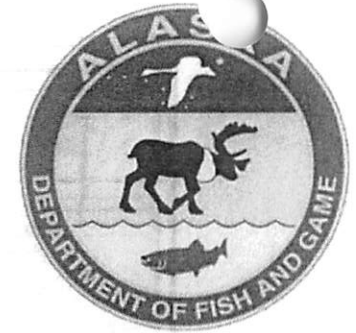
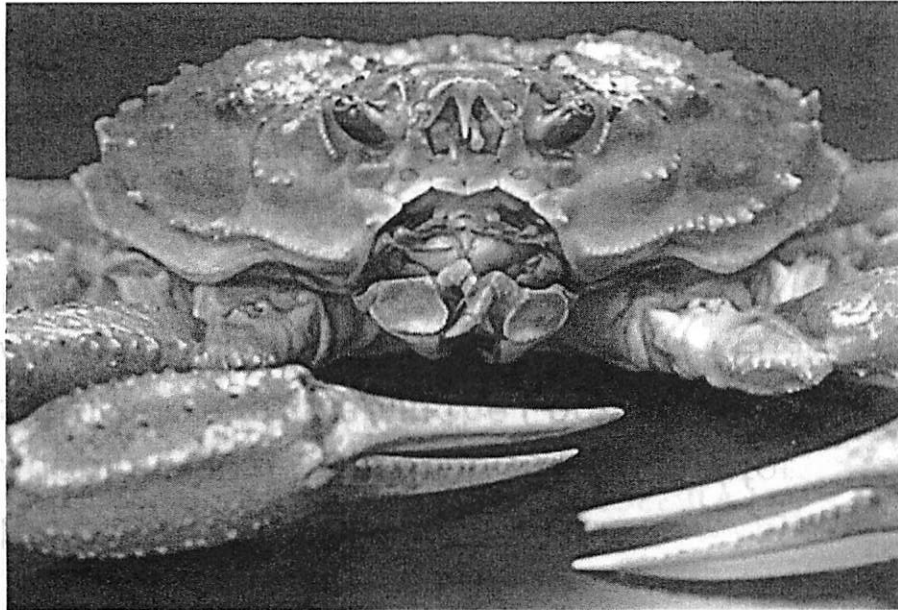


RC 4



Amount Necessary for Subsistence (ANS)



Tanner crab, Cook Inlet Area
Proposal 246

King crab, Kodiak Area
Proposal 256

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Southern Region Program Manager
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This oral report can be found in RC3
Written report Special Publications No. BOF 2020-07 can be found in RC 3

Tanner Crab, Cook Inlet Area Amount Necessary for Subsistence (ANS)



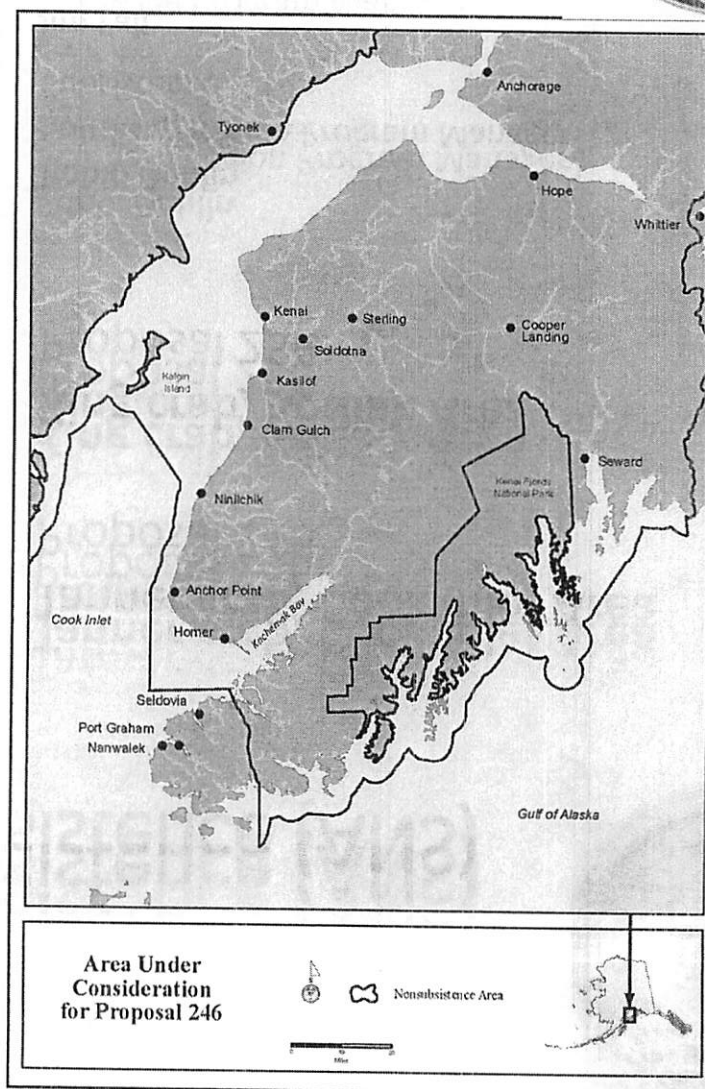
Proposal 246

Adopt amounts reasonably necessary for subsistence for crab in the Cook Inlet Area, outside the Anchorage-Matsu-Kenai Nonsubsistence Area.

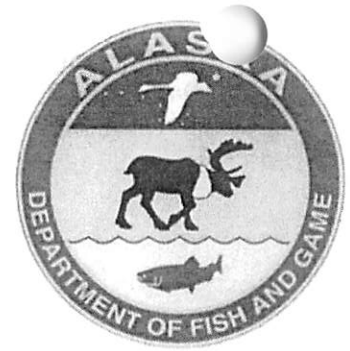
Tanner crab only

Positive C & T crab for Cook Inlet

No ANS adopted to date for Tanner crab



Staff Comments: RC 2, pgs. 10-12
Background Information:
Special Publications NO. BOF 2020-07 RC 3
Options for Amount Reasonably Necessary for Subsistence Uses of Crab
in Cook Inlet and Kodiak Areas, Alaska. February 2020. Alaska
Department of Fish and Game Division of Subsistence. Lauren Sill



Tanner Crab, Cook Inlet Area

Amount Necessary for Subsistence (ANS)

Outside the Nonsubsistence Area
 All ANS are for individual crab

Option A: 10–1,600 Tanner Crab

Low and high harvest point estimates from household surveys in Seldovia, Nanwalek, and Port Graham 1987–2014

| | Harvest (individual) | | ANS range option (rounded) | |
|--------------|----------------------|--------------|----------------------------|--------------|
| | Low | High | Low | High |
| Seldovia | 7 | 1,515 | | |
| Port Graham | 4 | 40 | | |
| Nanwalek | 0 | 0 | | |
| Total | 11 | 1,555 | 10 | 1,600 |

Option B: 275–1,400 Tanner Crab

Sum of the averages of the low and high annual harvest estimates from household surveys as determined by confidence intervals, 1987–2014

| | Harvest (individual) | |
|--------------------|----------------------|---------------|
| | Low Estimate | High Estimate |
| Seldovia | 270 | 1,346 |
| Port Graham | 2 | 9 |
| Nanwalek | 0 | 0 |
| Total | 272 | 1,355 |
| ANS option rounded | 275 | 1,400 |



Tanner Crab, Cook Inlet Area

Amount Necessary for Subsistence (ANS)

Outside the Nonsubsistence Area

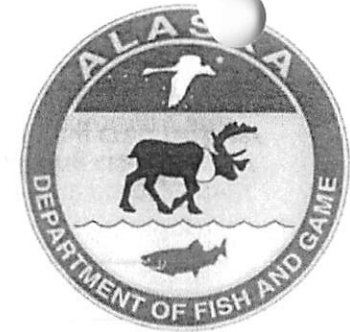
Option C: 230–400 Tanner Crab

Mean harvest +/- 25% estimated through the subsistence Tanner crab fishery permits 2017/18 and 2018/2019
 Estimated mean harvest amount 2017–2019 (individual)

| Mean | Mean +/- 25% | | ANS range option (rounded) | |
|------|--------------|--------|----------------------------|------|
| | Low | High | Low | High |
| 312 | 233.63 | 389.38 | 230 | 400 |

Option D: Take No Action

The current permit dataset is limited to 2 years. The Board may choose to take no action if it determines that more data are needed to determine an ANS. Subsistence harvest data for Lower Cook Inlet Tanner crab will be collected on an annual basis. The Board of Fisheries could revisit ANS for Tanner crab in a future cycle when a more robust dataset is available.



King Crab, Kodiak Area Amount Necessary for Subsistence (ANS)

All ANS are for individual crab

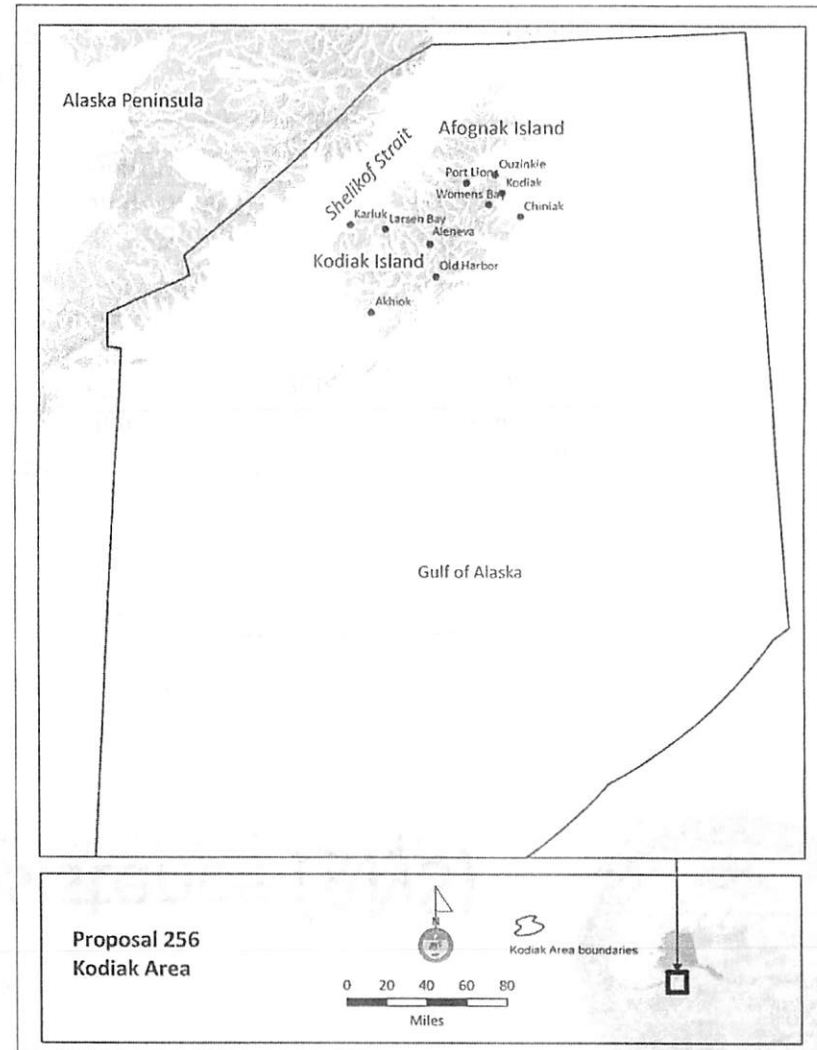
Proposals 256

Adopt amounts reasonably necessary for subsistence for king crab stocks in the Kodiak Area

King crab only

Positive C & T for crab in the Kodiak Area

No ANS adopted to date for King crab



Staff Comments: RC 2, pgs. 45–46
Background Information:
Special Publications NO. BOF 2020-07 RC 3
Options for Amount Reasonably Necessary for Subsistence Uses of Crab in Cook Inlet and Kodiak Areas, Alaska. February 2020. Alaska Department of Fish and Game Division of Subsistence. Lauren Sill



King Crab, Kodiak Area Amount Necessary for Subsistence (ANS)

Option A: 175–525 king crab

Low and high harvest from permit returns 1996–2018

| Harvest (individual) | | ANS range option (rounded) | |
|----------------------|------|----------------------------|------|
| Low | High | Low | High |
| 177 | 513 | 175 | 525 |

Option B: 200–400 king crab

Mean harvest and standard deviation from permit returns 1996–2018

| Range of Harvest (individual) | | | | Bounded by | Mean +/- SD | | ANS range option (rounded) | |
|-------------------------------|------|------|----|------------|-------------|------|----------------------------|------|
| Low | High | Mean | SD | | Low | High | Low | High |
| 177 | 513 | 295 | 97 | | 198 | 392 | 200 | 400 |

Option C: 175–400 king crab

Low and high harvest from permit returns 2009–2018

| Harvest (individual) | | ANS range option (rounded) | |
|----------------------|------|----------------------------|------|
| Low | High | Low | High |
| 181 | 406 | 175 | 400 |

Option D: 175–325 king crab

Mean harvest and standard deviation from permit returns 2009–2018

| Range of Harvest (individual) | | | | Bounded by | Mean +/- SD | | ANS range option (rounded) | |
|-------------------------------|------|------|----|------------|-------------|------|----------------------------|------|
| Low | High | Mean | SD | | Low | High | Low | High |
| 181 | 406 | 247 | 72 | | 176 | 319 | 175 | 325 |

Option E: Take No Action

Maintain current status quo because limited opportunity currently exists. Board may elect to take future action if king crab recover and harvest restrictions are relaxed or limited and permit data reflects subsistence harvests that represent recent customary and traditional use levels