

Course- WL 703, Principles of Wildlife Management

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4th Lecture

Managing Resources With Tools

Resource managers can use hunting tools to control resources. Because of this, less efficient hunting tools such as black powder rifles and bows have separate seasons in certain Game Management Units.

This example demonstrates that more efficient hunting tools limit hunting opportunities.

- Hunters in Alaska can use a center fire rifle, muzzle loading rifle, bow (crossbow), or handgun to take big game.
 - The center fire rifle may be able to take a caribou or moose at 200 yards.
 - The muzzle loading rifle is only effective to about 100 yards.
 - A bow hunter must be within 15 to 30 yards of the game for a successful hit.
 - This means that the hunter with the center fire rifle is more likely to succeed than either of the other hunters.
- As an example, a resource manager may determine that 25 moose may be removed from the herd.
 - The manager knows that about 25 out of 100 center fire rifle hunters will succeed.

- The muzzle loading hunters will be less successful—it may take 125 hunters to take the same 25 moose.
- The numbers taken by bow hunters will be even smaller, so perhaps even 250 bow hunters could hunt the same game.
- More hunters can hunt when a hunting tool is more difficult to use.
- This means a more efficient hunting tool results in fewer hunting opportunities.