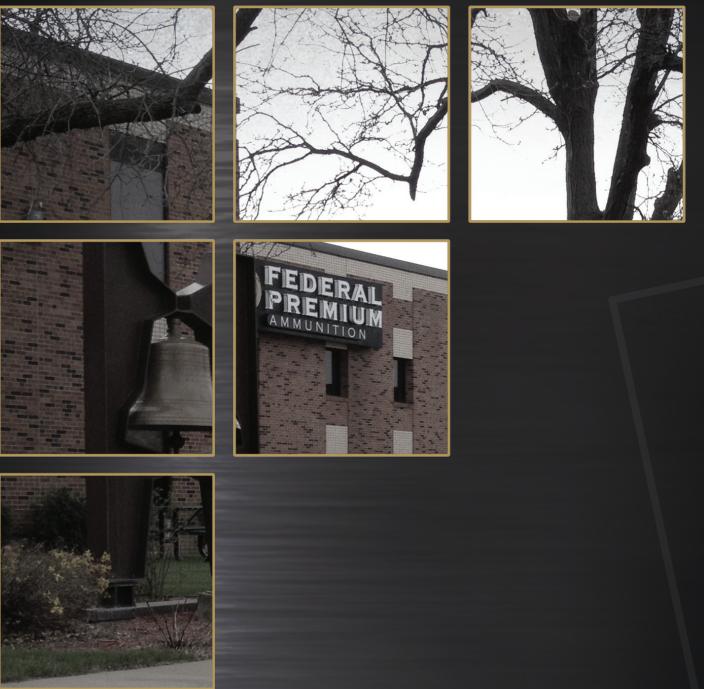




EVERY SHOT COUNTS®

A M M U N I T I O N

FEDERAL PREMIUM CATALOG 2013



Advancing The Science Of Ammunition

WE DON'T need to tell you that hunting and shooting are more than just hobbies. They're your passion—and ours, too. That's why we take our jobs so seriously at Federal Premium® Ammunition.

Every day, we strive to not only maintain our position as the ultimate ammunition manufacturer, but to constantly improve our offerings and advance the science of ammunition. In the process, we lead the industry, bringing to market products that forever change the shooting sports—ammunition that proves itself every day in the field, on the range and beyond.

It's a trend we've continued this year with game-changing products across all of our ammunition lines—everything from state-of-the-art handgun loads for personal defense to revolutionary bullets for

the largest, most dangerous game on the planet. We offer plenty of options that will provide you with the perfect match for your shooting, no matter what your particular pursuit may be.

The dedicated employees at Federal Premium take immeasurable pride in what we do, and the products you'll find here. We thank you for your continued support.



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LEADING THE WAY



From left: Kent Sakamoto, Devon Harris and Dick Quesenberry

At Federal Premium®, the shooting sports are ingrained in what we do on a daily basis. That's why our Shooting Promotions Team is lead by champion shotgunner Devon Harris, a 2010 winner of the Grand American Challenge, and recent inductee into the Indiana State Trapshooting Hall of Fame. Joining him are fellow shooters Dick Quesenberry of Alliant Powder, and Kent Sakamoto of RCBS®. These three boast more than 100 combined years of competitive shooting experience, which they put to work in promoting and enhancing the sports they love.

COMPETITION. The drive to not only know you're good, but to prove you're the best. That philosophy drives everything we do here at Federal Premium®, and that's why we're so involved in the competitive shooting sports. Whether it's 3-Gun, trap, skeet, sporting clays, action pistol, long-range rifle or any other event, you'll find top-finishing shooters with Federal hulls and brass rolling around their feet with crushed targets and punched paper downrange.

In fact, we were the trophy count leader at the 2012 Grand American Trapshooting Championships, where 40 percent of all trophies were won with Federal Premium ammunition.

We sponsor a variety of competitive shooting events year-round, from coast to coast and across all the major disciplines. After all, they're where innovation is born—where techniques are honed and where ammunition is put to the test with every single pull of the trigger. When standards are this high, expectations are even higher. Federal Premium rises to the challenge by offering shooters the best ammunition available.

We Fuel Shooting Sports Passion



Leo Harrison, III
Trap Shooting
Hall Of Fame inductee
27-time Grand
American Champion



Mallory Stanton
2012 ATA All American



Kurt Miller
2011 3-Gun National Limited
Points Series Champion



Mike Holm
Ammunition Product Line Manager
ATA Trap



Bryan Peterson
Senior Product Development Engineer
Tactical/Precision Rifle
F-Class
IDPA
USPSA



Matt Wolff
Product Development Engineer
USPSA
IDPA
3-Gun



Justin Pierce
Project/Design Engineer
USPSA
Tactical/Precision Rifle
3-Gun
IDPA
ATA Trap

We Live It. When you're an ammunition engineer at Federal Premium®, striving for shooting excellence isn't just something you do 9-to-5. Ours live it 24-7, spending much of their free time practicing for and shooting in competitions. From clays to 3-Gun, 1,000-yard shots to tactical reloads, these guys know firsthand what it takes to win and they put that knowledge to work while creating the world's finest ammunition.



DON'T MISS THE ACTION



We're connecting with thousands of new fans every day through social media avenues. We invite you to send us your pictures, videos and share your stories. Join us on Facebook, YouTube, Twitter and Google+.

facebook.com/federalpremiumammo
youtube.com/federalpremiumammo
twitter.com/federalpremium
gplus.to/federalpremium

The Ammunition Evolution Continues

PERSONAL DEFENSE® HST®

TRUST NOTHING but the best to protect yourself should the unthinkable occur. Federal Premium® Personal Defense HST offers the industry's most consistent expansion, optimum penetration and superior terminal performance. It's already the trusted duty load for law enforcement officers throughout the world; now it's available to the public. **More on page 32.**

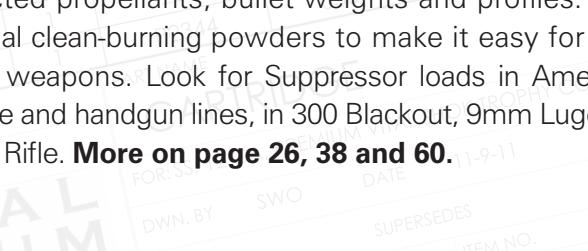
- Specially designed hollow point expands reliably through a variety of barriers
- Expanded diameter and weight retention produce desired penetration for personal defense, without over-penetrating
- Superior performance in FBI test protocol
- Bullet nose profile, nickel-plated case and Federal's unique primer provide the ultimate in function and reliability in semi-automatic handguns.

**WOODLEIGH® HYDRO SOLID**

HUNTERS TARGETING dangerous game have a more effective cartridge than ever before. The new Woodleigh Hydro Solid offers both unstoppable penetration and hydrostatic shock that puts down even the largest game. The solid copper-alloy bullet's concave nose sits ahead of a flared pressure ring. Combined, these stabilize the bullet's line of travel as it blasts through tissue and bone. Meanwhile, a low-pressure "cavitation bubble" rips open around it, creating a massive wound channel and a large entry cavity that won't close. Its polymer nose cap ensures reliable feeding and the grooved bullet shank offers match-grade accuracy. **More on page 14.**

**AMERICAN EAGLE® SUPPRESSOR**

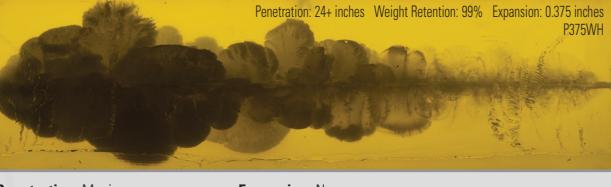
TURN DOWN the volume without sacrificing performance with new American Eagle Suppressor ammunition. The loads deliver superior accuracy, reliability and cleanliness in suppressed firearms, thanks to carefully selected propellants, bullet weights and profiles. In addition, we use special clean-burning powders to make it easy for shooters to clean their weapons. Look for Suppressor loads in American Eagle's rifle, rimfire and handgun lines, in 300 Blackout, 9mm Luger, 45 Auto and 22 Long Rifle. **More on page 26, 38 and 60.**



AMMUNITION

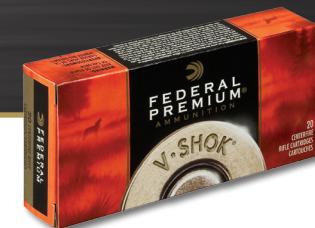


Scan this QR code to see slow-motion video of these Federal Premium® bullets impacting ballistics gelatin.

TROPHY BONDED® TIP	Cougar Antelope Whitetail Deer Mule Deer Sable Gazelle Big Horn Black Bear Caribou Elk Moose Brown Bear	 Penetration: 23.25 inches Weight Retention: 90% Expansion: 0.706 inches P3006TT2 Penetration: Deep Weight Retention: Maximum Expansion: High/Controlled Range: Long	NOSLER® BALLISTIC TIP® VARMINT	Prairie Dog Ground Squirrel Rock Chuck Woodchuck Fox Coyote Marmot	 Penetration: 11 inches Weight Retention: 29% Expansion: Rapid P223F Penetration: Low Weight Retention: Minimum Expansion: Explosive Range: Long
TROPHY BONDED® BEAR CLAW®	Cougar Antelope Whitetail Deer Mule Deer Sable Gazelle Big Horn Black Bear Caribou Elk Moose Buffalo Lion Brown Bear Polar Bear Cape Buffalo Elephant	 Penetration: 24+ inches Weight Retention: 99% Expansion: 0.770 inches P375T1 Penetration: Deep Weight Retention: Maximum Expansion: High/Controlled Range: Medium	NOSLER® BALLISTIC TIP® HUNTING	Antelope Whitetail Deer Mule Deer	 Penetration: 24+ inches Weight Retention: Unrecovered Expansion: Unrecovered P3006A Penetration: Low/Moderate Weight Retention: Low/Moderate Expansion: Rapid Range: Long
TROPHY BONDED® SLEDGEHAMMER® SOLID	Cape Buffalo Elephant	 Penetration: 24+ inches Weight Retention: 99% Expansion: 0.394 inches P3751Z Penetration: Maximum Weight Retention: Maximum Expansion: None Range: Medium	SIERRA® GAMEKING®	Prairie Dog Woodchuck Fox Coyote Marmot Cougar Antelope Whitetail Deer Mule Deer Sable	 Penetration: 17.75 inches Weight Retention: 99% Expansion: 0.706 inches P3006D Penetration: Moderate Weight Retention: Moderate Expansion: Moderate Range: Extra Long
TROPHY® COPPER	Cougar Antelope Whitetail Deer Mule Deer Sable Gazelle Big Horn Black Bear Caribou Elk Moose	 Penetration: 24+ inches Weight Retention: 100% Expansion: 0.627 inches P3006TC2 Penetration: Deep Weight Retention: Maximum Expansion: High/Controlled Range: Long	SPEER® TNT GREEN®	Prairie Dog Ground Squirrel Rock Chuck Woodchuck Fox Coyote Marmot	 Penetration: 8.625 inches Weight Retention: Minimal Expansion: Rapid P223R Penetration: Low Weight Retention: Minimum Expansion: Explosive Range: Long
WOODLEIGH® HYDRO SOLID NEW	Cape Buffalo Elephant	 Penetration: 24+ inches Weight Retention: 99% Expansion: 0.375 inches P375WH Penetration: Maximum Weight Retention: Maximum Expansion: None Range: Medium	SWIFT® A-FRAME®	Elk Moose Buffalo Lion Brown Bear Polar Bear Cape Buffalo	 Penetration: 24+ inches Weight Retention: 99% Expansion: 0.715 inches P375SA Penetration: Deep Weight Retention: Maximum Expansion: High/Controlled Range: Medium
NOSLER® PARTITION®	Cougar Antelope Whitetail Deer Mule Deer Sable Gazelle Big Horn Black Bear Caribou Elk Moose Buffalo Lion Brown Bear Polar Bear	 Penetration: 24+ inches Weight Retention: 67% Expansion: 0.605 inches P3006AD Penetration: Deep Weight Retention: Moderate Expansion: High/Controlled Range: Medium	BARNES® TRIPLE-SHOCK® X BULLET®	Cougar Antelope Whitetail Deer Mule Deer Sable Gazelle Big Horn Black Bear Caribou Elk Buffalo Lion Brown Bear Polar Bear Cape Buffalo	 Penetration: 24+ inches Weight Retention: 99% Expansion: 0.750 inches P375H Penetration: Deep Weight Retention: Maximum Expansion: Moderate Range: Medium



PREMIUM® BRAND BULLET SELECTOR GUIDE

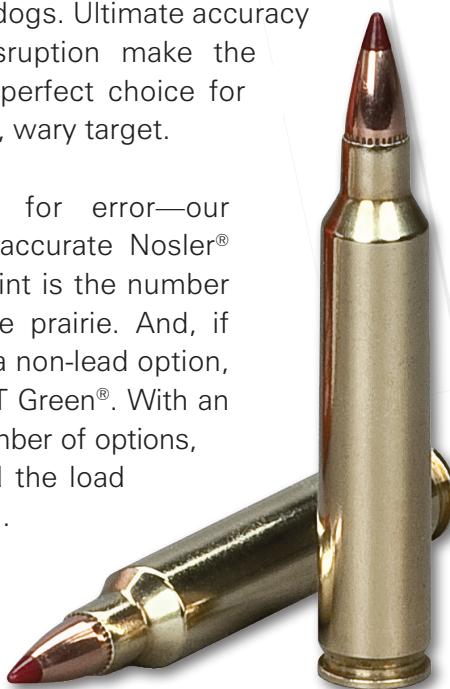


PREMIUM® VARMINT

Challenge Your Skills. Test Your Nerves.

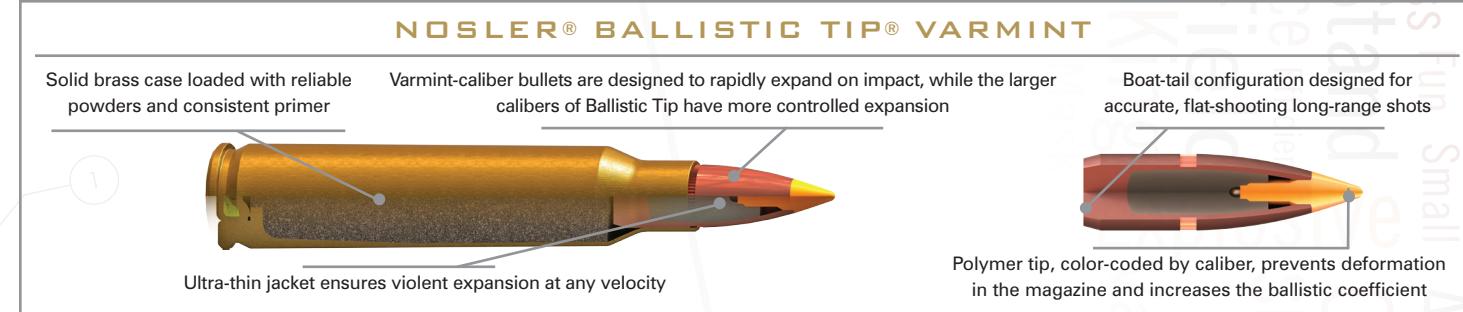
THERE IS no better way to test your marksmanship than by predator and varmint hunting. Its long distances, gusty winds and cunning targets have made it one of the fastest-growing hunting segments. We pride ourselves on offering a full line of centerfire options for everything from coyotes to prairie dogs. Ultimate accuracy and explosive disruption make the V-Shok™ line the perfect choice for your favorite small, wary target.

Leave no room for error—our flat-shooting and accurate Nosler® Ballistic Tip® Varmint is the number one choice on the prairie. And, if you're looking for a non-lead option, look to Speer® TNT Green®. With an ever-increasing number of options, you're sure to find the load best suited for you.



AFFORDABLE ACCURACY

Our American Eagle® cartridge line includes excellent options for high-volume varmint shooters. Check out the new 50-grain .22-250 Rem. jacketed hollow point and the proven .223 Rem. 50-grain jacketed hollow point. They are affordable and provide solid performance.



NOSLER® BALLISTIC TIP® VARMINT



Gelatin shot with 55-grain .223 Rem. Nosler Ballistic Tip Varmint (P223F) from an AR-15, 16-inch barrel, 1:9" twist at 100 yards. Ballistic Tip Varmint rounds are incredibly accurate, rapid expanding and dump energy in game with minimum penetration—ideal for varmint hunters.

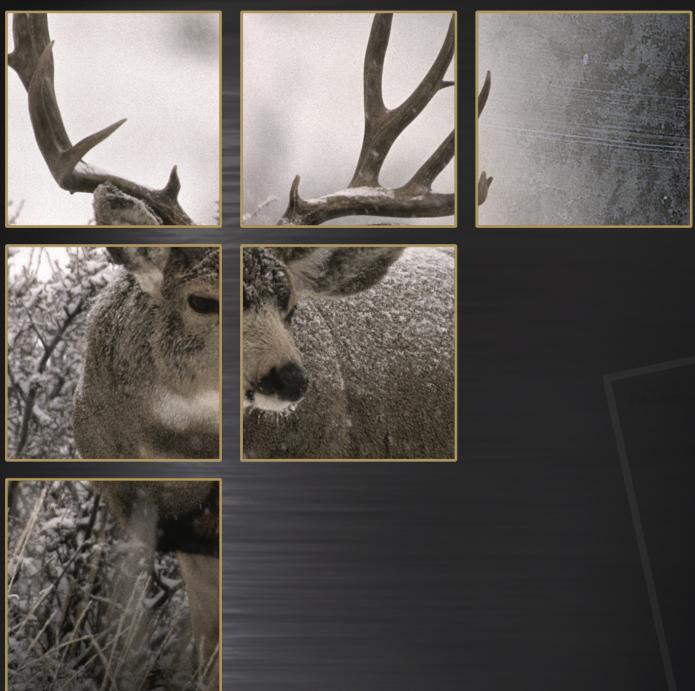
NOSLER® BALLISTIC TIP®		
LOAD NO.	CALIBER	GRAINS
P204B	204 Ruger	32
P204C	204 Ruger	40
P222C	222 Rem.	40
P223P	223 Rem.	40
P223F	223 Rem.	55
P22250F	22-250 Rem.	55
P220B	220 Swift	40
P243H	243 Win.	55
P243F	243 Win.	70
P2506G	25-06 Rem.	85

SPEER® TNT GREEN®		
LOAD NO.	CALIBER	GRAINS
P22D	22 Hornet	30
P222D	222 Rem.	43
P223R	223 Rem.	43
P22250D	22-250 Rem.	43

JACKETED SOFT POINT		
LOAD NO.	CALIBER	GRAINS
P22B	22 Hornet	45



Gelatin shot with 43-grain .223 Rem. Speer TNT Green (P223R) from an AR-15, 16-inch barrel, 1:9" twist at 100 yards. TNT Green loads explode on impact—creating only an entrance wound and transferring all of their energy inside the target.



Mule deer need your help. The Mule Deer Foundation leads efforts to conserve this icon of the American West, protect and enhance its habitat, increase hunter access and minimize threats to mule deer and black-tail populations. MDF also introduces more than 10,000 youth each year to shooting sports and the sportsman's role in conservation via its M.U.L.E.Y education program. Get involved today at muledeer.org.

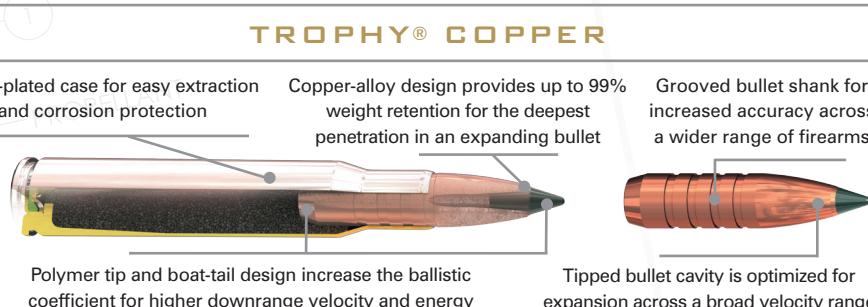
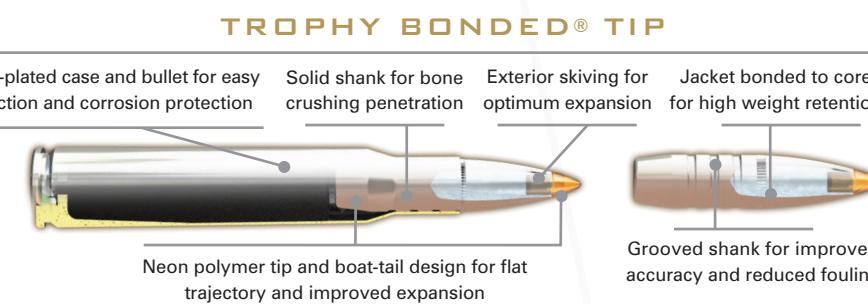
WHEN you're looking at a trophy buck in your crosshairs, you've done everything right. This is not the time to have something unravel. That's why we load so many bullet options under the Premium® brand. Our bullet and load combinations boast the ultimate in accuracy and performance. Vital-Shok™ is available with the world's finest big game bullets including the unrivaled Trophy Bonded® family. Match that with world-class brass, select powders and legendary primers and you get ammunition you can truly believe in. Just breathe easy and squeeze the trigger.

This year, we've expanded our Trophy® Copper line to include a .338 Win. Magnum offering. Trophy Copper bullets achieve up to 99% weight retention—even after the deepest and most aggressive penetration. Also look for three new Trophy Bonded® Tip loads: 140-grain .270 Win., 140-grain .270 WSM and 200-grain .338 Win. Magnum.



TROPHY® COPPER

Trophy Copper recently earned a 2012 *Field & Stream* Best of the Best Award! Products named to the Best of the Best list represent absolute excellence in their field, as determined through testing by *Field & Stream*'s team of experts.



TROPHY® COPPER

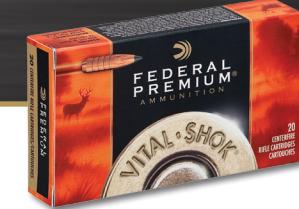


Bone in gelatin shot with 165-grain .30-06 Springfield Trophy Copper (P3006TC2) from a Kimber 84L at 100 yards. All Federal Premium® bullets are tested in ballistic gelatin to ensure proper performance.



TROPHY BONDED® BEAR CLAW®		
LOAD NO.	CALIBER	GRAINS
P7RT1	7mm Rem. Magnum	175
P3006T5	.30-06 Spring.	200
P300WT1	300 Win. Magnum	200
P338T1	338 Win. Magnum	225
P35WT1	35 Whelen	225
P375T4	375 H&H Magnum	250
P4570T4	45-70 Govt.	300

See additional Vital-Shok™ offerings on pages 12-13.



PREMIUM® BIG GAME

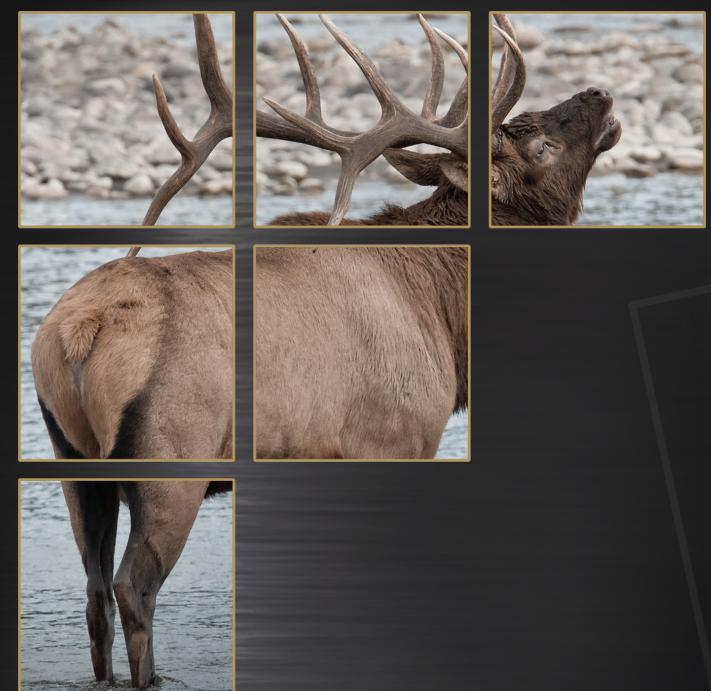
TROPHY BONDED® TIP		
LOAD NO.	CALIBER	GRAINS
HE P270TT1	.270 Win.	130
P270TT4	.270 Win.	130
P270TT3	.270 Win.	140
P270WSMTT1	.270 Win. Short Magnum	130
P270WSMTT3	.270 Win. Short Magnum	140
P270WBT11	.270 Weatherby Magnum	130
P708TT2	7mm-.08 Rem.	140
P280TT2	.280 Rem.	140
P7RTT2	7mm Rem. Magnum	140
P7RTT1	7mm Rem. Magnum	160
P7STWTT1	.7mm STW	160
P7WSMTT2	.7mm Win. Short Magnum	140
P7WSMTT1	.7mm Win. Short Magnum	160
P7WBTT1	.7mm Weatherby Magnum	160
HE P308TT4	.308 Win.	165
P308TT2	.308 Win.	165
P308TT1	.308 Win.	180
P3006TT2	.30-06 Spring.	165
P3006TT1	.30-06 Spring.	180
P3006TT4	.30-06 Spring.	180
P300HTT1	.300 H&H Magnum	180
P300WTT2	.300 Win. Magnum	165
P300WTT1	.300 Win. Magnum	180
P300WSMTT2	.300 Win. Short Magnum	165
P300WSMTT1	.300 Win. Short Magnum	180
P300WBT1	.300 Weatherby Magnum	180
P300RUMTT1	.300 Rem. Ultra Magnum	180
P338FT2	.338 Federal	200
P338TT2	.338 Win. Magnum	200

NEW ▶

HE = High Energy

TROPHY® COPPER		
LOAD NO.	CALIBER	GRAINS
P243TC1	.243 Win.	85
P2506TC1	.25-06 Rem.	100
P270TC1	.270 Win.	130
P270WSMTC1	.270 Win. Short Magnum	130
P708TC2	7mm-.08 Rem.	140
P280TC2	.280 Rem.	140
P7RTC2	7mm Rem.	140
P7RTC3	7mm Rem.	150
P7WSMTC3	.7mm Win. Short Magnum	150
P308TC3	.308 Win.	150
P308TC2	.308 Win.	165
P3006TC2	.30-06 Spring.	165
P3006TC1	.30-06 Spring.	180
P300HTC1	.300 H&H	180
P300WTC2	.300 Win. Magnum	165
P300WTC1	.300 Win. Magnum	180
P300WSMTC2	.300 Win. Short Magnum	165
P300WSMTC1	.300 Win. Short Magnum	180
P300WBT1	.300 Weatherby Magnum	180
P300RUMTC1	.300 Rem. Ultra Magnum	180
P338FT2	.338 Federal	200
P338TC1	.338 Win. Magnum	225

NEW ▶



ON SCREEN. ON TARGET.



Federal Premium® is proud to be the presenting sponsor of "Grateful Nation," "3-Gun Nation" and "Petersen's Hunting Adventures." These exciting television shows highlight the determination of die-hard hunters and shooting enthusiasts.

Petersen's Hunting Adventures

Sportsman Channel

Share the excitement as the team pursues the most sought-after big-game species across the globe.

Grateful Nation

Outdoor Channel

Grateful Nation recounts the stories of some of America's finest soldiers who have been wounded in combat but whose love for hunting has helped them overcome the physical and emotional scars of war.

3-Gun Nation

NBC Sports Network

Watch the elite professional shooters of the 3-Gun Nation Pro Series Tour as they compete for the highest cash payouts in the country.

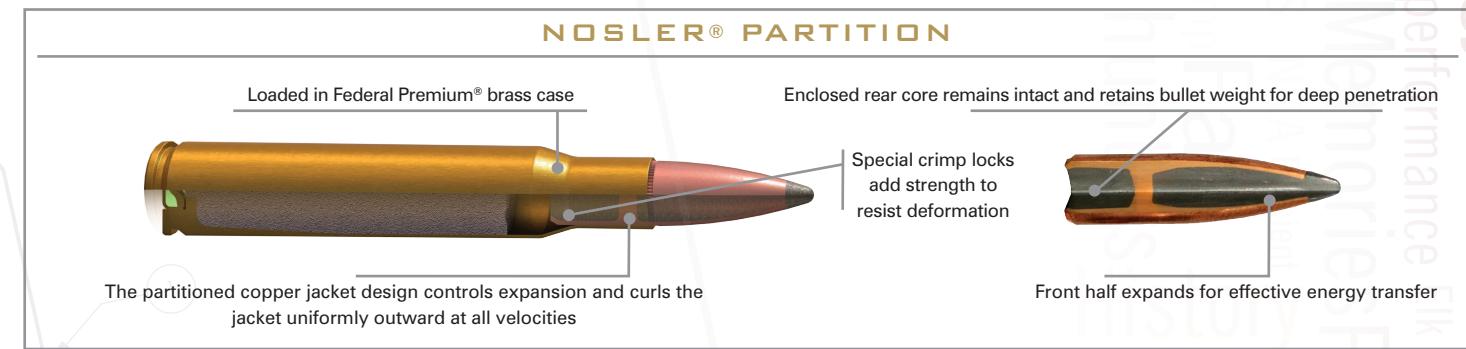
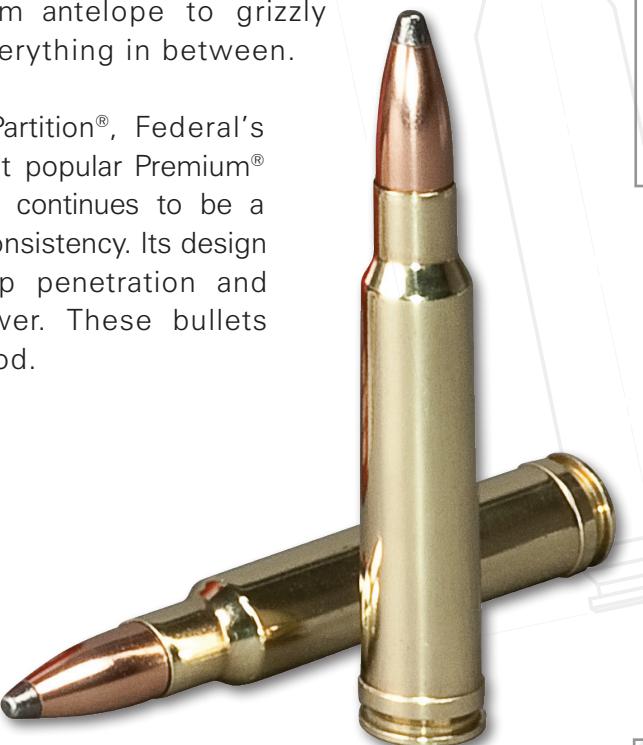


PREMIUM® BIG GAME

More Options. More Big Game.

IN HUNTING, remote is a location, not a device. Regardless of the animal you're after, we've got a load that is right for you. Our ammunition features the best bullets available, in load options for everything from antelope to grizzly bear—and everything in between.

The Nosler® Partition®, Federal's first and most popular Premium® hunting bullet, continues to be a standard for consistency. Its design provides deep penetration and stopping power. These bullets perform. Period.



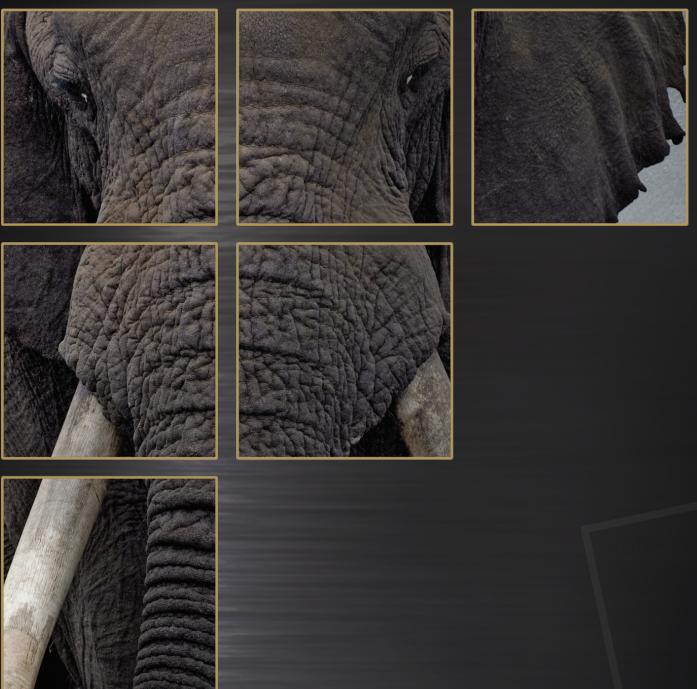
Bone in gelatin shot with 165-grain .30-06 Springfield Nosler Partition (P3006AD) from a Kimber 84L at 100 yards.

NOSLER® BALLISTIC TIP®		
LOAD NO.	CALIBER	GRAINS
P243J	243 Win.	95
P2506D	25-06 Rem.	100
P260B	260 Rem.	120
P270F	270 Win.	130
P270WSMB	270 Win. Short Magnum	130
P708B	7mm-08 Rem.	140
P280D	280 Rem.	140
P7RH	7mm Rem. Magnum	150
P7WSMB	7mm Win. Short Magnum	140
P308F	308 Win. (7.62x51mm)	150
P3006P	30-06 Spring.	150
P3006Q	30-06 Spring.	165
P300WSD	300 Win. Short Magnum	150

SIERRA® GAMEKING® BOAT-TAIL SP		
LOAD NO.	CALIBER	GRAINS
P243C	243 Win.	100
P2506C	25-06 Rem.	117
P260A	260 Rem.	140
P270D	270 Win.	130
P270C	270 Win.	150
P7RD	7mm Rem. Magnum	150
P7RE	7mm Rem. Magnum	165
P730A	7-30 Waters	120
P308C	308 Win. (7.62x51mm)	165
P3006G	30-06 Spring.	150
P3006D	30-06 Spring.	165

See additional Vital-Shok™ offerings on pages 10-11.

NOSLER® PARTITION®		
LOAD NO.	CALIBER	GRAINS
P223Q	223 Rem.	60
P22250G	22-250 Rem.	60
P243E	243 Win.	100
P6C	6mm Rem.	100
P257B	257 Roberts +P	120
P2506E	25-06 Rem.	115
P270P	270 Win.	130
P270E	270 Win.	150
P270WSMC	270 Win. Short Magnum	150
P7C	7mm Mauser (7x57mm Mauser)	140
P708A	7mm-08 Rem.	140
P280A	280 Rem.	150
P7RG	7mm Rem. Magnum	140
P7RF	7mm Rem. Magnum	160
P3030D	30-30 Win.	170
P308S	308 Win. (7.62x51mm)	150
P308E	308 Win. (7.62x51mm)	180
P3006AD	30-06 Spring.	165
P3006F	30-06 Spring.	180
P300HA	300 H&H Magnum	180
P300WK	300 Win. Magnum	165
P300WD2	300 Win. Magnum	180
P300WSME	300 Win. Short Magnum	165
P300WSMB	300 Win. Short Magnum	180
P300WBA	300 Weatherby Magnum	180
P300RUMC	300 Rem. Ultra Magnum	200
P338FB	338 Federal	210
P338A2	338 Win. Magnum	210
P338B2	338 Win. Magnum	250
P338RUMA	338 Rem. Ultra Magnum	210
P375F	375 H&H Magnum	300

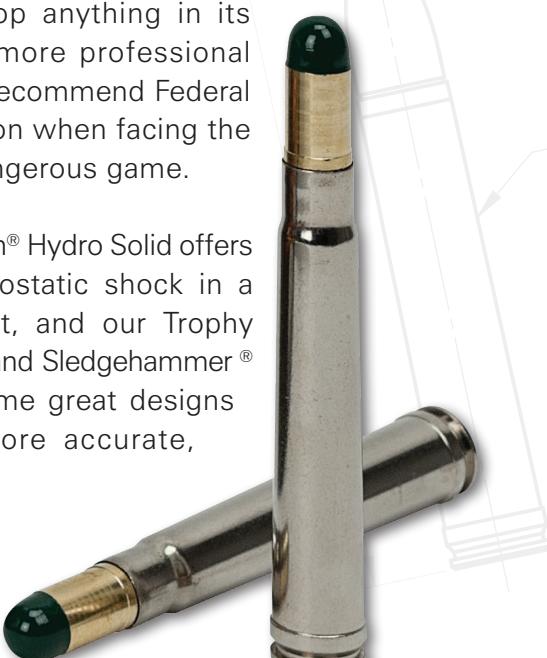


Stopping Power Is Everything

TROPHY, lost animal or worse? Safari or dangerous game hunts can be once-in-a-lifetime. You get one shot. Why trust it to anything less than the best?

Federal proudly loads the toughest bullets with maximum energy and penetration, so you know these loads will stop anything in its tracks. That's why more professional hunters and guides recommend Federal Premium® ammunition when facing the largest and most dangerous game.

Our all-new Woodleigh® Hydro Solid offers unprecedented hydrostatic shock in a non-expanding bullet, and our Trophy Bonded® Bear Claw® and Sledgehammer® Solid feature the same great designs for tougher and more accurate, consistent bullets.



WOODLEIGH® HYDRO SOLI



AME PENETRATION: LARGER WOUND CAVITY



Gelatin shot with 300-grain .375 H&H Magnum Woodleigh® Hydro Solid (P375WH) from a Weatherby Mark V at 100 yards.



Gelatin shot with a 300-grain .375 H&H Magnum conventional solid bullet from a Weatherby Mark 5 at 100 yards.

BREAKTHROUGH BULLET DESIGN



The Woodleigh® Hydro Solid's polymer cap disintegrates on impact, exposing a concave nose and flared pressure ring. It creates a larger wound cavity than traditional solids.

BARNES® TRIPLE-SHOCK® X BULLET

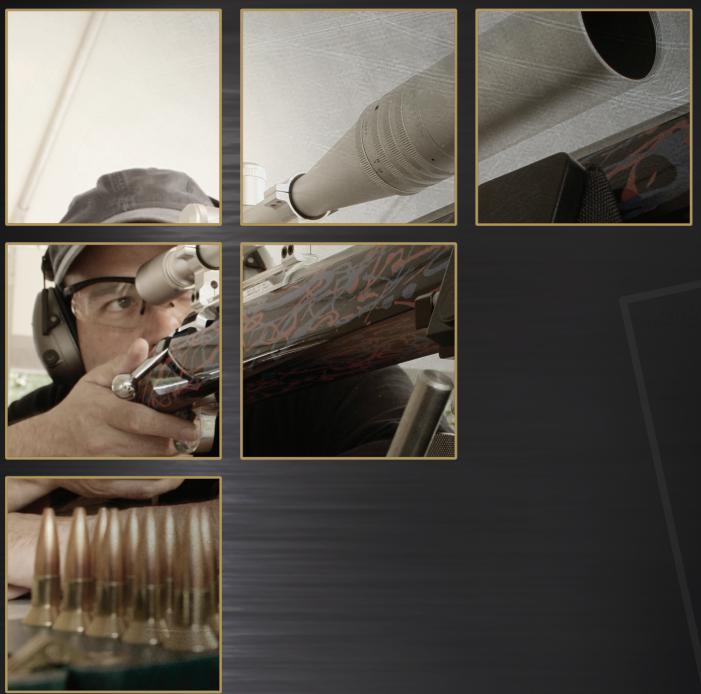
LOAD NO.	CALIBER	GRAINS
P370C	370 Sako Magnum	286
P9362C	9.3x62 Mauser	286
P9374C	9.3x74R	286
P375H	375 H&H Magnum	300
P416D	416 Rigby	400
P416RB	416 Rem. Magnum	400
P458D	458 Win. Magnum	500
P458LA	458 Lott	500
P470C	470 Nitro Express	500
P500NC	500 Nitro Express	570

TROPHY BONDED® BEAR CLAW®		
LOAD NO.	CALIBER	GRAIN
P375T1	375 H&H Magnum	300
P375T3	375 H&H Magnum	300
P416T1	416 Rigby	400
P416RT1	416 Rem. Magnum	400
P458T1	458 Win. Magnum	400
P458T2	458 Win. Magnum	500
P458LT1	458 Lott	500
P470T1	470 Nitro Express	500

TROPHY BONDED® SLEDGEHAMMER® SOLID		
NO.	CALIBER	GRAINS
75T2	375 H&H Magnum	300
16T2	416 Rigby	400
16RT2	416 Rem. Magnum	400
58T3	458 Win. Magnum	500
58LT2	458 Lott	500
70T2	470 Nitro Express	500

SWIFT® A-FRAME®		
AD NO.	CALIBER	GRAINS
370SA	370 Sako Magnum	286
9362SA	9.3x62 Mauser	286
9374SA	9.3x74R	286
375SA	375 H&H Magnum	300
416RSA	416 Rem. Magnum	400
416SA	416 Rigby	400
458SA	458 Win. Magnum	500
470SA	470 Nitro Express	500
500NSA	500 Nitro Express	570

WOODLEIGH® HYDRO SOLID		
LD NO.	CALIBER	GRAINS
370WH	370 Sako Magnum	286
362WH	9.3x62 Mauser	286
374WH	9.3x74R	286
375WH	375 H&H Magnum	300
416WH	416 Rigby	400
416RWH	416 Rem. Magnum	400
458WH	458 Win. Magnum	500
458LWH	458 Lott	500
470WH	470 Nitro Express	500
500NWH	500 Nitro Express	570



The World's Best Target Ammunition

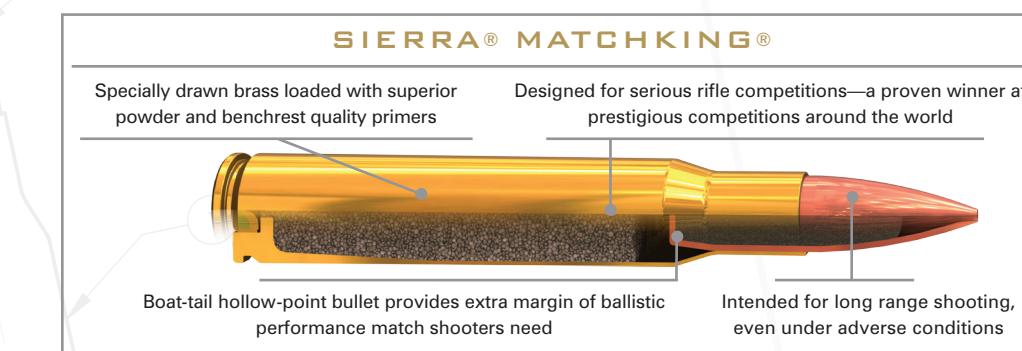
HIGH standards are great, but results matter most. We pride ourselves on setting the standard, and then delivering the best performance every time. Our Gold Medal® line gives shooters the best components made to exact tolerances for

the best accuracy. We carefully load each round with uniform brass, high-quality match primers and legendary Sierra® MatchKing® boat-tail bullets. Our stringent manufacturing processes create what many international shooters, world-class competitors, as well as military and law enforcement officials consider to be the most accurate factory-made match round. Choose Gold Medal when it counts the most.



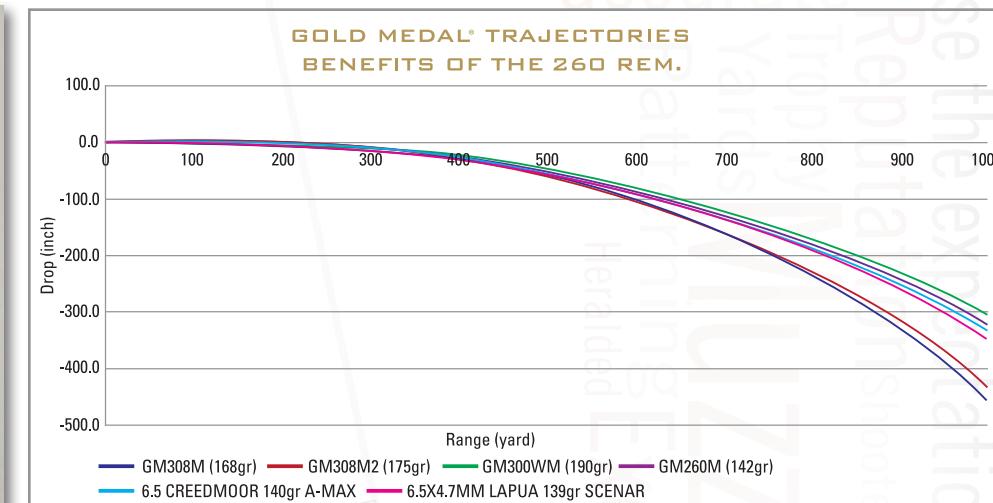
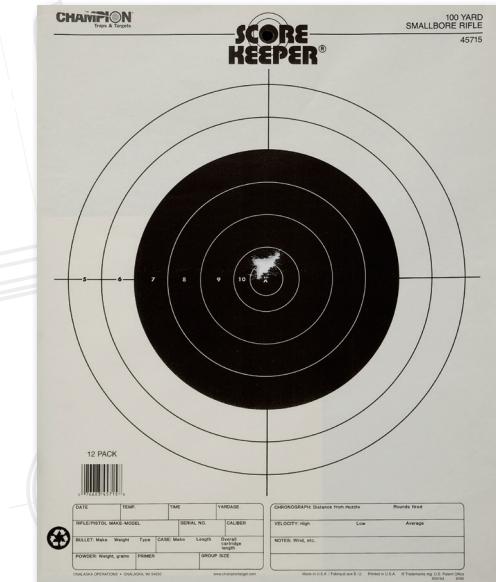
PROVEN PERFORMER

Our special American Eagle® loads designed for the M1 Garand and M1A feature staked primers which ensure consistent primer depth and reduce the risk of slamfires. They're loaded to pressures tailored to these firearms.



SIERRA® MATCHKING® BOAT-TAIL HP		
LOAD NO.	CALIBER	GRAINS
GM223M	223 Rem.	69
GM223M3	223 Rem.	77
GM260M	260 Rem.*	142
GM6555M2	6.5x55mm Swedish	93
GM6555M3	6.5x55mm Swedish	123
GM308M	308 Win. (7.62x51mm)	168
GM308M2	308 Win. (7.62x51mm)	175
GM300M	30-06 Spring.	168
GM300WM	300 Win. Magnum	190
GM338LM	338 Lapua Magnum	250
GM338LM2	338 Lapua Magnum	300

*GM260M requires a 1:8" barrel twist or faster



WHY THE 260 REM?

GM260M uses a 142-grain Sierra MatchKing® with a higher muzzle velocity and better average Ballistic Coefficient than competing 6.5 Creedmoor 140-grain A-MAX® and 6.5x47 Lapua 139-grain Scenar factory loadings.

GM260M has better ballistics at 1,000 yards than many competing 6.5mm cartridges:

- 4% less drop and 3% less wind drift than 6.5 Creedmoor with 140-grain A-MAX®
- 8% less drop and 11% less wind drift than 6.5x47mm Lapua with 139-grain Scenar

GM260M has the least amount of wind drift of all Gold Medal® products, making wind calls more forgiving.

Average ballistic coefficient and calculations obtained from: Book Reference: Litz, Bryan. Applied Ballistics for Long-Range Shooting. 2nd ed. Cedar Springs: Applied Ballistics, LLC, 2011. Print. Ballistics Software Reference: Point Mass Ballistics Software Version 2.0. Copyright 2011 by Applied Ballistics, LLC.



PREMIUM® TARGET

Best in class Competition Rifle Unmatched Camp Per



PREMIUM® RIFLE BALLISTICS

USAGE FEDERAL LOAD NO.	FEDERAL LOAD CALIBER	BULLET WEIGHT IN GRAINS GRAMS		BULLET STYLE	FACTORY PRIMER NO.	VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)	ENERGY IN FOOT-POUNDS (TO NEAREST 5 FOOT-POUNDS)					WIND DRIFT IN INCHES 10 MPH CROSSWIND					HEIGHT OF BULLET TRAJECTORY IN INCHES ABOVE OR BELOW LINE OF SIGHT IF ZEROED AT ♦ YARDS. SIGHTS 1.5 INCHES ABOVE BORE LINE.										TEST BARREL LENGTH INCHES	FEDERAL LOAD NO.									
		MUZZLE	100 YDS.				MUZZLE	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	50 YDS.	AVERAGE RANGE	100 YDS.	200 YDS.	300 YDS.	50 YDS.	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.														
FEDERAL PREMIUM® V•SHOK®																																					
1	P204B	204 Ruger	32	2.07	Nosler Ballistic Tip	205	4030	3470	2970	2520	2120	1760		1155	855	625	450	320	220	1.0	4.4	10.6	20.4	34.6	-0.4	♦	-1.4	-6.8	-0.1	0.7	♦	-4.7	-14.9	-33.1	24	P204B	
1	P204C	204 Ruger	40	2.59	Nosler Ballistic Tip	205	3650	3200	2790	2420	2080	1770		1185	910	695	520	385	275	1.0	4.2	10.0	19.1	32.2	-0.4	♦	-1.9	-8.3	0.1	1.0	♦	-5.4	-16.9	-36.5	24	P204C	
1	P22D	22 Hornet	30	1.94	Speer TNT Green	205	3150	2150	1390	990	830	720		660	310	130	65	45	35	3.5	17.5	46.9	88.9	140.9	-0.1	♦	-6.6	-32.7	1.5	3.3	♦	-22.8	-78.7	-179.7	24	P22D	
1	P22B	22 Hornet	45	2.92	Jacketed Soft Point	205	2690	2100	1590	1210	1000	890		725	440	255	145	100	80	2.6	11.9	30.5	59.3	95.9	0.0	♦	-6.6	-27.5	1.7	3.3	♦	-17.6	-59.5	-134.2	24	P22B	
1	P222C	222 Rem.	40	2.59	Nosler Ballistic Tip	205	3450	2990	2570	2190	1840	1530		1055	790	585	425	300	210	1.2	4.9	11.9	22.8	39.1	-0.3	♦	-2.4	-10.2	0.3	1.2	♦	-6.5	-20.4	-45.0	24	P222C	
1	P222D	222 Rem.	43	2.79	Speer TNT Green	205	3400	2750	2180	1680	1290	1050		1105	720	450	270	160	105	1.8	7.9	20.0	40.4	70.7	-0.3	♦	-3.2	-14.0	0.5	1.6	♦	-9.2	-31.4	-75.9	24	P222D	
1	P223P	223 Rem.	40	2.59	Nosler Ballistic Tip	205	3700	3210	2770	2370	2010	1680		1215	915	680	500	360	250	1.1	4.5	10.8	20.8	35.3	-0.4	♦	-1.9	-8.3	0.1	0.9	♦	-5.5	-17.3	-38.1	24	P223P	
1	P223R	223 Rem.	43	2.79	Speer TNT Green	205	3600	2920	2330	1810	1390	1100		1235	810	515	315	185	115	1.6	7.2	18.3	37.1	65.6	-0.3	♦	-2.7	-11.9	0.3	1.3	♦	-7.9	-27.1	-65.9	24	P223R	
1	P223F	223 Rem.	55	3.56	Nosler Ballistic Tip	205	3240	2870	2530	2210	1920	1650		1280	1005	780	595	450	335	1.0	4.3	10.4	19.6	33.2	-0.3	♦	-2.8	-11.0	0.4	1.4	♦	-6.8	-20.8	-44.6	24	P223F	
1	P22250D	22-250 Rem.	43	2.79	Speer TNT Green	210	4000	3250	2620	2070	1590	1220		1530	1010	655	405	240	145	1.5	6.4	15.9	31.9	56.7	-0.4	♦	-1.8	-8.9	0.0	0.9	♦	-6.1	-20.8	-50.5	24	P22250D	
1	P22250F	22-250 Rem.	55	3.56	Nosler Ballistic Tip	210	3670	3260	2890	2550	2230	1940		1645	1300	1020	795	610	460	0.9	3.7	8.7	16.5	27.4	-0.4	♦	-1.8	-7.7	0.1	0.9	♦	-5.1	-15.5	-33.0	24	P22250F	
1	P220B	220 Swift	40	2.59	Nosler Ballistic Tip	210	4250	3690	3200	2770	2370	2000		1605	1210	910	680	500	355	0.9	3.8	9.2	17.3	29.2	-0.5	♦	-1.1	-5.5	-0.2	0.5	♦	-3.9	-12.4	-27.3	24	P220B	
1	P243H	243 Win.	55	3.56	Nosler Ballistic Tip	210	3850	3440	3060	2720	2400	2110		1810	1445	1145	905	705	540	0.8	3.4	7.9	14.9	24.7	-0.4	♦	-1.5	-6.6	-0.1	0.7	♦	-4.4	-13.6	-28.9	24	P243H	
1	P243F	243 Win.	70	4.54	Nosler Ballistic Tip	210	3450	3110	2800	2510	2240	1980		1850	1505	1220	980	780	610	0.8	3.4	8.0	15.0	24.8	-0.3	♦	-2.1	-8.6	0.2	1.0	♦	-5.5	-16.5	-34.6	24	P243F	
1	P2506G	25-06 Rem.	85	5.51	Nosler Ballistic Tip	210	3550	3230	2930	2640	2380	2130		2380	1965	1615	1320	1070	855	0.7	3.0	7.2	13.3	22.0	-0.4	♦	-1.8	-7.8	0.1	0.9	♦	-5.0	-15.0	-31.2	24	P2506G	
FEDERAL PREMIUM® VITAL•SHOK®																																					
2	P223Q	223 Rem.	60	3.89	Nosler Partition	205	3160	2740	2350	2000	1680	1400		1330	1000	735	530	375	260	1.2	5.3	13.1	25.2	42.9	-0.2	♦	-3.2	-12.7	0.5	1.6	♦	-8.0	-24.8	-54.4	24	P223Q	
2	P22250G	22-250 Rem.	60	3.89	Nosler Partition	210	3500	3040	2630	2250	1910	1600		1630	1235	920	675	485	340	1.1	4.7	11.3	21.6	36.9	-0.3	♦	-2.3	-9.6	0.2	1.1	♦	-6.2	-19.3	-42.4	24	P22250G	
♦	2	P243TC1	243 Win.	85	5.51	Trophy Copper	210	3200	2950	2710	2480	2270	2060		1935	1640	1385	1160	970	800	0.7	2.9	6.8	12.5	20.5	-0.3	♦	-2.5	-9.8	0.3	1.3	♦	-6.0	-17.6	-36.2	24	P243TC1
2	P243J	243 Win.	9																																		



PREMIUM® RIFLE BALLISTICS

USAGE	FEDERAL LOAD NO.	CALIBER	BULLET WEIGHT IN GRAINS GRAMS		FACTORY PRIMER NO.	VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)	ENERGY IN FOOT-POUNDS (TO NEAREST 5 FOOT-POUNDS)					WIND DRIFT IN INCHES 10 MPH CROSSWIND					HEIGHT OF BULLET TRAJECTORY IN INCHES ABOVE OR BELOW LINE OF SIGHT IF ZEROED AT ♦ YARDS. SIGHTS 1.5 INCHES ABOVE BORE LINE.										TEST BARREL LENGTH INCHES	FEDERAL LOAD NO.								
			MUZZLE	100 YDS.			MUZZLE	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	MUZZLE	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	50 YDS.	AVERAGE RANGE	100 YDS.	200 YDS.	300 YDS.	50 YDS.	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.							
FEDERAL PREMIUM® VITAL-SHOK®																																				
♦	2	P270WSMC	270 Win. Short Magnum	150	9.72	Nosler Partition	215	3100	2890	2690	2500	2320	2150	3200	2785	2415	2085	1790	1530	0.6	2.5	5.8	10.6	17.4	-0.3	♦	-2.7	-10.1	0.4	1.3	♦	-6.1	-17.8	36.0	24	P270WSMC
♦	2	P270WBTT1	270 Weatherby Magnum	130	8.42	Trophy Bonded Tip	215	3200	2970	2760	2560	2360	2170	2955	2555	2200	1885	1610	1365	0.6	2.5	5.9	10.9	17.8	-0.3	♦	-2.4	-9.5	0.3	1.2	♦	-5.8	-16.9	34.3	24	P270WBTT1
2	P730A	7-30 Waters	120	7.78	Sierra GameKing BTSP FN	210	2700	2300	1930	1600	1330	1130	1940	1405	990	685	470	340	1.6	7.1	17.7	34.4	58.1	-0.1	♦	-5.1	-19.9	1.2	2.6	♦	-12.2	-38.1	84.5	24	P730A	
2	P7C	7mm Mauser (7x57mm Mauser)	140	9.07	Nosler Partition	210	2660	2460	2260	2080	1900	1740	2200	1875	1595	1345	1125	940	0.8	3.3	7.9	14.4	23.7	-0.1	♦	-4.3	-15.4	1.0	2.1	♦	-9.0	-25.8	52.6	24	P7C	
♦	2	P708TT2	7mm-08 Rem.	140	9.07	Trophy Bonded Tip	210	2800	2590	2390	2200	2010	1840	2435	2085	1770	1500	1260	1050	0.8	3.1	7.4	13.6	22.1	-0.1	♦	-3.7	-13.5	0.8	1.8	♦	-8.0	-23.2	46.8	24	P708TT2
♦	2	P708TC2	7mm-08 Rem.	140	9.07	Trophy Copper	210	2800	2610	2440	2260	2100	1940	2435	2125	1845	1595	1370	1170	0.7	2.7	6.4	11.8	18.9	-0.2	♦	-3.6	-13.0	0.7	1.8	♦	-7.7	-22.2	44.4	24	P708TC2
2	P708A	7mm-08 Rem.	140	9.07	Nosler Partition	210	2800	2590	2390	2200	2020	1850	2435	2090	1780	1505	1270	1060	0.8	3.1	7.3	13.4	21.8	-0.1	♦	-3.6	-13.5	0.8	1.8	♦	-8.0	-23.1	46.6	24	P708A	
2	P708B	7mm-08 Rem.	140	9.07	Nosler Ballistic Tip	210	2800	2610	2430	2260	2090	1940	2435	2120	1840	1585	1365	1165	0.7	2.7	6.4	11.9	19.1	-0.2	♦	-3.6	-13.1	0.7	1.8	♦	-7.7	-22.3	44.5	24	P708B	
♦	2	P280TT2	280 Rem.	140	9.07	Trophy Bonded Tip	210	2950	2730	2520	2330	2140	1960	2705	2320	1980	1680	1420	1190	0.7	2.9	6.8	12.7	20.5	-0.2	♦	-3.2	-11.8	0.6	1.6	♦	-7.0	-20.6	41.5	24	P280TT2
♦	2	P280TC2	280 Rem.	140	9.07	Trophy Copper	210	2950	2760	2570	2400	2230	2060	2705	2365	2060	1785	1540	1325	0.6	2.6	5.9	10.9	17.7	-0.2	♦	-3.1	-11.4	0.6	1.5	♦	-6.7	-19.6	39.5	24	P280TC2
2	P280D	280 Rem.	140	9.07	Nosler Ballistic Tip	210	2990	2790	2610	2430	2260	2090	2780	2425	2115	1830	1580	1355	0.6	2.5	5.8	10.7	17.5	-0.2	♦	-3.0	-11.0	0.5	1.5	♦	-6.5	-19.1	38.5	24	P280D	
2	P280A	280 Rem.	150	9.72	Nosler Partition	210	2890	2690	2490	2310	2130	1960	2780	2405	2070	1775	1510	1280	0.7	2.9	6.5	12.2	19.6	-0.2	♦	-3.3	-12.2	0.6	1.7	♦	-7.2	-21.1	42.4	24	P280A	
♦	2	P7RTT2	7mm Rem. Magnum	140	9.07	Trophy Bonded Tip	215	3150	2920	2710	2500	2300	2110	3085	2655	2275	1940	1645	1390	0.6	2.7	6.2	11.4	18.7	-0.3	♦	-2.6	-10.0	0.4	1.3	♦	-6.1	-17.6	35.9	24	P7RTT2
♦	2	P7RTC2	7mm Rem. Magnum	140	9.07	Trophy Copper	215	3150	2950	2760	2570	2400	2230	3085	2705	2360	2055	1785	1540	0.5	2.3	5.4	9.8	16.0	-0.3	♦	-2.5	-9.6	0.3	1.3	♦	-5.9	-16.9	34.1	24	P7RTC2
2	P7RG	7mm Rem. Magnum	140	9.07	Nosler Partition	215	3150	2920	2710	2500	2310	2120	3085	2655	2280	1950	1655	1400	0.6	2.6	6.1	11.3	18.5	-0.3	♦	-2.6	-9.9	0.4	1.3	♦	-6.0	-17.6	35.8	24	P7RG	
♦	3	P7RTC3	7mm Rem. Magnum	150	9.72	Trophy Copper	215	3025	2830	2650	2470	2300	2140	3045	2675	2335	2035	1765	1525	0.6	2.4	5.6	10.2	16.7	-0.2	♦	-2.9	-10.7	0.5	1.4	♦	-6.4	-18.4	37.1	24	P7RTC3
2	P7RH	7mm Rem. Magnum	150	9.72	Nosler Ballistic Tip	215	3025	2830	2650	2470	2300	2130	3045	2670	2335	2030	1760	1515	0.6	2.4	5.6	10.3	16.8	-0.2	♦	-2.9	-10.7	0.5	1.4	♦	-6.4	-18.4	37.2	24	P7RH	
3	P7RD	7mm Rem. Magnum	150	9.72	Sierra GameKing BTSP	215	3110	2890	2680	2470	2280	2090	3220	2775	2385	2035	1730	1460	0.6	2.7	6.2	11.5	18.7	-0.3	♦	-2.7	-10.2	0.4	1.4	♦	-6.2	-18.1	36.7	24	P7RD	
♦	3	P7RTT1	7mm Rem. Magnum	160	10.37	Trophy Bonded Tip	215	2900	2720	2550	2380	2220	2070	2990	2630	2310	2015	1755	1525	0.6	2.5	5.6	10.4	16.9	-0.2	♦	-3.2	-11.7	0.6	1.6	♦	-6.9	-20.0	40.2		



PREMIUM® RIFLE BALLISTICS



USAGE	FEDERAL LOAD NO.	CALIBER	BULLET WEIGHT IN GRAINS GRAMS		FACTORY PRIMER NO.	VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)	ENERGY IN FOOT-POUNDS (TO NEAREST 5 FOOT-POUNDS)					WIND DRIFT IN INCHES (10 MPH CROSSWIND)					HEIGHT OF BULLET TRAJECTORY IN INCHES ABOVE OR BELOW LINE OF SIGHT IF ZEROED AT ♦ YARDS. SIGHTS 1.5 INCHES ABOVE BORE LINE.										TEST BARREL LENGTH INCHES	FEDERAL LOAD NO.							
			MUZZLE	100 YDS.			MUZZLE	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	MUZZLE	100 YDS.	200 YDS.	300 YDS.	500 YDS.	50 YDS.	AVERAGE RANGE	100 YDS.	200 YDS.	300 YDS.	50 YDS.	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.							
FEDERAL PREMIUM® VITAL-SHOK®																																			
2	P3006AD	30-06 Spring.	165	10.69	Nosler Partition	210	2830	2610	2400	2190	2000	1820	2935	2490	2100	1760	1465	1210	0.8	3.2	7.7	14.2	23.1	-0.2	♦	-3.6	-13.3	0.7	1.8	♦	-7.9	-23.0	24	P3006AD	
2	P3006D	30-06 Spring.	165	10.69	Sierra GameKing BTSP	210	2800	2580	2360	2160	1970	1780	2870	2430	2045	1710	1415	1165	0.8	3.3	7.9	14.6	23.9	-0.1	♦	-3.7	-13.8	0.8	1.9	♦	-8.2	-23.7	24	P3006D	
3	P3006F	30-06 Spring.	180	11.66	Nosler Partition	210	2700	2510	2330	2160	2000	1840	2915	2525	2175	1865	1590	1350	0.7	2.9	7.0	12.9	20.7	-0.1	♦	-4.0	-14.5	0.9	2.0	♦	-8.5	-24.4	24	P3006F	
◊	3	P3006TC1	30-06 Spring.	180	11.66	Trophy Copper	210	2700	2530	2370	2210	2060	1910	2915	2555	2235	1950	1690	1455	0.6	2.6	6.2	11.5	18.4	-0.1	♦	-3.9	-14.1	0.9	2.0	♦	-8.3	-23.6	24	P3006TC1
HEORMEF	3	P3006TT4	30-06 Spring.	180	11.66	Trophy Bonded Tip	210	2880	2700	2520	2350	2180	2020	3315	2900	2530	2200	1900	1635	0.7	2.6	5.9	11.0	17.8	-0.2	♦	-3.3	-12.0	0.6	1.6	♦	-7.1	-20.6	24	P3006TT4
◊	2	P3006TT1	30-06 Spring.	180	11.66	Trophy Bonded Tip	210	2700	2520	2350	2190	2030	1880	2915	2540	2210	1910	1645	1410	0.7	2.7	6.6	12.0	19.4	-0.1	♦	-3.9	-14.3	0.9	2.0	♦	-8.4	-23.9	24	P3006TT1
◊	3	P3006T5	30-06 Spring.	200	11.66	Trophy Bonded Bear Claw	210	2540	2320	2120	1920	1740	1570	2865	2395	1990	1640	1345	1095	0.9	4.0	9.2	17.4	28.7	0.0	♦	-5.0	-17.6	1.2	2.5	♦	-10.1	-29.9	24	P3006T5
◊	3	P300HA	300 H&H Magnum	180	11.66	Nosler Partition	215	2880	2620	2380	2150	1930	1730	3315	2750	2260	1845	1490	1190	0.9	3.7	8.8	16.3	27.0	-0.2	♦	-3.5	-13.3	0.7	1.8	♦	-8.0	-23.4	24	P300HA
◊	3	P300HTC1	300 H&H Magnum	180	11.66	Trophy Copper	215	2880	2700	2530	2370	2210	2060	3315	2920	2565	2240	1950	1695	0.6	2.5	5.6	10.5	16.9	-0.2	♦	-3.3	-11.9	0.6	1.6	♦	-7.0	-20.3	24	P300HTC1
◊	3	P300HTT1	300 H&H Magnum	180	11.66	Trophy Bonded Tip	215	2880	2700	2520	2350	2180	2020	3315	2900	2530	2200	1900	1635	0.7	2.6	5.9	11.0	17.8	-0.2	♦	-3.3	-12.0	0.6	1.6	♦	-7.1	-20.6	24	P300HTT1
◊	3	P300WTT2	300 Win. Magnum	165	10.69	Trophy Bonded Tip	215	3050	2840	2630	2440	2250	2080	3410	2950	2540	2180	1860	1575	0.6	2.7	6.1	11.4	18.5	-0.2	♦	-2.9	-10.7	0.5	1.4	♦	-6.4	-18.7	24	P300WTT2
◊	2	P300WTC2	300 Win. Magnum	165	10.69	Trophy Copper	215	3050	2860	2680	2500	2330	2170	3410	2995	2620	2290	1990	1720	0.5	2.4	5.5	10.0	16.3	-0.3	♦	-2.8	-10.4	0.4	1.4	♦	-6.3	-18.0	24	P300WTC2
◊	2	P300WK	300 Win. Magnum	165	10.69	Nosler Partition	215	3050	2820	2590	2380	2180	1990	3410	2905	2465	2080	1740	1450	0.7	3.0	6.8	12.8	20.8	-0.2	♦	-2.9	-10.9	0.5	1.5	♦	-6.6	-19.4	24	P300WK
◊RMEF	3	P300WTT1	300 Win. Magnum	180	11.66	Trophy Bonded Tip	215	2960	2770	2590	2420	2250	2090	3500	3070	2680	2335	2025	1745	0.6	2.5	5.7	10.5	17.1	-0.2	♦	-3.1	-11.2	0.5	1.5	♦	-6.6	-19.3	24	P300WTT1
◊RMEF	3	P300WTC1	300 Win. Magnum	180	11.66	Trophy Copper	215	2960	2780	2610	2440	2280	2120	3500	3090	2715	2380	2075	1805	0.6	2.4	5.4	10.0	16.3	-0.2	♦	-3.0	-11.1	0.5	1.5	♦	-6.6	-19.0	24	P300WTC1
◊RMEF	3	P300WD2	300 Win. Magnum	180	11.66	Nosler Partition	215	2960	2700	2460	2220	2010	1800	3500	2915	2410	1980	1605	1295	0.9	3.5	8.3	15.4	25.3	-0.2	♦	-3.3	-12.3	0.6	1.6	♦	-7.4	-21.9	24	P300WD2
◊	3	P300WT1	300 Win. Magnum	200	12.96	Trophy Bonded Bear Claw	215	2700	2480	2260	2060	1870	1690	3235	2720	2275	1885	1550	1265	0.9	3.6	8.5	15.7	26.1	-0.1	♦	-4.2	-15.2	0.9	2.1	♦	-8.9	-25.9	24	P300WT1
◊	2	P300WSMD	300 Win. Short Magnum	150	9.72	Nosler Ballistic Tip	215	3250	3020	2800	2590	2390	2200	3520	3035	2610	2235	1905	1615	0.6	2.5	5.9	10.8	17.6	-0.3	♦	-2.3	-9.1	0.3	1.2	♦	-5.6	-16.3	24	P300WSMD
◊	3	P300WSMT2	300 Win. Short Magnum	165	10.69	Trophy Bonded Tip	215	3130	2910	2710	2510	2320	2140	3590	3110	2680	2305	1970	1675	0.6	2.6	5.9	10.9	17.9	-0.3	♦	-2.6	-10.0	0.4	1.3	♦	-6.0	-17.6		

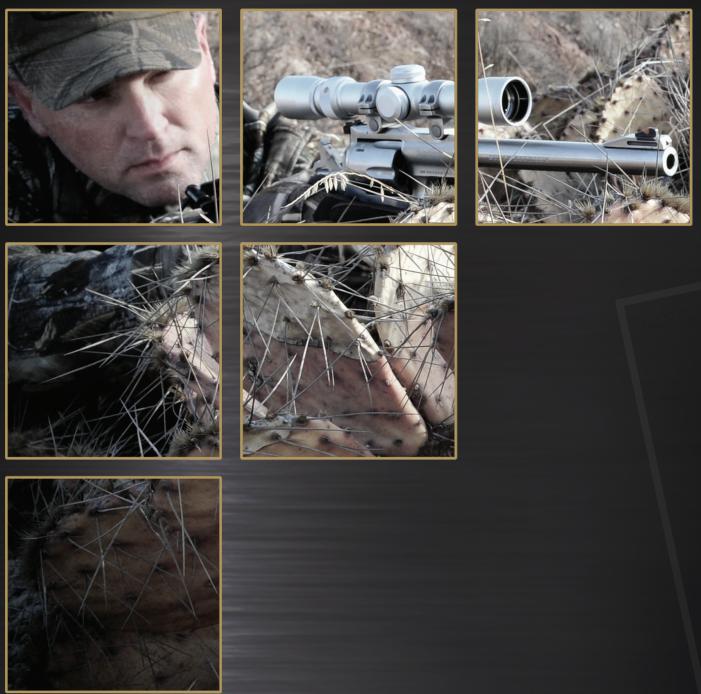


PREMIUM® SAFARI AND TARGET BALLISTICS

USAGE	FEDERAL LOAD NO.	CALIBER	BULLET WEIGHT IN GRAINS GRAMS		FACTORY PRIMER NO.	VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)	DESCRIPTION						ENERGY IN FOOT-POUNDS (TO NEAREST 5 FOOT-POUNDS)					WIND DRIFT IN INCHES 10 MPH CROSSWIND					HEIGHT OF BULLET TRAJECTORY IN INCHES ABOVE OR BELOW LINE OF SIGHT IF ZEROED AT ♦ YARDS. SIGHTS 1.5 INCHES ABOVE BORE LINE.										TEST BARREL LENGTH INCHES	FEDERAL LOAD NO.			
			MUZZLE	100 YDS.			100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	MUZZLE	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	MUZZLE	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	AVERAGE RANGE	100 YDS.	200 YDS.	300 YDS.	50 YDS.	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.				
FEDERAL PREMIUM® CAPE-SHOK®																																					
♦ SCI	4	P370C	370 Sako Magnum	286	18.53	Barnes Triple-Shock X Bullet	210	2550	2370	2190	2020	1860	1710	4130	3555	3045	2595	2195	1855	0.7	3.3	7.6	14.0	23.1	0.0	♦	-4.8	-16.7	1.2	2.4	♦	-9.6	-27.5	-56.0	24	P370C	
NEW ▶	♦ SCI	4	P370WH	370 Sako Magnum	286	18.53	Woodleigh Hydro Solid	210	2550	2230	1920	1650	1410	1220	4130	3145	2350	1730	1265	945	1.5	6.2	15.3	29.1	48.7	0.0	♦	-5.5	-20.7	1.4	2.8	♦	-12.4	-37.5	-80.7	24	P370WH
♦ SCI	4	P370SA	370 Sako Magnum	286	18.53	Swift A-Frame	210	2550	2330	2120	1920	1730	1560	4130	3440	2845	2330	1900	1540	0.9	4.1	9.4	17.9	29.4	0.0	♦	-5.0	-17.6	1.2	2.5	♦	-10.1	-30.0	-61.5	24	P370SA	
NEW ▶	♦ SCI	4	P9362C	9.3x62 Mauser	286	18.53	Barnes Triple-Shock X Bullet	210	2360	2160	1970	1790	1630	1470	3535	2965	2465	2035	1675	1375	1.1	4.3	9.9	18.8	30.4	♦	-0.2	-6.4	0.1	♦	-5.9	-20.8	-46.9	-85.7	24	P9362C	
♦ SCI	4	P9362WH	9.3x62 Mauser	286	18.53	Woodleigh Hydro Solid	210	2360	2050	1760	1510	1300	1130	3535	2665	1975	1445	1065	815	1.7	7.1	17.1	32.6	53.9	0.1	♦	-6.8	-24.9	1.9	3.4	♦	-14.7	-45.0	-96.5	24	P9362WH	
♦ SCI	4	P9362SA	9.3x62 Mauser	286	18.53	Swift A-Frame	210	2360	2150	1950	1760	1580	1420	3535	2930	2405	1960	1590	1285	1.2	4.5	10.8	20.2	32.9	♦	-0.2	-6.5	-22.0	0.1	♦	-6.0	-21.3	-48.0	-88.4	24	P9362SA	
♦ SCI	4	P9374C	9.3x74R	286	18.53	Barnes Triple-Shock X Bullet	210	2360	2160	1970	1790	1630	1470	3535	2965	2465	2035	1675	1375	1.1	4.3	9.9	18.8	30.4	♦	-0.2	-6.4	-21.5	0.1	♦	-5.9	-20.8	-46.9	-85.7	24	P9374C	
♦ SCI	4	P9374WH	9.3x74R	286	18.53	Woodleigh Hydro Solid	210	2360	2050	1760	1510	1300	1130	3535	2665	1975	1445	1065	815	1.7	7.1	17.1	32.6	53.9	0.1	♦	-6.8	-24.9	1.9	3.4	♦	-14.7	-45.0	-96.5	24	P9374WH	
♦ SCI	4	P9374SA	9.3x74R	286	18.53	Swift A-Frame	210	2360	2150	1950	1760	1580	1420	3535	2930	2405	1960	1590	1285	1.2	4.5	10.8	20.2	32.9	♦	-0.2	-6.5	-22.0	0.1	♦	-6.0	-21.3	-48.0	-88.4	24	P9374SA	
♦ SCI	4	P375H	375 H&H Magnum	300	19.44	Barnes Triple-Shock X Bullet	215	2470	2240	2010	1800	1610	1440	4065	3325	2700	2170	1735	1380	1.1	4.6	10.9	20.7	33.8	0.0	♦	-5.5	-19.5	1.4	2.7	♦	-11.3	-33.6	-69.0	24	P375H	
♦ SCI	4	P375WH	375 H&H Magnum	300	19.44	Woodleigh Hydro Solid	215	2500	2180	1880	1610	1380	1200	4165	3160	2355	1735	1270	950	1.5	6.4	15.8	30.0	50.1	0.1	♦	-5.8	-21.7	1.5	2.9	♦	-20.1	-46.3	-88.0	24	P375WH	
♦ SCI	4	P375T1	375 H&H Magnum	300	19.44	Trophy Bonded Bear Claw	215	2400	2160	1930	1720	1530	1360	3835	3105	2485	1975	1555	1230	1.3	5.0	12.1	22.6	37.3	0.1	♦	-5.9	-21.3	1.6	3.0	♦	-13.0	-39.4	-84.6	24	P375T1	
♦ SCI	4	P375T2	375 H&H Magnum	300	19.44	Trophy Bonded Sledgehammer Solid	215	2440	2120	1820	1550	1320	1150	3965	2980	2195	1595	1165	875	1.7	6.9	16.9	32.2	53.6	♦	-0.2	-6.7	-23.9	0.1	♦	-6.3	-23.4	-55.1	-107.3	24	P375T2	
HE+SCI	4	P375T3	375 H&H Magnum	300	19.44	Trophy Bonded Bear Claw	215	2600	2350	2110	1890	1680	1490	4505	3670	2965	2365	1880	1480	1.0	4.5	10.5	20.1	33.1	0.0	♦	-4.9	-17.4	1.2	2.4	♦	-10.1	-30.4	-62.9	24	P375T3	
♦ SCI	4	P375SA	375 H&H Magnum	300	19.44	Swift A-Frame	215	2450	2190	1950	1730	1530	1350	4000	3205	2540	1995	1555	1215	1.3	5.2	12.4	23.3	38.6	♦	-0.1	-6.0	-21.1	0.1	♦	-5.7	-20.7	-47.3	-89.1	24	P375SA	
♦ SCI	4	P416D	416 Rigby	400	25.92	Barnes Triple-Shock X Bullet	216	2400	2190	1990	1800	1630	1460	5115	4255	3515	2875	2345	1905	1.1	4.4	10.2	19.3	31.4	♦	-0.2	-6.1	-20.8	0.1	♦	-5.8	-20.3	-45.9	-84.3	24	P416D	
♦ SCI	4	P416WH	416 Rigby	400	25.92	Woodleigh Hydro Solid	216	2400	2090	1800	1540	1320	1150	5115	3865	2865	2105	1545	1175	1.7	6.8	16.7	31.9	52.8	0.1	♦	-6.5	-24.0	1.7	3.2	♦	-14.2	-43.4	-92.9	24	P416WH	
♦ SCI	4	P416T1	416 Rigby	400	25.92	Trophy Bonded Bear Claw	216	2300	2080	1880	1690	1520	1360	4700	3860	3140	2540	2045	1645	1.2	4.8</td																



USAGE	FEDERAL LOAD NO.	CALIBER	BULLET WEIGHT IN GRAINS GRAMS		FACTORY PRIMER NO.	VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)					ENERGY IN FOOT-POUNDS (TO NEAREST 5 FOOT-POUNDS)					WIND DRIFT IN INCHES 10 MPH CROSSWIND					HEIGHT OF BULLET TRAJECTORY IN INCHES ABOVE OR BELOW LINE OF SIGHT IF ZEROED AT ♦ YARDS. SIGHTS 1.5 INCHES ABOVE BORE LINE.								TEST BARREL LENGTH INCHES	FEDERAL LOAD NO.								
			MUZZLE	100 YDS.		200 YDS.	300 YDS.	400 YDS.	500 YDS.	MUZZLE	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	AVERAGE RANGE	100 YDS.	200 YDS.	300 YDS.	50 YDS.	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.								
FEDERAL® POWER-SHOK®																																						
1	222A	222 Rem. (5.56x43mm)	50	3.24	Soft Point	205	3140	2710	2320	1960	1640	1370				1095	815	595	425	300	205	1.3	5.5	13.5	26.3	44.7	-0.2	♦	-3.3	-13.1	0.6	1.6	♦	-8.2	-25.7	-56.5	24	222A
1	223A	223 Rem.	55	3.56	Soft Point	205	3240	2800	2400	2040	1710	1420				1280	955	705	505	355	245	1.2	5.3	12.9	25.0	42.6	-0.3	♦	-3.0	-12.0	0.5	1.5	♦	-7.6	-23.8	-52.3	24	223A
1	223B	223 Rem.	55	3.56	Full Metal Jacket Boat-Tail	205	3240	2870	2540	2220	1930	1670				1280	1010	785	605	455	340	1.0	4.3	10.2	19.4	32.7	-0.3	♦	-2.7	-10.9	0.4	1.4	♦	-6.8	-20.6	-44.2	24	223B
2	223L	223 Rem.	64	4.15	Soft Point	205	3050	2680	2340	2030	1740	1490				1320	1020	780	585	430	315	1.2	4.9	11.8	22.6	38.2	-0.2	♦	-3.3	-13.1	0.6	1.7	♦	-8.1	-24.7	-53.2	24	223L
1	22250A	22-250 Rem.	55	3.56	Soft Point	210	3650	3170	2730	2340	1980	1660				1625	1225	915	670	480	335	1.1	4.6	10.9	21.1	35.8	-0.4	♦	-2.0	-8.6	0.1	1.0	♦	-5.7	-17.8	-39.2	24	22250A
2	243AS	243 Win.	80	5.18	Soft Point	210	3330	3050	2790	2540	2310	2090				1970	1655	1380	1150	945	775	0.7	3.0	6.9	12.8	21.1	-0.3	♦	-2.2	-9.0	0.2	1.1	♦	-5.6	-16.6	-34.2	24	243AS
2	243B	243 Win.	100	6.48	Soft Point	210	2960	2700	2450	2210	1990	1780				1945	1615	1330	1085	880	705	0.9	3.6	8.4	15.8	25.9	-0.2	♦	-3.3	-12.4	0.6	1.6	♦	-7.5	-22.1	-45.4	24	243B
2	6AS	6mm Rem.	80	5.18	Soft Point	210	3400	3120	2850	2600	2360	2140				2055	1725	1445	1200	995	815	0.7	2.9	6.8	12.5	20.5	-0.3	♦	-2.1	-8.5	0.2	1.0	♦	-5.4	-15.8	-32.6	24	6AS
2	6B	6mm Rem.	100	6.48	Soft Point	210	3100	2830	2570	2330	2100	1880				2135	1775	1470	1205	980	785	0.8	3.4	7.9	14.8	24.1	-0.3	♦	-2.9	-11.0	0.5	1.4	♦	-6.7	-19.9	-40.7	24	6B
2	2506BS	25-06 Rem.	117	7.58	Soft Point	210	3030	2770	2520	2280	2060	1850				2385	1990	1650	1355	1105	890	0.8	3.4	8.0	14.9	24.4	-0.2	♦	-3.1	-11.6	0.5	1.5	♦	-7.0	-20.8	-42.5	24	2506BS
2	6555B	6.5x55mm Swedish	140	9.07	Soft Point*	210	2650	2450	2260	2080	1900	1740				2185	1865	1585	1340	1120	935	0.7	3.3	7.8	14.3	23.6	-0.1	♦	-4.3	-15.5	1.0	2.2	♦	-9.0	-25.9	-52.8	24	6555B
2	270A	270 Win.	130	8.42	Soft Point	210	3060	2800	2560	2330	2110	1900				2705	2265	1890	1565	1285	1045	0.8	3.2	7.6	14.2	23.1	-0.2	♦	-3.0	-11.2	0.5	1.5	♦	-6.7	-20.0	-40.9	24	270A
2	270B	270 Win.	150	9.72	Soft Point RN	210	2830	2490	2170	1870	1610	1370				2665	2055	1565	1165	860	630	1.3	5.4	12.8	24.9	41.7	-0.1	♦	-4.2	-15.7	0.9	2.1	♦	-9.4	-29.2	-62.6	24	270B
2	270WSME	270 Win. Short Magnum	130	8.42	Soft Point	215	3250	2980	2720	2480	2250	2030				3050	2560	2140	1775	1460	1195	0.7	3.0	7.1	13.2	21.7	-0.3	♦	-2.4	-9.6	0.3	1.2	♦	-5.9	-17.5	-36.0	24	270WSME
2	7B	7mm Mauser (7x57mm Mauser)	140	9.07	Soft Point	210	2660	2450	2260	2070	1890	1720				2200	1870	1585	1330	1110	920	0.8	3.4	8.0	14.7	24.3	-0.1	♦	-4.3	-15.5	1.0	2.1	♦	-9.0	-25.9	-53.1	24	7B
2	7A	7mm Mauser (7x57mm Mauser)	175	11.34	Soft Point RN	210	2390	2090	1810	1560	1350	1180				2220	1695	1275	950	705	540	1.6	6.5	16.0	30.2	50.2	0.1	♦	-6.5	-23.7	1.7	3.2	♦	-14.1	-42.4	-90.4	24	7A
2	708CS	7mm-08 Rem.	150	9.72	Soft Point	210	2650	2440	2240	2040	1860	1690				2340	1980	1665	1390	1150	950	0.8	3.5	8.3	15.3	25.4	-0.1	♦	-4.4	-15.7	1.0	2.2	♦	-9.2	-26.5	-54.4	24	708CS
2	280B	280 Rem.	150	9.72	Soft Point	210	2890	2670	2460	2250	2060	1880				2780	2370	2010	1690	1415	1175	0.8	3.1	7.3	13.6	22.0	-0.2	♦	-3.4	-12.6	0.7	1.7	♦	-7.5	-21.9	-44.2	24	280B
2	7RA	7mm Rem. Magnum	150	9.72	Soft Point	215	3110	2840	2590	2350	2120	1910				3220	2685	2230	1835	1495	1210	0.8	3.3	7.7	14.5	23												



LOAD SELECTOR TOOL



With more than 1,000 options for hunters and shooters, it's hard to know which load is right for you. That's why we've created an interactive load selector tool online and in-store. This guide provides recommendations and ballistics data to help you prepare for your next shooting adventure. Visit FederalPremium.com/recommendation or stop by one of our many retailers nationwide.



Our CastCore® offerings smash through bone without breaking apart.

These heavy, blunt-nose bullets are constructed of hard-cast lead for deep penetration and knockdown power on hogs, deer and bears.



PREMIUM MEANS...

Best in class bullets. World-renowned factory-loaded ammunition. Options for every discipline. When Federal began loading its Premium® line of rifle cartridges in 1977, it broke new ground in the ammunition business and established a reputation for providing the best available bullets in a top-quality cartridge. This tradition continues through our handgun lineup today.

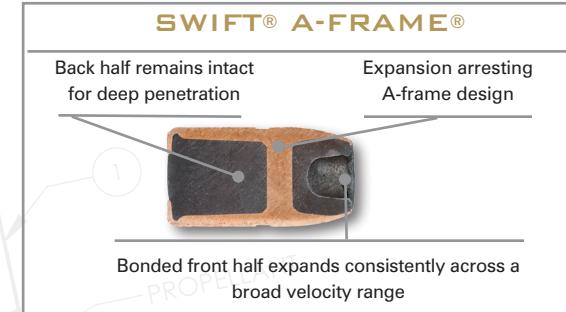


PREMIUM® HANDGUN HUNTING

Proven Performance In The Field

BIG GAME hunting is never a sure thing. Uncooperative weather, long shots and stealthy game all wreak havoc. Those of us who bring handguns into the field realize the importance of seizing every opportunity. For tough bullets loaded to ideal velocities look no further than Swift® A-Frame®. This proven performer gets high weight retention and controlled

expansion on impact, regardless of distance. Its bonding process ensures the jacket and core will hold together to get deep penetration. All Premium® Vital-Shok™ cases are nickel-plated for easy extraction and corrosion protection. All this translates to excellent stopping power on big game.



45-CALIBER/300-GRAIN SWIFT® A-FRAME®							
	1000	1200	1300	1500	1950	2100	
FEET PER SECOND							
EXPANSION	.695	.640	.650	.645	.660	.635	
RETENTION	0.99	0.99	0.99	0.88	0.88	0.87	



SWIFT® A-FRAME®

Gelatin shot with 325-grain 500 S&W Swift A-Frame (P500SA) from a Smith & Wesson X-Frame at 25 yards.

PREMIUM® HANDGUN BALLISTICS												
FEDERAL LOAD NO.	CALIBER	BULLET WEIGHT IN GRAINS		BULLET STYLE	FACTORY PRIMER NO.	VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)	MUZZLE	25 YDS.	50 YDS.	75 YDS.	MUZZLE ENERGY IN FOOT-POUNDS (TO NEAREST 5 FOOT-POUNDS)	TRAJECTORY SIGHTS 5 INCHES ABOVE BORE LINE
FEDERAL PREMIUM® VITAL-SHOK® SWIFT® A-FRAME®												
P357SA	357 Magnum	180	11.66	Swift A-Frame	100	1130 1090 1050 1020	990	510	470	440	415	390
P41SA	41 Rem. Magnum	210	13.61	Swift A-Frame	150	1360 1290 1220 1170	1120	860	775	700	635	580
P44SA	44 Rem. Magnum	280	18.14	Swift A-Frame	150	1170 1110 1060	1010	980	850	760	695	640
P454SA	454 Casull	300	19.44	Swift A-Frame	205	1520 1410 1310	1220	1150	1540	1325	1145	880
P460SA	460 S&W	300	19.44	Swift A-Frame	210	1750 1630 1510	1400	1300	2040	1760	1510	1125
P500SA	500 S&W	325	21.06	Swift A-Frame	210	1800 1680	1560	1450	1350	2340	2030	1755

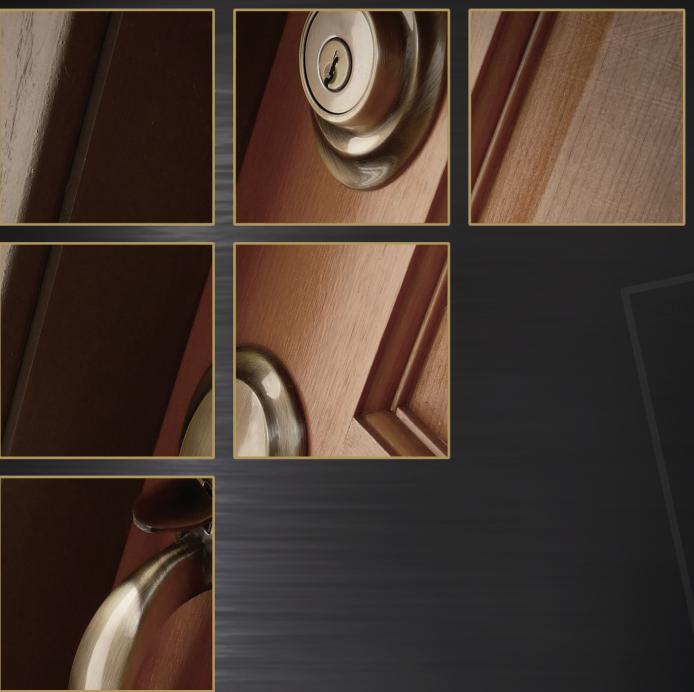
FEDERAL PREMIUM® VITAL-SHOK® CASTCORE®

P357J	357 Magnum	180	11.66	CastCore	100	1130 1090 1060	1030	1000	510	475	450	425	400
P41B	41 Rem. Magnum	250	16.20	CastCore	150	1160 1120	1090	1050	1030	745	695	655	615
P44E	44 Rem. Magnum	300	19.44	CastCore	150	1160 1120	1090	1050	1030	895	835	785	740

FEDERAL PREMIUM® VITAL-SHOK® BARNES® EXPANDER®

P357XB1	357 Magnum	140	9.07	Barnes Expander	100	1400 1330	1260	1200	1140	610	545	490	445	405
P41XB1	41 Rem. Magnum	180	11.66	Barnes Expander	150	1340 1260	1190	1130	1080	720	635	570	515	470
P44XB1	44 Rem. Magnum	225	14.58	Barnes Expander	150	1280 1210	1150	1100	1050	820	730	660	600	555
P454XB1	454 Casull	250	16.20	Barnes Expander	205	1530 1420	1330	1240	1170	1300	1125	975	850	755
P460XB1	460 S&W	275	17.82	Barnes Expander	210	1800 1720	1640	1570	1500	1980	1810	1650	1505	1370
P480XB1	480 Ruger	275	17.82	Barnes Expander	150	1350 1270	1190	1130	1080	1115	980	870	780	710
P500XB1	500 S&W	275	17.82	Barnes Expander	210	1660 1540	1440	1340	1250	1680	1455	1255	1090	950

Abbreviation Key: V = Vented barrel, These trajectories were calculated by computer using the best available data for each load. Trajectories are representative of the nominal behavior of each load at standard conditions (59°F temperature; barometric pressure of 29.53 inches; altitude at sea level). Shooters are cautioned that actual trajectories may differ due to variations in altitude, atmospheric conditions, guns, sights and ammunition. Expander is a registered trademark of Barnes® Bullets, Inc.



This Dog's Got Bark And Bite

HOME defense begins on the inside. We take you and your family's safety seriously, that's why our engineers have spent countless hours developing the right load for the millisecond you may need it. We recently used our patented expanding-FMJ bullet technology to create a home defense round that minimizes over-penetration through interior walls: award winning Guard Dog®. This translates to a reduced risk of serious injury to bystanders in other rooms or houses. Because Guard Dog expands every time and never fills with barrier material, like conventional hollow points, it's the ideal option for in-home defense.



GUARD DOG® HOME DEFENSE

These non-hollow-point expanding FMJ bullets are filled with an expanding blue polymer that minimizes the probability of injury to loved ones nearby. This one-of-a-kind bullet design is fully enclosed which means it never fills with barrier material and it collapses on impact every time.

EXPANDED BULLETS RETRIEVED FROM WALLBOARD TEST

Number of Walls	1	2	3	4
PD40GRD 40 S&W 135-grain Guard Dog				
Gelatin Penetration	9.5 inches	6 inches	No Gel Penetration	No Gel Penetration
Conventional 40 S&W 165 gr. Hollow Point				
Gelatin Penetration	More than 12 inches			

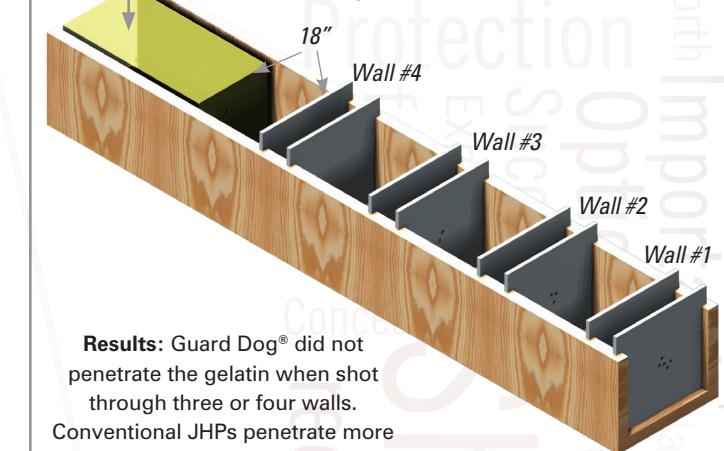
NOTE: Results of internal testing. Individual results may not be identical.

In this test, Guard Dog® shows superior expansion performance through wall barriers. PD40GRD shot at 15 feet expands on contact for maximum energy transfer. Most conventional hollow points do not reliably expand through wallboard allowing the bullet to pass through more walls.

TESTED TO PROTECT BYSTANDERS

GELATIN/WALLBOARD TEST SETUP

Test: Four comparison tests were conducted. In each successive test, an additional wall barrier was added. Each wall barrier consists of two sheets of ½-inch wallboard placed 3½-inches apart. 10% ballistic gelatin was placed 18-inches behind the fourth wall. Image shown represents test scenario.



Results: Guard Dog® did not penetrate the gelatin when shot through three or four walls. Conventional JHPs penetrate more than 12-inches after four walls.

PREMIUM® HANDGUN BALLISTICS

FEDERAL LOAD NO.	CALIBER	ITEM NUMBER	ITEM NUMBER	ITEM NUMBER	BULLET WEIGHT IN GRAINS	BULLET WEIGHT IN GRAMS	BULLET STYLE	FACTORY PRIMER NO.	VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)	MUZZLE	25 YDS.	50 YDS.	75 YDS.	100 YDS.	ENERGY IN FOOT-POUNDS (TO NEAREST 5 FOOT-POUNDS)	MUZZLE	25 YDS.	50 YDS.	75 YDS.	100 YDS.	TRAJECTORY SIGHTS 9 INCHES ABOVE BORE LINE	TEST BARREL LENGTH INCHES
FEDERAL PREMIUM® GUARD DOG®																						
PD9GRD	9mm Luger (9x19mm Parabellum)	105	6.80	Guard Dog	200	1230	1140	1070	1010	970	355	305	265	240	220	◆	-0.8	-3.4	-8.2	4		
PD40GRD	40 S&W	135	8.75	Guard Dog	100	1200	1110	1040	990	940	430	370	325	290	265	◆	-0.9	-3.7	-8.8	4		
PD45GRD	45 Auto	165	10.69	Guard Dog	150	1140	1080	1030	990	950	475	425	390	360	335	◆	-1.0	-4.0	-9.2	5		

These trajectory tables were calculated by computer using the best available data for each load. Trajectories are representative of the nominal behavior of each load at standard conditions (59°F temperature, barometric pressure of 29.53 inches; altitude at sea level). Shooters are cautioned that actual trajectories may differ due to variations in altitude, atmospheric conditions, guns, sights and ammunition.





Law Enforcement Approved

WHEN lives hang in the balance, you want ammunition that's been proven to perform to its peak and eliminate any threat. Federal Premium® Personal Defense® HST® offers everything needed: consistent expansion, optimum penetration and superior terminal performance. Its specially designed hollow point won't plug while passing through a variety of barriers, and the bullet jacket and core hold together while penetrating even the toughest materials. HST provides near 100% weight retention through most barriers. That's why it's the trusted duty load for law enforcement officers everywhere. Now available to the public, it should be your first choice to protect those you care about.



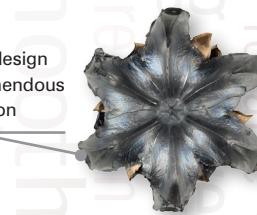
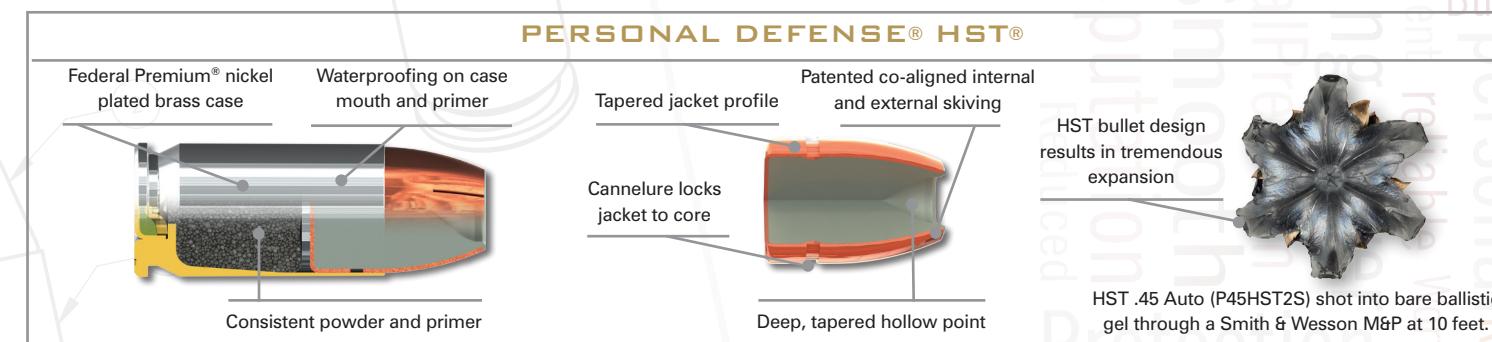
FBI AMMUNITION TESTING PROTOCOL

The FBI created a series of rigorous testing scenarios to compare ammunition performance. Bullets are shot through 10-percent ordinance gelatin, steel, wallboard, plywood, laminated automobile safety glass and gelatin covered in heavy clothing specified by the FBI. We use these FBI protocols when developing our Personal Defense® ammunition. In doing so, we're able to design and test our ammunition to meet or exceed these expectations.



NEW

PREMIUM® PERSONAL DEFENSE®

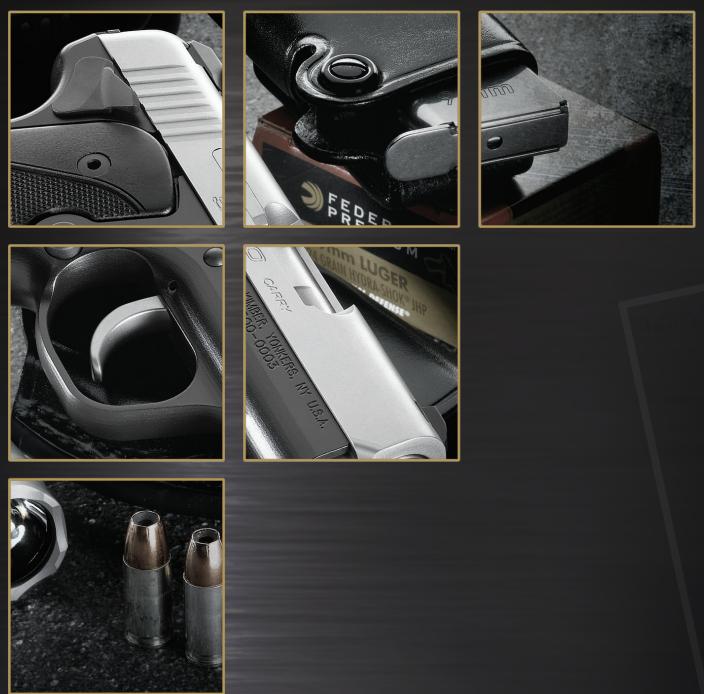


HST .45 Auto (P45HST2S) shot into bare ballistic gel through a Smith & Wesson M&P at 10 feet.

SUPERIOR PERFORMANCE IN FBI PROTOCOL	
9MM LUGER AVERAGE: ALL FBI BARRIERS Penetration: 13.63" Expansion: 0.63" Weight Retention: 90% P9HST1S shot through a Glock 17 at 10 feet	
40 S&W AVERAGE: ALL FBI BARRIERS Penetration: 12.42" Expansion: 0.77" Weight Retention: 94% P40HST1S shot through a Glock 22 at 10 feet	
45 AUTO AVERAGE: ALL FBI BARRIERS Penetration: 12.92" Expansion: 0.81" Weight Retention: 99% P45HST2S shot through a Smith & Wesson M&P at 10 feet	

PREMIUM® HANDGUN BALLISTICS																			
FEDERAL LOAD NO.	CALIBER	BULLET WEIGHT IN GRAINS GRAMS		FACTORY PRIMER NO.	VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)					ENERGY IN FOOT-POUNDS (TO NEAREST 5 FOOT-POUNDS)			TEST BARREL LENGTH INCHES						
		MUZZLE	25 YDS.		MUZZLE	25 YDS.	50 YDS.	75 YDS.	100 YDS.	MUZZLE	25 YDS.	50 YDS.							
P9HST1S	9mm Luger (9x19mm Parabellum)	124	8.04	HST	200	1150	1100	1050	1010	980	365	330	305	280	265	♦ -0.9	-3.8	-8.8	4
P40HST1S	40 S&W	180	11.66	HST	200	1010	980	950	930	910	410	385	365	345	330	♦ -1.4	-5.1	-11.4	4
P45HST2S	.45 Auto	230	14.90	HST	150	890	870	860	840	820	405	390	375	360	345	♦ -2.0	-6.9	-15.0	5

These trajectory tables were calculated by computer using the best available data for each load. Trajectories are representative of the nominal behavior of each load at standard conditions (59°F temperature; barometric pressure of 29.53 inches; altitude at sea level). Shooters are cautioned that actual trajectories may differ due to variations in altitude, atmospheric conditions, guns, sights and ammunition.



Trusted And Reliable

PERSONAL defense situations aren't planned. They happen without warning and are decided in a matter of seconds. Protect yourself with the ammunition that's been proving its reliability for years. Our Hydra-Shok® offerings are tough, consistent and trusted for self-defense situations.

Special low-recoil loads allow for better accuracy and quicker follow up shots. We offer a full range of popular and effective loads to meet your specific personal defense needs. Chamber these rounds and know you'll be ready if the moment comes.



SOLID OPTIONS FOR VOLUME SHOOTING

Effective personal defense depends on shooting straight when the moment of truth arrives. And that requires practice. American Eagle® offers shooters a wide selection of consistent, reliable handgun ammunition perfect for shooting at the range. See the full line on page 39.

TIME-TESTED PERFORMANCE

HYDRA-SHOK® JHP



- Accuracy and superb overall ballistic performance
- Notched copper jacket initiates and controls expansion
- Center-post hollow-point design provides efficient energy transfer

Hydra-Shok remains one of the most popular choices with defense experts. Our stringent manufacturing processes and rigorous testing ensure the bullets perform accurately and consistently.

HYDRA-SHOK®

Penetration: 11.5" Weight Retention: 98% Expansion: 0.57"



Bare gelatin shot with 9mm Luger Hydra-Shok (P9HS1) from a Glock G17 at 15 feet.

PREMIUM® HANDGUN BALLISTICS

FEDERAL LOAD NO.	CALIBER	BULLET WEIGHT IN GRAINS GRAMS	BULLET STYLE	FACTORY PRIMER NO.	VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)	MUZZLE 25 YDS. 50 YDS. 75 YDS. 100 YDS.	MUZZLE ENERGY IN FOOT POUNDS (TO NEAREST 5 FOOT-POUNDS)	25 YDS. 50 YDS. 75 YDS.	TRAJECTORY SIGHTS 9 INCHES ABOVE BORE LINE	100 YDS. 25 YDS. 50 YDS. 75 YDS. 100 YDS.	TEST BARREL LENGTH INCHES	
FEDERAL PREMIUM® PERSONAL DEFENSE®												
P32HS1	32 Auto (7.65mm Browning)	65 4.21	Hydra-Shok JHP	100	925 890 860 830 810	125 115 105 100 95	◆ -1.8 -6.6 -14.5	4				
P9HS1	9mm Luger (9x19mm Parabellum)	124 8.04	Hydra-Shok JHP	200	1120 1070 1030 990 960	345 315 290 270 255	◆ -1.0 -4.0 -9.3	4				
P9HS2	9mm Luger (9x19mm Parabellum)	147 9.53	Hydra-Shok JHP	200	1000 980 950 930 910	325 310 295 285 275	◆ -1.4 -5.2 -11.5	4				
P357S1	357 Sig	125 8.10	JHP	200	1350 1270 1190 1130 1080	505 445 395 355 325	◆ -0.5 -2.4 -6.1	4				
P38MA	38 Special	125 8.10	NyClad HP	100	830 780 730 680 640	190 165 145 130 115	◆ -2.7 -9.5 -21.1	2-V				
P38HS1	38 Special +P	129 8.36	Hydra-Shok JHP	100	950 930 900 880 870	260 245 235 225 215	◆ -1.6 -5.9 -13.0	4-V				
P357HS1	357 Magnum	158 10.24	Hydra-Shok JHP	100	1240 1190 1140 1100 1060	540 495 455 425 395	◆ -0.6 -3.0 -7.1	4-V				
P40HS1	40 S&W	155 10.04	Hydra-Shok JHP	100	1140 1080 1030 990 950	445 400 365 335 315	◆ -1.0 -4.0 -9.2	4				
P40HS3	40 S&W	165 10.69	Hydra-Shok JHP	100	980 950 920 900 880	350 330 310 295 280	◆ -1.5 -5.6 -12.3	4				
P40HS1	40 S&W	180 11.66	Hydra-Shok JHP	100	1000 970 950 920 900	400 375 360 340 325	◆ -1.4 -5.3 -11.6	4				
P10HS1	10mm Auto	180 11.66	Hydra-Shok JHP	150	1030 1000 970 950 920	425 400 375 355 340	◆ -1.3 -4.9 -10.9	5				
P44HS1	44 Rem. Magnum	240 15.55	Hydra-Shok JHP	150	1210 1150 1100 1060 1020	780 705 645 600 560	◆ -0.7 -3.3 -7.7	4-V				
P45GHS1	45 G.A.P.	230 14.90	Hydra-Shok JHP	200	880 860 850 830 820	395 380 365 355 340	◆ -2.0 -7.1 -15.3	5				
P45HS1	45 Auto	230 14.90	Hydra-Shok JHP	150	900 880 870 850 830	415 395 380 365 355	◆ -1.9 -6.7 -14.6	5				
FEDERAL PREMIUM® PERSONAL DEFENSE® LOW RECOIL												
PD327HS1 H	327 Federal Magnum	85 5.51	Hydra-Shok JHP	200	1400 1310 1220 1150 1090	370 320 280 250 225	◆ -0.4 -2.2 -5.7	4-V				
PD380HS1 H	380 Auto (9x17mm Short)	90 5.83	Hydra-Shok JHP	100	1000 950 910 880 850	200 180 165 155 145	◆ -1.5 -5.6 -12.5	3.75				
PD9HS5 H	9mm Luger (9x19mm Parabellum)	135 8.75	Hydra-Shok JHP	200	1060 1030 1000 970 950	335 315 300 280 270	◆ -1.2 -4.5 -10.2	4				
PD38HS3 H	38 Special	110 7.13	Hydra-Shok JHP	100	980 940 910 880 860	235 215 205 190 180	◆ -1.5 -5.7 -12.6	4-V				
PD357HS2 H	357 Magnum	130 8.42	Hydra-Shok JHP	100	1410 1330 1260 1190 1140	575 510 455 410 375	◆ -0.3 -2.0 -5.2	4-V				
PD40HS4 H	40 S&W	135 8.75	Hydra-Shok JHP	100	1200 1120 1050 1000 960	430 375 330 300 275	◆ -0.8 -3.7 -8.6	4				
PD45G1 H	45 G.A.P.	185 11.99	Hydra-Shok JHP	200	1090 1050 1010 970 950	490 450 415 390 365	◆ -1.1 -4.3 -9.8	5				
PD45HS3 H	45 Auto	165 10.69	Hydra-Shok JHP	150	1060 1010 980 940 910	410 375 350 325 305	◆ -1.2 -4.7 -10.6	5				

Abbreviation Key: V = Vented barrel, JHP = Jacketed Hollow Point, HP = Hollow Point

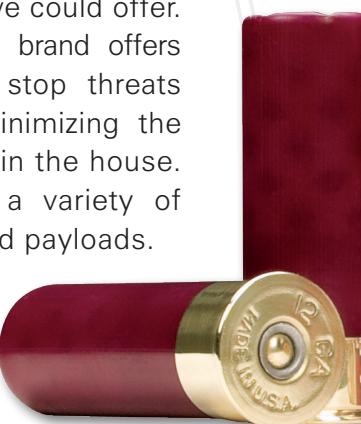
These trajectory tables were calculated by computer using the best available data for each load. Trajectories are representative of the nominal behavior of each load at standard conditions (59°F temperature; barometric pressure of 29.53 inches; altitude at sea level). Shooters are cautioned that actual trajectories may differ due to variations in altitude, atmospheric conditions, guns, sights and ammunition.



PREMIUM® PERSONAL DEFENSE®

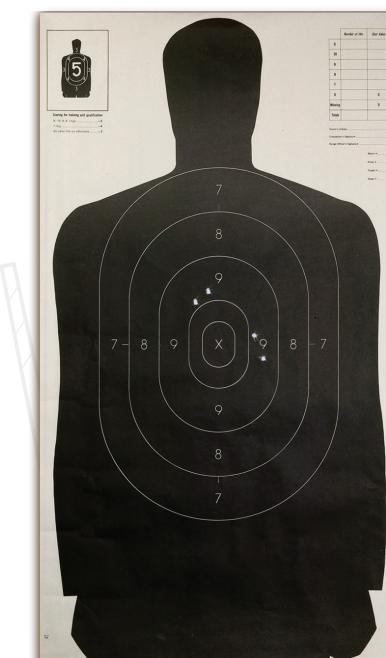
Keeping You And Your Family Safe

WE didn't overlook any details developing these special loads to help you protect your family. Whether you prefer handguns or shotguns for home defense, our Personal Defense® shotshell ammunition is designed especially for protection. We did extensive tests to find the best loads, patterning hundreds of rounds, and testing penetration in wallboard and ballistic gelatin to make sure these were the best we could offer. Our Personal Defense brand offers options designed to stop threats immediately while minimizing the danger to loved ones in the house. They're available in a variety of gauges, shot sizes and payloads.



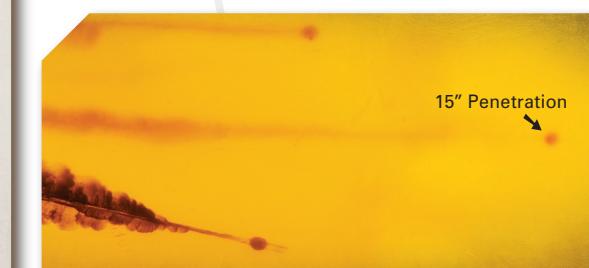
JUDGE LOADS

Our 410 handgun shotshells are designed for the Judge from Taurus. A unique wad system for the rifled barrel means great patterns. Special brass heads ensure smooth extraction. Our Personal Defense® 410 handgun rounds also function great in firearms recently developed by other manufacturers.



FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	MUZZLE VELOCITY MM	SHOT SIZES	TEST BARREL LENGTH INCHES
FEDERAL PREMIUM® PERSONAL DEFENSE® 410 HANDGUN					
PD413JGE 000	410	3	76	775 5 pellets-000 Buck	3
PD413JGE 4B	410	3	76	950 9 pellets-4 Buck	3
PD412JGE 000	410	2½	64	850 4 pellets-000 Buck	3
PD412JGE 4	410	2½	64	950 7/16 oz-4 Shot	3

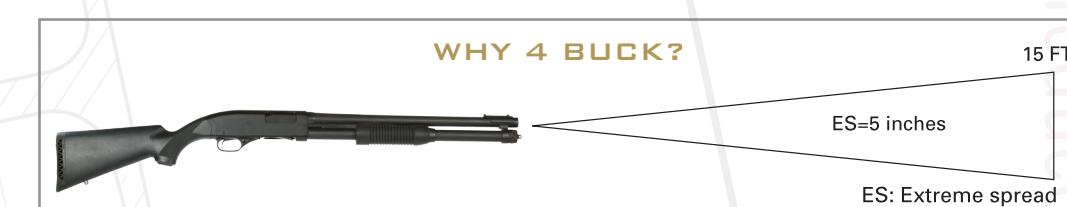
Muzzle velocities measured from the Judge handgun.



Target and gelatin shot with 2-1/2-inch, 000 Buck, 410 Handgun (PD412JGE 000) from a Taurus Judge at 5 yards.



Target shot with 12-ga 2-3/4" 4 Buck, 34 pellets (PD156 4B) with improved cylinder choke in a Benelli Super Black Eagle II at 5 yards.



We tested large and small, hard and soft shot to create the most reliable loads for personal defense situations. The size and weight of 4 buckshot and deformation characteristics of 0 antimony lead help dissipate energy after hitting a wall. By combining our 4B lead and unique wad system designed for 15-foot patterns, we're able to control penetration and shot spread. Our 4B loads give you enough penetration to stop intruders and minimize the effects of wall penetration.

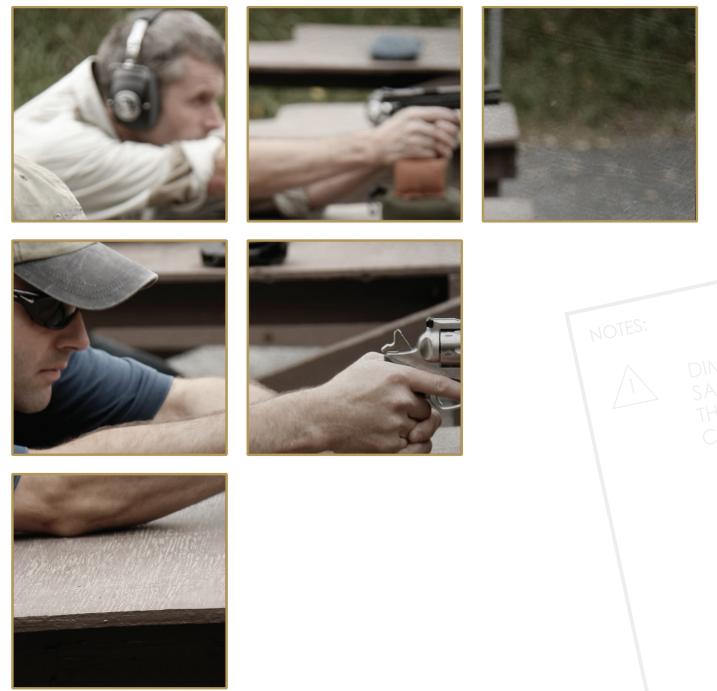
PREMIUM® SHOTSHELL SPECIFICATIONS

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	MUZZLE VELOCITY MM	SHOT SIZES
FEDERAL PREMIUM® PERSONAL DEFENSE® SHOTSHELL				
PD156	12	2¾	70	1100 34 Pellets - 4 Buck
PD256	20	2¾	70	1100 24 Pellets - 4 Buck
FEDERAL PREMIUM® PERSONAL DEFENSE® SHOTSHELL WITH FLITECONTROL®				
PD132	12	2¾	70	1145 9 Pellets - 00 Buck

NOTE: With FLITECONTROL, best performance is achieved with chokes that do not strip wad or reduce muzzle pressure.



Gelatin shot with 12-ga 2-3/4" 4 Buck, 34 pellets (PD156 4B) with improved cylinder choke in a Benelli Super Black Eagle II at 5 yards.



Quiet. Reliable. Accurate.

AMERICAN EAGLE® SUPPRESSOR

Shooters can now get substantial noise reduction without sacrificing accuracy or reliability. All-new American Eagle Suppressor rounds perform to their ballistic peak in suppressed firearms, thanks to carefully selected propellants, bullet weights and primers. Their sub-sonic loading eliminates the super-sonic "crack" suppressors can't silence. In addition, special clean-burning powders minimize fouling while reliably functioning in semi-automatic firearms. Suppressor loads are priced for volume shooting.



GOLD MEDAL® HANDGUN

Target shot with 185-grain .45 Auto Gold Medal (GM45B) from a Springfield Trophy Match at 25 yards, open sights from rest. Gold Medal's award-winning accuracy—5 round group, 0.450-inch extreme spread.



NEW

PREMIUM® HANDGUN BALLISTICS

FEDERAL LOAD NO.	CALIBER	BULLET WEIGHT IN GRAINS		FACTORY PRIMER NO.	VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)	ENERGY IN FOOT-POUNDS (TO NEAREST 5 FOOT-POUNDS)			TRAJECTORY SIGHTS 3 INCHES ABOVE BORE LINE			TEST BARREL LENGTH INCHES					
		MUZZLE	25 YDS.			50 YDS.	75 YDS.	100 YDS.	25 YDS.	50 YDS.	75 YDS.						
FEDERAL PREMIUM® GOLD MEDAL®																	
GM38A	38 Special	148	9.59	Lead Wadcutter Match	GM100M	690	650	610	570	540	155	140	120	110	95	◆ -4.3 -14.4 -31.2	4-V
GM45B	45 Auto	185	11.99	FMJ-SWC Match	GM150M	770	740	700	670	640	245	220	205	185	170	◆ -3.1 -10.6 -23.0	5
GM45A	45 Auto	230	14.90	FMJ Match	GM150M	860	840	830	810	800	380	365	350	340	325	◆ -2.2 -7.5 -16.1	5

Abbreviation Key: FMJ = Full Metal Jacket, SWC= Semi-Wadcutter, V = Vented barrel, These trajectory tables were calculated by computer using the best available data for each load. Trajectories are representative of the nominal behavior of each load at standard conditions (59°F temperature; barometric pressure of 29.53 inches; altitude at sea level). Shooters are cautioned that actual trajectories may differ due to variations in altitude, atmospheric conditions, guns, sights and ammunition.



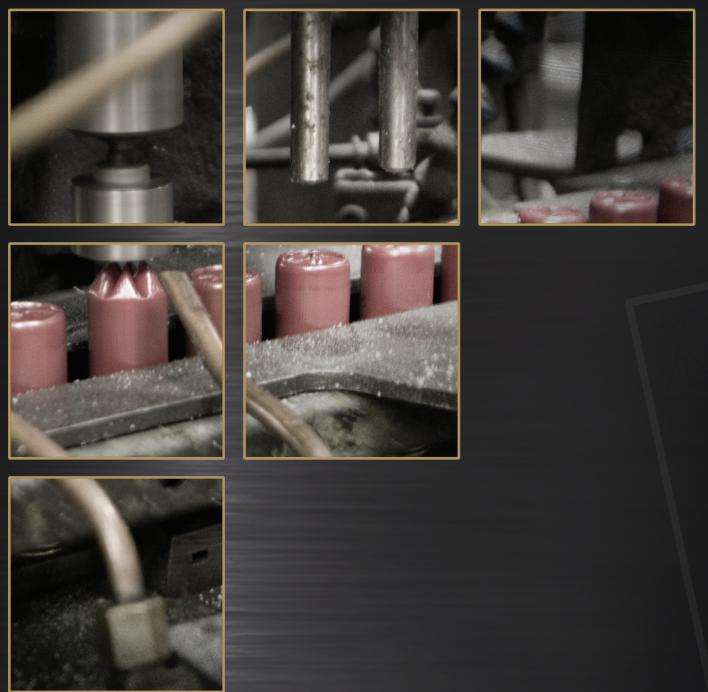
PREMIUM® GOLD MEDAL®, FEDERAL® AND AMERICAN EAGLE®

POWER FACTOR REFERENCE CHART

MINOR BEST USPSA/IDPA	AE9DP	C9BP	AE38S3
MAJOR BEST USPSA/IDPA	C357B	AE40R1	AE40R2
			C40SWA
			C45C

We offer a variety of loads that meet Major/Minor Best criteria for IDPA/USPSA competition.

USAGE	FEDERAL LOAD NO.	CALIBER	BULLET WEIGHT IN GRAINS	FACTORY PRIMER NO.	VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)				ENERGY IN FOOT-POUNDS (TO NEAREST 5 FOOT-POUNDS)				TRAJECTORY SIGHTS .9 INCHES ABOVE BORE LINE				TEST BARREL LENGTH INCHES	
					MUZZLE	25 YDS.	50 YDS.	75 YDS.	100 YDS.	MUZZLE	25 YDS.	50 YDS.	75 YDS.	100 YDS.	MUZZLE	25 YDS.	50 YDS.	75 YDS.
FEDERAL® POWER•SHOK®																		
2	C357G	357 Magnum	180	11.66	JHP	100	1080	1050	1020	1000	970	465	440	415	395	380	◆ -1.1 -4.2 -9.6	4-V
2	C41A	41 Rem. Magnum	210	13.61	JHP	150	1230	1170	1120	1080	1040	705	640	585	545	505	◆ -0.7 -3.1 -7.3	4-V
2	C44B	44 Rem. Magnum	180	11.66	JHP	150	1460	1340	1240	1160	1090	850	720	615	535	470	◆ -0.3 -2.0 -5.4	4-V
2	C44A	44 Rem. Magnum	240	15.55	JHP	150	1230	1170	1120	1070	1040	805	730	665	615	570	◆ -0.7 -3.1 -7.4	4-V
FEDERAL® PERSONAL DEFENSE® REVOLVER																		
6	C32HRB	32 H&R Magnum	85	5.51	JHP	100	1120	1070	1020	990	950	235	215	195	185	170	◆ -1.0 -4.1 -9.4	5
6, 7	C357B	357 Magnum	125	8.10	JHP	100	1440	1340	1240	1160	1100	575	495	425	375	335	◆ -0.3 -2.1 -5.4	4-V
6	C357E	357 Magnum	158	10.24	JHP	100	1240	1190	1140	1100	1060	540	495	455	425	395	◆ -0.6 -3.0 -7.1	4-V
FEDERAL® PERSONAL DEFENSE® AUTOMATIC PISTOL																		
6, 7	C9BP	9mm Luger (9x19mm Parabellum)	115	7.45	JHP	200	1180	1110	1050	1000	960	355	310	280	255	235	◆ -0.9 -3.7 -8.7	4
6, 7	C40SWA	40 S&W	180	11.66	JHP	100	1000	970	950	920	900	400	375	360	325	300	◆ -1.4 -5.3 -11.6	4
6, 7	C45C	45 Auto	185	11.99	JHP	150	950	920	900	880	860	370	350	330	315	300	◆ -1.7 -6.0 -13.1	5
6	C45D	45 Auto	230	14.90	JHP	150	850	830	820	800	790	370	355	345	330	320	◆ -2.2 -7.7 -16.4	5
FEDERAL® CHAMPION™																		
5	C32LA	32 S&W Long	98	6.35	LW	100	780	720	670	620	570	130	115	95	80	70	◆ -3.3 -11.5 -25.4	5.3
5	C32LB	32 S&W Long	98	6.35	LRN	100	780	760	750	730	720	130	125	120	115	115	◆ -2.9 -9.6 -20.4	5.3
5	C32HRA	32 H&R Magnum	95	6.16	LSW	100	1020	970	930	890	860	220	200	180	170	155	◆ -1.4 -5.3 -12.0	5
5	C44SA	44 Special	200	12.96	SWHP	150	870	850	830	810	790	335	320	305	290	275	◆ -2.1 -7.4 -16.0	4-V
5	C45LCA	45 Colt	225	14.58	SWHP	150	830	810	790	780	760	345	330	315	300	290	◆ -2.4 -8.2 -17.7	4-V
AMERICAN EAGLE®																		
5	AE5728A	5.7x28mm	40	2.59	FMJ	205	1655	1510	1390	1280	1180	245	205	170	145	125	◆ 0.0 -1.2 -3.8	4.8
5	AE25AP	25 Auto (6.35mm Browning)	50															



DELTA WATERFOWL

Federal partners with conservation organizations to help preserve and promote the opportunity to hunt. Partner Delta Waterfowl focuses on innovative management and securing the future of waterfowl hunting. Without habitat and sound management, we won't have any more ducks. Look for the Delta Waterfowl logo on specially marked Speed-Shok™ waterfowl boxes. Visit deltawaterfowl.org.

AVERAGE PELLET COUNT — STEEL SHOT										
Shot Size	3/4 (21.25)	7/8 (24.81)	15/16 (26.58)	1 (28.35)	1-1/8 (31.89)	1-1/4 (35.44)	1-3/8 (39.98)	1-1/2 (42.52)	1-9/16 (44.30)	1-5/8 (46.06)
7	316	-	395	422	475	527	580	633	659	685
6	236	-	295	315	354	394	433	472	492	512
5	182	-	228	243	273	304	334	364	380	395
4	144	168	180	192	216	240	264	288	300	312
3	118	136	143	158	178	197	217	237	247	257
2	94	-	117	125	141	156	172	187	195	203
1	77	-	97	103	116	129	142	154	161	167
BB	54	-	67	72	81	90	99	108	112	117
BBB	46	-	58	62	70	77	85	93	97	101
T	39	-	49	52	58	65	71	78	81	84

AVERAGE PELLET COUNT — LEAD SHOT														
Shot Size	1/2 (14.17)	11/16 (19.49)	3/4 (21.25)	7/8 (24.80)	1 (28.35)	1-1/8 (31.89)	1-1/4 (35.44)	1-5/16 (37.21)	1-3/8 (38.98)	1-1/2 (42.52)				
9	292	402	439	512	585	658	731	767	804	877	951	1097	1170	1316
8-1/2	249	342	373	435	497	559	621	652	683	745	808	932	994	1118
8	205	282	307	359	410	461	512	538	564	615	666	769	820	922
7-1/2	175	241	262	306	350	394	437	459	481	525	569	656	700	787
6	112	155	169	197	225	253	281	295	309	337	366	422	450	506
5	85	117	127	149	170	191	212	223	234	255	276	319	340	382
4	67	93	101	118	135	152	169	177	186	202	219	253	270	304
2	43	60	65	76	87	98	109	114	120	130	141	163	174	196
BB	25	34	37	44	50	56	62	65	69	75	81	94	100	112

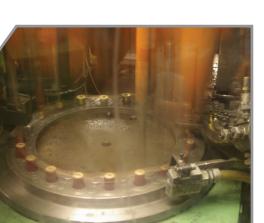
Weight of Shot in Ounces (Grams) (3% ANTIMONY)



SHOT SIZE REFERENCE CHART														
PELLET DIAMETER INCHES	T	BBB	BB	1	2	3	4	5	6	7	7-1/2	8	8-1/2	9
DIAMETER MM	.20	.19	.18	.16	.15	.14	.13	.12	.11	.10	.095	.09	.085	.08

AVERAGE PELLET COUNT — HEAVYWEIGHT®						
Shot Size	1-1/8 (31.90)	1-1/4 (35.44)	1-1/2 (42.52)	1-5/8 (46.06)	1-7/8 (53.16)	
5	-	-	187	206	231	249
6	-	212	223	270	312	330
7	246	275	337	353	408	444

Weight of Shot in Ounces (Grams)



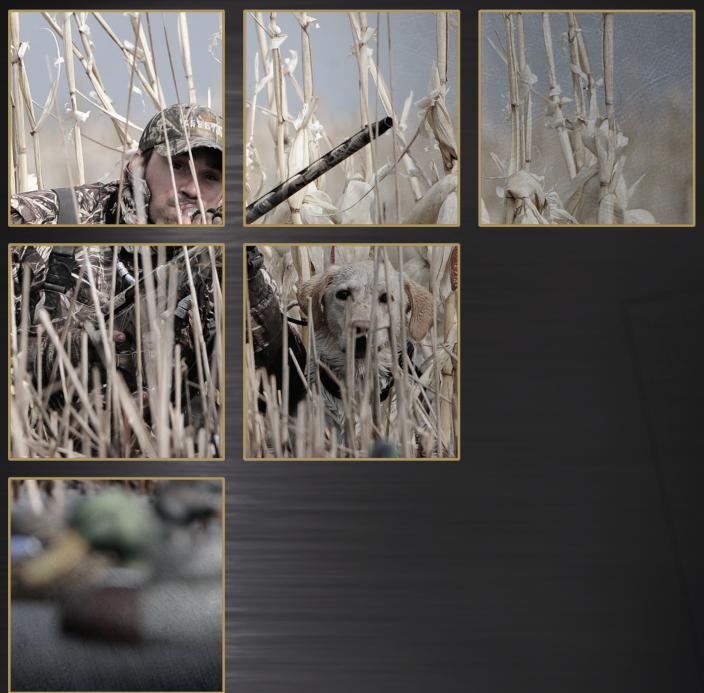
To see how shotshells are made go to FederalPremium.com.

COLOR CODING

To increase safety among shooters, Federal was the first manufacturer to use color-coding for shotshells. This safety measure became an industry norm after it was introduced in 1960.

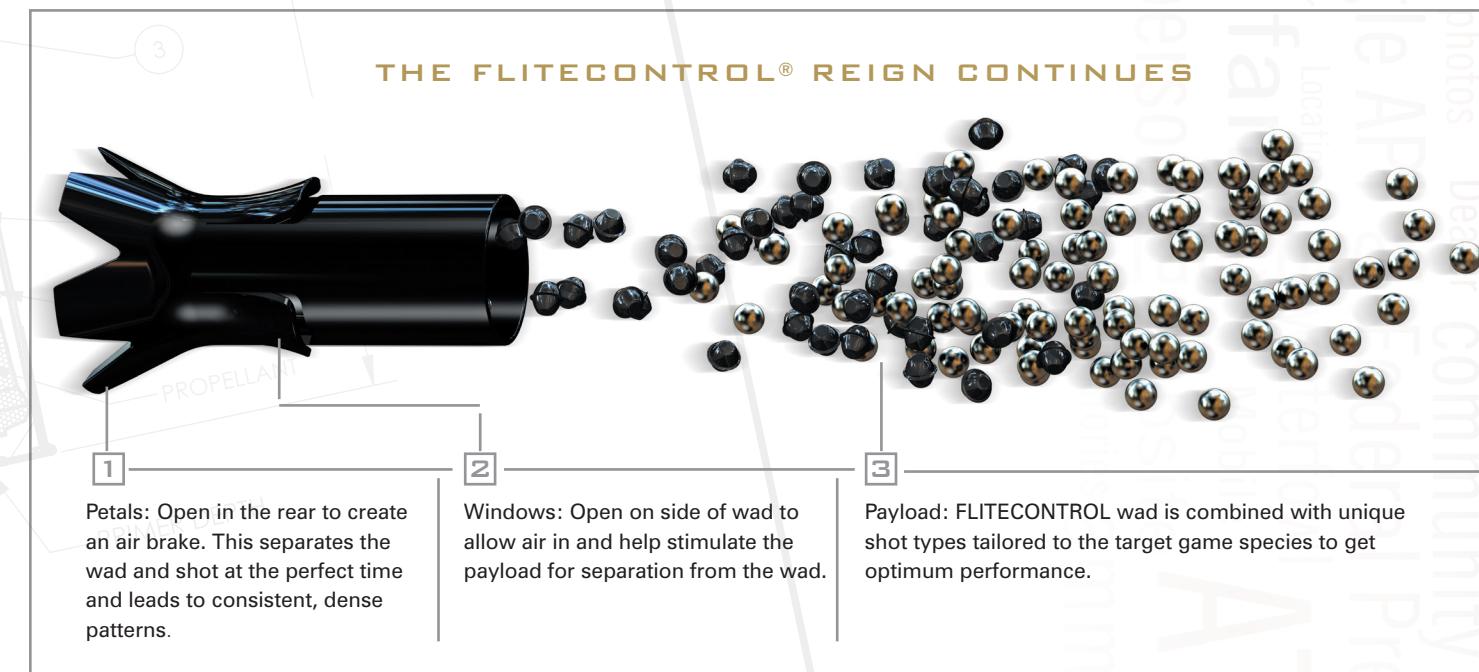
GAME	GAUGE	DISTANCE (YDS)	CHOKE	STEEL SHOT SIZES
LARGE DUCKS (Mallard, Pintail, Black)	10, 12, 16, 20	20-30	IC/M	1, 2, 3, 4
MEDIUM DUCKS (Wood Duck, Scaup, Widgeon)	10, 12, 16, 20	30+	IC/M/F	BB, 1, 2, 3
SMALL DUCKS (Teal, Bufflehead)	12, 16, 20	20-30	IC/M/F	2, 3, 4, 6
LARGE GEESE (Giant, Western Canada)	10, 12	20-30	IC/M	T, BBB, BB
MEDIUM GEESE (Snow, Lesser Canada)	10, 12	30+	IC/M	BBB, BB, 1
TURKEY	10, 12, 20	20-30	F	5, 6, 7
PHEASANT, PRAIRIE GROUSE	12, 16, 20, 28	20-30	IC/M	3, 4
RUFFED GROUSE, PARTRIDGE	12, 16, 20	30+	M/F	2, 3
QUAIL, DOVE	12, 16, 20, 28	20-30	SK/IC/M	6, 7.5, 8, 9
WOODCOCK, SNIPE	12, 16, 20, 28	20-30	SK/IC/M	5, 6, 7.5
RABBIT, SQUIRREL	12, 16, 20, 28, 410	20-30	IC/M	4, 5, 6, 7.5
	12, 16, 20	30+	IC/M/F	4, 5, 6

Federal recommends patterning your gun to determine the optimum choke. *EF=Extra Full F = Full Choke M = Modified Choke IC = Improved Cylinder, SK=Skeet

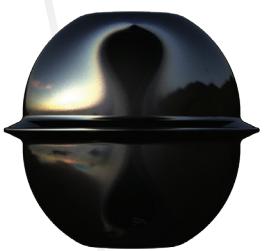


Redefining Shotshell Performance

FEDERAL was the first to introduce a unique wad-shot system that has proven highly successful in the field—the rear-braking FLITECONTROL® wad and cutting edge FLitestopper® pellets. Black Cloud® helped put the FLITECONTROL wad on the map. And its performance is unmatched. Over the years, our product development team optimized this system for new platforms. Today you'll find the FLITECONTROL wad combined with shot to match it in our pheasant, turkey, waterfowl and buckshot offerings. Learn what makes the FLITECONTROL wad, and the payloads it's combined with, so much different. And so much better.



FLitestopper® Technology



- 1** Cutting edge: Get cutting power with no loss of penetration. FLitestopper pellets create a massive wound cavity that devastates game on impact.
- 2** Shot mix: Staged with different percentage shot mix, we're able to control the pattern and flight characteristics.

This proprietary wad-shot system allows us to tailor products to meet the needs of hunters. We're able to control the reach and fullness of the pattern to match shooting scenarios, species and their tendencies.

SPECIAL WADS, SPECIFIC APPLICATIONS

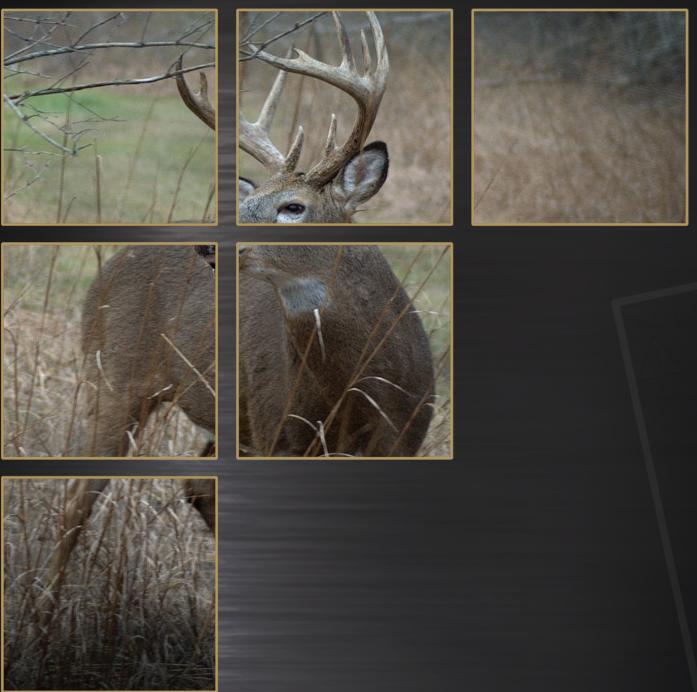
Although all FLITECONTROL® wads work on the same design principle, they vary from one Federal Premium® offering to the next.

The difference can be found in subtle variations in the wad's rear-opening petals and the height of the window openings. Our engineers adjust these features to dial in when the wad releases from the payload. Combined with a specialized shot payload, the system results in a pattern that's tailor-made for the situation—whether it's decoying ducks at close range, dropping a high-flying rooster or taking down a hung-up gobbler.



CONVENTIONAL WAD

Conventional wads peel from the front, allowing pellets to scatter widely. This means fewer pellets on target, less impact energy and fewer downed birds.



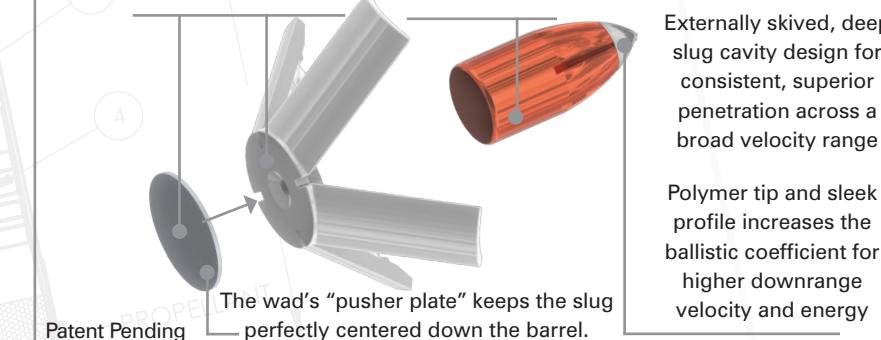
THANKS to Federal's line of Premium® slugs, shotguns are now precision shooting instruments. Our TruBall® rifled slug has provided smoothbore shooters a long-awaited edge on big game, and our Trophy® Copper Sabot Slug offers unparalleled accuracy through rifled barrels. This tipped slug revolutionizes the category with engineering advancements that deliver groups as small as 3-1/2 inches at 200 yards, with tremendous Knockdown Power®. The secret lies in a patent-pending three-part system that achieves better accuracy, less drop, manageable recoil, along with consistent penetration and expansion.

NEW TRUBALL® SMOOTHBORE OPTIONS

The TruBall® rifled slug system is the most consistent group-to-group smoothbore slug on the market. It's capable of taking a 5-shot 4.5-inch spread of conventional smoothbore slugs and shrinking it to 1.4-inch at 50 yards. The TruBall system locks the components together, centering and pushing the slug out of the barrel. This promotes clean separation of components after muzzle exit to ensure greater downrange accuracy. For 2013, we've added 3-inch 12- and 20-gauge offerings that provide even more knockdown power with the same unprecedented accuracy.

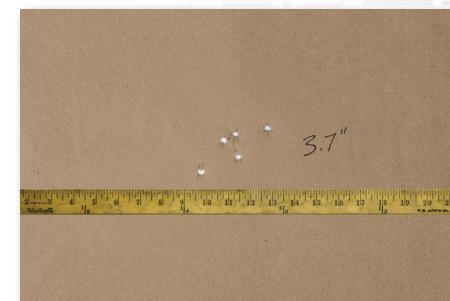
TROPHY® COPPER CONSTRUCTION

Unique two part sabot design provides superior projectile base support and a clean launch mechanism for ultimate slug accuracy



Patent Pending

THE NEW STANDARD IN 200-YARD ACCURACY



Five-shot 3.7-inch group achieved with 12-gauge 3-inch 300-grain Trophy Copper® Sabot Slug (P151 TC) from a rifled accuracy barrel at 200 yards.

PREMIUM® RIFLED BARREL SABOT SLUG BALLISTICS														VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)						ENERGY IN FOOT-POUNDS (TO NEAREST FOOT-POUND)					
FEDERAL USAGE LOAD NO.	Gauge	SHELL LENGTH		SLUG TYPE		SLUG WEIGHT		VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)						ENERGY IN FOOT-POUNDS (TO NEAREST FOOT-POUND)						HEIGHT OF SLUG TRAJECTORY IN INCHES ABOVE OR BELOW LINE OF SIGHT IF ZEROED AT YARDS. SIGHTS 5 INCHES ABOVE BORE LINE.		TEST BARREL LENGTH INCHES			
FEDERAL PREMIUM® VITAL-SHOK® TROPHY® COPPER SABOT SLUGS (Fully Rifled Slug Barrel)																									
2	P151 TC	12	3	76	Trophy Copper Slug	.69	300	2000	1900	1800	1620	1450	1310	2665	2400	2160	1745	1400	1135	1.3	2.6	2.9	♦	-7.1	30
2	P152 TC	12	2 $\frac{3}{4}$	70	Trophy Copper Slug	.69	300	1900	1800	1710	1530	1380	1240	2405	2165	1945	1565	1260	1030	1.7	2.9	3.3	♦	-7.9	30
2	P209 TC	20	3	76	Trophy Copper Slug	.63	275	1900	1790	1690	1500	1340	1200	2205	1965	1750	1380	1090	875	1.6	3.0	3.4	♦	-8.3	30
2	P208 TC	20	2 $\frac{3}{4}$	70	Trophy Copper Slug	.63	275	1700	1600	1510	1340	1200	-	1765	1570	1390	1100	885	-	1.0	1.7	♦	-6.5	-	30

Usage Key: 2 = Medium game

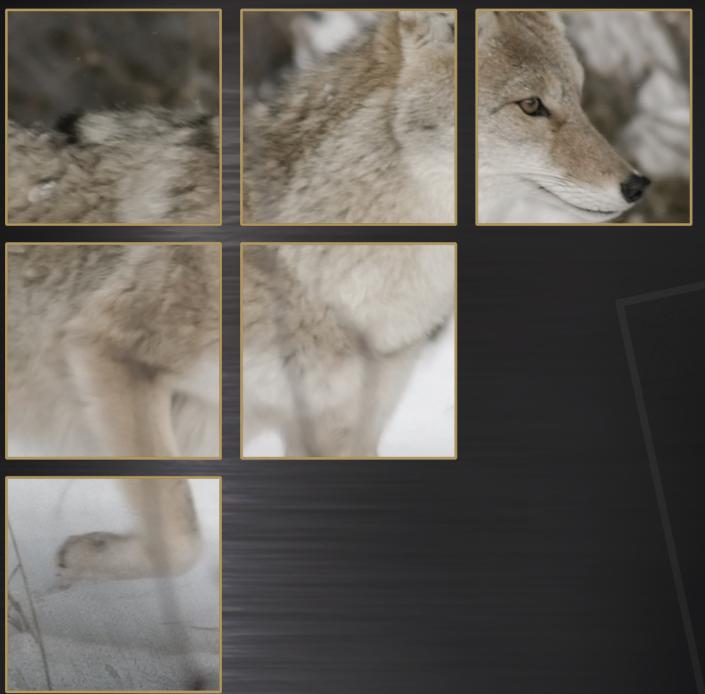
These trajectory tables were calculated by computer using the best available data for each load. Trajectories are representative of the nominal behavior of each load at standard conditions (59°F temperature; barometric pressure of 29.53 inches; altitude at sea level). Shooters are cautioned that actual trajectories may differ due to variations in altitude, atmospheric conditions, guns, sights and ammunition.

NOTE: For optimum slug performance, we recommend matching the chamber length to the slug length. For example, use a 3 inch slug in a 3 inch chamber.

PREMIUM® SMOOTHBORE SLUG BALLISTICS														VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)						ENERGY IN FOOT-POUNDS (TO NEAREST FOOT-POUND)						HEIGHT OF SLUG TRAJECTORY IN INCHES ABOVE OR BELOW LINE OF SIGHT IF ZEROED AT YARDS. SIGHTS 5 INCHES ABOVE BORE LINE.	TEST BARREL LENGTH INCHES
FEDERAL USAGE LOAD NO.	Gauge	SHELL LENGTH		SLUG TYPE		SLUG WEIGHT		VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)						ENERGY IN FOOT-POUNDS (TO NEAREST FOOT-POUND)						HEIGHT OF SLUG TRAJECTORY IN INCHES ABOVE OR BELOW LINE OF SIGHT IF ZEROED AT YARDS. SIGHTS 5 INCHES ABOVE BORE LINE.		TEST BARREL LENGTH INCHES					
FEDERAL PREMIUM® VITAL-SHOK® TRUBALL® RIFLED SLUGS (Smoothbore Barrel)																											
2	PB127 LRS*	12	2 $\frac{3}{4}$	70	TruBall Rifled Slug	1	438	1300	1150	1040	910	1640	1275	1055	805	0.6	♦	-7.4	30								
2	PB127 RS	12	2 $\frac{3}{4}$	70	TruBall Rifled Slug	1	438	1600	1370	1180	970	2485	1810	1355	915	0.3	♦	-5.7	30								
2	PB131 RS	12	3	76	TruBall Rifled Slug	1	438	1700	1450	1240	1000	2805	2040	1505	970	0.3	♦	-5.1	30								
2	PB203 RS	20	2 $\frac{3}{4}$	70	TruBall Rifled Slug	.34	328	1600	1390	1220	1010	1865	1410	1090	745	0.3	♦	-5.3	30								
2	PB209 RS	20	3	76	TruBall Rifled Slug	.34	328	1700	1480	1290	1040	2105	1595	1215	795	0.3	♦	-4.8	30								

FEDERAL PREMIUM® VITAL-SHOK® TRUBALL® DEEP PENETRATOR RIFLED SLUGS (Smoothbore Barrel)																									HEIGHT OF SLUG TRAJECTORY IN INCHES ABOVE OR BELOW LINE OF SIGHT IF ZEROED AT YARDS. SIGHTS 5 INCHES ABOVE BORE LINE.	TEST BARREL LENGTH INCHES
FEDERAL USAGE LOAD NO.	Gauge	SHELL LENGTH		SLUG TYPE		SLUG WEIGHT		VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)						ENERGY IN FOOT-POUNDS (TO NEAREST FOOT-POUND)						HEIGHT OF SLUG TRAJECTORY IN INCHES ABOVE OR BELOW LINE OF SIGHT IF ZEROED AT YARDS. SIGHTS 5 INCHES ABOVE BORE LINE.		TEST BARREL LENGTH INCHES				
FEDERAL PREMIUM® VITAL-SHOK® TRUBALL® DEEP PENETRATOR RIFLED SLUGS (Smoothbore Barrel)																									HEIGHT OF SLUG TRAJECTORY IN INCHES ABOVE OR BELOW LINE OF SIGHT IF ZEROED AT YARDS. SIGHTS 5 INCHES ABOVE BORE LINE.	TEST BARREL LENGTH INCHES
3	PB127 DPRS	12	2 $\frac{3}{4}$	70	TruBall Rifled Slug	1	438	1350	1200	1090	950	1775	1400	1150	875	0.5	♦	-6.8	30							
3	PB127 DPRS	12	2 $\frac{3}{4}$	70	TruBall Rifled Slug	1	438	1300	1150	1040	910	1640	1275	1055	805	0.6	♦	-7.4	30							

Usage Key: 2 = Medium game
*Low Recoil Load
These trajectory tables were calculated by computer using the best available data for each load. Trajectories are representative of the nominal behavior of each load at standard conditions (59°F temperature; barometric pressure of 29.53 inches; altitude at sea level). Shooters are cautioned that actual trajectories may differ due to variations in altitude, atmospheric conditions, guns, sights and ammunition.



Multiple Projectiles And Tight Patterns

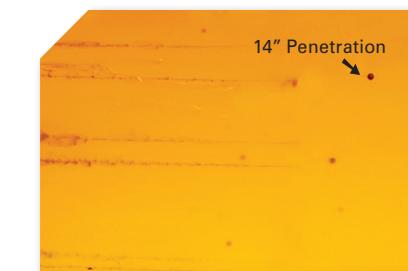
DEPREDATION officials and predator enthusiasts sing the praises of the one-shot killing power of our HEAVYWEIGHT® Coyote load. The FLITECONTROL® wad and mega-dense shot creates a system that drastically extends the effective shotshell range for coyotes.



Our FLITECONTROL wad has helped us achieve the ultimate performance on a number of platforms, and buckshot is no exception. This unique rear-braking wad system delivers the tightest patterns. When you can put all your pellets on target every time, good things happen.



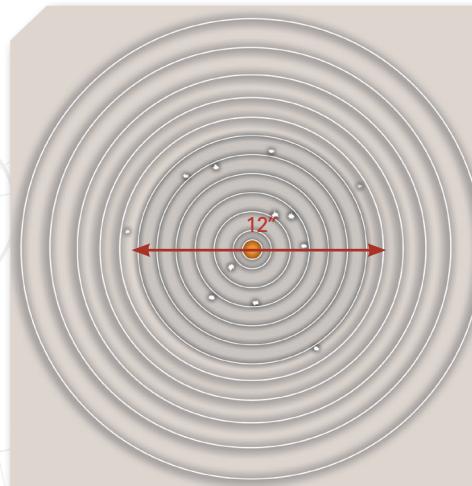
Our coyote load has a density of 15 g/cc—more than any other commercially loaded ammunition. A payload of HEAVYWEIGHT® pellets paired with the proprietary FLITECONTROL® wad means better patterns and much more downrange energy.



PHC120 BB with full choke at 40 yards. Target and gelatin shot with Rem. 1100.

PREMIUM® HEAVYWEIGHT® COYOTE SPECIFICATIONS							
FEDERAL LOAD NUMBER	GAUGE	SHOOTING POSITION	SHELL LENGTH INCHES	MM	MUZZLE VELOCITY	SHOT CHARGE WEIGHT OUNCES GRAMS	SHOT SIZES
FEDERAL PREMIUM® V-SHOK® HEAVYWEIGHT® COYOTE WITH FLITECONTROL® WAD			PHC120	12	3	76	1350 42.52 BB
NOTE: With FLITECONTROL, best performance is achieved with chokes that do not strip wad or reduce muzzle pressure.							

30-YARD PERFORMANCE



Target shot with 12-gauge 3-inch Vital-Shok™ Buckshot (PFC157 00) with a full choke from a Rem. 870 at 30 yards. 12 hits and 12-inch spread.

ALTERNATIVE COYOTE OFFERING

Looking for another option for your next coyote hunt? Our Vital-Shok™ buckshot 12-gauge 3-inch 4 Buck load (P158 4B) fits the bill. With an average payload of 41 extra-hard shot, it's sure to pack a punch on those pesky predators.



BUCKSHOT SIZES							
PELLET	No.0.00	No.0	No.0	No.1	No.2	No.3	No.4
DIAMETER INCHES	.36	.33	.32	.30	.27	.25	.24
DIAMETER MM	9.14	8.38	8.13	7.62	6.86	6.35	6.10

FEDERAL LOAD NO.	GAUGE	SHOOTING POSITION	SHELL LENGTH INCHES	MM	MUZZLE VELOCITY	SHOT SIZES
FEDERAL PREMIUM® VITAL-SHOK® BUCKSHOT						
P108F 00	10	3½	89	1100	18 Pellets - 00 Buck	
P135F 00	12	3½	89	1100	18 Pellets - 00 Buck	
P158 00	12	3	76	1100	15 Pellets - 00 Buck	
P158 4B	12	3	76	1100	41 Pellets - 4 Buck	
P158 000	12	3	76	1225	10 Pellets - 00 Buck	
P154 00	12	2¾	70	1325	9 Pellets - 00 Buck	
P156 00	12	2¾	70	1290	12 Pellets - 00 Buck	
P258 2B	20	3	76	1100	18 Pellets - 2 Buck	
P256 3B	20	2¾	70	1175	20 Pellets - 3 Buck	
FEDERAL PREMIUM® VITAL-SHOK® BUCKSHOT WITH FLITECONTROL® WAD						
PFC157 00	12	3	76	1325	12 Pellets - 00 Buck	
PFC154 00	12	2¾	70	1325	9 Pellets - 00 Buck	
NOTE: With FLITECONTROL, best performance is achieved with chokes that do not strip wad or reduce muzzle pressure.						



Die-Hard waterfowlers from across the globe congregate on Black Cloud's Stormchasers Network®, now in its fourth year. Each day, thousands of members sign in, call out for tips, strategize, track migrations and share their duck or goose hunting stories. It's free to join. Start by sharing pictures or videos from the field. Visit StormchasersNetwork.com.



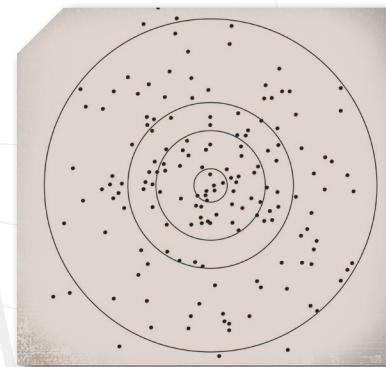
The Duck Commander crew is hardcore. Their videos and TV shows are unlike anything else in the country. And they know duck hunting. Check out Phil Robertson's special edition 12-gauge number 3 shot in Black Cloud® FS Steel®, High Velocity and Close Range. If he requested it, you know it's good.

The Storm Continues

WHEN we introduced Black Cloud®, we changed waterfowl hunting forever. Never before has a steel product been so lethal. Its famous FLTESTOPPER® pellets and the revolutionary FLITECONTROL® wad

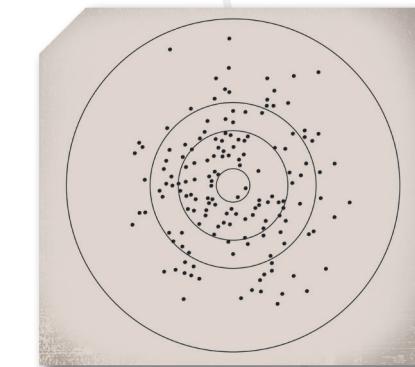
team up for more hits on target, more devastating wound channels and fewer lost ducks and geese. We also offer Black Cloud varieties with FLITECONTROL wads and blends of FLITESTOPPER steel tailored for specific applications, ranging from close range ducks to high-flying snows and everything in between.

25-YARD COMPARISON—CLOSE RANGE VERSUS STANDARD BLACK CLOUD®



CLOSE RANGE STANDARD BLACK CLOUD
PWB142.3 PWB142.3

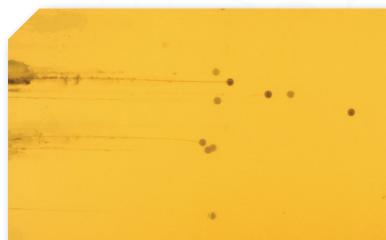
PRIMER
100% FLITESTOPPER® steel increases edge to edge patterning at close ranges, while standard Black Cloud (mix of 60/40 Premium and FS Steel®) is ideal for longer range performance.



STANDARD BLACK CLOUD
PWB142.3



STANDARD STEEL SHOT



FS Steel® creates a massive wound cavity visible in ballistic gelatin. Its amazing shot construction features a cutting edge that devastates on impact.

BLACK CLOUD® BUYERS GUIDE

With four different offerings, this versatile family of products delivers different benefits for different types of hunters.

BLACK CLOUD – Targeted for the everyday, die-hard duck or goose hunter. Available in BBB, BB, #2, #3, or #4s, there's a shot size for all waterfowl hunters.

BLACK CLOUD CLOSE RANGE – For the close range demands of decoying waterfowl or flooded timber hunters. Available in #2, #3 or #4.

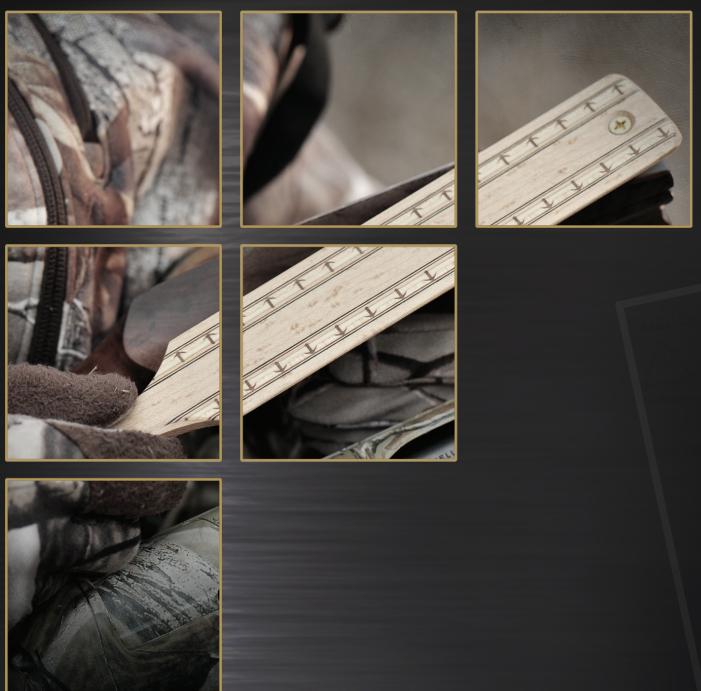
BLACK CLOUD HIGH VELOCITY – Made for duck hunters who prefer faster speeds and shorter lead times in #3 or #4. NOTE—For hunters aiming at larger ducks, such as divers, mallards and canvasbacks, we recommend our versatile #3. Hunters looking for high velocity options in BB or #2 should look for Black Cloud Snow Goose.

BLACK CLOUD SNOW GOOSE – Also created for higher speeds, and sized to take down all types of geese in spring or fall. Available in BB or #2.

BLACK CLOUD® ES STEEL® SPECIFICATIONS

FEDERAL LOAD NUMBER	Gauge	Shell Length Inches	MM	Muzzle Velocity	Shot Charge Ounces	Weight Grams	Shot Sizes
BLACK CLOUD® FS STEEL®							
PWB107	10	3½	89	1375	1½	46.07	BB, 2
PWB134	12	3½	89	1500	1½	42.52	BBB, BB, 2, 4
PWB142	12	3	76	1450	1¼	35.44	BBB, BB, 2, 3, 4
PWB146	12	2¾	70	1500	1	28.35	3, 4
PWB209	20	3	76	1350	1	28.35	2, 4
BLACK CLOUD® FS STEEL® HIGH VELOCITY							
PWBH143	12	3	76	1635	1½	31.90	3, 4
BLACK CLOUD® FS STEEL® SNOW GOOSE							
PWB143	12	3	76	1635	1½	31.90	BB, 2
BLACK CLOUD® FS STEEL® CLOSE RANGE							
PWBD142	12	3	76	1450	1¼	35.44	2, 3, 4
PWBD209	20	3	76	1350	1	28.35	2, 4

NOTE: With FLITECONTROL, best performance is achieved with steel chokes that do not strip wad or reduce muzzle pressure.



Conserve. Hunt. Share.

The National Wild Turkey Federation is celebrating its 40th anniversary. Since 1973, the NWTF has helped conserve wild turkeys, wildlife habitat and preserve our hunting heritage. The organization has spent \$286 million on conservation, and brought the turkey population from 1.3 million to 7 million in North America. Visit nwtf.org.



MAG-SHOK™ HEAVYWEIGHT®

Mag-Shok HEAVYWEIGHT loads recently won a 2012 *Field & Stream* Best of the Best Award! Products named to the Best of the Best list represent absolute excellence in their field, as determined through testing by *Field & Stream*'s team of experts.

**FIELD STREAM
BEST OF THE BEST AWARDS
2012**

FEDERAL PREMIUM® MAG-SHOK® HEAVYWEIGHT®

NEXT time that boss gobbler struts into range, turn him spurs up with a payload from Federal Premium®. From turkey-thumping 12-gauge loads to 20-gauge options that deliver serious Knockdown Power® yet are gentle on the shooter, Federal Premium has what you need to tackle that 'ole tom. Also, check out

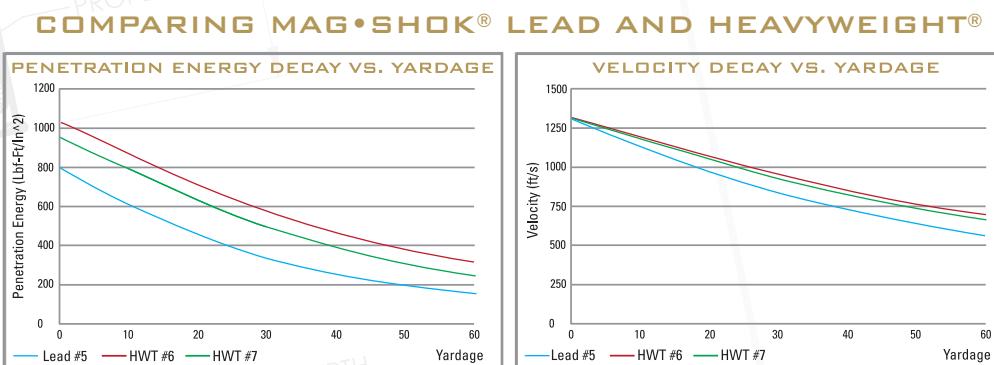
the Mag-Shok™ HEAVYWEIGHT® lineup. The 12-gauge 2- $\frac{3}{4}$ -inch load in either #6 or #7 uses 1- $\frac{1}{4}$ -ounce of HEAVYWEIGHT shot and the famous FLITECONTROL® wad to achieve more penetration energy and similar pellet count as 3-inch #5 lead. This load increases effective shot range by 20 yards while cutting felt recoil in half.

No Strutting Tom Is Safe



DOWN RANGE PELLET ENERGY IN FOOT-POUNDS — HEAVYWEIGHT®								
	LEAD (1-3/4 oz. at 1300 fps)			HEAVYWEIGHT (1-5/8 oz. at 1300 fps)			OTHER (1-1/2 oz. at 1300 fps)	
Yards	#4	#5	#6	#5	#6	#7	#5	#6
30	1260	1194	1122	1353	1290	1197	1180	1116
40	970	906*	837	1070	1005	914*	922	858
50	758	698	634	857	792	709	730	669

*#7 HEAVYWEIGHT equals the energy of #5 lead at 40 yards. Use only in barrels approved for steel shot.



#7 HWT has the same penetration energy at 60 yards as #5 lead at 40 yards

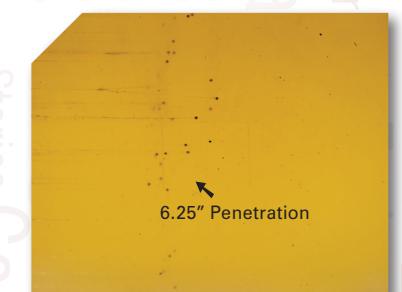
#7 HWT has the same velocity at 60 yards as #5 lead at 40 yards

PREMIUM® SHOTSHELL SPECIFICATIONS							
FEDERAL LOAD NUMBER	GAUGE	SHELL LENGTH INCHES MM	MUZZLE VELOCITY	DRAM EQUIV	SHOT CHARGE WEIGHT OUNCES GRAMS	SHOT SIZES	
FEDERAL PREMIUM® MAG-SHOK® LEAD WITH FLITECONTROL® WAD							
PFC135F	12	3½ 89	1150	Max.	2¼ 63.78	4, 5, 6	
PFC159F	12	3 76	1150	4	2 56.70	4, 5, 6	
FEDERAL PREMIUM® MAG-SHOK® LEAD WITH FLITECONTROL® WAD HIGH VELOCITY							
NWTF PFC101F	10	3½ 89	1300	Mag.	2 56.71	4, 5, 6	
NWTF PFC139F	12	3½ 89	1300	Mag.	2 56.7	4, 5, 6	
NWTF PFC157F	12	3 76	1300	Mag.	1¾ 49.61	4, 5, 6	
NWTF PFC156F	12	2¾ 70	1315	4	1½ 42.52	4, 5, 6	
NWTF PFC258F	20	3 76	1185	3	1½ 37.20	4, 5, 6	
FEDERAL PREMIUM® MAG-SHOK® HEAVYWEIGHT® WITH FLITECONTROL® WAD							
PHT101F*	10	3½ 89	1300	-	2 56.70	6, 7	
PHT191F*	12	3½ 89	1300	-	1½ 53.16	5, 6, 7	
PHT193F*	12	3 76	1300	-	1½ 46.07	5, 6, 7	
PHT258F*	20	3 76	1100	-	1½ 42.52	6, 7	
FEDERAL PREMIUM® MAG-SHOK® HEAVYWEIGHT® LOW RECOIL WITH FLITECONTROL® WAD							
PHT154F*	12	2¾ 70	1300	-	1¼ 35.44	6, 7	
PHT256F*	20	2¾ 70	1100	-	1½ 31.90	7	

*Five Pack NWTF = A portion of the proceeds from the sale of this product is donated to the National Wild Turkey Federation.



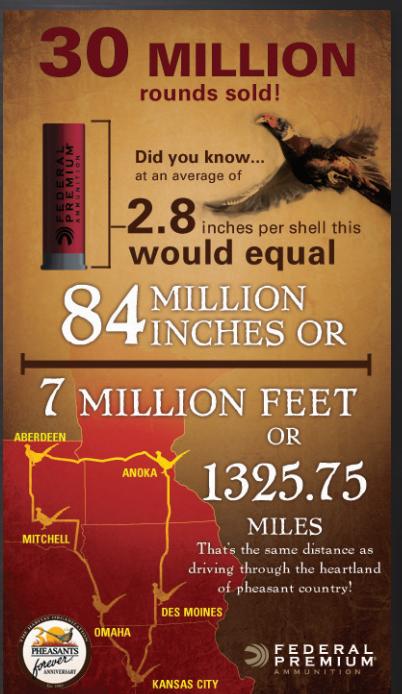
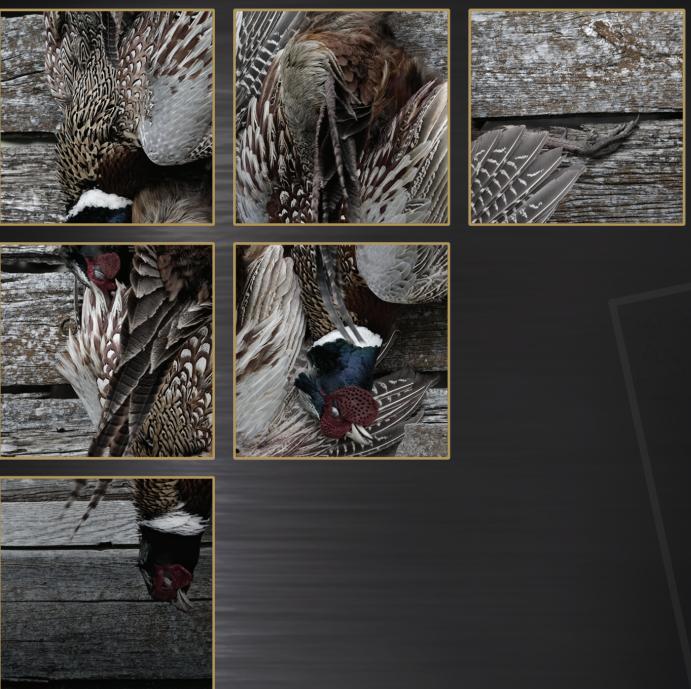
PREMIUM® TURKEY



Gelatin shot with 12-gauge 3-inch #7 Mag-Shok HEAVYWEIGHT® (PHT193F 7) from a Benelli Super Black Eagle II at 40 yards.



PFC139F 6 with full choke at 40 yards.



30 YEARS, 30 MILLION ROUNDS

Since 1998, Federal Premium® has supported Pheasants Forever with an on-box ammunition royalty program. For every box you buy with the Pheasants Forever logo, Federal Premium donates a portion of the proceeds to habitat and education programs. The organization recently celebrated its 30th anniversary, and we've sold more than 30 million of these special shotshells!



PREMIUM® PHEASANT

Speed Is Relative, Performance Isn't

HERE at Federal, we know pheasant and upland bird hunters want reliable loads that fill out patterns. With Prairie Storm® ammunition, we set the standard.

Our lead and steel offerings feature the rear-breaking FLITECONTROL® wad, specially formatted for the needs of upland hunters. Combine this with our proven FLITESTOPPER® pellet design and you have a fine-tuned system that will put more birds in your bag.

Our FS Steel® loads get nearly the same 40 yard velocity and pellet energy as standard lead loads. That means a 3-inch #4 FS Steel load (216 pellets) can replace your standard 2-3/4-inch #5 lead (212 pellets).



A BETTER EDGE-TO-EDGE PATTERN

Prairie Storm® FS Lead™ features a payload of copper-plated Premium® brand lead (70%) and nickel-plated FLITESTOPPER® Lead (30%). This combination produces consistent patterns for those jumpy, high flying roosters.

PRairie STORM® FS LEAD™



Gelatin shot with 12-gauge 3-inch #5 (PF129FS 5) from a Benelli Super Black Eagle II at 40 yards.



PF154FS 4 puts over 75% of its pattern in a 30-inch circle at 40 yards with a modified choke.

PREMIUM® SHOTSHELL SPECIFICATIONS

FEDERAL LOAD NUMBER	GAUGE	SHELL LENGTH INCHES	MUZZLE VELOCITY	SHOT CHARGE WEIGHT OUNCES	GRAMS	SHOT SIZES
PRairie STORM® FS LEAD™						
PF129FS	12	3	76	1350	1 1/8	42.52
PF154FS	12	2 3/4	70	1500	1/4	46.07
PF258FS	20	3	76	1300	1/4	35.44
PF204FS	20	2 3/4	70	1350	1	28.35
PRairie STORM® FS STEEL™						
PFS143FS	12	3	76	1600	1 1/8	31.90
PFS207FS	20	3	76	1500	7/8	24.81

NOTE: With FLITECONTROL, best performance is achieved with chokes that do not strip wad or reduce muzzle pressure.



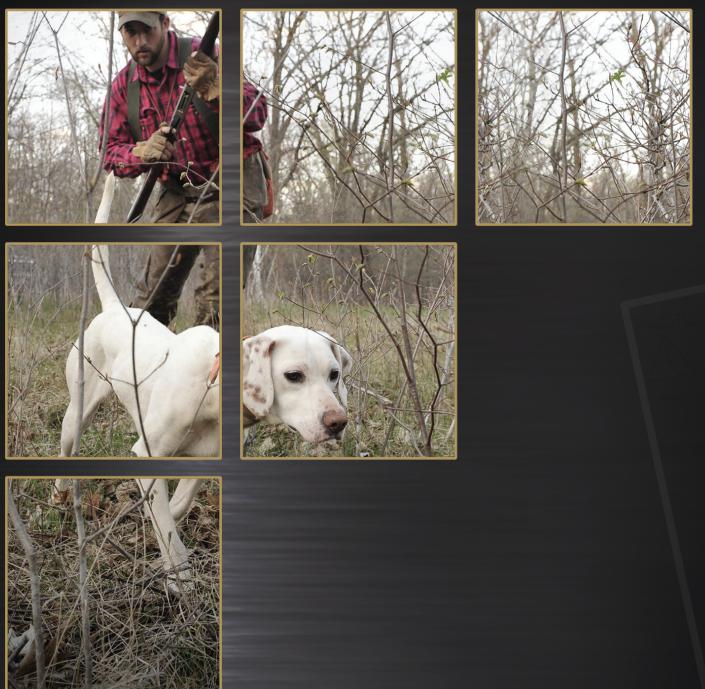
STEEL ALTERNATIVE

Prairie Storm® FS Steel® is the steel equivalent to your favorite upland load. Featuring a payload of Premium® brand steel (50%) and FLITESTOPPER® Steel (50%). Designed with the same pellet count and downrange velocity of popular lead loads.

PRairie STORM® FS STEEL™



Gelatin shot with 12-gauge 3-inch #4 (PFS143FS 4) from a Benelli Super Black Eagle II at 40 yards.

**HUNTERS FOR CONSERVATION®**

Hunters have always been the cornerstone of conservation in America. We support it through hunting license fees and through the Pittman-Robertson excise tax on guns and ammunition. Hunters also passed the laws that created seasons and bag limits to sustain game populations. Our efforts brought back the wild turkey, white-tailed deer and elk, but they have also enabled the recovery of the bald eagle and countless non-game species. At Federal Premium® we are committed to conservation because our future depends on it. For more information on how Federal Premium supports conservation through our Hunters For Conservation program, go to FederalPremium.com.



variety of reliable options that exceed expectations in the field.

**RUFFED GROUSE SOCIETY**

For more than 50 years the Ruffed Grouse Society (RGS) has been the one international wildlife conservation organization dedicated to promoting ruffed grouse and American woodcock habitat. Their efforts support wildlife and our hunting tradition, and Federal Premium® Ammunition is honored to support RGS. Visit ruffedgrousesociety.org.

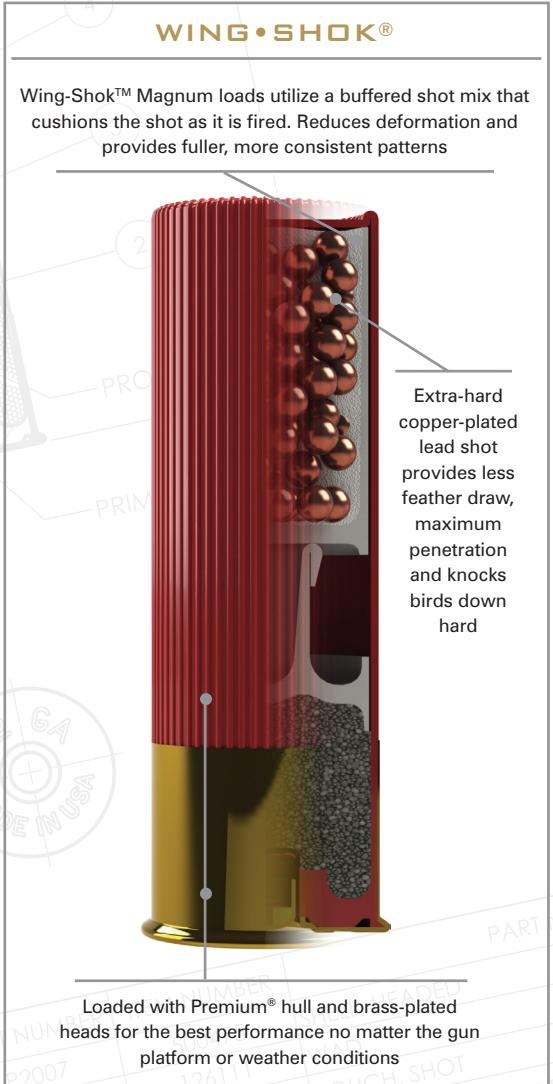
Cackle. Flush. Or Covey.

THE passion we share with upland hunters goes into every shell. We know you need fast payloads that pattern well. And we understand the satisfaction of watching dogs work. All of our Wing-Shok™ upland loads feature Premium® brand copper-plated lead shot and the best components. We spend countless hours developing specialty loads for all types of upland hunting.

Our Magnum loads feature buffered shot for tighter patterns, less feather draw and maximum penetration. This buffer protects and supports the shot when fired, reducing deformation of the pellets. Our heavy payloads pack a punch and get to your target faster than typical shotshell loads. And, as 28-gauge and other sub-gauges grow in popularity among experienced hunters, look to the

Wing-Shok lineup for a

broadest options of shot sizes, payloads and gauges. Find yours today.



Our Wing-Shok lineup gives upland hunters the broadest options of shot sizes, payloads and gauges. Find yours today.



Federal Premium® Wing-Shok™ lead loads feature extra-hard copper-plated shot for tighter patterns, less feather draw and maximum penetration.

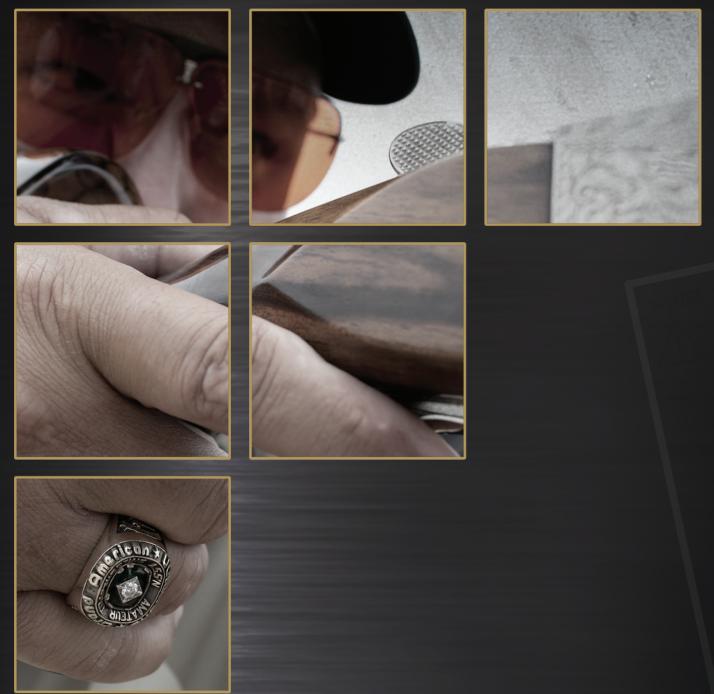
PREMIUM® SHOTSHELL SPECIFICATIONS						
FEDERAL LOAD NUMBER	GAUGE	SHELL LENGTH INCHES	SHELL LENGTH MM	MUZZLE VELOCITY	DRAM EQUIV	SHOT CHARGE WEIGHT OUNCES GRAMS
FEDERAL PREMIUM® WING-SHOK® MAGNUM**						
P109	10	3½	89	1210	4½	2¼ 63.79
P158	12	3	76	1210	4	1⅛ 53.16
P156	12	2¾	70	1315	4	1½ 42.53
P165	16	2¾	70	1260	3¼	1¼ 35.44
P258	20	3	76	1300	3½	1¼ 35.44
P256	20	2¾	70	1175	2¾	1⅛ 31.90
FEDERAL PREMIUM® WING-SHOK® HIGH VELOCITY						
P129	12	3	76	1350	Max.	1⅛ 46.07
P128	12	2¾	70	1500	Max.	1⅛ 31.90
P138	12	2¾	70	1500	Max.	1¾ 38.98
P283	28	2¾	70	1295	2¼	¾ 21.26
FEDERAL PREMIUM® WING-SHOK® PHEASANTS FOREVER HIGH VELOCITY						
PF154	12	2¾	70	1500	Max.	1¼ 35.44
PF163	16	2¾	70	1425	3¾	1⅛ 31.90
PF204	20	2¾	70	1350	Max.	1 28.35
FEDERAL PREMIUM® WING-SHOK® QUAIL FOREVER						
QFQF152	12	2¾	70	1200	3	1⅛ 31.90
QFQF251	20	2¾	70	1165	2½	1 28.35

**Magnum loads feature buffered shot

PF = A portion of the proceeds from the sale of this product is donated to Pheasants Forever

QF = A portion of the proceeds from the sale of this product is donated to Quail Forever

**PREMIUM® UPLAND**



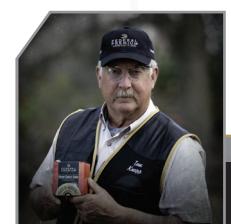
AMMUNITION

Getting You To The Winner's Circle

FROM the Grand to your local range, no other shotshell comes close to the consistency of Gold Medal®. Just ask Leo Harrison III. His 44-year career includes: 39x member of the All American Team, 27x Grand American Champion, 15x Grand American High



Over All Champion (including a 992x1000 World Record) and member of the ATA Hall of Fame. Set your own record today with Gold Medal.



TOM KNAPP SHOOTS FEDERAL PREMIUM®

Renowned exhibition shooter, world-record holder and showman Tom Knapp dazzles audiences with his skill, stage presence and genuine personality. Knapp shoots Federal Premium® Gold Medal® because it performs every time. For more on Knapp visit tomknapp.net.



PREMIUM® TARGET

PREMIUM® PLASTIC SHOTSHELL SPECIFICATIONS

FEDERAL LOAD NUMBER	GAUGE	SHELL LENGTH INCHES	MUZZLE VELOCITY	DRAM EQUIV	SHOT CHARGE WEIGHT OUNCES	GRAMS	SHOT SIZES
FEDERAL PREMIUM® GOLD MEDAL® PLASTIC							
T113	12	2 3/4	70	1180	2 3/4	1	28.35 7.5, 8, 8.5, 9
T115	12	2 3/4	70	1145	2 3/4	1 1/8	31.90 7.5, 8, 9
T116	12	2 3/4	70	1200	3	1 1/8	31.90 7.5, 8
T206	20	2 3/4	70	1200	2 1/2	7/8	24.81 8, 9
T280	28	2 3/4	70	1230	2	3/4	21.26 8.5, 9
T412	410	2 1/2	64	1230	Max.	1/2	14.18 8.5, 9
FEDERAL PREMIUM® GOLD MEDAL® HANDICAP PLASTIC							
T178	12	2 3/4	70	1235	HDCP	1 1/8	31.90 7.5, 8
FEDERAL PREMIUM® GOLD MEDAL® INTERNATIONAL PLASTIC							
N110	12	2 3/4	70	1325	3 1/4	7/8	24.01 7.5
FEDERAL PREMIUM® GOLD MEDAL® EXTRA-LITE PLASTIC - LOW RECOIL							
T114	12	2 3/4	70	1100	2 1/2	1 1/8	31.90 7.5, 8
FEDERAL PREMIUM® GOLD MEDAL® SPORTING CLAYS PLASTIC							
SC177	12	2 3/4	70	1240	3	1	28.35 7.5, 8, 8.5
SC178	12	2 3/4	70	1290	3 1/4	1	28.35 7.5, 8
SC179	12	2 3/4	70	1300	3 1/2	1 1/8	31.89 7.5, 8

PREMIUM® PAPER SHOTSHELL SPECIFICATIONS

FEDERAL LOAD NUMBER	GAUGE	SHELL LENGTH MM	MUZZLE VELOCITY	DRAM EQUIV	SHOT CHARGE WEIGHT OUNCES	GRAMS	SHOT SIZES
FEDERAL PREMIUM® GOLD MEDAL® PAPER							
T175	12	2 3/4	70	1180	2 3/4	1	28.35 8, 8.5
T117	12	2 3/4	70	1145	2 3/4	1 1/8	31.90 7.5, 8, 9
T118	12	2 3/4	70	1200	3	1 1/8	31.90 7.5, 8
FEDERAL PREMIUM® GOLD MEDAL® HANDICAP PAPER							
T171	12	2 3/4	70	1235	HDCP	1 1/8	31.90 7.5, 8
FEDERAL PREMIUM® GOLD MEDAL® INTERNATIONAL PAPER							
N119	12	2 3/4	70	1325	3 1/4	7/8	24.01 7.5
FEDERAL PREMIUM® GOLD MEDAL® EXTRA-LITE PAPER - LOW RECOIL							
T172	12	2 3/4	70	1100	2 1/4	1 1/8	31.90 7.5, 8
FEDERAL PREMIUM® PAPER FITASC LOADS							
TF175	12	2 3/4	70	1330	3 1/2	1	28.35 7.5

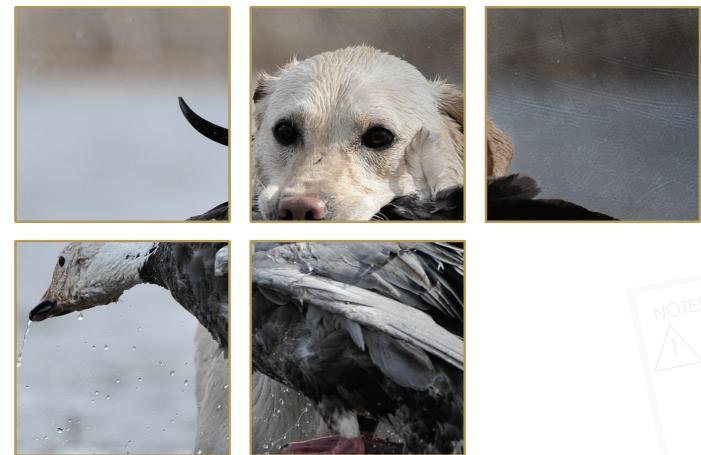
FEDERAL PREMIUM® SUPPORTS THE ATA GRAND AMERICAN



For decades, Federal Premium® has sponsored the ATA Grand American World Trapshooting Tournament. The annual event, now held in Sparta, Illinois, draws thousands of the nation's top trap shooters. It's not only a proving ground for competitors, but also for the ammunition they use.

In 2012, shooters who chambered Federal Premium ammunition took 40 percent of all trophies, and Federal shooter Leo Harrison III took both the High Over All Champion and High All Around Champion titles!

Best in class Competition Rifle Unmatched Sporting Clays Results



FEDERAL® SLUG, BUCKSHOT AND SHOTSHELL

Find The Best Value For Any Game

POWER•SHOK® SLUGS

Power-Shok™ slugs offer affordable sabot and rifled slug options in a variety of gauges. These loads give you reliable performance for a great price. You'll be thrilled at the power you get on target.



USAGE	FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	SLUG WEIGHT OUNCES GRAINS	VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)										ENERGY IN FOOT-POUNDS (TO NEAREST FOOT-POUND)										HEIGHT OF SLUG TRAJECTORY IN INCHES ABOVE OR BELOW LINE OF SIGHT IF ZEROED AT YARDS. SIGHTS 5 INCHES ABOVE BORE LINE.										TEST BARREL LENGTH INCHES
					MUZZLE 25 YDS.	50 YDS.	75 YDS.	100 YDS.	125 YDS.	MUZZLE 25 YDS.	50 YDS.	75 YDS.	100 YDS.	125 YDS.	MUZZLE 25 YDS.	50 YDS.	75 YDS.	100 YDS.	125 YDS.	MUZZLE 25 YDS.	50 YDS.	75 YDS.	100 YDS.	125 YDS.											
FEDERAL® POWER•SHOK® SABOT SLUGS (Fully Rifled Slug Barrel or Rifled Choke Tube)																																			
2	F127 SS2	12	2¾	70	Sabot Hollow Point	1	438	1500	1420	1350	1280	1220	1170	2190	1970	1775	1600	1455	1330	1.4	2.1	1.7	♦	-3.2	30										
2	F203 SS2	20	2¾	70	Sabot Hollow Point	½	383	1450	1350	1260	1180	1120	1070	1785	1550	1350	1190	1065	965	1.6	2.5	2	♦	-3.8	30										
FEDERAL® POWER•SHOK® RIFLED SLUGS (Smoothbore Barrel)																																			
2	F103F RS	10	3⅓	89	Hollow Point	1¼	766	1280	1170	1090	1020	970	930	2785	2325	2000	1770	1600	1465	0.5	♦	-2.4	-6.8	-13.6	32										
2	F131 RS	12	3	76	Hollow Point	1¼	547	1600	1460	1330	1220	1130	1060	3110	2570	2140	1800	1545	1360	0.3	♦	-1.5	-4.5	-9.1	30										
2	F127 RS	12	2¾	70	Hollow Point	1	438	1610	1470	1340	1230	1140	1070	2520	2090	1745	1470	1260	1110	0.3	♦	-1.5	-4.4	-8.9	30										
2	F130 RS	12	2¾	70	Hollow Point	1¼	547	1520	1390	1270	1170	1090	1030	2805	2330	1950	1660	1445	1290	0.3	♦	-1.7	-4.9	-10.0	30										
2	F164 RS	16	2¾	70	Hollow Point	½	350	1600	1380	1210	1080	1000	930	1990	1490	1135	910	770	675	0.3	♦	-1.8	-5.4	-11.2	28										
2	F203 RS	20	2¾	70	Hollow Point	¾	328	1600	1430	1280	1160	1070	1000	1865	1480	1190	975	830	730	0.3	♦	-1.6	-4.8	-10.0	26										
2	F412 RS	410	2½	64	Hollow Point	¼	109	1775	1540	1340	1180	1060	980	760	575	430	335	270	235	0.2	♦	-1.4	-4.4	-9.3	26										

Usage Key: 1 = Varmints, predators, small game 2 = Medium game 3 = Large, heavy game 4 = Dangerous game 5 = Target shooting, training, practice 6 = Self defense
These trajectory tables were calculated by computer using the best available data for each load. Trajectories are representative of the nominal behavior of each load at standard conditions (59°F temperature; barometric pressure of 29.53 inches; altitude at sea level). Shooters are cautioned that actual trajectories may differ due to variations in altitude, atmospheric conditions, guns, sights and ammunition.



POWER•SHOK® BUCKSHOT

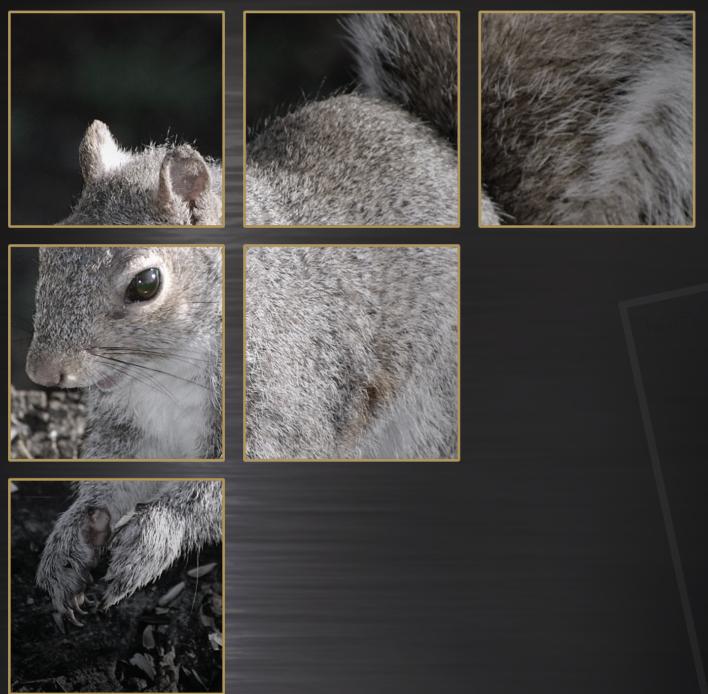
Bring home the venison with these reliable loads. You get great performance at an unbeatable price. Get tight downrange patterns and better stopping power.

BUCKSHOT SPECIFICATIONS						
FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	MUZZLE VELOCITY	SHOT SIZES		
FEDERAL® POWER•SHOK® BUCKSHOT						
F131 00	12	3	76	1210	15 Pellets - 00 Buck	
F131 4B	12	3	76	1210	41 Pellets - 4 Buck	
F127 000	12	2¾	70	1325	8 Pellets - 000 Buck	
F127 00	12	2¾	70	1325	9 Pellets - 00 Buck	
F127 4B	12	2¾	70	1325	27 Pellets - 4 Buck	
F130 00	12	2¾	70	1290	12 Pellets - 00 Buck	
F130 4B	12	2¾	70	1250	34 Pellets - 4 Buck	
F164 1B	16	2¾	70	1225	12 Pellets - 1 Buck	
F207 2B	20	3	76	1100	18 Pellets - 2 Buck	
F203 3B	20	2¾	70	1200	20 Pellets - 3 Buck	
FEDERAL® POWER•SHOK® BUCKSHOT - LOW RECOIL						
H132 00	12	2¾	70	1140	9 Pellets - 00 Buck	

TARGET LOAD SHOTSHELL SPECIFICATIONS						
FEDERAL LOAD NUMBER	GAUGE	SHELL LENGTH INCHES	MUZZLE VELOCITY	DRAM EQUIV	SHOT CHARGE WEIGHT OUNCES	SHOT SIZES
FEDERAL® TOP GUN® TARGET LOADS						
TG121	12	2¾	70	1180	2¾	1 28.34 7.5, 8
TG122	12	2¾	70	1250	3	1 28.35 7.5, 8
TG12	12	2¾	70	1200	3 ½	31.90 7.5, 8
TG12EL	12	2¾	70	1200	¾	24.81 8
TGL12	12	2¾	70	1145	¾	31.90 7.5, 8, 9
TG20	20	2¾	70	1210	½	24.81 7.5, 8, 9
FEDERAL® TOP GUN® TARGET - SUBSONIC LOADS						
TGM123	12	2¾	70	900	1 ½	31.89 7.5
FEDERAL® TOP GUN® TARGET - STEEL LOADS						
TG147	12	2¾	70	1145	½	31.90 7 Steel
TG251	20	2¾	70	1210	½	24.81 7 Steel

NEW ▶





PREMIUM® TARGET AND VARMINT

Targets Or Varmints. Shoot Small.

WHETHER you spend your days scanning the treetops for squirrels, punching paper at the range or plinking backyard targets, Federal offers rimfire loads with optimum performance.

The all-new American Eagle® Suppressor .22 loads are specifically designed for suppressed firearms, making them perfect for plinking and small game.

Small targets and open spaces mean no room for error. Our V-Shok™ cartridges combine excellent accuracy and terminal performance—explosive disruption on critters of all kinds.

Our Gold Medal® .22 Long Rifle loads are for the most serious competitors.

When plinking is the name of the game, you need reliable ammunition to have some fun. Don't worry about the price tag. Look for our affordable high-volume ammo options: Game-Shok™, Champion™ or American Eagle®.



With nearly 300,000 youth participants in 46 states, and thousands of adult volunteer leaders, 4H Shooting Sports is perhaps the strongest youth shooting program in the country. Federal helped found 4HSS in 1985 and remains its staunchest industry supporter.

5 shots at 100 yards, 0.164" group center to center (extreme spread). Target shot with UM22 in a Cooper rifle with Weaver® target scope.



PREMIUM® RIMFIRE BALLISTICS

USAGE	FEDERAL LOAD NO.	CALIBER	BULLET WEIGHT IN GRAINS	BULLET WEIGHT IN GRAMS	BULLET STYLE	VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)	ENERGY IN FOOT-POUNDS (TO NEAREST 5 FOOT-POUNDS)			WIND DRIFT IN INCHES 10 MPH CROSSWIND			HEIGHT OF BULLET TRAJECTORY IN INCHES ABOVE OR BELOW LINE OF SIGHT IF ZEROED AT $\frac{1}{4}$ YARDS. SIGHTS 1.5 INCHES ABOVE BORE LINE.		
							MUZZLE	50 YDS.	100 YDS.	MUZZLE	50 YDS.	100 YDS.	50 YDS.	100 YDS.	AVERAGE RANGE
FEDERAL PREMIUM® GOLD MEDAL®															
5	UM22	.22 Long Rifle	40	2.59	Solid	1080	960	880	105	80	70	1.6	5.9	♦	-7.9
5	922A	.22 Long Rifle	40	2.59	Solid	1080	960	880	105	80	70	1.6	5.9	♦	-7.9
5	711B	.22 Long Rifle	40	2.59	Solid	1080	990	930	105	90	75	1.1	4.2	♦	-7.3
5	719	.22 Long Rifle	40	2.59	Solid	1200	1080	990	130	105	85	1.3	4.9	♦	-6.0
FEDERAL PREMIUM® V-SHOK®															
1	P770	.17 HMR	17	1.10	Speer TNT JHP	2530	2150	1800	240	175	125	0.9	3.8	♦	-0.4
1	P771	.17 HMR	17	1.10	Hornady V-Max	2530	2190	1880	240	180	135	0.8	3.3	♦	-0.3
1	P765	.22 Win. Magnum	30	1.94	Speer TNT HP	2200	1780	1420	320	210	135	1.3	6.0	♦	-1.3
Abbreviation Key: HP = Hollow Point, JHP = Jacketed Hollow Point						Usage Key: 1 = Varmints, predators, small game 5 = Target shooting, training, practice These trajectory tables were calculated by computer using the best available data for each load. Trajectories are representative of the nominal behavior of each load at standard conditions (59°F temperature; barometric pressure of 29.93 inches; altitude at sea level). Shooters are cautioned that actual trajectories may differ due to variations in altitude, atmospheric conditions, guns, sights and ammunition.									

RIMFIRE BALLISTICS

USAGE	FEDERAL LOAD NO.	CALIBER	BULLET WEIGHT IN GRAINS	BULLET WEIGHT IN GRAMS	BULLET STYLE	VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)	ENERGY IN FOOT-POUNDS (TO NEAREST 5 FOOT-POUNDS)			WIND DRIFT IN INCHES 10 MPH CROSSWIND			HEIGHT OF BULLET TRAJECTORY IN INCHES ABOVE OR BELOW LINE OF SIGHT IF ZEROED AT $\frac{1}{4}$ YARDS. SIGHTS 1.5 INCHES ABOVE BORE LINE.		
							MUZZLE	50 YDS.	100 YDS.	MUZZLE	50 YDS.	100 YDS.	50 YDS.	100 YDS.	AVERAGE RANGE
FEDERAL® GAME-SHOK®															
1	716	.22 Long Rifle	25	1.62	No. 12 Lead Bird Shot	-	-	-	-	-	-	-	-	-	
1	724	.22 Long Rifle	31	2.01	Copper Plated HP	1430	1200	1050	140	100	75	1.8	7.1	♦	-4.6
1	712	.22 Long Rifle	38	2.46	Copper Plated HP	1260	1110	1010	135	105	85	1.5	5.5	♦	-5.5
1	710	.22 Long Rifle	40	2.59	Copper Plated Solid	1240	1100	1010	135	110	90	1.4	5.1	♦	-5.6
1	810	.22 Long Rifle	40	2.59	Copper Plated Solid	1240	1100	1010	135	110	90	1.4	5.1	♦	-5.6
1	757	.22 Win. Magnum	50	3.24	JHP	1530	1350	1200	260	200	160	1.2	4.7	♦	-3.3
FEDERAL® CHAMPION™															
5	745*	.22 Long Rifle	36	2.33	Copper Plated HP	1260	1100	1000	125	95	80	1.5	5.7	♦	-5.6
5	AM22**	.22 Long Rifle	40	2.59	Solid	1200	1080	990	130	105	85	1.3	4.9	♦	-6.0
5	510	.22 Long Rifle	40	2.59	Solid	1240	1100	1010	135	110	90	1.4	5.1	♦	-5.6
5	737	.22 Win. Magnum	40	2.59	Full Metal Jacket	1880	1570	1310	315	220	155	1.4	5.8	♦	-2.1
AMERICAN EAGLE®															
5	AE22	.22 Long Rifle	38	2.46	Copper Plated HP	1260	1110	1010	135	105	85	1.5	5.5	♦	-5.5
AMERICAN EAGLE® SUPPRESSOR															
5	AE22SUP1	.22 Long Rifle	42	2.72	Copper Plated Solid	1050	970	910	105	85	75	1.1	4.1	♦	-7.8
Abbreviation Key: HP = Hollow Point, JHP = Jacketed Hollow Point						Usage Key: 1 = Varmints, predators, small game 5 = Target shooting, training, practice 6 = Self defense These trajectory tables were calculated by computer using the best available data for each load. Trajectories are representative of the nominal behavior of each load at standard conditions (59°F temperature; barometric pressure of 29.93 inches; altitude at sea level). Shooters are cautioned that actual trajectories may differ due to variations in altitude, atmospheric conditions, guns, sights and ammunition.									



JOIN THE COMMUNITY!

ReloaderHub.com

ReloaderHub.com is a member-driven website where reloaders can connect with others, share handloading recipes, post comments, photos, videos, and more! The site also features a reloading calculator app available for iPhone and Android.

Connect with reloaders everywhere at ReloaderHub.com.

You can share handloading recipes and post comments, photos, videos and more! And be sure to download the ReloaderHub Reloading Calculator app. Available for iPhone and Android, it's a quick, easy way to calculate cost per round and more.

Great Shots Start With Federal®

FOR the best in empty brass, turn to the brand that knows a little something about manufacturing ammunition—Federal Premium®. We have a rich tradition of providing quality products for hunters and shooters: since the early 1950s when our first centerfire rounds rolled off our machines, we've built and perfected brass. If you require the best first run, unprimed brass in a variety of common cartridges, trust Federal Premium.

Reliable. Trusted. Proven. Gold Medal® primers are the best in the industry—providing optimum ignition for match shooters worldwide. They're manufactured to exacting tolerances, so you know you're getting high-quality primer components. And this will give you the extra confidence you need.

**GOLD MEDAL® AR PRIMERS**

Our Gold Medal primers are the best in the industry. They've provided optimum ignition for match shooters worldwide. In 2011, we brought this same primer expertise and technology to the AR platform. Our small rifle Gold Medal AR Match primers feature Mil-Spec sensitivity and exact tolerances.



BRASS, PRIMERS AND WADS

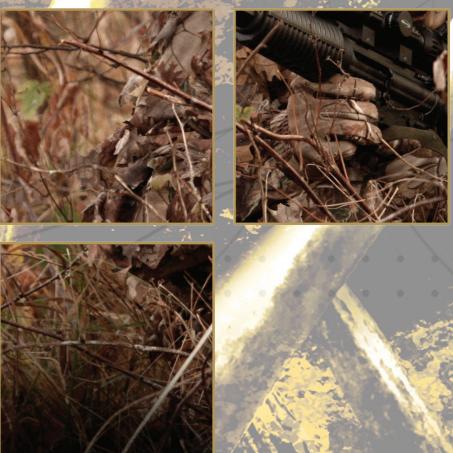
**PRIMER SPECIFICATIONS**

FEDERAL SKU	TYPE	USE	NOMINAL DIAMETER
FEDERAL PREMIUM® GOLD MEDAL® CENTERFIRE PRIMERS			
GM100M	Small Pistol Match	Std. velocity pistol and revolver	.175
GM150M	Large Pistol Match	Std. and magnum pistol and revolver	.210
GM155M	Large Magnum Pistol Match	Magnum revolver	.210
GM200M	Small Magnum Pistol Match	High velocity and magnum pistol and revolver	.175
GM205M	Small Rifle Match	Small rifle	.175
GM210M	Large Rifle Match	Large rifle	.210
GM215M	Large Magnum Rifle Match	Magnum rifle	.210
FEDERAL PREMIUM® GOLD MEDAL® AR CENTERFIRE PRIMERS			
GM205MAR	Small Rifle AR Match	Small rifle AR	.175
FEDERAL® CHAMPION™ CENTERFIRE PRIMERS			
100	Small Pistol	Std. velocity pistol and revolver	.175
150	Large Pistol	Std. and magnum pistol and revolver	.210
155	Large Magnum Pistol	Magnum revolver	.210
200	Small Magnum Pistol	High velocity and magnum pistol and revolver	.175
205	Small Rifle	Small rifle	.175
210	Large Rifle	Large rifle	.210
215	Large Magnum Rifle	Magnum rifle	.210
FEDERAL® CHAMPION™ SHOTSHELL PRIMERS			
209A	Shotshell	10, 12, 20, 28-gauge and .410 bore	.243

WAD SPECIFICATIONS

FEDERAL SKU	TYPE	USE
FEDERAL® CHAMPION™ WADS		
12S0	12 Gauge	7/8 and 1 oz. loads in Gold Medal® target shells
12S3	12 Gauge	1-1/8 oz. loads in Gold Medal target and hunting shells
12S4	12 Gauge	1-1/4 oz. loads in Gold Medal target and hunting shells
20S1	20 Gauge	7/8 and 1 oz. in all loads
28S1	28 Gauge	3/4 oz. loads
410SC	.410 Bore	1/2 oz. loads (shot cup only)

AMMUNITION



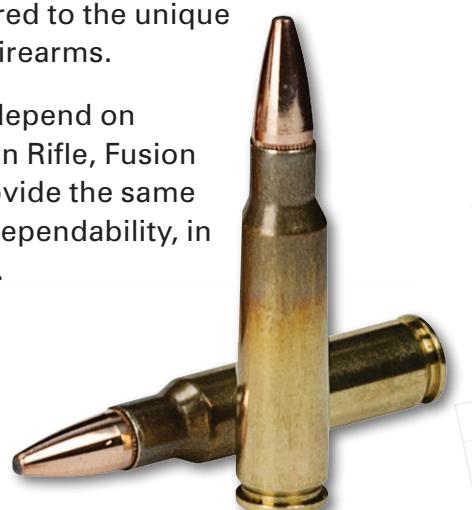
TOUGH. ACCURATE. LETHAL.

FUSION: Nothing in its class is as tough, accurate or lethal. That's thanks to construction processes that electrochemically fuse the bullet jacket to the core for impressive weight retention and game-dropping energy transfer.

This year, check out Fusion® MSR. Its namesake—the modern sporting rifle—represents the most versatile class of firearms in history. Shooters often build these rifles from the ground up and trick them out with accessories to match their specific needs. All-new Fusion MSR provides that same degree of customization.

From case to primer to projectile to propellant, the cartridges are specifically designed for hunting MSRs, performing to their ballistic peak through 16- to 20-inch barrels. They feature low-flash, fast-burning propellant and primers compatible with the free-floating firing pins characteristic of MSRs. The rounds offer perfect feeding and function, with velocities tailored to the unique ballistic tendencies of these firearms.

As always, hunters can also depend on Fusion's core offerings, Fusion Rifle, Fusion Lite and Fusion Safari. All provide the same stellar accuracy, power and dependability, in the same affordable package.



NEW



FUSION® MSR

HUNTING'S FUTURE BEGINS TODAY: FUSION® MSR

Primer compatible with rifles that have a free-floating firing pin

Federal® made brass case features a harder case head for exceptional primer retention

Clean-burning, low-flash, fast-burning propellant boosts velocity through 16- to 20-inch barrels

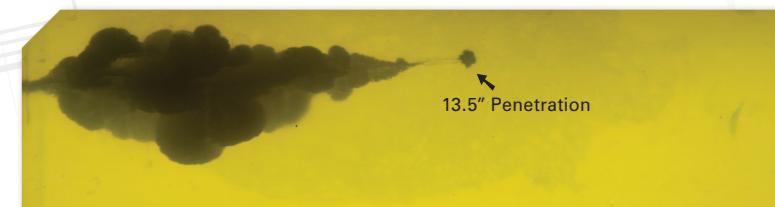
Military-style colored iris gives visual confirmation of proper case metallurgy

Boat-tail design for improved accuracy

Molecularly-fused jacket around a pressure-formed core

Internally skived bullet for consistent long-range expansion

NEW FUSION® MSR



Gelatin shot with 62-grain .223 Rem. Fusion MSR (F223MSR1) from a Ruger SR-556 at 100 yards.

FUSION® MSR		
LOAD NO.	CALIBER	GRAINS
F223FS1	.223 Rem.	62
F22250FS1	.22-250 Rem.	55
F243FS1	.243 Win. (.6.16x51mm)	95
F2506FS1	.25-06 Rem.	120
F260FS1	.260 Rem.	120
F6555FS1	.6.5x55 Swedish	140
F270FS1	.270 Win.	130
F270FS2	.270 Win.	150
F270WSMFS1	.270 Win. Short Magnum	150
F708FS2	.7mm-08 Rem.	120
F708FS1	.7mm-08 Rem.	140
F280FS1	.280 Rem.	140
F7RFS1	.7mm Rem. Magnum	150
F7RFS2	.7mm Rem. Magnum	175
F7WSMFS1	.7mm Win. Short Magnum	150
F76239FS1	.7.26x39mm Soviet	123
F3030FS1	.30-30 Win.	150
F3030FS2	.30-30 Win.	170
F308FS1	.308 Win. (7.62x51mm)	150
F308FS2	.308 Win. (7.62x51mm)	165
F308FS3	.308 Win. (7.62x51mm)	180
F3006FS1	.30-06 Spring.	150
F3006FS2	.30-06 Spring.	165
F3006FS3	.30-06 Spring.	180
F300WFS1	.300 Win. Magnum	150
F300WFS2	.300 Win. Magnum	165
F300WFS3	.300 Win. Magnum	180
F300WSMFS3	.300 Win. Short Magnum	150
F300WSMFS1	.300 Win. Short Magnum	165
F300WSMFS2	.300 Win. Short Magnum	180
F338FFS2	.338 Federal	200
F338FS1	.338 Win. Magnum	225
F35FS1	.35 Whelen	200
F4570FS1	.45-70 Government	300

FUSION® LITE		
LOAD NO.	CALIBER	GRAINS
F270FSLR1	.270 Win.	145
F308FSLR1	.308 Win. (7.62x51mm)	170
F3006FSLR1	.30-06 Spring. (7.62x63mm)	170

FUSION® SAFARI		
LOAD NO.	CALIBER	GRAINS
F375FS1	.375 H&H	300
F416RFS1	.416 Rem.	400
F416FS1	.416 Rigby	400
F458FS1	.458 Win.	500
F458LFS1	.458 Lott	500



FUSION® RIFLE, MSR, LITE AND SAFARI

FUSION® KEEPING THE MODERN HUNTER ON TOP

LOAD NO.	CALIBER	WEIGHT		BULLET STYLE	PRIMER NO	VELOCITY IN FEET PER SEC. (TO NEAREST 10 FPS)					ENERGY IN FOOT POUNDS (NEAREST 5 FOOT POUNDS)					WIND DRIFT					HEIGHT OF BULLET TRAJECTORY ABOVE OR BELOW LINE OF SIGHT IF ZEROED AT 0 YARDS								TEST BARREL LENGTH					
		GRAINS	GRAMS			Muzzle	100	200	300	400	500	Muzzle	100	200	300	400	500	100	200	300	400	500	50	100	200	300	50	100	200	300	400	500		
FUSION RIFLE																																		
F223FS1	223 Rem.	62	4.02	Fusion	205	3000	2700	2410	2150	1900	1670		1240	1000	800	635	495	385	1.0	4.0	9.7	18.1	30.4	-0.2	⊕	-3.3	-12.6	0.6	1.6	⊕	-7.7	-22.8	-48.0	24
F2250FS1	22-250 Rem.	55	3.56	Fusion	210	3650	2980	2410	1900	1470	1160		1625	1085	705	440	265	165	1.6	6.8	17.0	34.3	60.6	-0.3	⊕	-2.5	-11.1	0.3	1.2	⊕	-7.4	-24.9	-60.0	24
F243FS1	243 Win. (6.16x51mm)	95	6.16	Fusion**	210	2980	2730	2490	2270	2060	1850		1875	1570	1310	1085	890	725	0.8	3.3	7.8	14.6	23.7	-0.2	⊕	-3.2	-11.9	0.6	1.6	⊕	-7.2	-21.2	-43.2	24
F2506FS1	25-06 Rem.	120	7.78	Fusion	210	2980	2780	2590	2400	2220	2050		2365	2055	1780	1535	1315	1120	0.6	2.6	6.0	11.3	18.3	-0.2	⊕	-3.0	-11.2	0.5	1.5	⊕	-6.7	-19.5	-39.3	24
F260FS1	260 Rem.	120	7.78	Fusion	210	2950	2710	2480	2270	2060	1870		2320	1955	1640	1370	1130	930	0.8	3.3	7.6	14.2	23.0	-0.2	⊕	-3.2	-12.1	0.6	1.6	⊕	-7.3	-21.4	-43.4	24
F6555FS1	6.5x55 Swedish	140	9.07	Fusion	210	2530	2340	2150	1970	1800	1650		1990	1695	1435	1210	1010	845	0.8	3.6	8.3	15.3	25.3	0.0	⊕	-4.9	-17.4	1.2	2.5	⊕	-9.9	-28.7	-58.7	24
F270FS1	270 Win.	130	8.42	Fusion	210	3050	2810	2580	2370	2160	1970		2685	2280	1925	1620	1350	1115	0.7	3.0	7.0	13.1	21.3	-0.2	⊕	-2.9	-11.0	0.5	1.5	⊕	-6.6	-19.6	-39.8	24
F270FS2	270 Win.	150	9.72	Fusion	210	2850	2660	2470	2290	2120	1950		2705	2345	2030	1745	1495	1270	0.7	2.8	6.5	12.0	19.3	-0.2	⊕	-3.4	-12.6	0.7	1.7	⊕	-7.4	-21.6	-43.3	24
F270WSMFS1	270 Win. Short Magnum	150	9.72	Fusion	215	3060	2870	2680	2500	2330	2170		3120	2735	2395	2090	1815	1565	0.5	2.4	5.5	10.0	16.3	-0.3	⊕	-2.8	-10.3	0.4	1.4	⊕	-6.2	-17.9	-36.1	24
F708FS2	7mm-08 Rem.	120	7.78	Fusion	210	3000	2720	2460	2210	1970	1750		2400	1970	1605	1295	1035	820	0.9	3.7	8.8	16.5	27.3	-0.2	⊕	-3.2	-12.2	0.6	1.6	⊕	-7.4	-22.0	-45.6	24
F708FS1	7mm-08 Rem.	140	9.07	Fusion	210	2850	2620	2390	2180	1980	1790		2525	2125	1780	1480	1220	995	0.9	3.4	8.0	14.9	24.3	-0.2	⊕	-3.6	-13.3	0.7	1.8	⊕	-7.9	-23.2	-47.2	24
F280FS1	280 Rem.	140	9.07	Fusion	210	2990	2790	2610	2430	2260	2090		2780	2425	2115	1830	1580	1355	0.6	2.5	5.8	10.7	17.5	-0.2	⊕	-3.0	-11.0	0.5	1.5	⊕	-6.5	-19.1	-38.5	24
F7RFS1	7mm Rem. Magnum	150	9.72	Fusion	215	3050	2860	2680	2510	2340	2180		3100	2725	2390	2090	1820	1580	0.5	2.3	5.4	9.8	16.0	-0.3	⊕	-2.8	-10.4	0.4	1.4	⊕	-6.2	-17.9	-36.1	24
F7RFS2	7mm Rem. Magnum	175	11.34	Fusion	215	2760	2590	2430	2270	2120	1980		2960	2610	2295	2010	1750	1520	0.7	2.5	5.8	10.8	17.4	-0.1	⊕	-3.6	-13.2	0.8	1.8	⊕	-7.8	-22.3	-44.5	24
F7WSMFS1	7mm Win. Short Magnum	150	9.72	Fusion	215	3100	2910	2730	2560	2390	2230		3200	2820	2480	2175	1900	1650	0.5	2.2	5.2	9.5	15.4	-0.3	⊕	-2.6	-9.9	0.4	1.3	⊕	-6.0	-17.2	-34.7	24
F76239FS1	7.26x39mm Soviet	123	7.97	Fusion	210	2350	2080	1820	1590	1390	1220		1510	1180	905	695	525	405	1.5	6.0	14.8	27.7	45.9	0.1	⊕	-6.5	-23.8	1.8	3.3	⊕	-14.0	-41.6	-87.7	24
F3030FS1	30-30 Win.	150	9.72	Fusion*	210	2390	2090	1810	1550	1340	1170		1900	1450	1085	805	595	455	1.6	6.6	16.2	30.8	51.1	0.1	⊕	-6.5	-23.9	1.7	3.2	⊕	-14.2	-42.8	-91.5	24
F3030FS2	30-30 Win.	170	11.02	Fusion*	210	2200	1950	1720	1510	1330	1180		1825	1435	1115	860	665	525	1.4	6.3	15.1	28.5	46.7	0.3	⊕	-7.7	-27.2	2.2	3.9	⊕	-15.6	-46.8	-97.8	24
F308FS1	308 Win. (7.62x51mm)	150	9.72	Fusion	210	2820	2600	2390	2190	2000	1820		2650	2250	1905	1600	1335	1105	0.8	3.2	7.6	14.1	22.9	-0.2	⊕	-3.6	-13.4	0.7	1.8	⊕	-8.0	-23.1	-46.9	24
F308FS2	308 Win. (7.62x51mm)	165	10.69	Fusion	210	2700	2500	2310	2130	1950	1790		2670	2290	1955	1660	1400	1175	0.7	3.1	7.5	13.7	22.3	-0.1	⊕	-4.1	-14.7	0.9	2.0	⊕	-8.6	-24.8	-50.1	24
F308FS3																																		



FUSION® HANDGUN: AN EXACT SCIENCE

Fusion handgun loads are another product in the Fusion fold specifically designed for hunting whitetails. No details are overlooked. The bullet construction is exactly the same as their centerfire rifle counterparts for excellent toughness. In addition, velocities and recoils are intended for use in the field. We understand that super fast loads might look good on paper, but real-world recoil can translate to inaccurate shooting and missed trophies. For this reason, bullet weights and velocities have been developed to be lethal on whitetails, without pounding the shooter.

HANDGUN BALLISTICS

LOAD NO.	CALIBER	WEIGHT		BULLET-STYLE	PRIMER NO	VELOCITY IN FEET PER SEC. (TO NEAREST 10 FPS)					ENERGY IN FOOT POUNDS (NEAREST 5 FOOT POUNDS)					TRAJECTORY (SIGHTS .9 INCHES ABOVE BORE LINE)					TEST BARREL
		Grains	Grams			Muzzle	25	50	75	100	Muzzle	25	50	75	100	25	50	75	100	25	
F357FS1	357 Magnum	158	10.24	Fusion	100	1240	1190	1140	1100	1060	540	495	455	425	395	⊕	-0.6	-3.0	-7.1	4-V	
F411FS1	41 Rem. Magnum	210	13.61	Fusion	150	1230	1170	1120	1080	1040	705	640	585	545	505	⊕	-0.7	-3.1	-7.3	4-V	
F444FS1	44 Rem. Magnum	240	15.55	Fusion	150	1290	1220	1160	1110	1070	885	795	720	655	605	⊕	-0.6	-2.7	-6.7	4-V	
F454FS1	454 Casull	260	16.85	Fusion	150	1350	1270	1190	1130	1080	1050	925	820	735	670	⊕	-0.5	-2.4	-6.1	5.7-V	
F460FS1	460 S&W	260	16.85	Fusion	210	1600	1500	1400	1310	1230	1480	1290	1125	990	870	⊕	-0.1	-1.3	-3.7	8.4-V	
F500FS2	500 S&W	325	21.06	Fusion	210	1450	1360	1270	1130	1515	1330	1170	1035	930	⊕	-0.3	-1.9	-5.0	8.4-V		
NEW ➤ F50AEFS1	50 Action Express	300	19.44	Fusion	350	1500	1410	1320	1240	1170	1500	1315	1160	1025	915	⊕	-0.2	-1.7	-4.5	6	

V = Vented Barrel. These trajectory tables were calculated by computer using the best available data for each load. Trajectories are representative of the nominal behavior of each load at standard conditions (59°F temperature; barometric pressure of 29.53 inches; altitude at sea level). Shooters are cautioned that actual trajectories may differ due to variations in altitude, atmospheric conditions, guns, sights and ammunition.

FUSION® SHOTGUN SLUGS: BRING A NEW LEVEL OF TOUGHNESS TO YOUR SHOTGUN

The creation of Fusion shotgun slugs has made shotgunners a part of this deer-optimized technology. Now you can find the same unequaled energy and deer devastation in your favorite rifle-barrel From a stand or on the move in the field, be the most effective shotgunner in the woods.



SHOTGUN SLUG BALLISTICS

LOAD NO.	GAUGE	SHELL LENGTH		SLUG TYPE	SLUG WEIGHT		VELOCITY IN FEET PER SECOND (To Nearest 10 FPS)					ENERGY IN FOOT-POUNDS (To nearest 5 foot-pounds)					TRAJECTORY (SIGHTS .9 INCHES ABOVE BORE LINE.)					TEST BARREL											
		Inches	MM		Ounces	Grains	Muzzle	25	50	75	100	125	150	175	200	Muzzle	25	50	75	100	125	150	175	200									
F151 FS2	12	3	76	Fusion Sabot Slug	7/8	383	1700	1600	1500	1410	1320	1250	1180	1120	1070	2455	2165	1905	1680	1485	1320	1180	1070	980	1.0	1.7	1.4	⊕	-2.6	-6.7	-12.3	-19.6	30
F154 FS2	12	2-3/4	70	Fusion Sabot Slug	7/8	383	1600	1500	1410	1330	1250	1180	1120	1080	1040	2175	1915	1685	1490	1325	1185	1075	985	910	1.2	2.0	1.6	⊕	-3.0	-7.5	-13.8	-21.9	30
F209 FS2	20	3	76	Fusion Sabot Slug	7/8	383	1550	1440	1340	1250	1180	1110	1060	1020	980	2040	1765	1530	1335	1175	1055	955	880	820	1.4	2.2	1.8	⊕	-3.3	-8.4	-15.4	-24.4	30
F208 FS2	20	2-3/4	70	Fusion Sabot Slug	7/8	383	1450	1350	1260	1180	1120	1070	1020	990	950	1785	1550	1350	1190	1065	965	885	825	770	1.6	2.5	2.0	⊕	-3.8	-9.4	-17.1	-26.9	30

FUSION® MUZZLELOADING SLUGS: FRONT LOADING, BUCK-STOPPING

The late season is a great opportunity to get that wary buck. With the right scouting, you'll get your opportunity. Harness the energy of Fusion in these accurate muzzleloader sabot slugs. Fusion technology gives 50-caliber crush-rib sabots reason to seat themselves at the breech of your Thompson/Center. The 50-caliber bullets use the same superior technology that makes all Fusion projectiles the most accurate and deadly deer ammunition in their class. A deep snow buck has called your number. Get in the game.

MUZZLELOADING SLUGS

FIREARM	LOAD NO.	CALIBER	WEIGHT GRAINS
IN-LINE MUZZLELOADER	F50FSML1	50	240
IN-LINE MUZZLELOADER	F50FSML2	50	260
IN-LINE MUZZLELOADER	F50FSML3	50	300

FUSION® PRIMERS: IGNITION YOU CAN COUNT ON

No ignition. No trophy. The Fusion muzzleloader primer is especially formulated for the tough conditions faced in the late season. Soaking wet. Cold and crisp. Fusion primers ignite no matter what. We worked with muzzleloader gurus at Thompson/Center Arms to develop the ultimate muzzleloader primer.

MUZZLELOADING PRIMERS

FIREARM	LOAD NO.	DESCRIPTION
IN-LINE MUZZLELOADER	F209FSML	209 MUZZLELOADING PRIMER

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