

# CGR 458

- Black Powder Substitute Confusion
- Electronic Triggers (smart rifles)
- Caliber & Cartridge Length

# Black Powder Substitute vs. Smokeless Powder

- NAC 503.142(1) Prior to 2014:
- During a type of hunt that is restricted to muzzle-loading firearms, a person may hunt a big game mammal only... The use of smokeless powder is prohibited. Only black powder or a black powder substitute such as Pyrodex or Triple 7 may be used...

## ***Firearm powder basics:***

- **Black-powder/Black-powder substitute propellants = carbon + potassium nitrate + sulfur:**
  - Traditional black powders are carbon based propellants (example: charcoal).
  - “Black powder substitutes” like Triple 7 and Pyrodex are carbon based propellants.
  - Basically these propellants have a carbon-based fuel (charcoal or sugar) + potassium nitrate (oxidizer for oxygen transfer) + sulfur (stabilizing agent).
    - Carbon = fuel/reducing agent
    - Sulfur = stabilizer/catalyst/rate of combustion
    - Potassium nitrate (KNO<sub>3</sub>) = ionic salt of potassium ions (K) + nitrate ions (NO<sub>3</sub>) - a nitrogen atom surrounded by 3 oxygen atoms providing oxygen for reaction.
    - Approximately 10% sulfur – 15% carbon – 75% potassium nitrate.
  - Less efficient than smokeless powders (approximately 50% unburned).
  - These are all **lawful** propellants in Nevada during the muzzle-loading only season per NAC 503.142.
- **Smokeless powder propellants = nitro cellulose/nitrate ester + stabilizer:**
  - Nitrocellulose propellants are the “smokeless” powder propellants.
  - Provides own oxygen for reaction.
  - 2 types generally for firearms: Nitrocellulose (single based), nitroglycerin + nitrocellulose (double based). Third type “nitroguanidine” generally used in larger munitions (cannons).
  - Burn rate based on size of granules.
  - Smokeless powders are **prohibited** propellants in Nevada during the muzzle-loading only season per NAC 503.142.

## ***Blackhorn 209:***

- Blackhorn 209 is a nitrocellulose (nitrate ester) based propellant.
- Blackhorn 209 Manufacturer Safety Data Sheet (MSDS) shows that it is nitrocellulose (nitrate ester) based propellant with additional stabilizer, oxidizer and carbonaceous substance added.
  - Nitro/oil solvent required for cleaning rather than soap and water.
  - Burns clean like all smokeless powders with 25+ shots before barrel cleaning needed.
- ***Blackhorn 209 is a nitrocellulose based propellant and therefore a smokeless powder and unlawful for use during the “muzzle-loading only” season per NAC 503.142 (1).***



Brian Sandoval  
Governor

STATE OF NEVADA  
**DEPARTMENT OF WILDLIFE**

1100 Valley Road  
Reno, Nevada 89512  
(775) 688-1500 • Fax (775) 688-1551

KENNETH E. MAYER  
Director

RICHARD L. HASKINS, II  
Deputy Director

PATRICK O. CATES  
Deputy Director

July 26, 2011

**Muzzle-loading only tag holders:**

The Department has recently received numerous questions regarding the use of Blackhorn 209 during the muzzle-loading only season. Per NAC 503.142 (1) only black-powder or a black-powder substitute such as Pyrodex or Triple 7 may be used as a propellant. The use of smokeless powder is prohibited.

Black-powder and black-powder substitutes are carbon based propellants. Smokeless powders are nitrocellulose based propellants. *Blackhorn 209 has nitrate ester (nitrocellulose) as a base propellant and is therefore a smokeless powder and prohibited during the muzzle-loading only season.*

Due to the volume of questions and uncertainty the Department is sending this letter to all muzzle-loading only tag holders for the 2011 season. If you have any questions please contact Captain Cameron Waithman at (775)-688-1547.

Congratulations on drawing a tag and we wish you a safe and successful hunt.

Sincerely,

A handwritten signature in blue ink, appearing to read "Robert W. Buonamici".

Robert W. Buonamici  
Chief Game Warden0

RWB/cjw/jt

# Black Powder Substitute vs. Smokeless Powder

- ▣ Then in June 2014, the NBWC took action to strike the brand names from the regulation.
- ▣ NAC 503.142(1) During a type of hunt that is restricted to muzzle-loading firearms, a person may hunt a big game mammal only... The use of smokeless powder is prohibited. Only black powder or a black powder substitute ~~such as Pyrodex or Triple 7~~ may be used...

# Black Powder Substitute vs. Smokeless Powder

- NAC 503.142(1) During a type of hunt that is restricted to muzzle-loading firearms, a person may hunt a big game mammal only... ~~The use of smokeless powder is prohibited.~~ Only black powder or a black powder substitute ~~such as Pyrodex or Triple 7~~ may be used...

# Black Powder Substitute vs. Smokeless Powder

- NAC 503.142(1) During a type of hunt that is restricted to muzzle-loading firearms, a person may hunt a big game mammal only... ~~The use of smokeless powder is prohibited.~~ Only black powder or a black powder substitute ~~such as Pyrodex or Triple 7~~ may be used as a propellant, *except that smokeless powder may be used as a black powder substitute if the muzzle-loading rifle or muzzle-loading musket is specifically designed for its use.*

# Electronic Triggers/Smart Rifles

- A laser-controlled, computerized scope and rifle combination that adjusts itself to a precise aiming point. The shooter “paints” the target with a laser where he wants his bullet to impact and then holds the trigger down. When the crosshairs get close to the laser point, the rifle adjusts and fires itself. Tracking Point claims this self adjustment to be precise to within half an inch at over a mile on targets moving up to 30 mph on some of their models.



# Cartridge Length and Caliber



# Cartridge Length and Caliber



We had brought the Barrett that trip too...just in case! We had it set up on a burn area and could see for 1200-1400 yards...nothing stepped out in the kill zone.



# Cartridge Length and Caliber



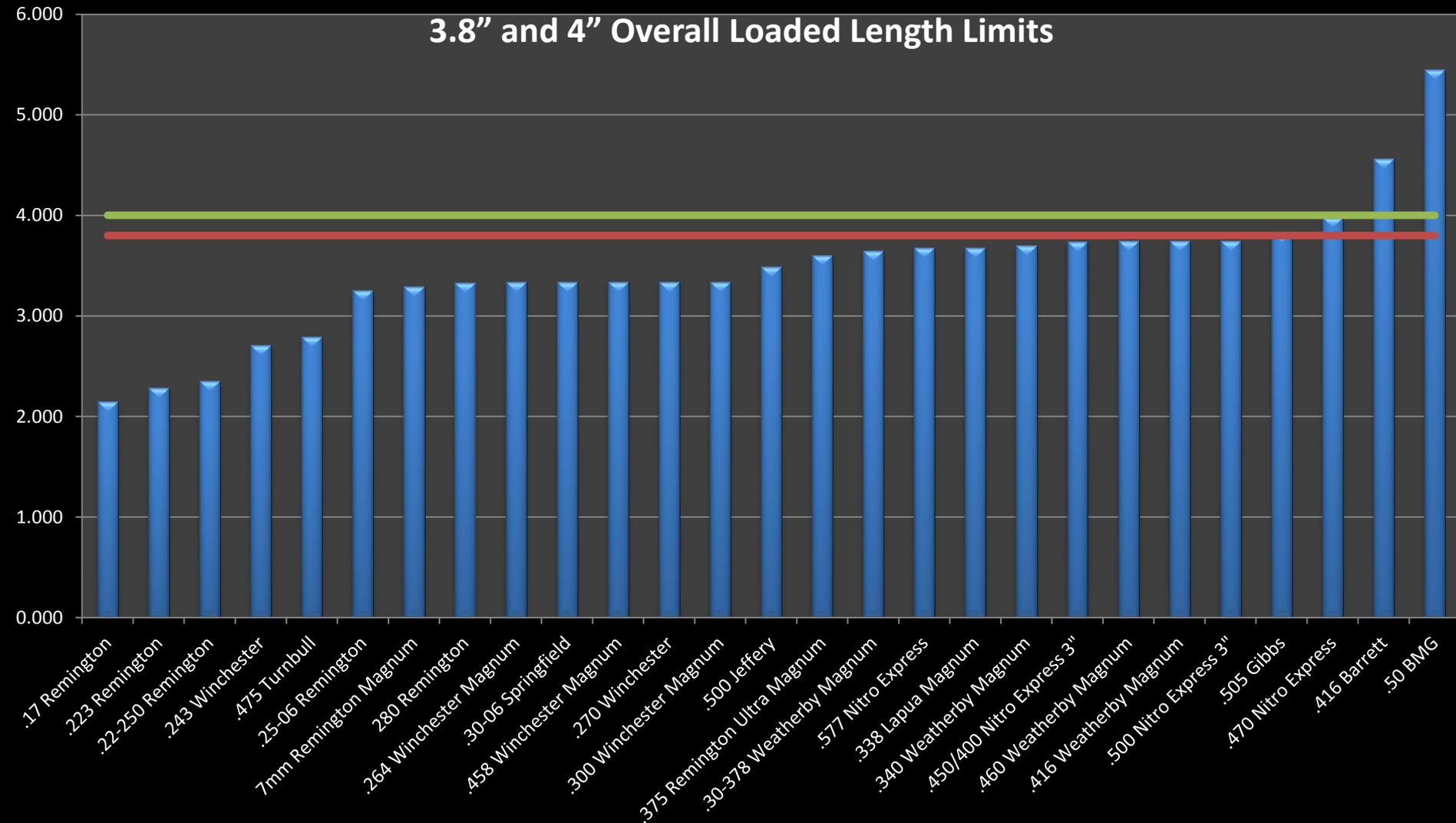
# Cartridge Length and Caliber



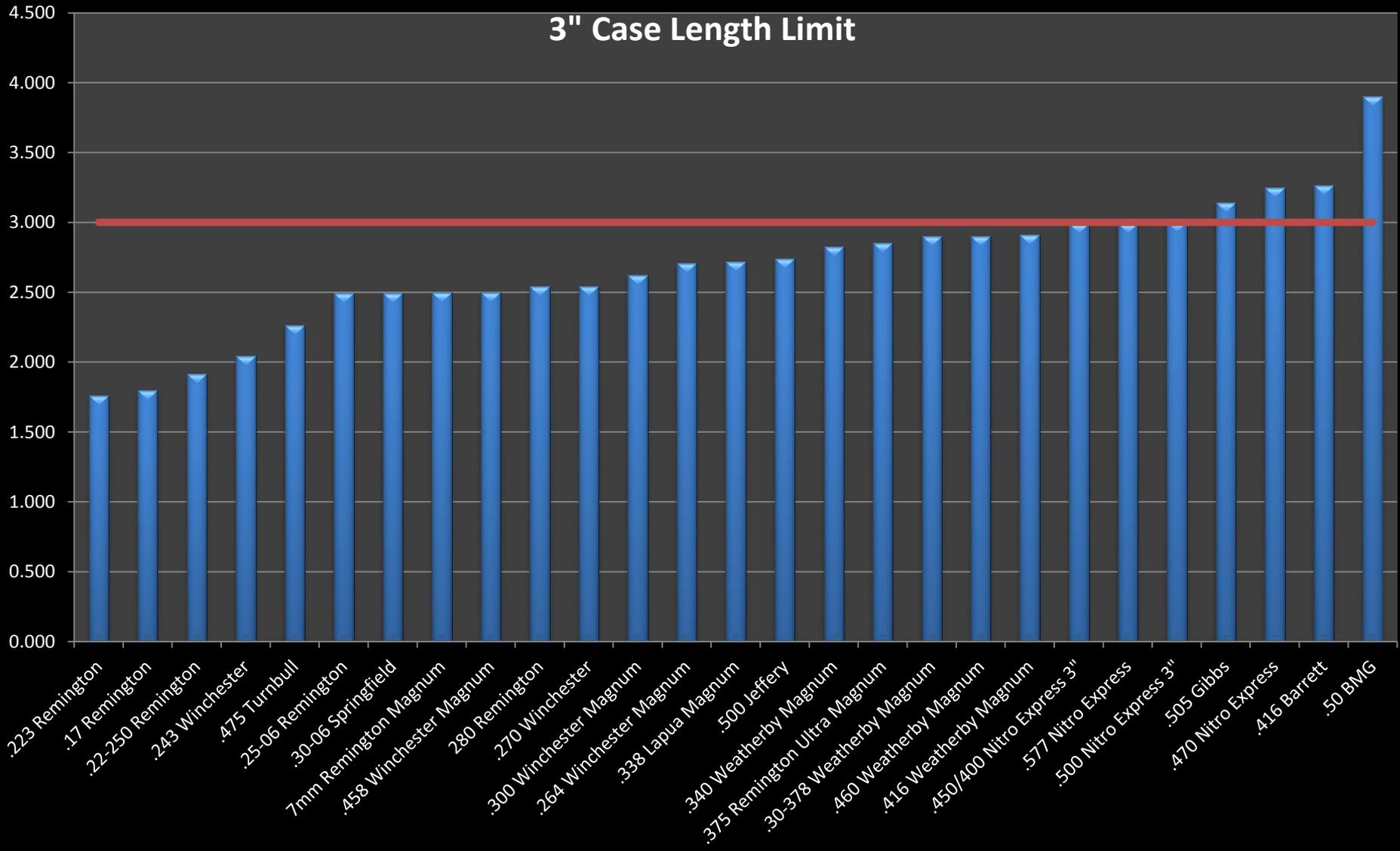
# Cartridge Length and Caliber



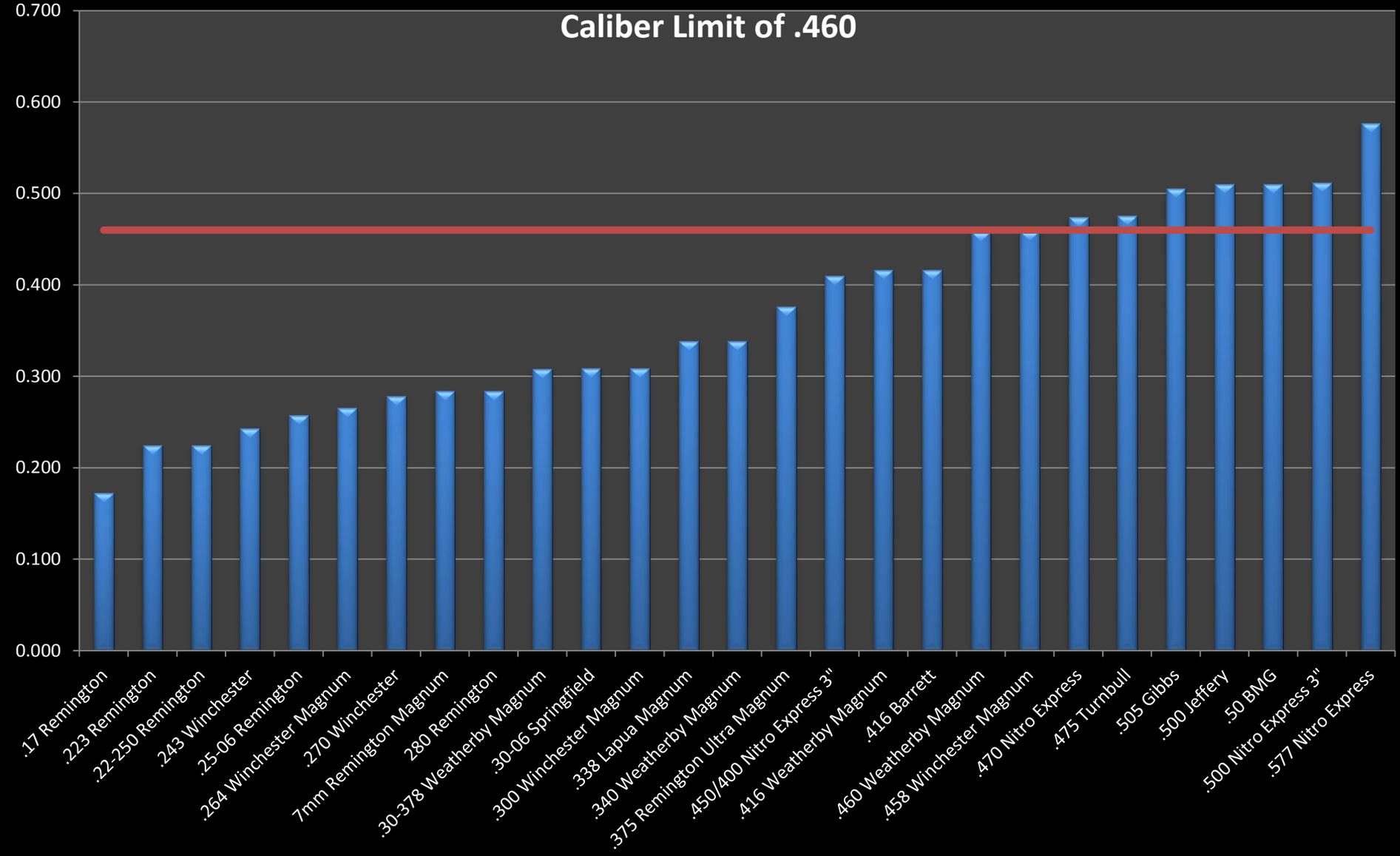
## 3.8" and 4" Overall Loaded Length Limits



### 3" Case Length Limit



# Caliber Limit of .460



A soldier in a desert environment is operating a mounted machine gun. The soldier is wearing a helmet and a dark jacket, and is positioned behind the gun. The machine gun is mounted on a tripod and has a long barrel. The background shows a flat, arid landscape under a clear sky.

**A WISE MAN ONCE SAID,  
"NEVER START AN ARGUMENT WITH A MAN  
WHO CAN END YOU FROM ANOTHER ZIP CODE"**

# CGR 459

- Clarification of Language to Include Unmanned Aerial Vehicles in Aerial Hunting/Scouting Regulation
- Time Frame Options:
  - 48 Hour Provision vs.
  - Year-Round Prohibition vs.
  - Calendar Date Closure Aug. 1 – Dec. 31

**NAC 503.148 Use of aircraft, hot air balloons, satellites or other devices. (NRS 501.105, 501.181)**

1. Except as otherwise provided in this section, a person shall not, for the purpose of hunting, locate or observe, or assist a person in locating or observing, any big game mammal in a management unit described in NAC 504.210 during the period beginning 48 hours before a big game hunting season opens until the close of the season in that management unit with the use of:

- (a) An aircraft, including, without limitation, any device that is used for navigation of, or flight in, the air;
- (b) A hot air balloon or any other device that is lighter than air;
- (c) *A drone or unmanned aerial vehicle; or*
- (d) A satellite or any other device that orbits the earth and is equipped to produce images.

2. For the purposes of subsection 1, the season for hunting a mountain lion which is open in a management unit shall be deemed not to be a big game hunting season during the period beginning after the big game hunting season for all other species of big game has closed in that management unit until the period beginning 48 hours before the opening of a big game hunting season established for hunting any other species of big game in that management unit.

**NAC 503.148 Use of aircraft, hot air balloons, satellites or other devices. (NRS 501.105, 501.181)**

1. Except as otherwise provided in this section, a person shall not, for the purpose of hunting, locate or observe, or assist a person in locating or observing, any big game mammal in a management unit described in NAC 504.210 ~~[during the period beginning 48 hours before a big game hunting season opens until the close of the season in that management unit]~~ with the use of:

- (a) An aircraft, including, without limitation, any device that is used for navigation of, or flight in, the air;
- (b) A hot air balloon or any other device that is lighter than air;
- (c) *A drone or unmanned aerial vehicle; or*
- (d) A satellite or any other device that orbits the earth and is equipped to produce images.

~~[2.—For the purposes of subsection 1, the season for hunting a mountain lion which is open in a management unit shall be deemed not to be a big game hunting season during the period beginning after the big game hunting season for all other species of big game has closed in that management unit until the period beginning 48 hours before the opening of a big game hunting season established for hunting any other species of big game in that management unit.]~~

**NAC 503.148 Use of aircraft, hot air balloons, satellites or other devices. (NRS 501.105, 501.181)**

1. Except as otherwise provided in this section, a person shall not, for the purpose of hunting, locate or observe, or assist a person in locating or observing, any *wildlife big game mammal* in a management unit described in NAC 504.210 ~~[during the period beginning 48 hours before a big game hunting season opens until the close of the season in that management unit]~~ with the use of:

- (a) ~~An~~ *Any* aircraft, including, without limitation, any device that is used for navigation of, or flight in, the air;
- (b) A hot air balloon or any other device that is lighter than air;
- (c) *A drone or unmanned aerial vehicle; or*
- (d) A satellite or any other device that orbits the earth and is equipped to produce *real time* images.

~~[2.—For the purposes of subsection 1, the season for hunting a mountain lion which is open in a management unit shall be deemed not to be a big game hunting season during the period beginning after the big game hunting season for all other species of big game has closed in that management unit until the period beginning 48 hours before the opening of a big game hunting season established for hunting any other species of big game in that management unit.]~~

**NAC 503.148 Use of aircraft, hot air balloons, satellites or other devices. (NRS 501.105, 501.181)**

1. Except as otherwise provided in this section, a person shall not, for the purpose of hunting, locate or observe, or assist a person in locating or observing, any *wildlife* ~~big game mammal~~ in a management unit described in NAC 504.210 ~~[during the period beginning 48 hours before a big game hunting season opens until the close of the season in that management unit]~~ *from a period beginning August 1<sup>st</sup> and ending December 31<sup>st</sup>* with the use of:

- (a) ~~An~~ *Any* aircraft, including, without limitation, any device that is used for navigation of, or flight in, the air;
- (b) A hot air balloon or any other device that is lighter than air;
- (c) *A drone or unmanned aerial vehicle; or*
- (d) A satellite or any other device that orbits the earth and is equipped to produce *real time* images.

~~[2. For the purposes of subsection 1, the season for hunting a mountain lion which is open in a management unit shall be deemed not to be a big game hunting season during the period beginning after the big game hunting season for all other species of big game has closed in that management unit until the period beginning 48 hours before the opening of a big game hunting season established for hunting any other species of big game in that management unit.]~~

# CGR 440



TRAIL CAMERAS



2018-11-08 2:10:11 PM N 1/5 63°F



RC50 COVERT

11/08/18

- 1. Except as otherwise provided in this section, a person shall not, for the purpose of hunting, locate or observe, or assist another person to locate or observe, any big game mammal in a management unit described in NAC 504.210 during the period beginning August 1 and ending December 31 of each year with the use of a trail camera, including, without limitation, any device that is not held or manually operated by a person and that is used to capture images or video using a heat or motion detector to trigger the device.*
- 2. A person shall not place any device described in subsection 1 within 200 feet of:*
  - (a) A spring;*
  - (b) A water hole; or*
  - (c) An artificial basin which is used by wildlife and collects, or is designed and constructed to collect, water.*
- 3. Evidence of an act constituting a violation of this section includes, without limitation, any image or video of a big game mammal captured by any device described in subsection 1 that:*
  - (a) Is stored on the device; or*
  - (b) Has been transferred to a viewing device at another location.*
- 4. The provisions of this section do not apply to a person who is acting within the scope of his or her official duties and who is:*
  - (a) An employee or authorized agent of this State;*
  - (b) An employee of a municipal or county government of this State; or*
  - (c) An employee of the Federal Government.*