



**Advisory Announcement**  
***For Immediate Release: September 16, 2020***

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**2020/2021 SOUTHEAST ALASKA COMMERCIAL RED KING CRAB FISHERY  
CLOSURE**

The Southeast Alaska (Registration Area A) commercial red (RKC) and blue king crab (BKC) fishery will be closed for the 2020/2021 season. The 2020 stock assessment survey results estimated 97,881 pounds of legal male RKC available for harvest which is below the minimum threshold of 200,000 pounds required to open the commercial fishery [5 AAC 34.113]. The Southeast Alaska Red King Crab Management Plan [5 AAC 34.113] directs the department to manage the RKC fishery in accordance with the Alaska Board of Fisheries' "Policy on King and Tanner Crab Resource Management".

Regionally, the biomass estimates for mature and legal male RKC decreased from last season and have been declining since 2017. For 2020, only two of the seven survey areas increased in biomass (Lynn Sisters and Pybus Bay), while the other five areas decreased. The adjusted biomass estimates for legal and mature RKC for the Southeast Region (survey areas only) are 0.85 million pounds and 0.98 million pounds respectively for the 2020/2021 season: an 8.4% decrease in the legal male biomass and a 9.4% decrease in mature male biomass. Regional biomass is estimated from the seven surveyed areas and extrapolated to the entire region.

**Survey and Analysis**

Areas surveyed include Pybus Bay, Gambier Bay, Seymour Canal, Peril Strait, the Juneau area, Lynn Sisters, and Excursion Inlet. Port Frederick and Holkham Bay were dropped as survey areas in 2015 due to budgetary reductions. The estimate of available harvest was determined through a catch-survey analysis (CSA) for all surveyed areas. The CSA incorporates data from the Department's annual stock assessment pot survey (1979–2020), commercial harvest (1979–2017), and biological data collected during port sampling of commercial landings. Harvest data from 1974–1984 indicate that an average of 52.8% has been taken from surveyed areas and 47.2% from non-surveyed areas. This surveyed/non-surveyed area ratio was used to calculate legal and mature biomass estimates for the non-surveyed areas.

Equilibrium harvest rates were calculated for each surveyed area based on the relationship between historical harvest rates and their associated change in mature male biomass. The stock health status and biomass level, when compared to baseline biomass values for each area, were used to modify proposed harvest rates or determine area closures. Stock health ratings are based on catch per unit effort (CPUE) of all size/sex classes compared to long-term (15-year) and short-term (4-year) averages.

Five of the seven survey areas had stock health ratings of poor and below average. Lynn Sisters and Pybus Bay had an increase in both legal and mature biomass from 2019, while the remainder of the survey areas had a decrease in abundance. Compared to historical levels in most areas (with the exception of Juneau and Lynn Sisters) CPUE of juvenile and females' size and sex classes are at below average levels. Overall, recruitment, in the form prerecruit CPUE, is significantly below average levels for six of the seven surveys areas, with only Lynn Sisters at the long-term average for prerecruit CPUE, suggesting that regionwide improvements to mature and legal male biomass are still underway.

Additional information may be found in regulation 5 AAC 34.113. SOUTHEAST ALASKA RED KING CRAB MANAGEMENT PLAN on page 17 of the 2020–2021 King and Tanner Crab Commercial Fishing Regulations booklet available in area offices, or online at: <http://www.adfg.alaska.gov/index.cfm?adfg=fishregulations.commercial>.

The Emergency Order corresponding with this announcement is EO 1C1820.

Under Alaska’s Health Mandates 10, 17, and 18, commercial fishing is an Essential Business and is part of Alaska’s Essential Services and Critical Infrastructure. Commercial fishermen should ensure that all travel and other activities in support of commercial fishing operations follow protocols in Alaska COVID-19 Health Mandates. COVID-19 Health Mandates may be found here: <https://gov.alaska.gov/home/covid19-healthmandates/>.

Advisory announcement web site: <http://www.adfg.alaska.gov/index.cfm?adfg=cfnews.main>.

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