

PROPOSAL 183

5 AAC 85.045(18). Hunting seasons and bag limits for moose.

Reauthorize the antlerless moose seasons in Unit 20A as follows:

Units and Bag Limits	Resident Open Season Subsistence and General Hunts	Nonresident Open Season
(18)		
Unit 20(A), the Ferry Trail Management Area, Wood River Controlled Use Area, and the Yanert Controlled Use Area		
RESIDENT HUNTERS:		
...		
1 antlerless moose by drawing permit only; up to 2,000 permits may be issued in combination with the Remainder of Unit 20(A); a person may not take a cow accompanied by a calf; or	Aug. 15–Nov. 15	
1 antlerless moose by registration permit only; a person may not take a cow accompanied by a calf; or	Oct. 1–last day of Feb.	
...		
1 moose by targeted permit only; by shotgun, crossbow, or bow and arrow only; up to 100 permits may be issued	Season to be announced by emergency order	
...		
Remainder of Unit 20(A)		

RESIDENT HUNTERS:

...

Units and Bag Limits	Resident Open Season Subsistence and General Hunts	Nonresident Open Season
1 antlerless moose by drawing permit only; up to 2,000 permits may be issued in combination with Unit 20(A), the Ferry Trail Management Area, Wood River Controlled Use Area, and the Yanert Controlled Use Area; a person may not take a cow accompanied by a calf; or	Aug. 15–Nov. 15	
1 antlerless moose by registration permit only; a person may not take a cow accompanied by a calf; or	Aug. 25– last day of Feb.	
...		
1 moose by targeted permit only; by shotgun, crossbow, or bow and arrow only; up to 100 permits may be issued	Season to be announced by emergency order	
...		

What is the issue you would like the board to address and why? Antlerless moose hunting seasons must be reauthorized annually. Antlerless hunts are important for maintaining the moose population at levels that the habitat can support. Antlerless hunts also help regulate moose population growth, help to meet Intensive Management (IM) objectives for high levels of harvest, and provide subsistence hunters with a reasonable opportunity to pursue moose for subsistence uses without reducing bull-to-cow ratios.

If antlerless moose hunts are not reauthorized, the moose population could increase to levels beyond the ability of the habitat to support the moose population. Allowing the population to grow beyond what the habitat can support may require the population to be reduced dramatically to avoid long term habitat damage. Opportunity to hunt a harvestable surplus of cow moose would be lost, and the ability to meet IM harvest objectives could be compromised. Subsistence hunters in the portion of Unit 20A outside the Fairbanks Nonsubsistence Area (part of the western Tanana Flats) may not have a reasonable opportunity to pursue moose for subsistence uses.

Reauthorizing antlerless moose hunts will allow hunting opportunity and harvest to increase and allow the Department of Fish and Game to manage the moose populations at an optimum level. The additional harvest will help in meeting IM harvest objectives without reducing bull-to-cow ratios to low levels. Meat and subsistence hunters will benefit from the opportunity to harvest

cow moose. Moose populations will benefit by maintaining moose densities at a level compatible with their habitat. Motorists and residents may benefit from reduced moose–vehicle collisions and moose–human conflicts.

The current objective is to maintain moose numbers within the IM population objective of 10,000–15,000 moose, while monitoring indicators of moose and habitat condition for positive density-dependent responses. The Unit 20A population was estimated at 9,581–13,959 moose (90% confidence interval) in 2019. This estimate falls within the IM population objective. The department does not want the population to further increase because of concerns density effects. The department will monitor Unit 20A calves for twinning rates below 20% and short yearling weights below 400 pounds to detect density dependent issues. Therefore, the intention is to harvest moose at a rate of 1% of the population which has been shown to stabilize the moose population at its current level. Antlerless harvest will be by drawing permits for a majority of Unit 20A and a registration permit outside the nonsubsistence area in northwest Unit 20A near Nenana. The harvest objective will be based on the most recent survey results.

The number of moose in Unit 20A was estimated at 17,768 (2.6 moose/mi²) in 2003. Research indicated this high-density moose population was experiencing density-dependent effects, including low productivity, relatively light calf weights, and high removal rates of winter forage. The objective beginning in regulatory year 2004–2005 (RY04) was to reduce moose numbers to the population objective of 10,000–12,000 moose (1.5–1.8 moose/mi²) unless indicators of moose condition showed signs of improvement at higher densities. In 2016, the Board of Game adopted the IM population objective of 10,000–15,000 moose and the 2019 population estimate is within the IM objective.

PROPOSED BY: Alaska Department of Fish and Game

(HQ-F20-038)
