.48%</td>
<td>1.57%</td>
<td>0.11%</td>
<td>0.11%</td>
<td>0.23%</td>
<td>0.61%</td>
</tr>
<tr>
<td>Widow rockfish</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>catch (lb)</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>bycatch ratio</td>
<td>0.006%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
</tr>
<tr>
<td>Canary rockfish</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>catch (lb)</td>
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<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>2</td>
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<tr>
<td>bycatch ratio</td>
<td>0.000%</td>
<td>0.011%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
</tr>
<tr>
<td>Yelloweye rockfish</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>catch (lb)</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>bycatch ratio</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
</tr>
<tr>
<td>Bocaccio rockfish</td>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>catch (lb)</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>bycatch ratio</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
</tr>
<tr>
<td>Cowcod rockfish</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>catch (lb)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>bycatch ratio</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.023%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
</tr>
<tr>
<td>Pacific ocean perch</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>catch (lb)</td>
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<td>2</td>
<td>0</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>bycatch ratio</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.023%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
<td>0.000%</td>
</tr>
<tr>
<td>Darkblotched rockfish</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
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<td>1</td>
<td>0</td>
<td>49</td>
<td>49</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>bycatch ratio</td>
<td>0.002%</td>
<td>0.004%</td>
<td>0.000%</td>
<td>0.011%</td>
<td>0.010%</td>
<td>0.010%</td>
<td>0.010%</td>
</tr>
</tbody>
</table>

1 The bycatch ratios are calculated by dividing the total catch of each species by the retained poundage of sablefish.