

ΝΟΔΔ

FISHERIES

2018 BSAI Northern Rockfish (partial) assessment

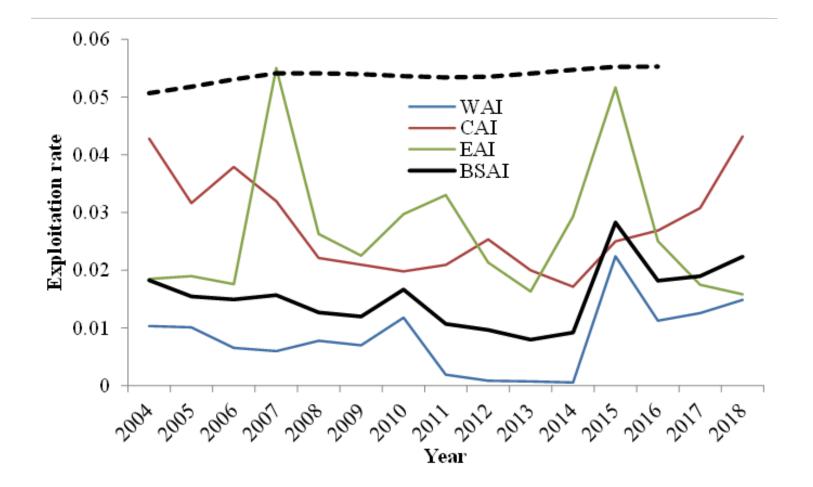
Paul Spencer and Jim Ianelli Alaska Fisheries Science Center

Al survey biomass estimates have shown some variability

| Year | wAI | CAI | EAI | SBS | Total |
|------|------------------|---------------|---------------|---------------|----------------|
| 2010 |) 143,953 (0.29) | 51,331 (0.40) | 21,846 (0.50) | 189 (0.52) | 217,319 (0.22) |
| 2012 | 216,325 (0.65) | 52,674 (0.40) | 15,615 (0.60) | 550 (0.73) | 285,164 (0.50) |
| 2014 | 346,392 (0.38) | 48,049 (0.44) | 76,787 (0.79) | 1,668 (0.80) | 472,895 (0.31) |
| 2016 | 5 124,310 (0.21) | 78,869 (0.37) | 48,382 (0.52) | 1,656 (0.55) | 253,217 (0.18) |
| 2018 | 98,756 (0.24) | 59,500 (0.40) | 20,096 (0.63) | 34,120 (0.70) | 212,472 (0.20) |



Exploitation rates





Management recommendations

| | As estimated or | | As estimated or | |
|--------------------------------------|-----------------------------------|---------|-----------------------------------|------------|
| | specified last year for: | | recommended this year for: | |
| | 2018 | 2019 | 2019^{*} | 2020^{*} |
| Quantity | | | | |
| M (natural mortality rate) | 0.046 | 0.046 | 0.046 | 0.046 |
| Tier | 3a | 3a | 3a | 3a |
| Projected total (age 3+) biomass (t) | 246,160 | 244,963 | 244,196 | 242,426 |
| Female spawning biomass (t) | | | | |
| Projected | 106,486 | 104,699 | 104,201 | 102,480 |
| B _{100%} | 164,674 | 164,674 | 164,674 | 164,674 |
| B _{40%} | 65,870 | 65,870 | 65,870 | 65,870 |
| B _{35%} | 57,636 | 57,636 | 57,636 | 57,636 |
| F _{OFL} | 0.080 | 0.080 | 0.080 | 0.080 |
| $maxF_{ABC}$ | 0.065 | 0.065 | 0.065 | 0.065 |
| | 0.065 | 0.065 | 0.065 | 0.065 |
| OFL (t) | 15,888 | 15,563 | 15,507 | 15,180 |
| maxABC (t) | 12,975 | 12,710 | 12,664 | 12,396 |
| ABC (t) | 12,975 | 12,710 | 12,664 | 12,396 |
| | As determined last year for: for: | | As determined this year for: for: | |
| Status | 2016 | 2017 | 2017 | 2018 |
| Overfishing | No | n/a | No | n/a |
| Overfished | n/a | No | n/a | No |
| Approaching overfished | n/a | No | n/a | No |

