

# Approved Ammunition and Bullets for Grand Canyon National Park Bison Removal

All rifles must be chambered for centerfire cartridges of **.30 caliber (7.62mm) or larger, and all bullets must be 165 grains or heavier.**

All cartridges must be bottle-necked; no straight-walled cartridges are accepted.

**All bullets used for lethal removal of bison are required to be non-lead.** No bullets with any type of lead core will be accepted.

All bullets must be expanding monolithic bullets. Bullets designed for large species with controlled fracturing will also be acceptable. Frangible, or jacketed powder-core bullet designs are **not** acceptable even when non-lead.

Keep in mind that ammunition producing 2500 foot-pounds of energy at the muzzle should be considered the minimum for ethical bison removal. Although some cartridges may meet the caliber and bullet-weight requirements, they would still not be a good choice for bison if they cannot produce enough energy.

## **Factory loaded ammunition:**

- All currently approved factory loaded ammunition can be found in Table 1;
- Only factory loaded ammunition that matches both the brand-line *and* the loaded bullet listed, qualifies for use;
- Only the ammunition brand-lines listed in Table 1 for a listed manufacturer are approved;
- Listed ammunition brand-lines are only approved when loaded with the listed bullet types;
  - Note: some ammunition lines may have multiple bullet load options from the factory but only the non-lead bullets on this list are approved.

## **Hand-loads or Custom-loads:**

- All currently approved component bullets can be found in Table 2;
- Hand or custom loads are allowed as long as manufacturer guidelines have been followed and loaded with bullets listed in Table 2.

## **Additional Information**

As bullet technology is constantly changing these lists are not exhaustive, but they are fairly comprehensive as of February 2021. If you have a bullet or ammunition load you think fits the approved criteria, contact Grand Canyon at [GRCA\\_bison\\_info@nps.gov](mailto:GRCA_bison_info@nps.gov) to apply for a waiver.

All shooters will be required to qualify with ammunition chosen from the approved types listed. Shooters will need to bring the factory-loaded ammunition box, or if handloads, the label from the component bullet box to confirm they are using an approved bullet type.

We highly recommend testing new non-lead ammunition the same way you would any new ammunition. You may need to re-zero your scope for a new point of impact. You should know the new ballistics and adjustments for your rifle and particular ammunition for the wide variety of expected shot distances, elevations, and atmospheric conditions possible during this project. The more time you spend practicing, the more likely you are to pass the rifle proficiency qualification.

If you have questions about non-lead bullets, appropriate muzzle energy or muzzle velocity, or would like more information about how to switch to non-lead ammunition, these resources are available:

- NPS wildlife biologists at [GRCA\\_bison\\_info@nps.gov](mailto:GRCA_bison_info@nps.gov)
- <http://huntingwithnonlead.org>
- <https://www.oregonzoo.org/conserve/non-lead-hunting-education-program>
- [www.nonleadpartnership.org](http://www.nonleadpartnership.org)

Availability of non-lead ammunition has been affected the same as all other ammunition due to the recent increase in demand across the country. Although manufacturers are producing ammunition in record quantities, demand still outweighs supply and many vendors have backorders and shipping delays of a month or more. Consider purchasing new ammunition as soon as possible.

# Non-Lead Bullets & Ammunition

These online retailers are some of the many sources to find non-lead bullets and ammunition

[www.cheaperthandirt.com](http://www.cheaperthandirt.com)

[www.midwayusa.com](http://www.midwayusa.com)

[www.ganderoutdoors.com](http://www.ganderoutdoors.com)

[www.sportsmans.com](http://www.sportsmans.com)

[www.ableammo.com](http://www.ableammo.com)

[www.cabelas.com](http://www.cabelas.com)

[www.brownells.com](http://www.brownells.com)

[www.midsouthshootersupply.com](http://www.midsouthshootersupply.com)

Search multiple retailers with an ammunition search engine

[ammoseek.com](http://ammoseek.com)

[ammobuy.com](http://ammobuy.com)

Custom loaded ammunition retailers can build specialized precision loads with non-lead bullets

**Precise Ammunition**

[www.preciseammunition.com](http://www.preciseammunition.com)

**Custom Cartridge**

[www.customcartridge.com](http://www.customcartridge.com)

**Superior Ammo**

[www.superiorammo.com](http://www.superiorammo.com)

**Colorado Custom Cartridge**

[www.coloradocustomcartridges.com](http://www.coloradocustomcartridges.com)

## Table 1: Approved Factory Ammunition

Updated February 2021

Manufacturer	Ammo Line	Bullet	Cartridges
Barnes	VOR-TX	TSX	9.3x62mm
Barnes	VOR-TX	TTSX	.308 Win, 30-06 Sprg, 300 WSM, 300 Win Mag, 300 RUM, 300 Wby Mag, .338 Win Mag, .35 Whelen
Barnes	VOR-TX	LRX	.338 Lapua Mag
Barnes	VOR-TX LR	LRX	.30-06 Sprg, .300 Win Mag, .300 RUM, .338 RUM, .375 RUM
Barnes	VOR-TX Safari	TSX	.375 H&H, .416 Rem Mag, .416 Rigby, .470 Nitro
Barnes	VOR-TX Euro	TTSX	.308 Win, .30-06 Sprg, 8x57 JS, 9.3x62mm
Black Hills	Gold	TSX	.308 Win, .30-06 Sprg, .300 Win Mag
Black Hills	Gold	GMX	.308 Win, .30-06 Sprg, .300 Win Mag
Browning	Rifle	BXS	.308 Win, .30-06 Sprg, .300 Win Mag, .300 WSM

<b>Buffalo Bore</b>	Buffalo-Barnes	TSX	.308 Win, .30-06 Sprg, .300 Win Mag, .338 Win Mag, .358 Win, .35 Whelen, .375 H&H, .375 Ruger
<b>Buffalo Bore</b>	Dangerous Game	TSX	.416 Ruger, .416 Rem
<b>CorBon</b>	DPX Hunter	T-DPX	.30-06 Sprg, .300 Win Mag, .308 Win, .300 Wby*, .300 RUM* .338 Lapua Mag, .338 RUM, .338 Win Mag, .340 Wby, .375 RUM, .375 H&H*, .458 SOCOM
<b>Choice Ammunition</b>	Choice	TTSX	.30-06 Sprg, .300 Win Mag, .300 Wby, .300 Norma Mag, .300 WSM, .308 Win, .300 H&H, .338 Lapua Mag, .35 Whelen, .338 Win, .348 Win, .375 H&H, .375 Ruger
<b>Choice Ammunition</b>	Choice	TSX	.375 H&H, .375 Ruger, .416 Rem Mag, .416 Rigby, .458 Lott, .470 Nitro
<b>Choice Ammunition</b>	Choice	LRX	.375 H&H
<b>DoubleTap Ammunition</b>	DT Hunter* DT Lead Free	TSX	.325 WSM, .358 Win, .375 H&H, .375 RUM, .375 Ruger, 7.62x39 Rus, 7.62x54 Rus, 8mm Rem Mag
<b>DoubleTap Ammunition</b>	DT Hunter* DT Lead Free	TTSX	.300 RUM, .300 Savage, .300 Wby Mag, .300 WSM, .308 Win, .325 WSM, .338 Fed, .338 Win Mag, .358 Norma Mag, .358 Win, .375 H&H, 8mm Rem Mag
<b>DoubleTap Ammunition</b>	DT Hunter* DT Lead Free	MRX	.338 Fed, .338 RUM
<b>DoubleTap Ammunition</b>	DT Safari* DT Lead Free	TSX	.375 H&H, .375 Ruger, .404 Jeff, .416 Rem Mag, .416 Rigby, .416 Ruger, .416 Taylor, 9.3x62 Mauser
<b>Engel Ballistic Research</b>	EBR Hunting	MAX Expander	.308 Win, .300 Win Mag
<b>Federal</b>	Vital-Shok*	Trophy Copper	.308 Win, 30-06 Sprg, 300 H&H, 300 Win Mag, 300 WSM, 300 Wby Mag, 300 RUM, 338 Fed, 338 Win Mag.
<b>Federal</b>	Cape-Shok*	TSX	9.3x62 Mauser, 9.3x74R, 370 Sako Mag, 375 H&H Mag, 416 Rigby, 416 Rem Mag, 470 Nitro Exp
<b>Federal</b>	Premium Centerfire	Trophy Copper	.308 Win, 30-06 Sprg, .300 WSM, .300 Win Mag, .338 Fed, .338 Win Mag, .338 Lapua Mag
<b>Federal</b>	Premium Centerfire	TSX	.308 Win, 30-06 Sprg, .300 WSM, .300 Win Mag
<b>Federal</b>	Power-Shok	Copper HP	.308 Win, .30-06 Sprg, .300 Win Mag, .300 WSM, 8mm Mauser, .338 Fed, .375 H&H mag
<b>Hornady</b>	Superformance	GMX	.308 Win, 30-06 Sprg, 300 WSM, 300 Win Mag
<b>Hornady</b>	Superformance International	GMX	.308 Win, 30-06 Sprg, 300 Win Mag, 8x57 JS, 9.3x62
<b>Hornady</b>	Outfitter	GMX	.308 Win, 30-06 Sprg, 300 WSM, 300 Win Mag, 300 Wby Mag, 300 RUM, 338 Win Mag, 375 Ruger, 375 H&H Mag
<b>Hornady</b>	Full Boar	GMX	.308 Win, 30-06 Sprg, 300 Win Mag
<b>HSM</b>	Lead Free	TSX	.30-06 Sprg, .300 SAUM, .300 Win Mag, .300 WSM, .308 Win, .325 WSM, .350 Rem Mag, 7.62x39 Rus, 8mm Maus, 8mm Rem Mag
<b>International Cartridge Company</b>	ICC Hunting	TTSX	30-06 Sprg, .300 Win, .308 Win
<b>Lapua</b>	Lapua Hunting	Naturalis	.308 Win, .30-06 Sprg, 8x57 IRS, 8x57 IS, .338 Lapua Mag, 9.3x62mm

<b>Lehigh Defense</b>	Rifle	Controlled Chaos	.308 Win
<b>Lehigh Defense</b>	Rifle	Controlled Fracturing	.375 JDJ, .375 Ruger, .458 SOCOM
<b>Nosler</b>	Trophy Grade or E-tip Ammunition	E-Tip	7.62x39, 308 Win, 30-06 Sprg, 300 Win Mag, 300 H&H Mag, 30 Nosler, 300 RUM, 300 Wby Mag, 300 WSM, 8x57 JS, 325 WSM, 338 Win Mag, 33 Nosler, 9.3x62 Mauser, .375 H&H
<b>Nosler</b>	Custom	E-Tip	300 H&H Mag, 300 Saum, .338 Win Mag
<b>Norma</b>	American PH	Kalahari*	.308 Win, 30-06 Sprg, 300 Win Mag, 300 WSM
<b>Norma</b>	American PH	EcoStrike	8x57 JRS, 8x57 JS, .308 Win, .30-06 Sprg, .300 Win Mag, .300 WSM, 9.3x62, 9.3x74 R, 375 H&H
<b>Norma</b>	American PH	TSX	.300 Win Mag, 375 H&H
<b>Remington</b>	HTP Copper*	TSX	308 Win, 30-06 Sprg, 300 AAC Blk, 300 Win Mag, 300 RUM
<b>Remington</b>	Hog Hammer*	TSX	308 Win, 30-06 Sprg.
<b>RWS</b>	Performance Ammunition	HIT	.308 Win, .30-06 Sprg, .300 Win Mag, 8x57 J, 8x57 JRS, 8x68 S, 9.3x62, 9.3x74 R, 10.3x68 Mag
<b>RWS</b>	Performance Ammunition	Evolution Green	.308 Win, .30-06 Sprg, .30 R Blaser, .300 Win Mag, 8x57 JS, 8x57 JRS, 8x68 S, 9.3x62, 9.3x64, 9.3x74 R, 10.3x68 Mag
<b>Sellier and Bellot</b>	eXergy Blue	eXergy Blue (TXRG)	.308 Win, .30-06 Sprg, .300 Win Mag, 8x57 JRS, 8x57 JS
<b>Sig Sauer</b>	Elite Hunting Copper HT	Solid Copper Hollow-point	.308 Win, .30-06 Sprg, .300 Win Mag
<b>Weatherby</b>	Select Plus	TTSX	.300 Wby Mag, .30-378 Wby Mag, .338-378 Wby Mag, .340 Wby Mag, .416 Wby Mag
<b>Weatherby</b>	Select Plus	TSX	.378 Wby Mag, .460 Wby Mag
<b>Winchester</b>	Supreme	RazorBoar XT*	.308 Win, .30-06 Sprg, 7.62x39mm
<b>Winchester</b>	Supreme	E-tip*	.308 Win, .30-06 Sprg, 300 WSM, 300 Win Mag, 338 Win Mag
<b>Winchester</b>	Super-X	Powercore 95/5	30-06 Sprg, 300 Win Mag, 300 WSM, 30-30 Win, 308 Win, 7mm-08 Rem, 7mm Rem Mag, 7mm WSM
<b>Winchester</b>	Deer Season Copper XP	Copper	.308 Win, 30-06 Sprg, 300 Win Mag, 300 WSM

**\* Unavailable or discontinued product line or bullet; will still be accepted as "approved."**

## Table 2: Approved Component Bullets for Custom or Hand Loading

Updated February 2021

Manufacturer	Bullet	Calibers
Badlands Precision	Bulldozer	.308, .338
Barnes	TSX	.308, 7.62x39, 7.65mm/.303, .310, 8mm, .323, .338, 338 Lapua, .358, .366, 9.3mm, .375, .410, .411 (405 Win), .416, .422 (404 Jeffrey), .451, .458, .474 (470 Nitro), .505 (505 Gibbs), .509, .510 (50 BMG), .583
Barnes	TTSX	.308, 8mm, .323, 338, .358, 9.3mm, .358, .366, .375, .416, .451, 458 SOCOM
Barnes	LRX	.308, .338, 338 Lapua, .375
Barnes	TAC-X	7.62x39, .308, 338 Lapua, 50 BMG
Barnes	TAC-TX	.308, 338, 338 Lapua, 458 SOCOM
Cavity Back	MKZ	.308/7.62mm, 7.62x39, .300 BLK
Cavity Back	MKZ-Tipped	.308
Cutting Edge	MTH	.308, .323, .338, .358, .375, .408, .416, .510, .550
Cutting Edge	ER Raptor (Copper)	.308, .338, .358, .452*
Cutting Edge	FB Raptor (Copper)	.308*, .366/9.3mm*, .416*, .423*, .452, .458
Cutting Edge	Safari Raptor	.348
Cutting Edge	Lazer	.308, .338, .375, .408, .416, .458, .510
Cutting Edge	Maximus	.308, .338, .358, .375, .408, .416, .429, .451, .458
GS Custom Bullets	HV Expanding*	.306, .308, .311, .312, .318, .321, .323, .329, .330, .333, .338, .348, .357, .358, .366, .374, .375, .379, .395, .408, .410, .411, .413, .416, .418, .423, .435, .450, .457, .458, .465, .470, .498, .505, .510, .550, .700
Hammer Bullets	Shock Hammer	.308, .323/8mm, .338, .348, .358, .366/9.3mm, .375, .416, .423, .458
Hammer Bullets	Hammer Hunter	.308, .323, .338, .358, .375, .416, .423
Hammer Bullets	Deadblow Hammer	.375
Hammer Bullets	Claw Hammer	.375, .416, .427
Hornady	GMX	.308, 8mm/.323, .338, 9.3mm/.366, .375
Hornady	Monoflex	.308 (for 30-30), .458
Lapua	Naturalis	.308, .323/8mm, .338, .366/9.3mm
Lehigh Defense	Controlled Chaos	.308, .311, .510
Lehigh Defense	Controlled Fracturing	.308, .375, .429, .458
Maker Bullets	T-Rex, Rex	.308, 7.62 x 39, 8mm, .338, .375
Maker Bullets	T-Rax, Rax	300, .308,
Nosler	E-Tip	.308, 8mm, .338, 9.3mm, .375

Patriot Valley Arms	Cayuga	.30 cal
Peregrine Monolithics	Plains Master, VLR 4	.308, .312, .323, .338, .366, .375, .408, .416, .509
Peregrine Monolithics	Bush Master, VRG 2	.308, .312, .323, .338, .366, .375, .404, .410, .416, .435, .456, .458, .472, .505, .509, .582
RWS	Evolution Green	.308, 8mm S, 9.3mm, 10.3mm

**\* Unavailable or discontinued product line or bullet; will still be accepted as “approved”**

## Disclaimer

*This document and the information it contains are provided as a public service by the National Park Service (NPS), U.S. Department of the Interior.*

*Reference in this document to any specific commercial products, processes, or services, or the use of any trade, firm, or corporation name is for the information and convenience of the public and does not constitute endorsement, recommendation, or favoring by the NPS.*

*This document contains web addresses for third party websites. The websites are not under the control of the NPS and the NPS is not responsible for the contents of any listed website. These web addresses are provided as a convenience only and shall not be construed as an endorsement of, sponsorship of, or affiliation with the listed website by the National Park Service.*