



THE STATE  
of **ALASKA**  
GOVERNOR SEAN PARNELL

**RC 66**  
**Department of**  
**Fish and Game**

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TO: Karl Johnstone, Chair  
Alaska Board of Fisheries

DATE: March 19, 2014

THRU: Jeff Regnart, Director  
Division of Commercial Fisheries

SUBJECT: Petition to allow  
dip nets in  
Kuskokwim River  
subsistence fishery  
during times of king  
salmon conservation

FROM: John Linderman, Region III Regional Supervisor  
Division of Commercial Fisheries

This letter provides Alaska Department of Fish and Game (department) staff assessment of a petition received from the Kuskokwim River Salmon Management Working Group on March 3, 2014 to the Alaska Board of Fisheries (board) to consider an emergency action out of cycle.

### **Action Requested**

This petition requests the board to add dip nets as legal subsistence gear for the taking of salmon other than king salmon in the Kuskokwim River during times of king salmon conservation.

### **Background**

Longstanding regulations in the Kuskokwim Management Area allow for salmon to be taken for subsistence purposes by gillnet, beach seine, a hook and line attached to a rod or pole, handline, or fish wheel. Gillnets are the primary gear type used in the Kuskokwim River subsistence salmon fishery. During times of king salmon conservation gillnet mesh size may not exceed six inches and fish wheels must be equipped with a live box. All king salmon caught in fish wheel live boxes, beach seine gear, and with hook and line attached to a rod or pole must be returned to the water alive.

In January 2013, the board adopted a new Kuskokwim River Salmon Management Plan (management plan) that further allows the department to restrict gillnet mesh size to four inches or less until sockeye and chum salmon abundance exceeds king salmon abundance. Another provision in the management plan allows the department to establish fishing periods during which king salmon may be harvested only by persons 60 years of age or older when the surplus of king salmon is limited.

Since 2010, the Kuskokwim River has experienced poor king salmon returns and average to above average sockeye and chum salmon returns. Total run estimates for Kuskokwim River king salmon in 2010, 2012, and 2013 are the three lowest on record. Escapements in 2010 and 2013 were below the Kuskokwim River drainagewide escapement goal that was established in 2013 and the majority of tributary escapement goals were not met in these years. A combination of salmon fishing closures and restrictions limiting the use of gillnets to six inch or less mesh size were implemented by emergency order in 2011 and 2012. In 2013 subsistence salmon fishing in the river was open all season, but gillnets were restricted to six inch or less mesh size by emergency order.

Subsistence harvests of king salmon from the Kuskokwim River in 2011, 2012, and 2013 were below amounts reasonably necessary for subsistence uses (ANS) as a result of the low returns and subsistence fishing restrictions. While subsistence fishing restrictions in 2011 and 2012 reduced fishing opportunity for sockeye and chum salmon in the river, ANS was met for these species in each year. It is possible Kuskokwim River subsistence fishermen may increase harvest of chum and sockeye salmon when the king salmon subsistence fishery is severely restricted. In 2012, a year of severe subsistence restrictions, Kuskokwim River king salmon harvest was 72% below average, whereas chum and sockeye salmon harvests were 27% and 6% above average, respectively.

The 2014 Kuskokwim River king salmon run is expected to be similar to 2013, which was the lowest on record. The management expectation is to close the subsistence king salmon fishery and reduce incidental harvest of king salmon to a level that would allow for achievement of escapement goals. Due to overlapping run timing of sockeye and chum salmon with king salmon, subsistence fishing opportunity for these species in the river is also expected to be significantly reduced.

Dip nets were allowed in Yukon River districts 1 and 2 in 2013 to provide harvest opportunity on surplus summer chum salmon in the subsistence and commercial fisheries while conserving king salmon. The use of dip net gear accounted for approximately 188,000 summer chum salmon harvested in the district 1 and 2 commercial fisheries that would have otherwise not occurred. Relatively minimal impacts to king salmon were observed in this fishery, and approximately 900 king salmon were reported as released alive from dip nets during commercial fishing periods. Concurrent subsistence fishing opportunity using dip nets in lower Yukon River districts provided additional harvest opportunity that would have otherwise not occurred.

Based on the successful implementation of dip net gear in lower Yukon River salmon fisheries, dip nets have the potential to increase harvest of sockeye and chum salmon in the Kuskokwim River subsistence fishery. Because impacts to king salmon would be expected to be minimal using dip net gear, additional fishing opportunity could be provided in the Kuskokwim River using this gear to harvest chum and sockeye salmon earlier in the season. It would be critical that any gear specifications and operations allow king salmon to be safely and easily returned to the water alive.

### **Subsistence Proposal Policy**

Under criteria listed in the Subsistence Proposal Policy used to consider petitions directed at subsistence hunting or fishing, paragraph (a) of 5 AAC 96.615 reads, in pertinent part:

...1) the proposal must address a fish or game population that has not previously been considered by the board for identification as a population customarily and traditionally used for subsistence under AS 16.05.258; or

2) the circumstances of the proposal otherwise must require expedited consideration by the board, such as where the proposal is the result of a court decision or is the subject of federal administrative action that might impact state game management authority.

The circumstances of this petition may require expedited consideration by the board. Since Kuskokwim River king salmon run timing overlaps up to 80 percent of the sockeye salmon run and 60 percent of the chum salmon run, subsistence salmon fishing closures in 2014 directed at the conservation of king salmon are expected to impact the level of harvest and opportunity on a biologically allowable surplus of chum and sockeye salmon. The next Arctic–Yukon–Kuskokwim board meeting is scheduled for 2015/2016, which is two fishing seasons from now.

### **Summary**

Abundance of Kuskokwim River king salmon has been very low for several years and is not expected to change in the near term. Subsistence fishing opportunity for sockeye and chum salmon will be reduced in the river as a result of king salmon conservation. Allowing dip net gear during times of king salmon conservation would allow for increased opportunity to harvest chum and sockeye salmon.

cc: Cora Campbell, Commissioner  
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