

This errata sheet updates Section 6.4.4 of the DEIS. The upper section of Table 6-14 revises BSAI directed halibut catch based on correct 2019 values and all projections from that point. The Operating Model output values are “BSAI directed halibut fishery catch limits,” not “TCEY”. The methodology behind these projections is described in Section 5.2.4.2.3; that section addresses the distinction between the BSAI as estimated in the Operating Model and IPHC Areas 4ABCDE. The lower section of the table is modified to calculate percent changes across each year, relative to status quo projections.

6.4.4 Impacts on BSAI halibut commercial catch

The Operating Model concludes that lower A80 PSC limits under an ABM approach are associated with higher BSAI catch limits for the directed halibut fishery, and vice versa. Model simulations assume that directed fishery catch is equal to the catch limit, though – as noted below – IPHC Area 4 catch limit utilization was approximately 91% during the analyzed period. Modeled BSAI catch limits are used as a proxy for Area 4.¹ That basic conclusion is sufficient to understand the directional impact of the considered alternatives on halibut stakeholders in western Alaska.

Table 6-14 reports the median projected BSAI halibut catch limits for each alternative over the next ten years and the percent-difference across alternatives in those years relative to projections under Alternative 1 (status quo) in each year. The BSAI catch limit is translated from the model output (round weight tons) to millions of net weight pounds, which is the typical unit for the TCEYs established by the IPHC.² Alternatives 3 and 4 perform similarly, resulting in higher projected halibut catch limits. Alternative 2 is projected to result in lower directed halibut catch limits relative to Alternatives 3 and 4.

¹ The relationship between BSAI, as considered in the Operating Model, and IPHC Area 4 is described in Section 5.2.4.2.2

² Net weight is calculated as 75% of round weight.

Table 6-14 Median projected BSAI directed halibut catch limits (millions of pounds, net weight; top panel) and percent change relative to the status quo (Alternative 1) projection; bottom panel. Columns labeled “Static 3” and “Static 4” are runs with PSC limits fixed at their starting point values for Alternatives 3 and 4, respectively. “Alt. 4 without floor” is the same as Alternative 4 but with the floor removed. The starting point for Alternative 2 is the same as status quo.

| BSAI Pacific halibut fishery catch limit (net wt. million pounds) | | | | | | | |
|--|------------|--------|--------|----------|--------|----------|---------------------|
| Year | Status Quo | Alt. 2 | Alt. 3 | Static 3 | Alt. 4 | Static 4 | Alt. 4 w/o floor |
| 2019 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 |
| 2020 | 5.83 | 5.83 | 5.83 | 5.83 | 5.83 | 5.83 | 5.83 |
| 2021 | 5.30 | 5.28 | 5.47 | 5.62 | 5.53 | 5.68 | 5.53 |
| 2022 | 4.85 | 4.81 | 5.12 | 5.13 | 5.21 | 5.19 | 5.21 |
| 2023 | 4.65 | 4.58 | 5.00 | 4.90 | 5.05 | 4.96 | 5.05 |
| 2024 | 4.54 | 4.44 | 4.91 | 4.79 | 4.93 | 4.84 | 4.93 |
| 2025 | 4.84 | 4.68 | 5.27 | 5.10 | 5.25 | 5.15 | 5.25 |
| 2026 | 5.08 | 4.85 | 5.57 | 5.38 | 5.52 | 5.43 | 5.52 |
| 2027 | 5.29 | 5.05 | 5.79 | 5.62 | 5.76 | 5.68 | 5.76 |
| 2028 | 5.98 | 5.69 | 6.45 | 6.33 | 6.42 | 6.39 | 6.42 |
| 2029 | 6.27 | 5.95 | 6.68 | 6.60 | 6.65 | 6.66 | 6.65 |
| 2030 | 7.00 | 6.65 | 7.41 | 7.44 | 7.33 | 7.52 | 7.33 |

| Projected directed fishery catch limit change relative to status quo (Alt. 1) | | | | | | | |
|--|------------|--------|--------|----------|--------|----------|---------------------|
| Year | Status Quo | Alt. 2 | Alt. 3 | Static 3 | Alt. 4 | Static 4 | Alt. 4 w/o floor |
| 2019 | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 2020 | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 2021 | 0% | 0% | 3% | 6% | 4% | 7% | 4% |
| 2022 | 0% | -1% | 6% | 6% | 7% | 7% | 7% |
| 2023 | 0% | -1% | 7% | 5% | 9% | 7% | 9% |
| 2024 | 0% | -2% | 8% | 6% | 8% | 7% | 8% |
| 2025 | 0% | -3% | 9% | 5% | 9% | 6% | 9% |
| 2026 | 0% | -5% | 10% | 6% | 9% | 7% | 9% |
| 2027 | 0% | -5% | 9% | 6% | 9% | 7% | 9% |
| 2028 | 0% | -5% | 8% | 6% | 7% | 7% | 7% |
| 2029 | 0% | -5% | 7% | 5% | 6% | 6% | 6% |
| 2030 | 0% | -5% | 6% | 6% | 5% | 7% | 5% |

Table 6* converts the values in the top panel of Table 6-14 to gross ex-vessel revenues in adjusted 2018 dollars using a scalar multiplier of \$4.43 per IFQ pound (headed and gutted net weight). That value represents the 2019 average ex-vessel value within IPHC Area 4 converted to 2018 dollars (as provided by AKFIN based on Fish Ticket data). In 2019, ex-vessel value in Area 4 and in other areas was low relative to recent years; market factors that have affected halibut ex-vessel value and may continue to do so in the near-term are described in Section 4.4.1. The reader could apply a different multiplier to the top panel of Table 6-14 based on their own prior assumptions about the future direction of halibut value. For

reference, 2018-dollar adjusted ex-vessel values for Area 4 were \$6.26 in 2015, \$6.40 in 2016, \$6.09 in 2017, \$4.64 in 2018, and \$4.43 in 2019. Table 6** makes the same conversion based on the model but uses 2018\$-adjusted average ex-vessel value for the entire 2015 through 2019 period (\$5.57 per IFQ pound).

Setting aside the uncertainty surrounding future halibut ex-vessel value, the numbers in Table 6* likely overestimate gross value because the table assumes 100% usage of the catch limit. Figure 4-5 in Section 4.4 of the DEIS shows that the Area 4 TAC utilization rate was roughly 91% from 2012 through 2019. The reader can compare the values in the table to historical Area 4 ex-vessel revenues shown in Table 4-3 of the DEIS (IFQ + CDQ). Area 4 gross ex-vessel revenue in 2018-dollars ranged from \$32.6 million to \$54.6 million from 2010 to 2012 but has been between \$16.9 million (2018) and \$24.9 million (2016) in more recent years. Section 4.4.1 highlights the reasons why recently observed per-unit values for gross ex-vessel halibut revenues might not be a reliable predictor of future value in the near term due to significant market disruptions.

Table 6* **Projected gross ex-vessel value (\$million) of BSAI directed halibut based on 2019 average IPHC Area 4 unit values adjusted to 2018 dollars, assuming 100% utilization.**

| Year | Status quo | Alt. 2 | Alt. 3 | Static 3 | Alt. 4 | Static 4 | Alt. 4 w/o floor |
|------|------------|--------|--------|----------|--------|----------|------------------|
| 2019 | 18.12 | 18.12 | 18.12 | 18.12 | 18.12 | 18.12 | 18.12 |
| 2020 | 25.83 | 25.83 | 25.84 | 25.85 | 25.84 | 25.85 | 25.84 |
| 2021 | 23.49 | 23.41 | 24.22 | 24.90 | 24.49 | 25.16 | 24.49 |
| 2022 | 21.49 | 21.30 | 22.70 | 22.73 | 23.07 | 22.97 | 23.07 |
| 2023 | 20.59 | 20.29 | 22.13 | 21.71 | 22.37 | 21.95 | 22.37 |
| 2024 | 20.12 | 19.65 | 21.77 | 21.23 | 21.82 | 21.44 | 21.82 |
| 2025 | 21.44 | 20.72 | 23.34 | 22.61 | 23.26 | 22.82 | 23.26 |
| 2026 | 22.49 | 21.47 | 24.66 | 23.84 | 24.46 | 24.06 | 24.46 |
| 2027 | 23.42 | 22.35 | 25.63 | 24.88 | 25.52 | 25.15 | 25.52 |
| 2028 | 26.50 | 25.20 | 28.56 | 28.05 | 28.42 | 28.30 | 28.42 |
| 2029 | 27.77 | 26.35 | 29.59 | 29.24 | 29.47 | 29.52 | 29.47 |
| 2030 | 31.01 | 29.47 | 32.84 | 32.94 | 32.46 | 33.30 | 32.46 |

Table 6** Projected gross ex-vessel value (\$million) of BSAI directed halibut based on 2015-2019 average IPHC Area 4 unit values adjusted to 2018 dollars, assuming 100% utilization.

| Year | Status quo | Alt. 2 | Alt. 3 | Static 3 | Alt. 4 | Static 4 | Alt. 4 w/o floor |
|------|------------|--------|--------|----------|--------|----------|------------------|
| 2019 | 22.78 | 22.78 | 22.78 | 22.78 | 22.78 | 22.78 | 22.78 |
| 2020 | 32.48 | 32.48 | 32.49 | 32.50 | 32.49 | 32.50 | 32.49 |
| 2021 | 29.53 | 29.43 | 30.45 | 31.31 | 30.79 | 31.63 | 30.79 |
| 2022 | 27.03 | 26.78 | 28.55 | 28.58 | 29.01 | 28.88 | 29.01 |
| 2023 | 25.88 | 25.52 | 27.82 | 27.30 | 28.13 | 27.60 | 28.13 |
| 2024 | 25.29 | 24.71 | 27.37 | 26.69 | 27.44 | 26.95 | 27.44 |
| 2025 | 26.95 | 26.05 | 29.35 | 28.43 | 29.25 | 28.69 | 29.25 |
| 2026 | 28.27 | 26.99 | 31.00 | 29.98 | 30.75 | 30.25 | 30.75 |
| 2027 | 29.45 | 28.11 | 32.23 | 31.29 | 32.09 | 31.63 | 32.09 |
| 2028 | 33.32 | 31.68 | 35.91 | 35.26 | 35.73 | 35.58 | 35.73 |
| 2029 | 34.91 | 33.13 | 37.21 | 36.76 | 37.06 | 37.12 | 37.06 |
| 2030 | 38.99 | 37.05 | 41.29 | 41.42 | 40.81 | 41.86 | 40.81 |