**Approved Ammunition and Bullets for**

**Olympic National Park Goat Removal**

In agreement with Washington State’s Department of Fish and Wildlife regulations for take of big game, all rifles must be chambered for centerfire cartridges of **.243 (6mm) caliber or larger.**

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

**All bullets used for lethal removal of goats 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 big game with controlled fracturing will be acceptable. Frangible, or jacketed powder-core bullet designs are not acceptable even when non-lead.

**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.

**Handloads 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.

As bullet technology is constantly changing this list is not exhaustive, but it is fairly comprehensive as of March 2020. If you have a bullet or ammunition load you think fits the approved criteria, contact Daniel Ryan at daniel\_ryan@nps.gov 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.

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

* Daniel Ryan - NPS Biologist and Ammunition Specialist: daniel\_ryan@nps.gov
* http://huntingwithnonlead.org
* <https://www.oregonzoo.org/conserve/non-lead-hunting-education-program>
* [www.nonleadpartnership.org](http://www.nonleadpartnership.org)

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| **Non-Lead Hunting: Bullets & Ammunition** |
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| **These online retailers are some of the many sources to find non-lead bullets and ammunition** |
| **www.cheaperthandirt.com** | **www.midwayusa.com** |
| **www.gandermountain.com** | **www.sportsmanswarehouse.com** |
| **www.ableammo.com** | **www.cabelas.com** |
| **www.brownells.com** | **www.midsouthshootersupply.com** |
| **Search multiple retailers with an ammunition search engine** |
| **ammoseek.com** |
| **Custom loaded ammunition retailers can build****specialized precision loads with non-lead bullets** |
| **Precise Ammunition**www.preciseammunition.com | **Custom Cartridge**www.customcartridge.com |
| **Superior Ammo**www.superiorammo.com | **Colorado Custom Cartridge**www.coloradocustomcartridges.com |

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| Table 1: Approved Factory AmmunitionAvailable as of March 2020  |
| Manufacturer | **Ammo Line** | **Bullet** | **Cartridges** |
| Barnes | VOR-TX | TSX | .270 WSM, 7mm Rem Mag, 30-30 Win, 9.3x62mm |
| Barnes | VOR-TX | TTSX | .243 Win, 25-06 Rem, 6.5 Grendel, 6.5 Creedmoor, 260 Rem, 270 Win, 7mm-08 Rem, 7x64 Brenneke, 7mm Rem Mag, 308 Win, 30-06 Sprg, 300 WSM, 300 Win Mag, 300 RUM, 300 Wby Mag, .338 Win Mag, .35 Whelen |
| Barnes | VOR-TX | TAC-TX | .300 AAC Blackout |
| Barnes | VOR-TX | LRX | .338 Lapua Mag |
| Barnes | VOR-TX LR | LRX | 6mm CRMR, 6.5mm CRMR, .270 Win, 7mm Rem Mag, 7mm RUM, .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 | 7x64 Brenneke, .308 Win, .30-06 Sprg, 8x57 JS, 9.3x62mm |
| Black Hills | Gold | TSX | .243 Win, 25-06 Rem, .270 Win, 7mm Rem Mag, .308 Win, .30-06 Sprg, .300 Win Mag,  |
| Black Hills | Gold | GMX | .243 Win, .260 Rem, 6.5 Creedmoor, .270 Win, 7mm Rem Mag, .308 Win, .30-06 Sprg, .300 Win Mag,  |
| Browning | Rifle | BXS | 6.5 Crmr, .270 Win, 7mm Rem Mag, .308 Win, .30-06 Sprg, .300 Win Mag, .300 WSM |
| Buffalo Bore | Buffalo-Barnes | TSX | .243 Win, 7mm Rem Mag, 30-30 Win, .308 Win, .30-06 Sprg, .300 Win Mag, .338 Win Mag, .358 Win, .35 Whelen, .375 H&H, .375 Ruger |
| Buffalo Bore | Dangerous Game | TSX | .416 Ruger, .416 Rem |
| CorBon | DPX Hunter | DPX | 30-30 Win, 7.62x39 |
| CorBon | DPX Hunter | T-DPX | .243 Win, .270 Win, .30-06 Sprg, .300 Blackout, .300 Win Mag, .308 Win, .338 Lapua, .338 RUM, .338 Win Mag, .340 Wby, .458 SOCOM, 6.5-284 Norma  |
| DoubleTap Ammunition | DT Hunter | TSX | .243 Win, .270 Win, .270 WSM, .325 WSM, .358 Win, .375 H&H, .375 RUM, .375 Ruger, 6.8 SPC, 7.62x39 Rus, 7.62x54 Rus, 8mm Rem Mag |
| DoubleTap Ammunition | DT Hunter | TTSX | .25-06 Rem, .257 Rob, .257 Wby, .280 Rem, .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, 7mm RUM, 7mm-08, 8mm Rem Mag |
| DoubleTap Ammunition | DT Hunter | Tac-TX | .300 AAC Blackout |
| DoubleTap Ammunition | DT Hunter | MRX | .338 Fed, .338 RUM |
| DoubleTap Ammunition | DT Long Range | LRX | .26 Nosler, .260 Rem, .264 Win Mag, .270 Win, .270 WSM, 6.5 Creedmoor, 6.5-284 Norma, 7mm Rem Mag, 7mm STW |
| DoubleTap Ammunition | DT Safari | TSX | .375 H&H, .375 Ruger, .404 Jeff, .416 Rem Mag, .416 Rigby, .416 Ruger, .416 Taylor, 9.3x62 Mauser |
| Federal | Vital-Shok\* | Trophy Copper | .243 Win, 25-06 Rem, 6.5 Crmr, 270 Win, 270 WSM, 7mm-08, 280 Rem, 7mmRM, 7mm WSM, 30-30, 308 Win, 30-06 Sprg, 300 H&H, 300 Win Mag, 300 WSM, 300 Wby Mag, 300 RUM, 338 Fed, 338 Win Mag. |
| Federal | Cape-Shok\* | TSX | 9.3x62 Mauser, 9.3x74R, 370 Sako Mag, 375 H&H Mag, 416 Rigby, 416 Rem Mag, 470 Nitro Exp |
| Federal | Premium Centerfire | Trophy Copper | .243 Win, .25-06 Rem, 6.5 Creedmoor, .270 Win, .270 WSM, .280 Rem, 7mm-08 Rem, &mm Rem Mag, 7mm WSM, 30-30 Win, .308 Win, 30-06 Sprg, .300 WSM, .300 Win Mag, .338 Fed, .338 Win Mag, .338 Lapua Mag |
| Federal | Premium Centerfire | TSX | .243 Win, .25-06 Rem, 6.5 Creedmoor, .270 win, .270 WSM, 7mm-08 Rem, 7mm Rem Mag, 30-30 Win, 308 Win, 30-06 Sprg, .300 WSM, .300 Win Mag |
| Federal | Power-Shok | Copper HP | .243 Win, .270 Win, 300 BLK .308 Win, .30-06 Sprg, .300 Win Mag, .300 WSM |
| Gorilla Ammunition | Gorilla HUNT | Controlled Chaos | .260 Rem, .300 Blackout, .308 Win, 6.5 Creedmoor |
| Hornady  | Superformance | GMX | 6mm Creedmoor, 25-06 Rem, 6.5 Creedmoor, 270 Win, 7mm-08 Rem, 308 Win, 30-06 Sprg, 300 WSM, 300 Win Mag |
| Hornady | Superformance International | GMX | .243 Win, 7x64 Brenneke, 308 Win, 30-06 Sprg, 300 Win Mag, 8x57 JS, 9.3x62 |
| Hornady | Outfitter | GMX | .243 Win, .257 Wby Mag, 6.5 Creedmoor, .270 Win, 270 WSM, 7mm Rem Mag, 7mm WSM, 308 Win, 30-06 Sprg, 300 WSM, 300 Win Mag, 300 Wby Mag, 300 RUM, 338 Win Mag, 375 Ruger, 375 H&H Mag |
| Hornady | Custom | GMX | 6.8 Remington SPC, 300 Blackout |
| Hornady | Full Boar | GMX | .243 Win, .25-06 Rem, 6.5 Creedmoor, 6.8 Rem Spc, 270 Win, 7mm-08 Rem, 7mm Rem Mag, 300 Blackout, .308 Win, 30-06 Sprg, 300 Win Mag |
| Hornady | LEVERevolution | Monoflex | 30-30 Win |
| International Cartridge Company | ICC Hunting | TTSX | .243 Win, .270 Win, 30-06 Sprg, .300 Win, .308 Win, 7mm-08 Rem |
| Lapua | Lapua Hunting | Naturalis | .243 Win, 6.5 Creedmoor, 6.5x47 Lapua, 6.5x55 SE, 7x64mm, 7x64R, .308 Win, .30-06 Sprg, 8x57 IRS, 8x57 IS, .338 Lapua Mag, 9.3x62mm |
| Liberty Ammunition | Animal Instinct | Copper Hollow-point | .300 Blackout, 308 Win, 30-06 Sprg |
| Lehigh Defense | Rifle | Controlled Chaos | .243 Win, 6.5 Creedmoor, 6.5 Grendel, .300 AAC Blackout, .308 Win  |
| Lehigh Defense | Rifle | Controlled Fracturing | .375 JDJ, .375 Ruger, .458 SOCOM  |
| Nosler | Trophy Grade or E-tip Ammunition | E-Tip | .243 Win, 25-06 Rem, 6.5 Creedmoor, .260 Rem, .26 Nosler, .270 Win, 270 WSM, .280 Rem, 7mm-08, 7x57 Mauser, 280 AI, 7mm Rem Mag, .28 Nosler, 300 AAC Blackout, 30-30 Win, 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 |
| Nosler | Custom | E-Tip | .257 Wby Mag, .260 Rem, .264 Win Mag, 6.5-284 Norma, .270 Wby Mag, 280 Ackley Improved, 300 H&H Mag, 300 Saum, .338 Win Mag |
| Norma | American PH | Kalahari\* | .270 Win, .270 WSM, 7x64mm, .280 Rem Mag, .308 Win, 30-06 Sprg, 300 Win Mag, 300 WSM |
| Norma | American PH | EcoStrike | 7mm Rem Mag, 7x64mm, 7x65 R, 8x57 JRS, 8x57 JS, .308 Win, .30-06 Sprg, .300 Win Mag, .300 WSM, 9.3x62, 9.3x74 R, 375 H&H |
| Remington | HTP Copper | TSX | 6.5 Creedmoor, 270 WSM, 270 Win, 7mm Rem Mag, 7mm RUM, 30-30 Win, 308 Win, 30-06 Sprg, 300 AAC Blk, 300 Win Mag, 300 RUM |
| Remington | Hog Hammer | TSX | 300 AAC, 30 Rem AR, 30-30 Win, 308 Win, 30-06 Sprg. |
| RWS | Performance Ammunition | HIT | .270 Win, .270 WSM, 7mm Rem Mag, 7x64, 7x65 R, .308 Win, .30-06 Sprg, .300 Win Mag, 8x57 J, 8x57 JRS, 8x68 S, 9.3x62, 9.3x74 R, 10.3x68 Mag  |
| RWS | Performance Ammunition | Evolution Green | 6.5 Creedmoor, 6.5x55 SE, 6.5x57, 6.5x57 R, 6.5x68, .270 Win, .270 WSM, 7x57 R, 7mm Rem Mag, 7x64, 7x65 R, .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  |
| Sellier and Bellot | eXergy Blue | eXergy Blue (TXRG) | 6.5x55 SE, 6.5x57, 6.5 Creedmoor, 7x57, 7x57R, 7x64, 7x64R, 7mm Rem Mag, .300 AAC BLK, .308 Win, .30-06 Sprg, .300 Win Mag, 8x57 JRS, 8x57 JS |
| Sig Sauer | Elite Hunting Copper HT | Solid Copper Hollow-point | 6.5 Creedmoor, .300 BLK, .308 Win, .30-06 Sprg, .300 Win Mag |
| Weatherby | Select Plus | TTSX | .240 Wby Mag, .257 Wby Mag, .270 Wby Mag, 7mm Wby Mag, .300 Wby Mag, .30-378 Wby Mag, .338-378 Wby Mag, .340 Wby Mag, .416 Wby Mag |
| Weatherby | Select Plus | TSX | .378 Wby Mag, .460 Wby Mag |
| Weatherby | Select Plus | LRX | 6.5 Wby RPM, 6.5 Wby Mag |
| Winchester | Supreme | RazorBoar XT\* | .270 Win, .308 Win, .30-06 Sprg, 7.62x39mm. |
| Winchester | Supreme | E-tip\* | .270 WSM, .270 Win, 7mm Rem Mag, .308 Win, .30-06 Sprg, 300 WSM, 300 Win Mag, 338 Win Mag |
| Winchester | Super-X | Powercore 95/5  | .243 Win, 270 Win, 270 WSM, 30-06 Sprg, 300 Win Mag, 300 WSM, 30-30 Win, 308 Win, 7mm-08 Rem, 7mm Rem Mag, 7mm WSM. |
| Winchester | Deer Season Copper XP | Copper | .243 Win, 6.5 Creedmoor, 270 Win, 270 WSM, .308 Win, 30-06 Sprg, 300 Win Mag, 300 WSM  |

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

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| Table 2: Approved Component Bulletsfor Custom or ReloadingAvailable as of March 2020 |
| **Manufacturer** | **Bullet** | **Calibers** |
| Badlands Precision | Bulldozer | .243, .264, .277, .284, .308, .338 |
| Barnes | TSX | 6mm/.243, .257, 6.5mm, .277, 7mm/.284, .308, 30-30, 7.62x39, 7.65mm/.303, 8mm, .338, 338 Lapua, .358, 9.3mm, .375, .411 (405 Win), .416, .422 (404 Jeffrey), .451, .458, .474 (470 Nitro), .505 (505 Gibbs), .509, .510 (50 BMG), .583 |
| Barnes | TTSX | 6mm/.243, .257, 6.5mm, 6.8mm/.277, 7mm/.284, .308, 8mm, 338, .358, 9.3mm, .375, .416, .451, 458 SOCOM |
| Barnes | LRX | 6mm, 6.5mm, .277, 7mm/.284, .308, .338, 338 Lapua, .375 |
| Barnes | TAC-X | 6.5mm, 6.8mm, 7.62x39, .308, 338 Lapua, 50 BMG |
| Barnes | TAC-TX | 6.5mm, 6.8mm, 300 Blackout/300 Whisper, 308, 338, 338 Lapua, 458 SOCOM |
| Cavity Back | MKZ | .243/6mm, .264/6.5mm, .277/6.8mm, .308/7.62mm, 7.62x39, .300 BLK |
| Cavity Back | MKZ-Tipped | .308 |
| Cutting Edge | MTH | .243/6mm, .257, .264/6.5mm, .277, .284/7mm, .308, .323, .338, .358, .375, .408, .416, .510, .550 |
| Cutting Edge | Maximus | .264/6.5mm, .277, .284/7mm, .308, .338, .375, .458, 44 cal, 45 cal, |
| Cutting Edge | ER Raptor | .243, .257, .264/6.5mm, .277/6.8mm, .284/7mm, .308, .338, .358, .452, |
| Cutting Edge | FB Raptor | .308, .366/9.3mm, .416, .423, .452, .458,  |
| Cutting Edge | ESP Raptor | .243, .257, .264/6.5mm, .277/6.8mm, .284/7mm, .308, .311, .323/8mm, .338, .366/9.3mm, .375 |
| Cutting Edge | Copper Safari Solid | .264/6.5mm, .308, |
| Cutting Edge | Safari Raptor | .308, .348, .366/9.33mm, .375, .409, .411, .416, .423, .440, .457, .458, .474, .487, .500, .505, .510, .550, .585, .620 |
| Cutting Edge | Lazer | .264/6.5mm, .277, .284/7mm, .308, .338, .375, .408, .416, .458, .510 |
| Cutting Edge | Maximus | .264/6.5mm, .277, .284/7mm, .308, .338, .358, .375, .408, .416, .458, .429, .451 |
| GS Custom Bullets | HV Expanding | .243, .245, .256, .257, .264, .265, .268, .270, .284, .285, .289, .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 | .243, .257, .264/6.5mm, .277, .284/7mm, .308, .323/8mm, .338, .348, .358, .366/9.3mm, .375, .416, .423, .458 |
| Hammer Bullets | Hammer Hunter | .243, .257, .264, .277, .284, .30-30, .308, .323, .338, .358, .375, .416, .423 |
| Hammer Bullets | Deadblow Hammer | .375  |
| Hammer Bullets | Claw Hammer | .375, .416, .427 |
| Lapua | Naturalis | .243/6mm, .264/6.5mm, .284/7mm, .308, .323/8mm, .338, .366/9.3mm |
| Lehigh Defense | Controlled Chaos | .243, .257, .264, .277, .284, .308, .311, .510 |
| Lehigh Defense | Controlled Fracturing | .308, .375, .429, .458 |
| Hornady | GMX | 6mm/.243, .257, 6.5mm/.264, 6.8mm/.277, 7mm/.284, .308, 8mm/.323, .338, 9.3mm/.366, .375 |
| Hornady | Monoflex | .308 (for 30-30), .458 |
| Maker Bullets | T-Rex, Rex | .257, .264, .277, .284/7mm, .308, .300 Blackout, 7.62 x 39, 8mm, .338, .375, |
| Maker Bullets | T-Rax, Rax | .277, 300, .308, |
| Nosler | E-Tip | 6mm/.243, .257, 6.5mm, 6.8mm/.277, 7mm/.284, 300 AAC, 30/30, .308, 8mm, .338, 9.3mm |
| Peregrine Monolithics | Plains Master,VLR 4 | .243, .257, .264, .277, .284, .308, .312, .323, .338, .366, .375, .408, .416, .509 |
| Peregrine Monolithics | Bush Master, VRG 2 | .243, .264, .277, .284, .308, .312, .323, .338, .366, .375, .404, .410, .416, .435, .456, .458, .472, .505, .509, .582 |
| RWS | Evolution Green | 6.5mm, 7mm, .277, .308, 8mm S, 9.3mm, 10.3mm |

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