

**FEDERAL
PREMIUM**
AMMUNITION



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Walking Softly. Another fall hunting season has come and gone. Like you, I have created new memories of being in the outdoors with friends and family. If you enjoy the outdoors like I do, you understand the thrill of greeting a new dawn and seizing the opportunity to make the most of a day in the field.

Making the most of opportunity and achieving our goals is an important part of life and business. Here at Federal we have a great team of positive and progressive people who strive for excellence in all they do. One goal we all share at Federal is sustaining the natural resources that provide us with so much enjoyment.

Federal Premium® has a long and productive history of teaming with successful conservation organizations. New legislation and a rapidly changing culture are quickly altering the landscape of our industry and threatening our hunting heritage. It's vital that we continue to protect and support wildlife habitat and our great outdoor lifestyle.

As we launch our line-up of new and exciting products in 2008, including the next generation of the respected Trophy Bonded® bullet and our own 327 Federal Magnum handgun cartridge, we will also launch another year of conservation and shooting sports programs. These programs will help ensure the future of our sport by protecting habitat, helping kids discover the great outdoors, and protecting the right to shoot and hunt.

To capture and share the thrill of the shooting sports, Federal Premium® created an exciting TV show aimed at helping hunters and shooters improve their skills and knowledge while enjoying quality outdoor programming. So watch the VERSUS network as *The Federal Experience™* begins an exciting second season.

Thanks for your support, enjoy our products, and remember — Every Shot Counts!



Mark W. DeYoung
President,
Federal Premium Ammunition



EVERY SHOT COUNTS®



THE FEDERAL EXPERIENCE™

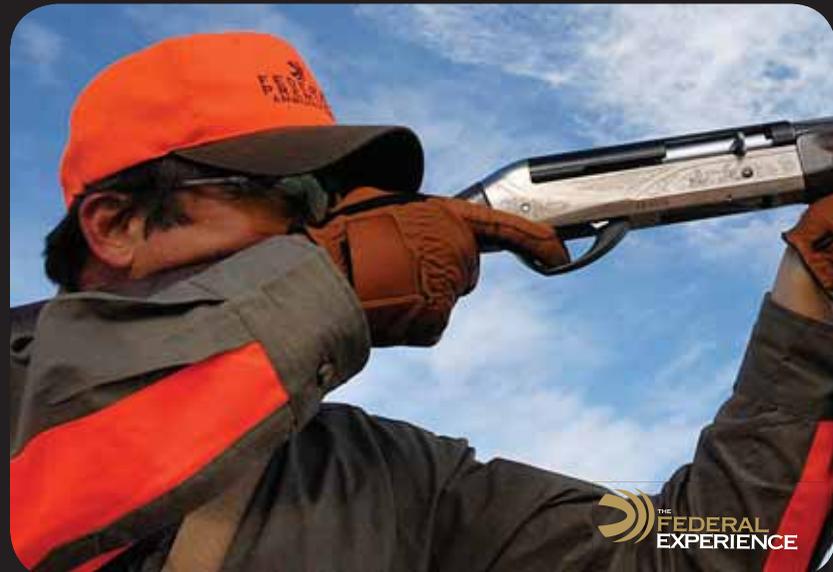
Federal Premium's first TV Show enjoyed a successful inaugural season. Viewers watched as host Tim Abell learned all about becoming a better hunter. We got to see his misses, miscues, lessons learned and great successes. We're set for another, more exciting season that kicks off in the fall of 2008. Be sure to tune in to VERSUS as Abell is again out in the field, continuing his journey to become a better hunter.



THE FEDERAL EXPERIENCE™

With Host *Tim Abell*

Seen on
VERSUS vs. country



Leading the way. Each year, Federal Premium® strives to bring the very best to the forefront for hunters and shooters of all disciplines. Doing this time after time is no easy task—yet our product development team continues to produce year after year. This year is no different as we introduce, among other products, our very own bullet: Trophy Bonded® Tip. You'll also find loads that have spawned from our Shotshell Revolution® as well as additional innovations from our bullet partners.



Trophy Bonded® Tip. Built on the heralded Trophy Bonded® Bear Claw® platform, Trophy Bonded Tip utilizes the famous bonded-lead core and also boasts several new improvements, including a polymer tip for better accuracy. This nickel-plated bullet utilizes the latest in bullet technology for impressive weight retention, a higher ballistic co-efficient and great terminal velocity. Available in numerous medium and big game cartridge offerings.



.327 Federal Magnum. Federal Premium has partnered with Ruger® to introduce a new personal defense revolver cartridge designed to deliver .357 Magnum ballistics out of a .32-caliber diameter platform—and with 20-percent less recoil. The .327 Federal Magnum is designed for use in lightweight, small frame revolvers and will be chambered in the proven Ruger SP101.

TNT® Green™. Federal Premium brings a completely lead-free bullet that is the most explosive and accurate of its kind. The TNT® Green™ is designed for maximum disruption and provides the first mainstream lead-free varmint option. Initially available in .223, .222 and .22-250 Rem.



Tipped Triple-Shock™ X-Bullet™. Barnes® and Federal Premium are proud to give shooters hyper-velocity loads featuring a new bullet. These loads will feature the Barnes Tipped Triple-Shock™ X-Bullet™, an extremely accurate bullet designed to reduce barrel pressure and fouling. These new loads feature lighter bullets at screaming velocities of 3500 fps for improved terminal effects.



In addition to these new products, we are also extending a few prominent shotshell lines. Black Cloud™ is now available in a special edition Duck Commander® #3 shot load, and the Barnes Tipped Expander® is getting another offering. Read on to find out all about what's new this year. >>



FIND YOUR PERFECT LOAD

It's hard to believe, but Federal® offers more than 170 options in our Premium® rifle line. It's what makes us the most complete ammunition company in the business and provides you with a choice no matter what your pursuit. But how do you know which load is right for you? We've spent the past few years refining our selection process—both for you and us. The result has culminated in an updated rifle selector guide, expanded online ballistics program and even an interactive in-store kiosk. See this page for more detail on the specific bullets we offer. Whether you're in the store, online or on the move, we've got a way for you to find the right bullet for your pursuit.



Find out what Federal Premium recommends for your next hunt using the new Rifle Ammunition Authority—initially found at Cabela's stores nationwide.

New



Trophy Bonded® Tip

Built on the heralded Trophy Bonded® Bear Claw® platform for excellent weight retention and penetration. Tipped for improved ballistic coefficient and better accuracy.

New



Barnes® Tipped Triple-Shock™ X-Bullet™

Features Delrin tip for flatter trajectories and deeper penetration. Designed for hyper-velocities and to reduce pressure and barrel fouling. All-copper design means high weight retention with great accuracy.



Trophy Bonded® Bear Claw®

For over 20 years it's been the standard in stopping power on medium to large dangerous game. Its copper jacket and lead core are 100% bonded for reliable expansion and over 95% weight retention.



Barnes® MRX-Bullet™

The MRX™ gives hunters a bullet featuring advanced construction. It combines an all-copper bullet from its predecessor, the Triple-Shock™ X-Bullet™, with a tungsten-based Silvēx® core and a poly-tip to provide devastating performance at both short and extended distances.



Trophy Bonded® Sledgehammer® Solid

This bonded-bronze, Jack Carter-designed bullet carries a well-deserved reputation for stopping power. The flat nose minimizes deflection for a straight, deep wound cavity in large dangerous game.



Barnes® Triple-Shock™ X-Bullet™

Extremely accurate, the Triple-Shock™ X-Bullet™ delivers superior expansion and deep penetration. The all-copper design provides high weight retention for outstanding Knockdown Power®. Cape-Shok, the ultimate ammunition line for the world's most difficult and dangerous game also offers the 100% non-toxic Triple-Shock™ X-Bullet™.



Nosler® AccuBond®

Nosler AccuBond combines the terminal performance of a bonded bullet with the accuracy and retained energy of a Ballistic Tip.



Nosler® Partition®

This world-renowned bullet features a partitioned lead core and shank that allows the front half to mushroom while the rear core remains intact for deep penetration and stopping power.

New



Speer® TNT® Green™

Lead-free bullet designed for explosive performance. Great accuracy and total disruption make it an ideal varmint round.



Sierra® GameKing®

Long-range hunters insist on Sierra GameKing. It's designed with a precisely tapered, boat-tail shape that reduces drag and delivers high downrange velocity, less wind drift, flat trajectory and unmatched accuracy in reaching distant game.



Nosler® Ballistic Tip®

It's the proven choice for flat-shooting, wind-defying performance on everything from varmints to medium game. Color-coded poly-tip for rapid expansion and easy identification.



Woodleigh® Weldcore® Soft Point & Solid

Safari hunters the world over choose these bullets for their superb accuracy, consistent performance and tremendous impact. Special heavy jackets provide excellent weight retention, up to 85% for soft points and 100% for solids.

BULLET SELECTOR GUIDE

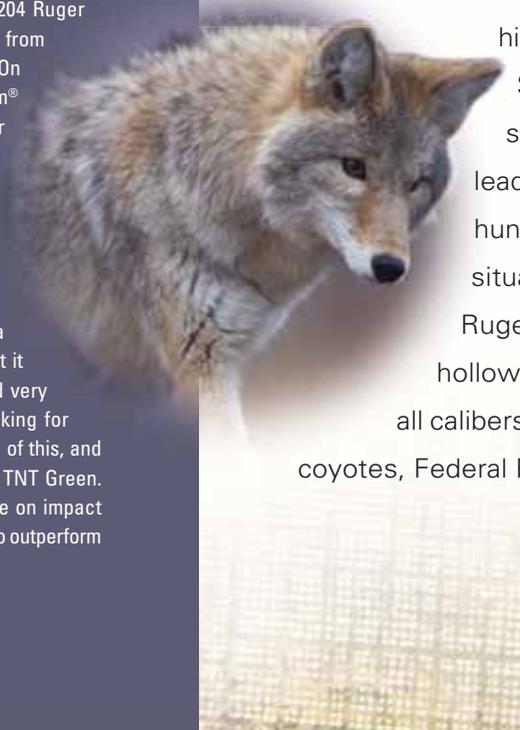
BULLET TYPE	Prairie Dog	Woodchuck	Fox	Coyote	Marmot	Cougar	Antelope	Whitetail Deer	Mule Deer	Sable	Gazelle	Big Horn	Black Bear	Caribou	Elk	Buffalo	Lion	Brown Bear	Polar Bear	Cape Buffalo	Elephant	
Woodleigh Weldcore SP <i>Penetration: Deep Expansion: High Wt. Retention: High Range: Medium</i>																●	●	●	●	●		
Woodleigh Solid <i>Penetration: Maximum Expansion: None Wt. Retention: Maximum Range: Medium</i>																					●	●
Trophy Bonded Sledgehammer <i>Penetration: Maximum Expansion: None Wt. Retention: Maximum Range: Medium</i>																					●	●
New Trophy Bonded Tip <i>Penetration: Deep Expansion: High/Controlled Wt. Retention: Maximum Range: Long</i>						●	●	●	●	●	●	●	●	●	●							
Trophy Bonded Bear Claw <i>Penetration: Deep Expansion: High/Controlled Wt. Retention: Maximum Range: Long</i>						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Nosler Partition <i>Penetration: Deep Expansion: High/Controlled Wt. Retention: High Range: Long</i>						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
New Barnes Tipped Triple-Shock X-Bullet <i>Penetration: Deep Expansion: Moderate Wt. Retention: Maximum Range: Long</i>						●	●	●	●	●	●	●		●								
Barnes MRX-Bullet <i>Penetration: Deep Expansion: Moderate Wt. Retention: High Range: Long</i>						●	●	●	●	●	●	●	●	●	●	●						
Barnes Triple-Shock-X Bullet <i>Penetration: Deep Expansion: Moderate Wt. Retention: Maximum Range: Long</i>						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Nosler AccuBond <i>Penetration: Deep Expansion: High Wt. Retention: High Range: Long</i>						●	●	●	●	●	●	●	●	●	●	●		●	●			
Sierra GameKing <i>Penetration: Moderate Expansion: Moderate Wt. Retention: Moderate Range: Extra Long</i>	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●							
New Speer TNT Green <i>Penetration: Low Expansion: Rapid Wt. Retention: Low Range: Long</i>	●	●	●	●	●																	
Nosler Ballistic Tip <i>Penetration: Low/Moderate Expansion: Rapid Wt. Retention: Low/Moderate Range: Long</i>	●	●	●	●	●		●	●	●													
Recommended Calibers	.222 - .22-250				.243 - .300 Win. Mag.				.7mm Mag. - .338				.375 - .470				.416 - .470					

This chart is intended to provide a general guideline for the types of bullets and calibers that can be used in certain hunting applications. Additional research should be done by the user to determine the optimum caliber/bullet type for specific big game applications.

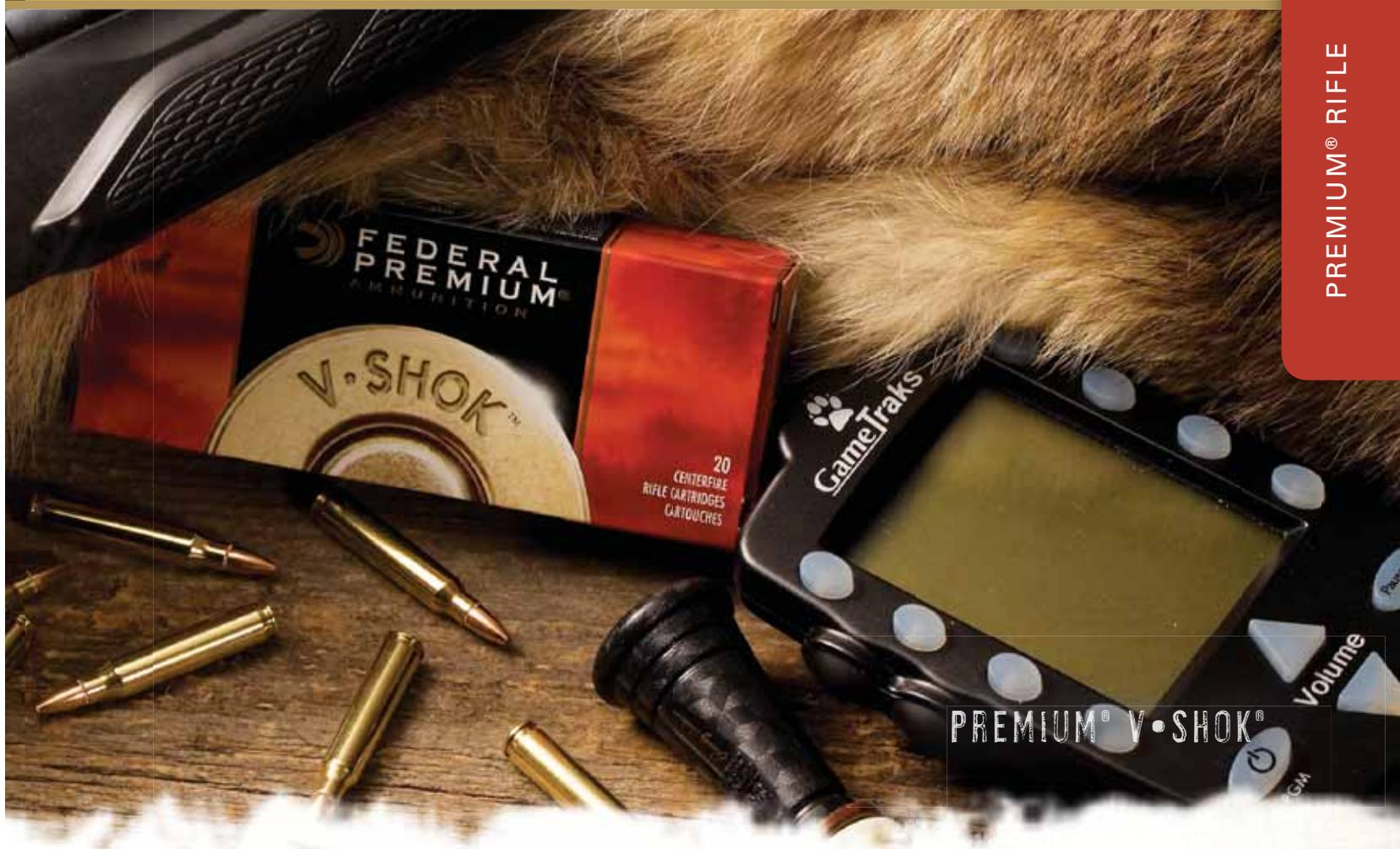


LEAD-FREE FOR VARMINTS.

Varmint hunters tend to know what they want, and when they find the perfect load, they stick with it. However, this doesn't mean they are afraid to try something new. Recent introductions like the .204 Ruger have received a great response from the varmint hunting community. On the heels of this, Federal Premium® worked hard to create another product embraced by varmint hunters everywhere, and the lead-free Speer® TNT® Green™ will do the trick. In order to appeal to the masses, a varmint round has to have a few things going for it. Being available in a variety of calibers is a start, but it also must be fast, accurate and very disruptive. Varmint hunters looking for these characteristics will get all of this, and then some, with the new Speer TNT Green. This lead-free bullet is explosive on impact and is very accurate—leading it to outperform many of today's tipped bullets.



You know what the “V” stands for—Varmints. The word alone gets you revved-up for action on the prairie. There is no better way to test your marksmanship than by using a small caliber rifle in high winds to take out small, moving targets. V-Shok is designed for high-quality and outstanding accuracy. New this year, Speer® TNT® Green™ bolsters an already impressive varmint lineup. Initial calibers in this explosive, lead-free bullet will be .223, .222 and .22-250 to help hunters utilize Speer TNT Green for a variety of hunting situations. In addition, we still offer the popular .204 Ruger in two loads, and carry a variety of tipped and hollow point bullets from leading bullet manufacturers in all calibers. Whether you target prairie dogs, woodchucks or coyotes, Federal Premium® offers a load for you. ➤



PREMIUM® V-SHOK®

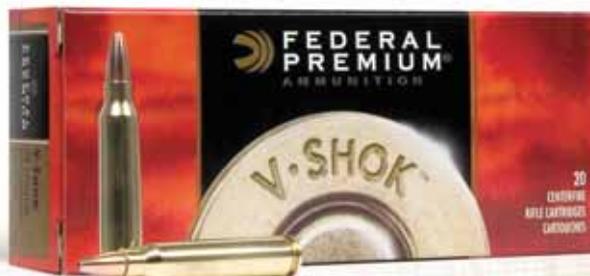
NOSLER® BALLISTIC TIP®		
LOAD NO.	CALIBER	GRAINS
P204B	204 Ruger	32
P222C	222 Rem. (5.56x43mm)	40
P223P	223 Rem. (5.56x45mm)	40
P223F	223 Rem. (5.56x45mm)	55
P22250H	22-250 Rem.	40
P22250F	22-250 Rem.	55
P220B	220 Swift	40
P243H	243 Win. (6.16x51mm)	55
P243F	243 Win. (6.16x51mm)	70
P2506G	25-06 Rem.	85

SIERRA BLITZKING®		
LOAD NO.	CALIBER	GRAINS
P204A	204 Ruger	39

SPEER® HOT-COR® SOFT POINT		
LOAD NO.	CALIBER	GRAINS
P22B	22 Hornet	45

SIERRA GAMEKING® BOAT-TAIL HP		
LOAD NO.	CALIBER	GRAINS
P223E	223 Rem. (5.56x45mm)	55
P22250B	22-250 Rem.	55
P220V	220 Swift	52

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



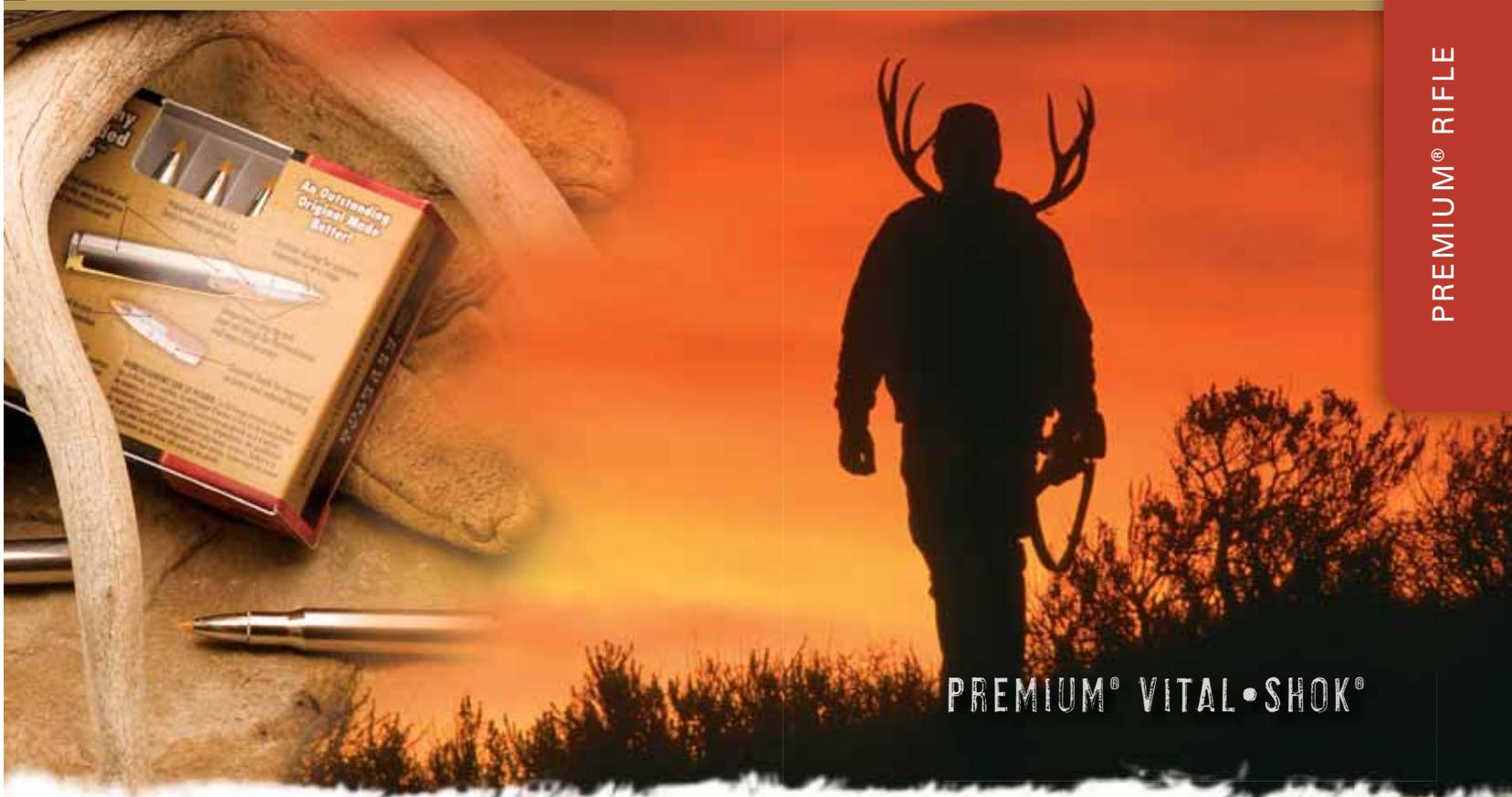


IMPROVING THE BENCHMARK.

The Trophy Bonded® Bear Claw® is arguably the most heralded big game bullet ever formed. Its bonding process is second to none. And while it's true we are introducing the Trophy Bonded® Tip to replace this legendary bullet in all calibers .338 and smaller, we aren't leaving it in the dust completely. We've all heard the phrase "If it's not broken, don't fix it"—so we didn't. The new Trophy Tip is built on the exact same framework as the original TBBC and still uses the famous bonded lead core. We just upgraded it a bit. We added a polymer tip and boat-tail design for flatter shooting and less wind drag. We also used exterior skiving to get optimum expansion at all ranges. To top it all off we nickel-plated the case and the bullet for easier extraction and reduced barrel fouling. By doing this, we've created today's most complete big game bullet. The Trophy Bonded Tip combines new technology with a proven design to give the best on-game performance available.



The journey can be just as rewarding. There is nothing like the deep satisfaction of a challenge overcome. Whether it's tracking a bull across miles of high country, or producing ammunition that will drop him with a single, satisfying shot. The end result is great, but getting there can be just as memorable. Understanding that feeling is what makes Federal Premium® Vital-Shok different from standard ammunition. We answer the call for utmost performance with the most advanced, most innovative ammunition available: every cartridge the result of unmatched technical expertise, superlative components and—most important—constant improvement. Evidence of this is the new Trophy Bonded® Tip. This creation is the ultimate combination of bullet technologies and gives unprecedented on-game performance. Also new for this year, we offer the Tipped Triple-Shock™ X-Bullet™ from Barnes®. These hyper-velocity loads feature lighter bullets ideal for medium, light-skinned game. We continue to load the broadest line of high-performance ammunition on the planet, and work to expand and improve our offerings every year. So no matter what Federal Premium offering you shoot, you know you've loaded the best. 🏹



PREMIUM® VITAL•SHOK®

TROPHY BONDED® TIP

LOAD NO.	CALIBER	GRAINS
New P270TT1	270 Win.	130
New P270WSMTT1	270 Win. Short Magnum	130
New P270WBTT1	270 Weatherby	130
New P280TT1	280 Rem.	160
New P7RTT1	7mm Rem. Magnum	160
New P7WSMTT1	7 Win. Short Magnum	160
New P7WBTT1	7mm Weatherby	160
New P308TT2	308 Win.	165
New P308TT1	308 Win.	180
New P3006TT2	30-06 Spring	165
New P3006TT1	30-06 Spring	180
New P300HTT1	300 H&H	180
New P300WTT1	300 Win. Magnum	180
New P300WSMTT1	300 Win. Short Magnum	180
New P300WBTT1	300 Weatherby	180

BARNES® TIPPED TRIPLE-SHOCK™ X-BULLET™

LOAD NO.	CALIBER	GRAINS
New HV P270Q	270 Win.	110
New HV P270WSMF	270 Win. Short Magnum	110
New HV P300WL	300 Win. Magnum	130
New HV P300WSMK	300 Win. Short Magnum	130

HV = Hyper-Velocity

NOSLER® ACCUBOND®

LOAD NO.	CALIBER	GRAINS
P2506A1	25-06 Rem.	110
P270A1	270 Win.	140
P270WSMA1	270 Win. Short Magnum	140
P270WBA2	270 Weatherby Magnum	140
P708A2	7mm-08 Rem.	140
P280A2	280 Rem.	140
P7RA2	7mm Rem. Magnum	140
P7RA1	7mm Rem. Magnum	160
P7STWA1	7mm STW	160
P308A1	308 Win. (7.62x51mm)	165
P3006A2	30-06 Spring. (7.62x63mm)	150
P3006A1	30-06 Spring. (7.62x63mm)	180
P300WA1	300 Win. Magnum	180
P300WSMA1	300 Win. Short Magnum	180
P338FA1	338 Federal	180
P338A3	338 Win. Magnum	180
P338A1	338 Win. Magnum	225
P338RUMA1	338 Rem. Ultra Magnum	225
P375A1	375 H&H Magnum	260

NOSLER® BALLISTIC TIP®

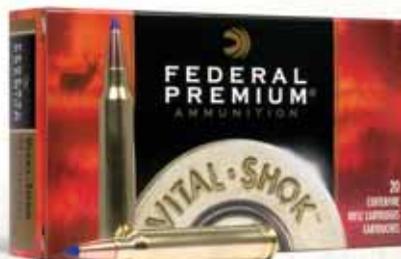
LOAD NO.	CALIBER	GRAINS
P243J	243 Win. (6.16x51mm)	95
P2506D	25-06 Rem.	100
P260B	260 Rem.	120
P270F	270 Win.	130
P270WSMB	270 Win. Short Magnum	130
P708B	7mm-08 Rem.	140
P280D	280 Rem.	140
P7RH	7mm Rem. Magnum	150
P7WSMB	7mm Win. Short Magnum	140
P308F	308 Win. (7.62x51mm)	150
P3006P	30-06 Spring. (7.62x63mm)	150
P3006Q	30-06 Spring. (7.62x63mm)	165
P300WSMD	300 Win. Short Magnum	150

SIERRA® GAMEKING® BOAT-TAIL SP

LOAD NO.	CALIBER	GRAINS
P243C	243 Win. (6.16x51mm)	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. (7.62x63mm)	150
P3006D	30-06 Spring. (7.62x63mm)	165

SIERRA® GAMEKING® BOAT-TAIL HP

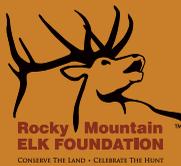
LOAD NO.	CALIBER	GRAINS
P243D	243 Win. (6.16x51mm)	85



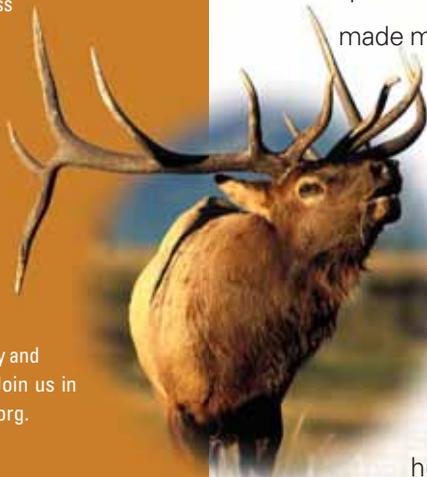
See additional Vital-Shok offerings on pages 10-11.



PROTECT YOUR PASSION.



The Rocky Mountain Elk Foundation (RMEF) is a glowing example of how best to organize efforts in support of game and habitat. RMEF has been in existence for 24 years and has surpassed the 5 million-mark for cumulative acres conserved and enhanced for the continent's million-animal elk herd. The organization manages 4,357 conservation and education projects across 48 states and eight provinces. This fine group employs a five-tier process to support its overall mission of enhancing habitat for elk and other species in its range: 1) Land Protection, 2) Habitat Stewardship, 3) Elk Restoration, 4) Conservation Education and 5) Endowment. These have made RMEF a success and Federal Premium® is proud to offer an on-box royalty program through our High Energy and .338 Win. Mag. load offerings. Join us in support—www.elkfoundation.org.



A piece of history, a touch of technology.

Federal Premium's Vital-Shok line offers more than just cartridges made famous by the pioneers of centerfire rifle technology. Sure, the .243 and .270 have been around for years and take game in a variety of circumstances and under the most intense conditions. But a lot of innovation has occurred since the .270 was brought to life in 1925. Find our long list of .270 and .300 WSM offerings—unique ideas made better by the top-quality bullets Federal Premium® has made mainstream. We understand the obsessive nature of hunting and that there is no excuse for not having the best ammunition available. That's why we match primer, powder and the highest-quality factory case in the industry with the best bullets around. We've rivaled the best handloaders over the years and invite you to try out one of these high-quality medium and large game loads. The "Vital" in Vital-Shok stands not only for the result of impact on your target, but also to the vital importance of having top quality ammunition. Enjoy the hunt, scrutinize your shot and treasure the memories. 



PREMIUM® VITAL-SHOK®

BARNES® TRIPLE-SHOCK™ X-BULLET™

LOAD NO.	CALIBER	GRAINS
P243K	243 Win. (6.16x51mm)	85
P2506H	25-06 Rem.	100
P270L	270 Win.	130
P270WSMD	270 Win. Short Magnum	130
P708C	7mm-08 Rem.	140
P280E	280 Rem.	140
P7RM	7mm Rem. Magnum	140
P7RN	7mm Rem. Magnum	160
P7WSMD	7mm Win. Short Magnum	160
P308V	308 Win. (7.62x51mm)	150
P308H	308 Win. (7.62x51mm)	165
P3006AF	30-06 Spring. (7.62x63mm)	165
P3006AE	30-06 Spring. (7.62x63mm)	180
P300HB	300 H&H Magnum	180
P300WR	300 Win. Magnum	165
P300WP	300 Win. Magnum	180
P300WSMG	300 Win. Short Magnum	165
P300WSMF	300 Win. Short Magnum	180
P300WBE	300 Weatherby Magnum	180
P300RUMD	300 Rem. Ultra Magnum	180
P338FC	338 Federal	185
P338K	338 Win. Magnum	225

BARNES® MRX-BULLET™

LOAD NO.	CALIBER	GRAINS
P308W	308 Win. (7.62x51mm)	180
P3006AH	30-06 Spring. (7.62x63mm)	180
P300WX	300 Win. Magnum	180
P300WSMJ	300 Win. Short Magnum	180

NOSLER® PARTITION®

LOAD NO.	CALIBER	GRAINS
P223Q	223 Rem. (5.56x45mm)	60
P22250G	22-250 Rem.	60
P243E	243 Win. (6.16x51mm)	100
P6C	6mm Rem.	100
P257B	257 Roberts	120
P2506E	25-06 Rem.	115
P270P	270 Win.	130
P270E	270 Win.	150
P270WSMP	270 Win. Short Magnum	130
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
P7WSMC	7mm Win. Short Magnum	160
P3030D	30-30 Win.	170
P308S	308 Win. (7.62x51mm)	150
P308E	308 Win. (7.62x51mm)	180
HE P308G	308 Win. (7.62x51mm)	180
P3006AD	30-06 Spring. (7.62x63mm)	165
P3006F	30-06 Spring. (7.62x63mm)	180
HE P3006R	30-06 Spring. (7.62x63mm)	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

HE = High Energy

TROPHY BONDED® BEAR CLAW®

LOAD NO.	CALIBER	GRAINS
HE P270T3	270 Win.	140
P7RT1	7mm Rem. Magnum	175
P300WT1	300 Win. Magnum	200
P300RUMT1	300 Rem. Ultra Magnum	180
P338T1	338 Win. Magnum	225
P35WT1	35 Whelen	225
P375T4	375 H&H Magnum	250

HE = High Energy





NOT JUST FOR SAFARI HUNTERS.



Don't let the name fool you—Safari Club International (SCI) is not just for those who travel the world in search of dangerous game. SCI funds and manages worldwide

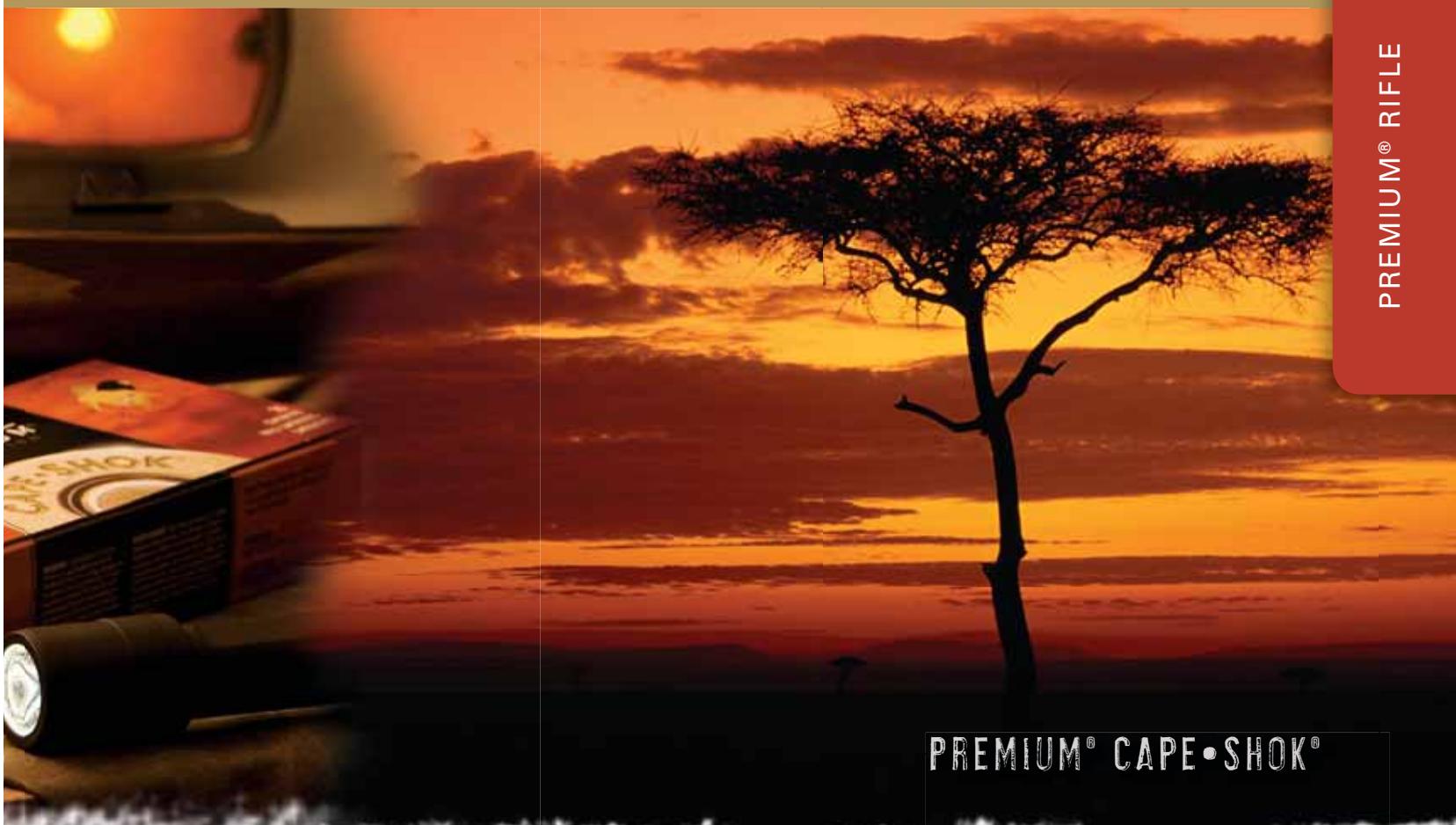
programs dedicated to wildlife conservation, outdoor education and humanitarian services. Their efforts are focused on three continents: Asia, Africa and North America. Sure, initiatives like the Zambezi Lion Research project in Africa benefit safari hunters and the overall health of an animal not in North America, but those like the Sierra Nevada Bighorn Sheep Projects hit close to home. They demonstrate the truly international charter of SCI. Join today and help us contribute to another star organization—www.safariclub.org.



A portion of the proceeds from the sale of this product is donated to SCI.

Compromise isn't an option. Cape-Shok ammunition from Federal Premium® is a prime example of how the best ammunition components come together to offer the perfect throne for the world's most revered projectiles. Big game hunters looking for a new caliber offering heavy bullets will love the .370 Sako Magnum. Like its European counterpart the 9.3 x 66mm Sako, it provides excellent stopping power and is a great choice for hunting large game. As always, Cape-Shok offers several bullet options in calibers from .375 H&H through .470 Nitro Express. The heralded Trophy Bonded® Bear Claw® and Sledgehammer® soft and solids are complimented by top-notch

Barnes®, Nosler® and Woodleigh® bullet options throughout the line. You're the type who will not compromise your once-in-a-lifetime shot—why take chances with any other ammunition brand. Shot to shot, lot to lot, you won't find a better option for everything from kudu to cape buffalo. Best of all, every box bearing the SCI logo will give funds back to this important organization. 



PREMIUM® CAPE-SHOK®

BARNES® TRIPLE-SHOCK™ X-BULLET™

LOAD NO.	CALIBER	GRAINS
New P370C	370 Sako Magnum	286
P375H	375 H&H Magnum	300
P416D	416 Rigby	400
P416RB	416 Rem. Magnum	400
P458D	458 Win. Magnum	500

NOSLER® PARTITON®

LOAD NO.	CALIBER	GRAINS
New P370B	370 Sako Magnum	286
P375F	375 H&H Magnum	300 HE

WOODLEIGH® WELDCORE® SOFT POINT

LOAD NO.	CALIBER	GRAINS
P470A	470 Nitro Express	500

WOODLEIGH® SOLID

LOAD NO.	CALIBER	GRAINS
P470B	470 Nitro Express	500

TROPHY BONDED® BEAR CLAW®

LOAD NO.	CALIBER	GRAINS
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

HE = High Energy

TROPHY BONDED® SLEDGEHAMMER® SOLID

LOAD NO.	CALIBER	GRAINS
P375T2	375 H&H Magnum	300
P416T2	416 Rigby	400
P416RT2	416 Rem. Magnum	400
P458T3	458 Win. Magnum	500
P458LT2	458 Lott	500
P470T2	470 Nitro Express	500





MATCH COMPETITION BEGINNINGS.

The Palma Trophy match started in 1876 and consists of competing teams of 16 shooters from the US, England and Canada shooting every 3 to 4 years at a different host's range. The course of fire consists of the following shots:

- **15 at 800 yards (unlimited sighters, 20 minutes)**
- **15 at 900 yards (2 sighters, 20 minutes)**
- **15 at 1000 yards (2 sighters, 20 minutes)**

This competition is just one of the key matches that has provided the groundwork for multiple centerfire rifle matches—including high power rifle competitions that showcase the steel-nerve of some of the world's best shooters. Find out more about competitive shooting at the NRA's website—www.nrahq.org.



During intense competition; Go for the Gold. The majority of these pages are dedicated to the strong emotions associated with hunting and the experience you feel when facing off with your quarry. We're proud to set this section apart and dedicate some attention to the competitive shooter. There's no stronger emotion than what you feel during an intense competition. Everything from your pre-match jitters to the controlled breathing you've practiced in your leathers. You've trained long and hard for the moment of your match. Make sure you don't trust anything less than the most consistent factory ammunition in the business.

Our Gold Medal® loads raise the expectation of factory loads and bring more to the competitive firing line than any other manufacturer. These heralded loads combine the legendary Sierra® MatchKing® Boat-Tail bullet with Federal's proprietary delivery system. It's the most accurate factory match round available. And it's just the edge you need to take home some hardware. 



PREMIUM® GOLD MEDAL®



Extreme accuracy is the only way to describe the performance of Federal Premium Gold Medal 308 Match. The target shows 10 shots fired at 200 yards.

SIERRA® MATCHKING™ BOAT-TAIL HP

LOAD NO.	CALIBER	GRAINS
GM223M	223 Rem. (5.56x45mm)	69
GM223M3	223 Rem. (5.56x45mm)	77
GM308M	308 Win. (7.62x51mm)	168
GM308M2	308 Win. (7.62x51mm)	175
GM3006M	30-06 Spring. (7.62x63mm)	168
GM300WM	300 Win. Magnum	190





PREMIUM® RIFLE BALLISTICS

	USAGE	FEDERAL LOAD NO.	CALIBER	BULLET WEIGHT IN		BULLET STYLE	FACTORY PRIMER NO.	VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)					
				GRAINS	GRAMS			MUZZLE	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.
FEDERAL PREMIUM® V-SHOK®													
	1	P22B	22 Hornet	45	2.92	Speer Hot-Cor Soft Point	200	2690	2100	1590	1210	1000	890
	1	P204B	204 Ruger	32	2.07	Nosler Ballistic Tip	205	4030	3470	2970	2520	2120	1760
	1	P204A	204 Ruger	39	2.53	Sierra BlitzKing	205	3750	3360	3010	2680	2380	2090
<i>New</i>	1	P222C	222 Rem. (5.56x43mm)	40	2.59	Nosler Ballistic Tip	205	3450	2990	2570	2190	1840	1530
	1	P222D	222 Rem. (5.56x43mm)	43	2.79	Speer TNT Green	205	3400	2750	2180	1680	1290	1050
<i>New</i>	1	P223P	223 Rem. (5.56x45mm)	40	2.59	Nosler Ballistic Tip	205	3700	3210	2770	2370	2010	1680
	1	P223R	223 Rem. (5.56x45mm)	43	2.79	Speer TNT Green	205	3600	2920	2330	1810	1390	1100
	1	P223E	223 Rem. (5.56x45mm)	55	3.56	Sierra GameKing BTHP	205	3240	2850	2490	2150	1850	1570
	1	P223F	223 Rem. (5.56x45mm)	55	3.56	Nosler Ballistic Tip	205	3240	2870	2530	2210	1920	1650
<i>New</i>	1	P22250H	22-250 Rem.	40	2.59	Nosler Ballistic Tip	210	4150	3610	3130	2700	2300	1940
	1	P22250D	22-250 Rem.	43	2.79	Speer TNT Green	210	4000	3250	2620	2070	1590	1220
	1	P22250F	22-250 Rem.	55	3.56	Nosler Ballistic Tip	210	3670	3260	2890	2550	2230	1940
	1	P22250B	22-250 Rem.	55	3.56	Sierra GameKing BTHP	210	3650	3220	2830	2470	2140	1830
	1	P220B	220 Swift	40	2.59	Nosler Ballistic Tip	210	4250	3690	3200	2770	2370	2000
	1	P220V	220 Swift	52	3.37	Sierra MatchKing BTHP	210	3830	3330	2890	2490	2120	1780
	1	P243H	243 Win. (6.16x51mm)	55	3.56	Nosler Ballistic Tip	210	3850	3440	3060	2720	2400	2110
	1	P243F	243 Win. (6.16x51mm)	70	4.54	Nosler Ballistic Tip	210	3450	3110	2800	2510	2240	1980
	1	P2506G	25-06 Rem.	85	5.51	Nosler Ballistic Tip	210	3550	3230	2930	2640	2380	2130
FEDERAL PREMIUM® VITAL-SHOK®													
	2	P223Q	223 Rem. (5.56x45mm)	60	3.89	Nosler Partition	205	3160	2740	2350	2000	1680	1400
	2	P22250G	22-250 Rem.	60	3.89	Nosler Partition	210	3500	3040	2630	2250	1910	1600
	2	P243D	243 Win. (6.16x51mm)	85	5.51	Sierra GameKing BTHP	210	3300	2980	2680	2410	2140	1900
	2	P243K	243 Win. (6.16x51mm)	85	5.51	Barnes Triple-Shock X-Bullet	210	3200	2900	2630	2370	2120	1890
	2	P243J	243 Win. (6.16x51mm)	95	6.16	Nosler Ballistic Tip	210	3025	2770	2540	2310	2100	1890
	2	P243E	243 Win. (6.16x51mm)	100	6.48	Nosler Partition*	210	2850	2610	2390	2170	1970	1780
	2	P243C	243 Win. (6.16x51mm)	100	6.48	Sierra GameKing BTSP	210	2960	2740	2530	2330	2150	1960
	2	P6C	6mm Rem.	100	6.48	Nosler Partition	210	3100	2850	2610	2380	2170	1970
	2	P257B	257 Roberts	120	7.78	Nosler Partition	210	2800	2570	2350	2140	1940	1760
	2	P2506H	25-06 Rem.	100	6.48	Barnes Triple-Shock X-Bullet	210	3210	2970	2750	2540	2330	2140
	2	P2506D	25-06 Rem.	100	6.48	Nosler Ballistic Tip	210	3220	2970	2730	2500	2290	2080
	2	P2506A1	25-06 Rem.	110	7.13	Nosler AccuBond	210	3100	2870	2650	2440	2240	2050
	2	P2506E	25-06 Rem.	115	7.45	Nosler Partition	210	3030	2790	2550	2330	2120	1930
	2	P2506C	25-06 Rem.	117	7.58	Sierra GameKing BTSP	210	3030	2800	2580	2370	2170	1980
	2	P260B	260 Rem.	120	7.78	Nosler Ballistic Tip	210	2950	2730	2510	2310	2110	1930
	2	P260A	260 Rem.	140	9.07	Sierra GameKing BTSP	210	2700	2490	2280	2090	1910	1730
<i>New</i>	HV	P270Q	270 Win.	110	7.13	Barnes Tipped Triple-Shock	210	3400	3130	2870	2620	2390	2180
<i>New</i>	◇	P270TT1	270 Win.	130	8.42	Trophy Bonded Tip	210	3060	2840	2630	2430	2240	2060
	2	P270D	270 Win.	130	8.42	Sierra GameKing BTSP	210	3060	2840	2630	2430	2240	2060
	2	P270F	270 Win.	130	8.42	Nosler Ballistic Tip	210	3060	2840	2630	2420	2230	2050
	2	P270L	270 Win.	130	8.42	Barnes Triple-Shock X-Bullet	210	3060	2840	2630	2420	2230	2040
	2	P270P	270 Win.	130	8.42	Nosler Partition	210	3060	2830	2610	2400	2200	2010
	HE	P270T3	270 Win.	140	9.07	Trophy Bonded Bear Claw	210	3100	2820	2550	2300	2060	1830
	2	P270A1	270 Win.	140	9.07	Nosler AccuBond	210	2950	2760	2580	2400	2240	2080
	2	P270C	270 Win.	150	9.72	Sierra GameKing BTSP	210	2830	2640	2460	2280	2110	1950
	2	P270E	270 Win.	150	9.72	Nosler Partition	210	2830	2630	2450	2270	2090	1930
<i>New</i>	HV	P270WSMF	270 Win. Short Magnum	110	7.13	Barnes Tipped Triple-Shock	215	3500	3220	2960	2710	2470	2250
	2	P270WSMP	270 Win. Short Magnum	130	8.42	Nosler Partition	215	3280	3040	2810	2590	2380	2180
<i>New</i>	◇	P270WSMTT1	270 Win. Short Magnum	130	8.42	Trophy Bonded Tip	215	3280	3050	2830	2620	2430	2240
	2	P270WSMB	270 Win. Short Magnum	130	8.42	Nosler Ballistic Tip	215	3300	3070	2840	2630	2430	2240
	2	P270WSMD	270 Win. Short Magnum	130	8.42	Barnes Triple-Shock X-Bullet	215	3280	3050	2820	2610	2410	2220
	2	P270WSMA1	270 Win. Short Magnum	140	9.07	Nosler AccuBond	215	3200	3000	2810	2620	2450	2280
	2	P270WSMC	270 Win. Short Magnum	150	9.72	Nosler Partition	215	3100	2890	2690	2500	2320	2150
<i>New</i>	◇	P270WBTT1	270 Weatherby Magnum	130	8.42	Trophy Bonded Tip	215	3200	2970	2760	2560	2360	2170
	2	P270WBA2	270 Weatherby Magnum	140	9.07	Nosler AccuBond	215	3100	2900	2720	2540	2360	2200
	2	P730A	7-30 Waters	120	7.78	Sierra GameKing BTSP-FN	210	2700	2300	1930	1600	1330	1130
	2	P7C	7mm Mauser (7x57mm Mauser)	140	9.07	Nosler Partition	210	2660	2460	2260	2080	1900	1740
	2	P708A	7mm-08 Rem.	140	9.07	Nosler Partition	210	2800	2590	2390	2200	2020	1850
	2	P708A2	7mm-08 Rem.	140	9.07	Nosler AccuBond	210	2800	2610	2430	2260	2090	1940
	2	P708B	7mm-08 Rem.	140	9.07	Nosler Ballistic Tip	210	2800	2610	2430	2260	2090	1940
	2	P708C	7mm-08 Rem.	140	9.07	Barnes Triple-Shock X-Bullet	210	2820	2590	2370	2160	1960	1780

Abbreviation Key: BTHP = Boat-Tail Hollow Point, BTSP = Boat-Tail Soft Point, FN = Flat Nose, HE = High Energy (Not for use in semi-automatic rifles), HP = Hollow Point, HV = Hyper-Velocity, ◇ = Nickel Plated Cases, SP = Soft Point, = A portion of the proceeds from the sale of this product is donated to RMEF, *Molycoat = Molybdenum Disulfide Dry Film Lubricant

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.

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 100 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.	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	50 YDS.	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	50 YDS.	100 YDS.	200 YDS.	300 YDS.		
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
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
1220	980	785	625	490	380	0.8	3.3	7.8	14.6	24.3	-0.4	◆	-1.6	-7.0	0.0	0.8	◆	-4.7	-14.1	-29.9	24	P204A
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
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
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
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
1280	990	755	565	415	300	1.1	4.7	11.2	21.3	36.1	-0.3	◆	-2.8	-11.3	0.4	1.4	◆	-7.1	-21.6	-46.9	24	P223E
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
1530	1155	870	645	470	335	0.9	4.0	9.4	17.9	30.1	-0.5	◆	-1.2	-6.0	-0.2	0.6	◆	-4.2	-13.2	-28.9	24	P22250H
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
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
1625	1265	975	745	560	410	0.9	4.0	9.5	18.1	30.2	-0.4	◆	-1.9	-8.1	0.1	0.9	◆	-5.3	-16.4	-35.1	24	P22250B
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
1695	1280	965	715	520	365	1.0	4.2	10.2	19.4	32.7	-0.4	◆	-1.6	-7.5	0.0	0.8	◆	-5.0	-15.8	-34.4	24	P220V
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
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
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
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
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
2055	1675	1360	1090	870	680	0.8	3.5	8.3	15.6	25.6	-0.3	◆	-2.4	-9.7	0.3	1.2	◆	-6.0	-18.2	-37.7	24	P243D
1935	1590	1305	1055	850	675	0.8	3.5	8.1	15.2	24.9	-0.3	◆	-2.7	-10.3	0.4	1.3	◆	-6.3	-19.0	-39.2	24	P243K
1930	1625	1355	1125	925	755	0.8	3.2	7.6	14.2	23.0	-0.2	◆	-3.0	-11.5	0.5	1.5	◆	-6.9	-20.4	-41.6	24	P243J
1805	1515	1265	1045	860	700	0.9	3.4	8.2	15.2	24.8	-0.2	◆	-3.6	-13.4	0.7	1.8	◆	-8.0	-23.3	-47.6	24	P243E
1945	1670	1425	1210	1020	855	0.7	2.9	6.7	12.6	20.4	-0.2	◆	-3.1	-11.7	0.6	1.6	◆	-7.0	-20.4	-41.3	24	P243C
2135	1800	1515	1260	1045	860	0.7	3.1	7.1	13.4	21.9	-0.3	◆	-2.8	-10.7	0.4	1.4	◆	-6.5	-19.2	-39.2	24	P6C
2090	1760	1470	1220	1005	820	0.9	3.4	8.2	15.2	25.0	-0.1	◆	-3.8	-13.9	0.8	1.9	◆	-8.3	-24.0	-49.2	24	P257B
2290	1965	1680	1430	1205	1015	0.6	2.7	6.2	11.4	18.7	-0.3	◆	-2.4	-9.5	0.3	1.2	◆	-5.8	-17.0	-34.8	24	P2506H
2300	1955	1655	1390	1160	965	0.7	2.8	6.6	12.3	20.1	-0.3	◆	-2.5	-9.6	0.3	1.2	◆	-5.9	-17.3	-35.5	24	P2506D
2345	2010	1715	1450	1225	1025	0.6	2.8	6.5	12.1	19.8	-0.3	◆	-2.8	-10.4	0.4	1.4	◆	-6.3	-18.5	-37.7	24	P2506A1
2345	1980	1665	1390	1150	945	0.7	3.1	7.3	13.7	22.2	-0.2	◆	-3.0	-11.3	0.5	1.5	◆	-6.8	-20.1	-40.9	24	P2506E
2385	2035	1725	1455	1220	1015	0.7	3.0	6.9	12.8	20.9	-0.2	◆	-3.0	-11.1	0.5	1.5	◆	-6.7	-19.7	-40.0	24	P2506C
2320	1980	1680	1420	1190	990	0.7	3.0	7.0	13.1	21.2	-0.2	◆	-3.2	-11.9	0.6	1.6	◆	-7.1	-20.8	-42.1	24	P260B
2265	1920	1620	1360	1130	935	0.8	3.4	8.1	14.8	24.4	-0.1	◆	-4.1	-15.0	0.9	2.1	◆	-8.8	-25.3	-51.9	24	P260A
2825	2385	2010	1680	1400	1155	0.7	2.8	6.5	12.0	19.7	-0.3	◆	-2.1	-8.4	0.2	1.0	◆	-5.3	-15.6	-32.1	24	P270Q
2705	2330	2000	1710	1455	1230	0.6	2.7	6.3	11.6	18.9	-0.3	◆	-2.8	-10.6	0.5	1.4	◆	-6.4	-18.7	-38.0	24	P270TT1
2705	2325	1995	1705	1445	1220	0.6	2.7	6.3	11.7	19.1	-0.3	◆	-2.8	-10.7	0.5	1.4	◆	-6.4	-18.8	-38.1	24	P270D
2705	2325	1990	1695	1435	1210	0.6	2.8	6.4	11.9	19.4	-0.3	◆	-2.9	-10.7	0.5	1.4	◆	-6.4	-18.8	-38.2	24	P270F
2705	2325	1990	1695	1435	1205	0.6	2.8	6.4	11.9	19.4	-0.3	◆	-2.9	-10.7	0.5	1.4	◆	-6.4	-18.8	-38.3	24	P270L
2705	2310	1965	1665	1400	1170	0.7	2.9	6.6	12.4	20.2	-0.2	◆	-2.9	-10.8	0.5	1.4	◆	-6.5	-19.1	-38.8	24	P270P
2985	2465	2015	1635	1315	1045	0.8	3.5	8.3	15.6	25.6	-0.3	◆	-2.9	-11.2	0.5	1.5	◆	-6.8	-20.3	-41.8	24	P270T3
2705	2370	2065	1795	1555	1340	0.6	2.5	5.8	10.7	17.4	-0.2	◆	-3.1	-11.3	0.6	1.5	◆	-6.7	-19.5	-39.3	24	P270A1
2665	2320	2010	1735	1485	1270	0.7	2.7	6.4	11.9	19.1	-0.2	◆	-3.5	-12.7	0.7	1.7	◆	-7.5	-21.8	-43.7	24	P270C
2665	2310	1990	1710	1460	1240	0.7	2.8	6.6	12.3	19.7	-0.2	◆	-3.5	-12.8	0.7	1.7	◆	-7.6	-22.0	-44.1	24	P270E
2990	2530	2135	1790	1495	1235	0.7	2.7	6.3	11.6	18.9	-0.4	◆	-1.9	-7.7	0.1	0.9	◆	-4.9	-14.6	-30.0	24	P270WSMF
3105	2665	2275	1935	1635	1375	0.6	2.6	6.1	11.2	18.4	-0.3	◆	-2.3	-9.0	0.3	1.1	◆	-5.6	-16.3	-33.2	24	P270WSMP
3105	2685	2315	1990	1700	1445	0.6	2.4	5.8	10.5	17.1	-0.3	◆	-2.2	-8.8	0.2	1.1	◆	-5.5	-16.0	-32.4	24	P270WSMTT1
3145	2710	2335	2000	1705	1445	0.6	2.5	5.8	10.6	17.3	-0.3	◆	-2.2	-8.7	0.2	1.1	◆	-5.4	-15.8	-32.2	24	P270WSMB
3105	2675	2300	1970	1675	1420	0.6	2.5	5.9	10.8	17.6	-0.3	◆	-2.2	-8.9	0.2	1.1	◆	-5.5	-16.1	-32.7	24	P270WSMD
3185	2795	2450	2140	1860	1615	0.6	2.2	5.2	9.5	15.4	-0.3	◆	-2.4	-9.2	0.3	1.2	◆	-5.6	-16.2	-32.7	24	P270WSMA1
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
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
2985	2620	2295	2000	1735	1500	0.5	2.3	5.4	9.9	16.1	-0.3	◆	-2.6	-10.0	0.4	1.3	◆	-6.0	-17.4	-35.2	24	P270WBA2
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
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
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
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	P708A2
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
2470	2085	1745	1450	1200	980	0.9	3.4	8.1	14.9	24.4	-0.2	◆	-3.7	-13.6	0.8	1.8	◆	-8.1	-23.6	-48.1	24	P708C



PREMIUM® RIFLE BALLISTICS

Table with columns: USAGE, FEDERAL LOAD NO., CALIBER, BULLET WEIGHT IN GRAINS, BULLET STYLE, FACTORY PRIMER NO., MUZZLE VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS) at 100 YDS., 200 YDS., 300 YDS., 400 YDS., 500 YDS. Rows include various rifle loads such as P280A2, P280D, P280E, etc.

New

New

New New

New

New

New

New

New New

Abbreviation Key: BTHP = Boat-Tail Hollow Point, BTSP = Boat-Tail Soft Point, FN = Flat Nose, HE = High Energy (Not for use in semi-automatic rifles), HP = Hollow Point, HV = Hyper-Velocity, ◇ = Nickel Plated Cases, SP = Soft Point, * = A portion of the proceeds from the sale of this product is donated to RMEF, *Molycoat = Molybdenum Disulfide Dry Film Lubricant

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.

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 100 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.	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	AVERAGE RANGE					LONG RANGE							
						50 YDS.	100 YDS.	200 YDS.	300 YDS.	50 YDS.	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	50 YDS.	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.		
2800	2445	2130	1845	1590	1370	0.6	2.5	5.8	10.7	17.4	-0.2	◆	-3.0	-10.9	0.5	1.5	◆	-6.5	-18.9	-38.2	24	P280A2	
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	
2725	2305	1935	1620	1340	1105	0.8	3.2	7.5	13.9	22.6	-0.2	◆	-3.2	-12.0	0.6	1.6	◆	-7.2	-21.1	-42.8	24	P280E	
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	
2785	2450	2145	1870	1625	1405	0.7	2.6	5.9	11.0	17.8	-0.2	◆	-3.5	-12.8	0.7	1.8	◆	-7.5	-21.8	-43.6	24	P280TT1	
3005	2630	2295	1995	1725	1485	0.5	2.4	5.5	10.1	16.5	-0.3	◆	-2.6	-10.0	0.4	1.3	◆	-6.0	-17.4	-35.2	24	P7RA2	
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	
3025	2565	2165	1815	1515	1250	0.7	3.0	6.9	12.9	21.0	-0.3	◆	-2.7	-10.4	0.4	1.4	◆	-6.3	-18.7	-38.1	24	P7RM	
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	
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	
2990	2635	2320	2035	1775	1545	0.6	2.4	5.5	10.2	16.5	-0.2	◆	-3.2	-11.7	0.6	1.6	◆	-6.9	-19.9	-39.9	24	P7RA1	
3070	2695	2360	2060	1785	1545	0.6	2.5	5.6	10.5	17.0	-0.2	◆	-3.1	-11.4	0.6	1.6	◆	-6.7	-19.5	-39.3	24	P7RN	
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	24	P7RTT1	
3090	2690	2335	2015	1730	1480	0.6	2.7	6.0	11.3	18.2	-0.2	◆	-3.1	-11.5	0.6	1.6	◆	-6.8	-19.8	-40.0	24	P7RF	
3190	2760	2380	2045	1745	1480	0.7	2.7	6.3	11.8	19.0	-0.2	◆	-3.1	-11.6	0.6	1.6	◆	-6.9	-20.1	-40.5	24	P7RE	
2940	2485	2090	1745	1450	1195	0.8	3.4	8.1	14.8	24.4	-0.1	◆	-3.9	-14.4	0.9	2.0	◆	-8.5	-24.6	-50.2	24	P7RT1	
3405	2985	2610	2270	1975	1705	0.6	2.2	5.2	9.4	15.2	-0.3	◆	-2.1	-8.4	0.2	1.1	◆	-5.2	-15.2	-30.6	24	P7WSMB	
3545	3095	2690	2335	2015	1730	0.6	2.4	5.6	10.2	16.6	-0.3	◆	-2.5	-9.6	0.3	1.3	◆	-5.9	-16.9	-34.3	24	P7WSMC	
3175	2790	2445	2135	1855	1605	0.5	2.4	5.5	10.2	16.5	-0.2	◆	-3.0	-10.9	0.5	1.5	◆	-6.5	-18.8	-37.8	24	P7WSMD	
3195	2820	2480	2170	1895	1645	0.6	2.4	5.4	9.9	16.0	-0.2	◆	-2.9	-10.8	0.5	1.5	◆	-6.4	-18.5	-37.2	24	P7WSMTT1	
3415	3015	2655	2330	2035	1775	0.5	2.2	5.2	9.4	15.2	-0.3	◆	-2.6	-9.9	0.4	1.3	◆	-6.0	-17.2	-34.6	24	P7WBTT1	
3415	3020	2670	2350	2060	1800	0.5	2.2	5.0	9.1	14.8	-0.3	◆	-2.6	-9.9	0.4	1.3	◆	-5.9	-17.1	-34.3	24	P7STWA1	
1825	1355	990	720	535	425	1.8	8.1	19.4	36.7	59.9	0.3	◆	-8.4	-30	2.4	4.2	◆	-17.4	-53.5	-114.4	24	P3030D	
2650	2270	1935	1640	1380	1155	0.8	3.0	7.2	13.3	21.5	-0.2	◆	-3.6	-13.2	0.7	1.8	◆	-7.8	-22.7	-45.8	24	P308F	
2685	2260	1885	1565	1285	1050	0.9	3.4	8.2	15.1	24.7	-0.2	◆	-3.6	-13.4	0.7	1.8	◆	-8.0	-23.4	-47.8	24	P308S	
2650	2205	1825	1495	1215	980	0.9	3.6	8.7	16.0	26.6	-0.2	◆	-3.7	-13.9	0.8	1.9	◆	-8.3	-24.2	-49.9	24	P308V	
2575	2145	1775	1455	1185	960	0.9	3.9	9.2	17.0	28.3	-0.1	◆	-4.5	-16.2	1.0	2.2	◆	-9.5	-27.5	-56.8	24	P308H	
2670	2295	1960	1665	1410	1180	0.7	3.1	7.4	13.6	22.1	-0.1	◆	-4.1	-14.7	0.9	2.0	◆	-8.6	-24.7	-49.9	24	P308TT2	
2670	2315	1995	1710	1460	1240	0.7	2.9	7.0	12.9	20.6	-0.1	◆	-4.0	-14.5	0.9	2.0	◆	-8.5	-24.4	-48.7	24	P308A1	
2670	2255	1890	1575	1300	1070	0.8	3.5	8.3	15.3	25.4	-0.1	◆	-4.2	-15.1	0.9	2.1	◆	-8.9	-25.6	-52.7	24	P308C	
2640	2280	1955	1670	1420	1200	0.7	3.2	7.5	13.6	22.5	-0.1	◆	-4.7	-16.4	1.1	2.3	◆	-9.4	-26.9	-54.7	24	P308E	
2745	2390	2070	1790	1535	1315	0.6	2.9	6.9	12.5	20.3	-0.1	◆	-4.3	-15.4	1.0	2.2	◆	-8.9	-25.5	-51.1	24	P308TT1	
3000	2600	2245	1930	1645	1400	0.7	2.8	6.8	12.5	20.2	-0.1	◆	-3.8	-13.9	0.8	1.9	◆	-8.2	-23.5	-47.1	24	P308G	
2700	2385	2095	1835	1600	1390	0.6	2.6	6.2	11.3	18.2	-0.1	◆	-4.3	-15.4	1.0	2.2	◆	-8.9	-25.2	-50.0	24	P308W	
2820	2420	2070	1760	1485	1245	0.7	3.0	6.8	12.8	20.6	-0.2	◆	-3.3	-12.2	0.6	1.6	◆	-7.2	-21.1	-42.6	24	P3006A2	
2820	2370	1975	1635	1345	1095	0.9	3.4	8.0	14.9	24.3	-0.2	◆	-3.4	-12.7	0.7	1.7	◆	-7.6	-22.3	-45.5	24	P3006G	
2820	2420	2070	1755	1485	1245	0.7	3.0	6.9	12.8	20.6	-0.2	◆	-3.3	-12.2	0.6	1.6	◆	-7.2	-21.1	-42.6	24	P3006P	
2870	2495	2155	1855	1585	1350	0.7	2.8	6.6	12.2	19.6	-0.2	◆	-3.6	-13.1	0.7	1.8	◆	-7.8	-22.4	-44.9	24	P3006Q	
2870	2475	2120	1805	1530	1290	0.8	2.9	7.0	12.9	20.9	-0.2	◆	-3.6	-13.3	0.8	1.8	◆	-7.9	-22.8	-45.8	24	P3006TT2	
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	-46.8	24	P3006AD	
2870	2405	2000	1650	1350	1095	0.9	3.6	8.5	15.6	25.9	-0.1	◆	-3.8	-14.0	0.8	1.9	◆	-8.4	-24.2	-49.9	24	P3006AF	
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	-48.3	24	P3006D	
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	-48.7	24	P3006F	
2915	2575	2270	1990	1740	1515	0.6	2.4	5.9	10.8	17.3	-0.1	◆	-3.9	-13.9	0.8	1.9	◆	-8.1	-23.3	-46.1	24	P3006AH	
2915	2505	2145	1825	1545	1295	0.7	3.1	7.3	13.5	21.9	-0.1	◆	-4.0	-14.7	0.9	2.0	◆	-8.6	-24.7	-49.7	24	P3006AE	
2915	2545	2215	1920	1660	1425	0.7	2.7	6.5	11.9	19.0	-0.1	◆	-3.9	-14.2	0.9	2.0	◆	-8.3	-23.8	-47.4	24	P3006A1	
3315	2880	2495	2150	1840	1570	0.7	2.8	6.3	11.7	19.0	-0.2	◆	-3.3	-12.2	0.7	1.7	◆	-7.2	-21.0	-42.2	24	P3006R	
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	-47.7	24	P3006TT1	
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	-48.5	24	P300HA	
3315	2860	2460	2105	1790	1510	0.7	2.9	6.6	12.4	19.9	-0.2	◆	-3.4	-12.3	0.7	1.7	◆	-7.3	-21.3	-42.9	24	P300HB	
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	-41.4	24	P300HTT1	
3535	2965	2475	2055	1690	1385	0.7	2.8	6.7	12.3	20.2	-0.4	◆	-1.9	-7.9	0.1	0.9	◆	-5.0	-14.9	-30.8	24	P300WL	
3410	2870	2400	1995	1650	1345	0.7	3.2	7.4	13.9	22.6	-0.2	◆	-3.0	-11.2	0.5	1.5	◆	-6.7	-20.0	-40.8	24	P300WR	
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	-39.5	24	P300WK	
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	-38.9	24	P300WTT1	
3500	3110	2750	2430	2135	1870	0.5	2.3	5.1	9.4	15.3	-0.2	◆	-3.0	-11.0	0.5	1.5	◆	-6.5	-18.7	-37.6	24	P300WX	
3500	3025	2605	2235	1905	1610	0.7	2.8	6.3	11.8	19.2	-0.2	◆	-3.1	-11.5	0.6	1.6	◆	-6.8	-20.0	-40.4	24	P300WP	
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	-45.0	24	P300WD2	
3500	3075	2690	2350	2040	1765	0.6	2.5	5.6	10.4	16.8	-0.2	◆	-3.0	-11.2	0.5	1.5	◆	-6.6	-19.2	-38.7	24	P300WA1	
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	-53.3	24	P300WT1	



PREMIUM® RIFLE BALLISTICS

USAGE FEDERAL LOAD NO. CALIBER BULLET WEIGHT IN GRAINS BULLET STYLE FACTORY PRIMER NO. MUZZLE VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS) 100 YDS. 200 YDS. 300 YDS. 400 YDS. 500 YDS.

FEDERAL PREMIUM® VITAL-SHOK®

New HV	2	P300WSMK	300 Win. Short Magnum	130	8.42	Barnes Tipped Triple-Shock	215	3500	3200	2930	2670	2420	2190
	2	P300WSMD	300 Win. Short Magnum	150	9.72	Nosler Ballistic Tip	215	3250	3020	2800	2590	2390	2200
	2	P300WSME	300 Win. Short Magnum	165	10.69	Nosler Partition	215	3210	2970	2740	2520	2320	2120
	2	P300WSMG	300 Win. Short Magnum	165	10.69	Barnes Triple-Shock X-Bullet	215	3130	2870	2630	2400	2190	1980
	3	P300WSMJ	300 Win. Short Magnum	180	11.66	Barnes MRX-Bullet	215	2980	2810	2640	2480	2330	2180
New ◊	3	P300WSMTT1	300 Win. Short Magnum	180	11.66	Trophy Bonded Tip	215	2960	2770	2590	2420	2250	2090
	3	P300WSMF	300 Win. Short Magnum	180	11.66	Barnes Triple-Shock X-Bullet	215	2980	2770	2570	2380	2200	2030
	3	P300WSMA1	300 Win. Short Magnum	180	11.66	Nosler AccuBond	215	2960	2770	2600	2420	2260	2100
	3	P300WSMB	300 Win. Short Magnum	180	11.66	Nosler Partition	215	2980	2780	2590	2410	2230	2060
◊	3	P300WBA	300 Weatherby Magnum	180	11.66	Nosler Partition	215	3080	2880	2680	2490	2320	2140
◊	3	P300WBE	300 Weatherby Magnum	180	11.66	Barnes Triple-Shock X-Bullet	215	3110	2900	2690	2500	2310	2130
New ◊	3	P300WBT1	300 Weatherby Magnum	180	11.66	Trophy Bonded Tip	215	3100	2910	2720	2540	2370	2200
◊	3	P300RUMD	300 Rem. Ultra Magnum	180	11.66	Barnes Triple-Shock X-Bullet	216	3150	2930	2730	2530	2340	2160
◊	3	P300RUMT1	300 Rem. Ultra Magnum	180	11.66	Trophy Bonded Bear Claw*	216	3200	2930	2680	2440	2210	2000
◊	3	P300RUMC	300 Rem. Ultra Magnum	200	12.96	Nosler Partition	216	3070	2870	2680	2490	2320	2150
	3	P338FA1	338 Federal	180	11.66	Nosler AccuBond	210	2830	2590	2350	2130	1930	1730
	3	P338FC	338 Federal	185	11.99	Barnes Triple-Shock X-Bullet	210	2750	2500	2260	2030	1820	1620
	3	P338FB	338 Federal	210	13.61	Nosler Partition	210	2630	2410	2200	2010	1820	1650
	3	P338A3	338 Win. Magnum	180	11.66	Nosler AccuBond	215	3120	2860	2610	2380	2160	1950
	3	P338A2	338 Win. Magnum	210	13.61	Nosler Partition	215	2830	2600	2380	2180	1980	1790
	3	P338K	338 Win. Magnum	225	14.58	Barnes Triple-Shock X-Bullet	215	2800	2570	2340	2130	1930	1740
	3	P338T1	338 Win. Magnum	225	14.58	Trophy Bonded Bear Claw	215	2730	2490	2260	2050	1840	1660
	3	P338A1	338 Win. Magnum	225	14.58	Nosler AccuBond	215	2800	2630	2480	2320	2170	2030
	3	P338B2	338 Win. Magnum	250	16.20	Nosler Partition	215	2660	2470	2300	2120	1960	1800
◊	3	P338RUMA	338 Rem. Ultra Magnum	210	13.61	Nosler Partition	216	3050	2810	2580	2370	2160	1970
◊	3	P338RUMA1	338 Rem. Ultra Magnum	225	14.58	Nosler AccuBond	216	3020	2850	2680	2520	2360	2210
◊	3	P35WT1	35 Whelen	225	14.58	Trophy Bonded Bear Claw	210	2600	2350	2120	1900	1690	1500
◊	3	P375T4	375 H&H Magnum	250	16.20	Trophy Bonded Bear Claw	215	2670	2410	2170	1940	1730	1530
◊	3	P375A1	375 H&H Magnum	260	16.85	Nosler AccuBond	215	2700	2510	2330	2160	1990	1830

FEDERAL PREMIUM® CAPE-SHOK®

New ◊	4	P370B	370 Sako Magnum	286	18.53	Nosler Partition	210	2550	2370	2200	2040	1880	1730
New ◊	4	P370C	370 Sako Magnum	286	18.53	Barnes Triple-Shock X-Bullet	210	2550	2370	2190	2020	1860	1710
◊	4	P375F	375 H&H Magnum	300	19.44	Nosler Partition	215	2530	2320	2110	1920	1740	1570
◊	4	P375H	375 H&H Magnum	300	19.44	Barnes Triple-Shock X-Bullet	215	2470	2240	2010	1800	1610	1440
◊	4	P375T1	375 H&H Magnum	300	19.44	Trophy Bonded Bear Claw	215	2400	2160	1930	1720	1530	1360
◊	4	P375T2	375 H&H Magnum	300	19.44	Trophy Bonded Sledgehammer Solid	215	2440	2120	1820	1550	1320	1150
HE, ◊	4	P375T3	375 H&H Magnum	300	19.44	Trophy Bonded Bear Claw	215	2600	2350	2110	1890	1680	1490
◊	4	P416D	416 Rigby	400	25.92	Barnes Triple-Shock X-Bullet	216	2400	2190	1990	1800	1630	1460
◊	4	P416T1	416 Rigby	400	25.92	Trophy Bonded Bear Claw	216	2300	2080	1880	1690	1520	1360
◊	4	P416T2	416 Rigby	400	25.92	Trophy Bonded Sledgehammer Solid	216	2370	2070	1800	1550	1340	1170
◊	4	P416RB	416 Rem. Magnum	400	25.92	Barnes Triple-Shock X-Bullet	216	2370	2160	1960	1770	1600	1440
◊	4	P416RT1	416 Rem. Magnum	400	25.92	Trophy Bonded Bear Claw	216	2400	2180	1970	1770	1590	1430
◊	4	P416RT2	416 Rem. Magnum	400	25.92	Trophy Bonded Sledgehammer Solid	216	2400	2100	1820	1570	1360	1190
◊	4	P458T1	458 Win. Magnum	400	25.92	Trophy Bonded Bear Claw	215	2250	2030	1810	1620	1440	1290
◊	4	P458T2	458 Win. Magnum	500	32.40	Trophy Bonded Bear Claw	215	2090	1820	1580	1370	1200	1080
◊	4	P458T3	458 Win. Magnum	500	32.40	Trophy Bonded Sledgehammer Solid	215	1950	1730	1530	1350	1210	1100
◊	4	P458D	458 Win. Magnum	500	32.40	Barnes Triple-Shock X-Bullet	215	2050	1870	1700	1540	1390	1270
◊	4	P458LT1	458 Lott	500	32.40	Trophy Bonded Bear Claw	216	2300	2020	1760	1520	1320	1160
◊	4	P458LT2	458 Lott	500	32.40	Trophy Bonded Sledgehammer Solid	216	2300	2060	1830	1620	1430	1270
◊	4	P470A	470 Nitro Express	500	32.40	Woodleigh Weldcore SP	216	2150	1890	1660	1450	1270	1130
◊	4	P470B	470 Nitro Express	500	32.40	Woodleigh Solid	216	2150	1890	1660	1450	1270	1130
◊	4	P470T1	470 Nitro Express	500	32.40	Trophy Bonded Bear Claw	216	2150	1890	1660	1450	1270	1130
◊	4	P470T2	470 Nitro Express	500	32.40	Trophy Bonded Sledgehammer Solid	216	2150	1880	1630	1410	1230	1090

FEDERAL PREMIUM® GOLD MEDAL®

	5	GM223M	223 Rem. (5.56x45mm)	69	4.47	Sierra MatchKing BTHP	GM205M	2950	2640	2350	2080	1830	1600
	5	GM223M3	223 Rem. (5.56x45mm)	77	4.99	Sierra MatchKing BTHP	GM205M	2720	2480	2260	2040	1840	1650
	5	GM308M	308 Win. (7.62x51mm)	168	10.89	Sierra MatchKing BTHP	GM210M	2650	2460	2280	2100	1940	1780
	5	GM308M2	308 Win. (7.62x51mm)	175	11.34	Sierra MatchKing BTHP	GM210M	2600	2430	2260	2100	1950	1800
	5	GM3006M	30-06 Spring. (7.62x63mm)	168	10.89	Sierra MatchKing BTHP	GM210M	2700	2510	2320	2150	1980	1820
	5	GM300WM	300 Win. Magnum	190	12.31	Sierra MatchKing BTHP	GM215M	2900	2730	2560	2400	2240	2090

Abbreviation Key: BTHP = Boat Tail Hollow Point, BTSP = Boat Tail Soft Point, FN = Flat Nose, HE = High Energy (Not for use in semi-automatic rifles), HP = Hollow Point, HV = Hyper-Velocity, ◊ = Nickel Plated Cases, SP = Soft Point, * = A portion of the proceeds from the sale of this product is donated to RMEF, ⚡ = A portion of the proceeds from the sale of this product is donated to SCI, *Molycoat = Molybdenum Disulfide Dry Film Lubricant
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.

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 100 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.	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	50 YDS.	100 YDS.	200 YDS.	300 YDS.	50 YDS.	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.			
3535	2965	2475	2055	1690	1385	0.7	2.8	6.7	12.3	20.2	-0.4	◆	-1.9	-7.9	0.1	0.9	◆	-5.0	-14.9	-30.8	24	P300WSMK	
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	-33.3	24	P300WSMD	
3775	3230	2750	2330	1965	1640	0.6	2.7	6.4	11.7	19.2	-0.3	◆	-2.5	-9.5	0.3	1.2	◆	-5.9	-17.2	-35.1	24	P300WSME	
3590	3025	2540	2115	1750	1435	0.7	3.1	7.1	13.4	21.9	-0.3	◆	-2.7	-10.5	0.4	1.4	◆	-6.3	-18.8	-38.5	24	P300WSMG	
3550	3150	2790	2465	2170	1900	0.5	2.2	5.1	9.3	15.1	-0.2	◆	-2.9	-10.8	0.5	1.5	◆	-6.4	-18.4	-37.0	24	P300WSMJ	
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	-38.9	24	P300WSMTT1	
3550	3070	2645	2265	1935	1640	0.6	2.7	6.3	11.7	19.0	-0.2	◆	-3.1	-11.3	0.5	1.5	◆	-6.7	-19.7	-39.8	24	P300WSMF	
3500	3075	2690	2350	2040	1765	0.6	2.5	5.6	10.4	16.8	-0.2	◆	-3.0	-11.2	0.5	1.5	◆	-6.6	-19.2	-38.7	24	P300WSMA1	
3550	3090	2680	2315	1990	1700	0.6	2.6	6.0	11.1	18.0	-0.2	◆	-3.0	-11.2	0.5	1.5	◆	-6.6	-19.4	-39.1	24	P300WSMB	
3790	3305	2870	2485	2140	1835	0.6	2.5	5.8	10.5	17.2	-0.3	◆	-2.7	-10.3	0.4	1.4	◆	-6.2	-17.9	-36.3	24	P300WBA	
3865	3350	2895	2485	2130	1810	0.6	2.6	6.0	10.9	17.9	-0.3	◆	-2.7	-10.2	0.4	1.3	◆	-6.1	-17.8	-36.2	24	P300WBE	
3840	3375	2955	2580	2240	1940	0.5	2.3	5.4	9.8	16.0	-0.3	◆	-2.6	-10.0	0.4	1.3	◆	-6.0	-17.4	-35.1	24	P300WBTT1	
3965	3440	2970	2555	2190	1865	0.6	2.5	5.8	10.7	17.6	-0.3	◆	-2.6	-9.8	0.4	1.3	◆	-6.0	-17.3	-35.1	24	P300RUMD	
4090	3435	2870	2380	1960	1595	0.7	3.1	7.2	13.5	22.2	-0.3	◆	-2.6	-10.0	0.4	1.3	◆	-6.1	-18.1	-37.3	24	P300RUMT1	
4185	3655	3180	2760	2380	2045	0.5	2.5	5.7	10.4	17.0	-0.3	◆	-2.8	-10.4	0.4	1.4	◆	-6.2	-18.0	-36.4	24	P300RUMC	
3200	2670	2215	1820	1480	1200	0.9	3.6	8.6	15.8	26.2	-0.2	◆	-3.7	-13.7	0.8	1.8	◆	-8.2	-23.9	-49.3	24	P338FA1	
3105	2560	2090	1695	1355	1080	1.0	4.0	9.5	17.6	29.4	-0.1	◆	-4.1	-15.0	0.9	2.0	◆	-8.9	-26.2	-54.4	24	P338FC	
3225	2710	2265	1880	1545	1265	0.8	3.7	8.7	16.1	26.8	-0.1	◆	-4.5	-16.2	1.1	2.3	◆	-9.4	-27.3	-56.3	24	P338FB	
3890	3265	2730	2265	1865	1520	0.7	3.2	7.3	13.8	22.5	-0.3	◆	-2.8	-10.6	0.4	1.4	◆	-6.4	-19.1	-39.2	24	P338A3	
3735	3155	2650	2210	1825	1500	0.9	3.3	7.9	14.7	24.0	-0.2	◆	-3.6	-13.4	0.7	1.8	◆	-8.0	-23.3	-47.5	24	P338A2	
3915	3290	2740	2270	1865	1520	0.9	3.5	8.4	15.4	25.4	-0.1	◆	-3.8	-14.0	0.8	1.9	◆	-8.3	-24.1	-49.5	24	P338K	
3725	3100	2560	2095	1700	1370	0.9	3.8	9.0	16.7	27.8	-0.1	◆	-4.1	-15.1	0.9	2.1	◆	-8.9	-25.9	-53.7	24	P338T1	
3915	3465	3060	2690	2355	2055	0.6	2.4	5.6	10.3	16.6	-0.2	◆	-3.5	-12.7	0.7	1.8	◆	-7.4	-21.4	-42.6	24	P338A1	
3925	3395	2925	2505	2130	1805	0.7	3.0	7.1	13.1	21.2	-0.1	◆	-4.2	-15.0	1.0	2.1	◆	-8.8	-25.1	-50.5	24	P338B2	
4335	3685	3115	2615	2180	1805	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	P338RUMA	
4555	4045	3585	3165	2785	2445	0.5	2.2	5.0	9.1	14.8	-0.2	◆	-2.8	-10.5	0.5	1.4	◆	-6.2	-17.9	-36.0	24	P338RUMA1	
3375	2760	2240	1795	1430	1130	1.0	4.4	10.3	19.7	32.4	0.0	◆	-4.9	-17.3	1.2	2.4	◆	-10.1	-30.2	-62.2	24	P35WT1	
3955	3230	2610	2090	1655	1305	1.0	4.4	10.2	19.4	32.1	-0.1	◆	-4.5	-16.4	1.1	2.3	◆	-9.6	-28.6	-59.4	24	P375T4	
4210	3640	3130	2685	2285	1935	0.7	2.9	7.0	13.0	20.9	-0.1	◆	-4.0	-14.5	0.9	2.0	◆	-8.5	-24.5	-48.9	24	P375A1	
4130	3570	3075	2630	2240	1900	0.7	3.2	7.4	13.5	22.3	0.0	◆	-4.7	-16.6	1.1	2.4	◆	-9.5	-27.2	-55.3	24	P370B	
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	
4265	3570	2970	2450	2010	1640	0.9	4.0	9.2	17.4	28.6	0.0	◆	-5.1	-17.7	1.3	2.5	◆	-10.2	-30.1	-61.6	24	P375F	
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	
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	◆	-12.4	-36.6	-75.9	24	P375T1	
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
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	
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
4700	3860	3140	2540	2045	1645	1.2	4.8	11.6	21.6	35.4	◆	◆	-0.3	-7.1	-23.9	0.2	◆	-6.4	-23.0	-51.5	-95.4	24	P416T1
4990	3815	2870	2135	1590	1215	1.6	6.6	16.1	30.5	50.5	◆	◆	-0.3	-7.1	-25.0	0.1	◆	-6.6	-24.2	-56.3	-108.3	24	P416T2
4990	4145	3415	2795	2280	1850	1.1	4.4	10.4	19.7	32.0	◆	◆	-0.2	-6.4	-21.6	0.1	◆	-5.9	-20.9	-47.3	-86.7	24	P416RB
5115	4215	3445	2790	2250	1805	1.2	4.6	10.9	20.5	33.4	◆	◆	-0.2	-6.2	-21.2	0.1	◆	-5.8	-20.6	-46.8	-86.4	24	P416RT1
5115	3920	2950	2200	1635	1245	1.6	6.5	15.8	29.9	49.7	◆	◆	-0.2	-6.8	-24.2	0.1	◆	-6.4	-23.5	-54.6	-105.2	24	P416RT2
4495	3640	2920	2325	1845	1480	1.3	5.3	12.9	23.8	39.2	◆	◆	-0.4	-7.7	-26.0	0.2	◆	-7.0	-24.8	-55.6	-103.7	24	P458T1
4850	3685	2775	2080	1595	1285	1.7	7.7	18.3	34.4	55.8	◆	◆	-0.8	-10.7	-34.5	0.4	◆	-9.2	-32.2	-74.1	-140.5	24	P458T2
4220	3320	2595	2030	1615	1335	1.8	7.2	16.9	31.2	50.2	◆	◆	-1.1	-12.4	-38.7	0.6	◆	-10.2	-35.3	-79.6	-148.0	24	P458T3
4665	3865	3190	2620	2150	1780	1.1	5.2	12.2	22.5	36.6	◆	◆	-0.7	-10.1	-31.6	0.4	◆	-8.7	-29.4	-64.8	-118.4	24	P458D
5875	4515	3420	2565	1935	1495	1.6	6.7	16.1	30.5	50.3	◆	◆	-0.4	-7.8	-26.7	0.2	◆	-7.1	-25.6	-59.4	-113.4	24	P458LT1
5875	4690	3700	2900	2260	1780	1.4	5.6	13.6	25.2	41.7	◆	◆	-0.3	-7.4	-25.1	0.2	◆	-6.7	-24.1	-54.6	-102.7	24	P458LT2
5130	3975	3050	2325	1790	1425	1.5	6.9	16.3	30.9	50.4	◆	◆	-0.6	-9.6	-31.1	0.3	◆	-8.4	-29.3	-67.2	-126.8	24	P470A
5130	3975	3050	2325	1790	1425	1.5	6.9	16.3	30.9	50.4	◆	◆	-0.6	-9.6	-31.1	0.3	◆	-8.4	-29.3	-67.2	-126.8	24	P470B
5130	3975	3045	2320	1785	1420	1.5	7.0	16.4	31.0	50.6	◆	◆	-0.6	-9.6	-31.1	0.3	◆	-8.4	-29.3	-67.3	-127.1	24	P470T1
5130	3900	2935	2195	1670	1330	1.6	7.5	17.8	33.5	54.7	◆	◆	-0.6	-9.8	-32.1	0.3	◆	-8.6	-30.2	-69.8	-132.8	24	P470T2
1335	1070	850	665	515	395	1.0	4.3	10.3	19.3	32.4	-0.2	◆	-3.5	-13.3	0.7	1.7	◆	-8.1	-24.1	-51.0	24	GM223M	
1265	1055	870	710	580	465	0.9	3.8	9.0	16.7	27.9	-0.1	◆	-4.2	-15.2	0.9	2.1	◆	-9.0	-26.1	-54.1	24	GM223M3	
2620	2255	1935	1650	1400	1180	0.7	3.1	7.4	13.4	22.0	-0.1	◆	-4.3	-15.3	1.0	2.1	◆	-8.9	-25.5	-51.5	24	GM308M	
2625	2290	1985	1715	1475	1265	0.6	2.9	6.9	12.5	20.3	-0.1	◆	-4.4	-15.7	1.0	2.2	◆	-9.1	-25.8	-51.8	24	GM308M2	
2720	2345	2015	1720	1460	1235	0.7	3.0	7.2	13.2	21.3	-0.1	◆	-4.0	-14.6	0.9	2.0	◆	-8.5	-24.5	-49.2	24	GM3006M	
3550	3135	2760	2420	2115	1845	0.6	2.4	5.5	10.1	16.4	-0.2	◆	-3.2	-11.6	0.6	1.6	◆	-6.9	-19.9	-39.8	24	GM300WM	



FEDERAL® & AMERICAN EAGLE® RIFLE BALLISTICS

USAGE	FEDERAL LOAD NO.	CALIBER	BULLET WEIGHT IN		BULLET STYLE	FACTORY PRIMER NO.	VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)					
			GRAINS	GRAMS			MUZZLE	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
1	223A	223 Rem. (5.56x45mm)	55	3.56	Soft Point	205	3240	2800	2400	2040	1710	1420
1	223B	223 Rem. (5.56x45mm)	55	3.56	Full Metal Jacket Boat-Tail	205	3240	2870	2540	2220	1930	1670
	223L	223 Rem. (5.56x45mm)	64	4.15	Soft Point	205	3050	2680	2340	2030	1740	1490
1	22250A	22-250 Rem.	55	3.56	Soft Point	210	3650	3170	2730	2340	1980	1660
2	243AS	243 Win. (6.16x51mm)	80	5.18	Speer Hot-Cor SP	210	3330	3050	2790	2540	2310	2090
2	243B	243 Win. (6.16x51mm)	100	6.48	Soft Point	210	2960	2700	2450	2210	1990	1780
2	6AS	6mm Rem.	80	5.18	Soft Point	210	3400	3120	2850	2600	2360	2140
2	6B	6mm Rem.	100	6.48	Soft Point	210	3100	2830	2570	2330	2100	1880
2	2506BS	25-06 Rem.	117	7.58	Speer Hot-Cor SP	210	3030	2770	2520	2280	2060	1850
2	6555B	6.5x55 Swedish	140	9.07	Soft Point*	210	2650	2450	2260	2080	1900	1740
2	270A	270 Win.	130	8.42	Soft Point	210	3060	2800	2560	2330	2110	1900
2	270B	270 Win.	150	9.72	Soft Point RN	210	2830	2490	2170	1870	1610	1370
2	270WSME	270 Win. Short Magnum	130	8.42	Soft Point	215	3250	2980	2720	2480	2250	2030
2	7B	7mm Mauser (7x57mm Mauser)	140	9.07	Speer Hot-Cor SP	210	2660	2450	2260	2070	1890	1720
2	7A	7mm Mauser (7x57mm Mauser)	175	11.34	Soft Point RN	210	2390	2090	1810	1560	1350	1180
2	708CS	7mm-08 Rem.	150	9.72	Speer Hot-Cor SP	210	2650	2440	2240	2040	1860	1690
2	280B	280 Rem.	150	9.72	Soft Point	210	2890	2670	2460	2250	2060	1880
2	7RA	7mm Rem. Magnum	150	9.72	Soft Point	215	3110	2840	2590	2350	2120	1910
3	7RB	7mm Rem. Magnum	175	11.34	Soft Point	215	2860	2650	2440	2250	2060	1880
2	7WSME	7mm Win. Short Magnum	150	9.72	Soft Point	215	3100	2830	2580	2340	2110	1900
1	30CA	30 Carbine	110	7.13	Soft Point RN	205	1990	1560	1230	1030	920	840
2	76239B	7.62x39mm Soviet	123	7.97	Soft Point	210	2350	2060	1780	1540	1330	1160
	3030C	30-30 Win.	125	8.10	Hollow Point	210	2570	2080	1660	1310	1080	950
2	3030A	30-30 Win.	150	9.72	Soft Point FN	210	2390	2020	1690	1400	1180	1040
2	3030B	30-30 Win.	170	11.02	Soft Point RN	210	2200	1890	1620	1380	1190	1060
2	300A	300 Savage	150	9.72	Soft Point	210	2630	2350	2090	1850	1630	1430
2	300B	300 Savage	180	11.66	Soft Point	210	2350	2140	1930	1750	1570	1410
2	308A	308 Win. (7.62x51mm)	150	9.72	Soft Point	210	2820	2530	2260	2010	1770	1560
2	308B	308 Win. (7.62x51mm)	180	11.66	Soft Point	210	2570	2350	2130	1930	1740	1570
	3006CS	30-06 Spring. (7.62x63mm)	125	8.10	Soft Point	210	3140	2780	2450	2140	1850	1590
2	3006A	30-06 Spring. (7.62x63mm)	150	9.72	Soft Point	210	2910	2620	2340	2080	1840	1620
2	3006B	30-06 Spring. (7.62x63mm)	180	11.66	Soft Point	210	2700	2470	2250	2050	1850	1670
2	3006HS	30-06 Spring. (7.62x63mm)	220	14.26	Speer Hot-Cor SP	210	2400	2120	1860	1620	1410	1240
2	300WGS	300 Win. Magnum	150	9.72	Speer Hot-Cor SP	215	3150	2900	2660	2440	2220	2020
3	300WBS	300 Win. Magnum	180	11.66	Speer Hot-Cor SP	215	2960	2750	2540	2350	2160	1980
3	300WSMC	300 Win. Short Magnum	180	11.66	Soft Point	215	2980	2740	2500	2280	2080	1880
2	303B	303 British	150	9.72	Soft Point	210	2690	2440	2210	1990	1780	1590
2	303AS	303 British	180	11.66	Speer Hot-Cor SP	210	2460	2210	1970	1740	1540	1360
2	32A	32 Win. Special	170	11.02	Soft Point FN	210	2250	1920	1630	1380	1180	1050
2	8A	8mm Mauser (8x57mm JS Mauser)	170	11.02	Soft Point	210	2250	2030	1810	1620	1440	1290
2	C357G	357 Magnum	180	11.66	Hollow Point	100	1550	1280	1100	980	900	840
2	35A	35 Rem.	200	12.96	Soft Point RN	210	2080	1700	1370	1140	1000	910
3	375A	375 H&H Magnum	270	17.50	Soft Point	215	2690	2420	2160	1920	1700	1500
3	375B	375 H&H Magnum	300	19.44	Soft Point	215	2530	2270	2020	1790	1580	1390
2	C44A	44 Rem. Magnum	240	15.55	Hollow Point	150	1760	1390	1120	980	890	810
2	4570AS	45-70 Government	300	19.44	Speer Hot-Cor HP	210	1850	1610	1400	1230	1100	1010
AMERICAN EAGLE®												
5	AE223G	223 Rem. (5.56x45mm)	50	3.24	Jacketed Hollow Point	205	3325	2840	2400	2010	1650	1360
5	AEBP223G**	223 Rem. (5.56x45mm)	50	3.24	Jacketed Hollow Point	205	3325	2840	2400	2010	1650	1360
5	AE223	223 Rem. (5.56x45mm)	55	3.56	Full Metal Jacket Boat-Tail	205	3240	2870	2540	2220	1930	1670
5	AE223N	223 Rem. (5.56x45mm)	62	4.02	Full Metal Jacket Boat-Tail	205	3020	2710	2430	2160	1900	1670
5	AE30CB	30 Carbine	110	7.13	Full Metal Jacket	205	1990	1560	1230	1030	920	840
5	A76239A	7.62x39mm Soviet	124	8.04	Full Metal Jacket	210	2350	2080	1820	1600	1390	1220
5	AE308D	308 Win. (7.62x51mm)	150	9.72	Full Metal Jacket Boat-Tail	210	2820	2600	2390	2180	1990	1810
5	AE3006N	30-06 Spring. (7.62x63mm)	150	9.72	Full Metal Jacket Boat-Tail	210	2910	2680	2470	2260	2060	1880

Abbreviation Key: FN = Flat Nose, HP = Hollow Point, **200 Round Bulk Pack *Molycoat = Molybdenum Disulfide Dry Film Lubricant.

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.



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 100 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.	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	50 YDS.	100 YDS.	200 YDS.	300 YDS.	50 YDS.	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.			
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
3220	2685	2230	1835	1495	1210	0.8	3.3	7.7	14.5	23.6	-0.3	◆	-2.8	-10.8	0.4	1.4	◆	-6.6	-19.6	-40.1	24	7RA	
3180	2720	2315	1960	1650	1375	0.8	3.0	7.2	13.3	21.4	-0.2	◆	-3.5	-12.8	0.7	1.7	◆	-7.6	-22.1	-44.6	24	7RB	
3200	2670	2215	1820	1485	1200	0.8	3.3	7.7	14.5	23.7	-0.3	◆	-2.9	-10.9	0.5	1.4	◆	-6.6	-19.7	-40.4	24	7WSME	
965	595	370	260	205	170	3.5	15.1	35.8	63.7	97.4	0.7	◆	-13.0	-49.1	3.9	6.5	◆	-29.7	-90.9	-190.2	18	30CA	
1510	1155	870	645	480	370	1.6	6.7	16.2	30.7	50.8	0.2	◆	-6.7	-24.6	1.8	3.4	◆	-14.5	-43.9	-93.3	20	76239B	
1835	1205	760	475	325	250	2.3	10.2	25.6	49.9	81.6	0.1	◆	-6.7	-26.4	1.7	3.3	◆	-16.4	-53.7	-120.6	24	3030C	
1900	1360	945	650	465	360	2.0	8.6	20.8	40.0	65.9	0.1	◆	-7.2	-26.7	1.9	3.6	◆	-15.9	-50.1	-109.8	24	3030A	
1825	1355	990	720	535	425	1.8	8.1	19.4	36.7	59.9	0.3	◆	-8.4	-30.0	2.4	4.2	◆	-17.4	-53.5	-114.4	24	3030B	
2305	1845	1460	1140	885	680	1.1	4.9	11.5	22.1	36.4	-0.1	◆	-4.8	-17.5	1.2	2.4	◆	-10.2	-31.1	-64.8	24	300A	
2205	1825	1495	1215	985	795	1.2	4.5	10.9	20.5	33.3	0.1	◆	-6.1	-21.6	1.6	3.0	◆	-12.5	-36.5	-74.4	24	300B	
2650	2135	1700	1340	1045	805	1.1	4.4	10.4	19.7	32.9	-0.1	◆	-3.9	-14.7	0.8	2.0	◆	-8.8	-26.3	-55.2	24	308A	
2640	2195	1815	1485	1210	980	0.9	4.1	9.4	17.8	29.4	0.0	◆	-4.9	-17.3	1.2	2.4	◆	-10.0	-29.5	-60.7	24	308B	
2735	2145	1660	1265	950	705	1.0	4.5	10.8	20.4	34.6	-0.3	◆	-3.0	-11.9	0.5	1.5	◆	-7.4	-22.3	-48.0	24	3006CS	
2820	2280	1825	1440	1125	875	1.0	4.2	10.0	18.7	31.4	-0.2	◆	-3.6	-13.6	0.7	1.8	◆	-8.2	-24.4	-51.3	24	3006A	
2915	2440	2025	1670	1365	1110	0.9	3.7	8.8	16.2	27.0	-0.1	◆	-4.2	-15.3	1.0	2.1	◆	-9.0	-26.2	-54.0	24	3006B	
2815	2195	1690	1285	975	750	1.5	5.9	14.6	27.3	45.4	0.1	◆	-6.2	-22.7	1.7	3.1	◆	-13.5	-40.0	-84.5	24	3006HS	
3305	2800	2360	1975	1645	1355	0.7	3.0	6.9	12.9	21.1	-0.3	◆	-2.7	-10.2	0.4	1.3	◆	-6.2	-18.3	-37.5	24	300WGS	
3500	3015	2580	2200	1865	1570	0.7	2.9	6.6	12.3	20.0	-0.2	◆	-3.1	-11.6	0.6	1.6	◆	-6.9	-20.3	-41.0	24	300WBS	
3550	2990	2505	2085	1720	1410	0.8	3.2	7.6	14.2	23.0	-0.2	◆	-3.2	-11.9	0.6	1.6	◆	-7.1	-21.0	-42.7	24	300WSMC	
2410	1985	1625	1315	1055	840	0.9	4.1	9.7	18.0	30.0	-0.1	◆	-4.4	-15.9	1.0	2.2	◆	-9.3	-27.4	-56.9	24	303B	
2420	1945	1545	1215	950	740	1.2	5.1	12.2	23.0	37.9	0.1	◆	-5.7	-20.4	1.5	2.8	◆	-11.9	-35.3	-73.6	24	303AS	
1910	1395	1000	715	525	415	1.8	8.4	20.1	38.3	62.5	0.2	◆	-8.1	-29.3	2.3	4.0	◆	-17.2	-53.1	-114.4	24	32A	
1910	1550	1240	990	785	630	1.3	5.3	12.8	23.7	39.1	0.2	◆	-6.9	-24.8	1.9	3.5	◆	-14.3	-41.6	-86.1	24	8A	
960	655	480	385	325	285	3.5	14.2	31.2	53.4	79.9	1.5	◆	-19.7	-68.1	6.4	9.9	◆	-38.5	-111.9	-225.7	18	C357G	
1920	1280	840	575	445	370	2.8	12.0	29.1	53.5	83.6	0.5	◆	-10.7	-40.2	3.2	5.4	◆	-24.1	-75.1	-159.2	24	35A	
4340	3505	2805	2215	1735	1350	1.0	4.6	10.7	20.4	33.9	-0.1	◆	-4.5	-16.4	1.0	2.3	◆	-9.6	-28.9	-60.3	24	375A	
4265	3425	2720	2135	1665	1295	1.2	5.0	11.8	22.5	37.1	0.0	◆	-5.3	-19.1	1.3	2.6	◆	-11.1	-33.5	-69.5	24	375B	
1650	1025	670	510	415	350	3.9	16.5	37.1	64.0	96.4	1.0	◆	-16.8	-60.9	5.2	8.4	◆	-35.6	-106.0	-217.7	20	C44A	
2280	1730	1305	1000	800	680	2.3	8.8	20.7	37.8	59.5	0.7	◆	-11.9	-41.7	3.7	5.9	◆	-23.9	-71.0	-146.8	24	4570AS	
1225	895	640	445	305	205	1.3	5.6	13.8	27.1	46.5	-0.3	◆	-2.8	-11.8	0.4	1.4	◆	-7.5	-24.0	-53.7	24	AE223G	
1225	895	640	445	305	205	1.3	5.6	13.8	27.1	46.5	-0.3	◆	-2.8	-11.8	0.4	1.4	◆	-7.5	-24.0	-53.7	24	AEBP223G	
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	AE223	
1255	1015	810	640	500	385	1.0	4.0	9.7	18.1	30.4	-0.2	◆	-3.2	-12.4	0.6	1.6	◆	-7.6	-22.6	-47.6	24	AE223N	
965	595	370	260	205	170	3.5	15.1	35.8	63.7	97.4	0.7	◆	-13.0	-49.1	3.9	6.5	◆	-29.7	-90.9	-190.2	18	AE30CB	
1520	1190	915	700	535	410	1.5	6.0	14.7	27.6	45.7	0.1	◆	-6.5	-23.8	1.8	3.3	◆	-14.0	-41.5	-87.5	20	A76239A	
2650	2245	1895	1585	1320	1090	0.8	3.3	7.8	14.4	23.3	-0.2	◆	-3.6	-13.5	0.8	1.8	◆	-8.0	-23.3	-47.2	24	AE308D	
2820	2395	2025	1700	1420	1175	0.8	3.2	7.4	13.7	22.2	-0.2	◆	-3.3	-12.4	0.6	1.7	◆	-7.4	-21.7	-43.8	24	AE3006N	



INTRODUCING THE NEW .327 FEDERAL MAGNUM.

RUGER We're proud to bring you the new .327 Federal Magnum. Created in partnership with Ruger, this new caliber is ideal for short-barreled conceal and carry handguns. Federal's engineers bring you this impressive cartridge by increasing the length of the .32 H&R Magnum by an 1/8" and using high-performance powders at high pressure. This increase in pressure leads to energy levels almost twice that of the .38 Special and similar to the .357 Magnum, without all of the recoil. In addition to superior performance and manageable recoil, handguns chambered in .327 Federal Magnum can handle a six-round cylinder versus the five-round cylinders of the .38 Specials and .357 Magnums. Ruger will initially chamber their reliable SP101 in .327 Federal Magnum. This compact, J-frame firearm is the perfect platform for this new caliber and will be ideal for conceal and carry situations.

Committed to the Ultimate Protection. Ammunition designed for personal defense is to be taken seriously. When it's called on, the stakes are high. Second-rate performance isn't an option. Federal Premium® is committed to continually looking for ways to make improvements in this area. In partnership with Ruger®, we introduce the all-new .327 Federal Magnum. This cartridge provides a drastic improvement in performance over the .38 Special, and compares very closely to the .357 Magnum, without all of the recoil. The performance advantage of the rest of the Federal Premium Personal Defense® line is clear. When lives are at stake, law enforcement professionals and home defense proponents trust nothing less certain than the capability of Hydra-Shok®. It provides the ultimate expansion and energy on target. When a hollow-point doesn't fit the bill, look at our Expanding Full Metal Jacket, unmatched in non-hollow point technology. The EFMJ provides higher energy, more reliable expansion and a lower risk of collateral damage. ➤



Hydra-Shok JHP



Expanding Full Metal Jacket



PREMIUM® PERSONAL DEFENSE®

PREMIUM® HANDGUN BALLISTICS

FEDERAL LOAD NO.	CALIBER	BULLET WEIGHT IN		BULLET STYLE	FACTORY PRIMER NO.	VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)					ENERGY IN FOOT-POUNDS (TO NEAREST 5 FOOT-POUNDS)					TRAJECTORY			TEST BARREL LENGTH INCHES	
		GRAINS	GRAMS			MUZZLE	25 YDS.	50 YDS.	75 YDS.	100 YDS.	MUZZLE	25 YDS.	50 YDS.	75 YDS.	100 YDS.	25 YDS.	50 YDS.	75 YDS.		100 YDS.
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
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
P40HS2	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																				
<i>New</i> PD327HS1 H	327 Federal Magnum	85	5.51	Hydra-Shok JHP	205	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
PD9CSP2 H	9mm Luger (9x19mm Parabellum)	105	6.80	EFMJ	200	1230	1140	1070	1010	970	355	305	265	240	220	⊕	-0.8	-3.4	-8.2	4
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
PD40CSP2 H	40 S&W	135	8.75	EFMJ	100	1200	1110	1040	990	940	430	370	325	290	265	⊕	-0.9	-3.7	-8.8	4
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
PD45CSP2 H	45 Auto	165	10.69	EFMJ	150	1140	1080	1030	990	950	475	425	390	360	335	⊕	-1.0	-4.0	-9.2	5

Abbreviation Key: EFMJ = Expanding Full Metal Jacket, JHP = Jacketed 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.



WE ARE THE NRA.



One of the great freedoms we enjoy in America is the right to bear arms. Without it we would most certainly lose our close ties to the

outdoors and the thrill we feel when entering our favorite blind or walking our honey-hole trail.

The Second Amendment is constantly coming under attack and we need to take action to keep it alive and well. Federal Premium®

has a long history of strong support for the NRA and its dedicated membership. The NRA's most recent

push urges gun owners to "Insure Your Gun Rights", and we couldn't agree more. There's never been a better time to join. Federal supports those groups that keep our sport strong. Join the NRA today at www.nra.org.



Meet the Challenge. Taking down big game is never an easy task, especially when you elect to take your handgun out there to do the trick. Sure, you've got a great trail with outstanding signs of an active trophy; you may have even caught the monster on tape with your new trail camera. It doesn't matter. If you don't make the shot, you're going home empty-handed. And no shot is tougher than with a short-barreled firearm like a magnum revolver. Less length means more room for error. But you've been practicing. You're up for the challenge. Select the right load and make sure you're confident in where it will hit—shot after shot.

Federal Premium® offers the Barnes® Expander® for superior expansion, maximum energy transfer on target and ideal performance on deer. Another option is always the proven CastCore®. This hard-cast bullet retains all its weight and shape to give you the bone-crushing performance you need when taking down medium to large game. 🏹



PREMIUM® VITAL•SHOK®



CastCore

Barnes Expander

PREMIUM® HANDGUN BALLISTICS

FEDERAL LOAD NO.	CALIBER	BULLET WEIGHT IN		BULLET STYLE	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
		GRAINS	GRAMS			MUZZLE	25 YDS.	50 YDS.	75 YDS.	100 YDS.	MUZZLE	25 YDS.	50 YDS.	75 YDS.	100 YDS.	25 YDS.	50 YDS.	75 YDS.	100 YDS.	
FEDERAL PREMIUM® VITAL•SHOK®																				
P357XB1	357 Magnum	140	9.07	Barnes Expander	100	1400	1330	1260	1200	1140	610	545	490	445	405	◆	-0.3	-2.0	-5.3	6-V
P357J	357 Magnum	180	11.66	CastCore	100	1130	1090	1060	1030	1000	510	475	450	425	400	◆	-0.9	-3.8	-8.7	6-V
P41XB1	41 Rem. Magnum	180	11.66	Barnes Expander	150	1340	1260	1190	1130	1080	720	635	570	515	470	◆	-0.5	-2.5	-6.1	6-V
P41B	41 Rem. Magnum	250	16.20	CastCore	150	1160	1120	1090	1050	1030	745	695	655	615	585	◆	-0.8	-3.5	-8.1	6-V
P44XB1	44 Rem. Magnum	225	14.58	Barnes Expander	150	1280	1210	1150	1100	1050	820	730	660	600	555	◆	-0.6	-2.8	-6.9	6-V
P44E	44 Rem. Magnum	300	19.44	CastCore	150	1160	1120	1090	1050	1030	895	835	785	740	700	◆	-0.8	-3.5	-8.1	6-V
P454XB1	454 Casull	250	16.20	Barnes Expander	150	1530	1420	1330	1240	1170	1300	1125	975	850	755	◆	-0.2	-1.6	-4.4	5.7-V
P460XB1	460 S&W	275	17.82	Barnes Expander	210	1800	1720	1640	1570	1500	1980	1810	1650	1505	1370	◆	0.2	-0.5	-2.0	8.4-V
P480XB1	480 Ruger	275	17.82	Barnes Expander	150	1350	1270	1190	1130	1080	1115	980	870	780	710	◆	-0.5	-2.4	-6.1	7.5-V
P500XB1	500 S&W	275	17.82	Barnes Expander	150	1660	1540	1440	1340	1250	1680	1455	1255	1090	950	◆	0.0	-1.1	-3.4	8.4-V

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.



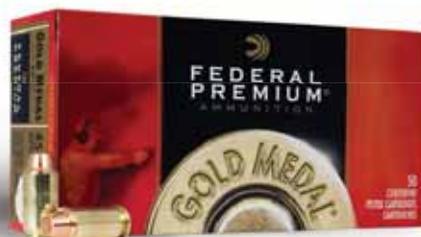
COMPETITIVE SHOOTING PROGRAMS.

Whether you're toeing the line next to your shooting partner at the range, or at one of today's most prestigious handgun events, a little competition is a good thing. And no matter what's at stake, Gold Medal® was created for competition. For those looking to become more involved, the NRA's Competitive Shooting Division offers a wide range of activities in all types of shooting, for everyone from the novice to the world-class competitor. The NRA sanctions over 10,000 shooting tournaments and sponsors over 50 national championships each year. To learn more, log on to www.nra.org.

Gold Medal® for the true competitor. For the real competition shooter, there is no better choice than Federal Premium® Gold Medal® Match ammunition. We combine top-of-the line Gold Medal primers and our heralded brass for unmatched performance. Practice is one thing, but when competition time comes around, there's no room for error. You want a load that will perform when you need it most. Impeccable shot placement, as well as superb ammunition performance, leads to the winner's circle. Our Lead Wadcutter, Full Metal Jacket and Full Metal Jacket Semi-Wadcutter Match bullets are unequalled in match-grade performance. Choose from our .38 Special and two .45 Auto pistol loads to seal your victory. 



PREMIUM® GOLD MEDAL®



PREMIUM® HANDGUN BALLISTICS

FEDERAL LOAD NO.	CALIBER	BULLET WEIGHT IN		BULLET STYLE	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
		GRAINS	GRAMS			MUZZLE	25 YDS.	50 YDS.	75 YDS.	100 YDS.	MUZZLE	25 YDS.	50 YDS.	75 YDS.	100 YDS.	25 YDS.	50 YDS.	75 YDS.	100 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

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.



Federal® Power-Shok® For the cost-conscious handgun hunter, several hot calibers are available in our performance-driven Jacketed Hollow Point loads. Keep the cost down and retain solid performance with Power-Shok. ➤

Federal® Personal Defense® loads offer a quality option for those who carry or keep a firearm close at home. Find them in popular boot-gun calibers like .32 H&R Magnum and two .357 Magnum offerings. There are also 9mm, .40 S&W and .45 Auto loads to meet the needs of autoloader users. Keep your confidence with our Jacketed Hollow Point (JHP). ➤

Federal® Champion™. Time at the range goes fast. If you love to shoot, our Champion™ loads are the answer. We offer a good selection of great bullets for target practice. Spend a few hours at the range to sharpen your skills—or just have fun. ➤

American Eagle®. Hitting the range this weekend? Federal's American Eagle handgun loads are the perfect choice for quality target rounds that feature great ballistics and reliable feeding. You'll find these loads more than suitable for honing your skills and an affordable option for the target board. We even have the **new** .327 Federal Magnum available in American Eagle. Get to know this exciting new caliber by getting more shots at the range for your money. ➤



FEDERAL® & AMERICAN EAGLE® HANDGUN BALLISTICS

USAGE	FEDERAL LOAD NO.	CALIBER	BULLET WEIGHT IN	
			GRAINS	GRAMS
FEDERAL® POWER-SHOK®				
2	C357G	357 Magnum	180	11.66
2	C41A	41 Rem. Magnum	210	13.61
2	C44B	44 Rem. Magnum	180	11.66
2	C44A	44 Rem. Magnum	240	15.55
FEDERAL® PERSONAL DEFENSE® REVOLVER				
6	C32HRB	32 H&R Magnum	85	5.51
6	C357B	357 Magnum	125	8.10
6	C357E	357 Magnum	158	10.24
FEDERAL® PERSONAL DEFENSE® AUTOMATIC PISTOL				
6	C9BP	9mm Luger (9x19mm Parabellum)	115	7.45
6	C40SWA	40 S&W	180	11.66
6	C45C	45 Auto	185	11.99
6	C45D	45 Auto	230	14.90
FEDERAL® CHAMPION™				
5	C32LA	32 S&W Long	98	6.35
5	C32LB	32 S&W Long	98	6.35
5	C32HRA	32 H&R Magnum	95	6.16
5	C44SA	44 Special	200	12.96
5	C45LCA	45 Colt	225	14.58
AMERICAN EAGLE®				
5	AE25AP	25 Auto (6.35mm Browning)	50	3.24
5	AE32AP	32 Auto (7.65mm Browning)	71	4.60
<i>New</i> 5	AE327	327 Federal Magnum	100	6.48
5	AE380AP	380 Auto (9x17mm Short)	95	6.16
5	AE9MK	9mm Makarov (9x18mm Makarov)	95	6.16
5	AE9DP	9mm Luger (9x19mm Parabellum)	115	7.45
5	AE9AP	9mm Luger (9x19mm Parabellum)	124	8.04
5	AE9FP	9mm Luger (9x19mm Parabellum)	147	9.53
5	AE38S1	38 Super +P (HV)	130	8.42
5	AE357S2	357 Sig	125	8.10
5	AE38K	38 Special	130	8.42
5	AE38B	38 Special	158	10.24
5	AE357A	357 Magnum	158	10.24
5	AE40R2	40 S&W	155	10.04
5	AE40R3	40 S&W	165	10.69
5	AE40R1	40 S&W	180	11.66
5	AE10A	10mm Auto	180	11.66
5	AE44A	44 Rem. Magnum	240	15.55
5	AE44B	44 Rem. Magnum	240	15.55
5	AE45GA	45 G.A.P.	185	11.99
5	AE45GB	45 G.A.P.	230	14.90
5	AE45A	45 Auto	230	14.90
AMERICAN EAGLE® IRT				
5	AE9N1	9mm Luger (9x19mm Parabellum)	124	8.04
5	AE9N2	9mm Luger (9x19mm Parabellum)	147	9.53
5	AE40N1	40 S&W	180	11.66
5	AE45N1	45 Auto	230	14.90

BULLET STYLE	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.	25 YDS.	50 YDS.	75 YDS.		100 YDS.
JHP	100	1080	1050	1020	1000	970	465	440	415	395	380	◆	-1.1	-4.2	-9.6	4-V
JHP	150	1230	1170	1120	1080	1040	705	640	585	545	505	◆	-0.7	-3.1	-7.3	4-V
JHP	150	1490	1370	1260	1170	1100	885	750	640	550	485	◆	-0.3	-1.9	-5.1	4-V
JHP	150	1440	1360	1280	1220	1160	1105	985	875	785	715	◆	-0.3	-1.9	-4.9	4-V
JHP	100	1120	1070	1020	990	950	235	215	195	185	170	◆	-1.0	-4.1	-9.4	5
JHP	100	1440	1340	1240	1160	1100	575	495	425	375	335	◆	-0.3	-2.1	-5.4	4-V
JHP	100	1240	1190	1140	1100	1060	540	495	455	425	395	◆	-0.6	-3.0	-7.1	4-V
JHP	200	1180	1110	1050	1000	960	355	310	280	255	235	◆	-0.9	-3.7	-8.7	4
JHP	100	1000	970	950	920	900	400	375	360	340	325	◆	-1.4	-5.3	-11.6	4
JHP	150	950	920	900	880	860	370	350	330	315	300	◆	-1.7	-6.0	-13.1	5
JHP	150	850	830	820	800	790	370	355	345	330	320	◆	-2.2	-7.7	-16.4	5
Lead Wadcutter	100	780	720	670	620	570	130	115	95	80	70	◆	-3.3	-11.5	-25.4	5.3
Lead Round Nose	100	780	760	750	730	720	130	125	120	115	115	◆	-2.9	-9.6	-20.4	5.3
Lead Semi-Wadcutter	100	1020	970	930	890	860	220	200	180	170	155	◆	-1.4	-5.3	-12.0	5
Semi-Wadcutter HP	150	870	850	830	810	790	335	320	305	290	275	◆	-2.1	-7.4	-16.0	4-V
Semi-Wadcutter HP	150	830	810	790	780	760	345	330	315	300	290	◆	-2.4	-8.2	-17.7	4-V
Full Metal Jacket	200	760	740	720	700	680	65	60	55	55	50	◆	-3.1	-10.4	-22.1	2
Full Metal Jacket	100	900	870	850	820	800	130	120	115	105	100	◆	-2.0	-7.0	-15.2	4
Soft Point	205	1500	1410	1320	1250	1180	500	440	390	345	310	◆	-0.2	-1.6	-4.5	4-V
Full Metal Jacket	100	980	940	900	870	840	205	185	170	160	145	◆	-1.6	-5.8	-13.0	3.75
Full Metal Jacket	100	1000	960	920	890	860	210	195	180	165	155	◆	-1.5	-5.5	-12.3	3.75
Full Metal Jacket	200	1180	1110	1050	1000	960	355	310	280	255	235	◆	-0.9	-3.7	-8.7	4
Full Metal Jacket	200	1150	1100	1050	1010	980	365	330	305	280	265	◆	-0.9	-3.8	-8.8	4
FMJ Flat Point	200	1000	980	950	930	910	325	310	295	285	275	◆	-1.4	-5.2	-11.5	4
Full Metal Jacket	200	1200	1140	1100	1050	1020	415	375	345	320	300	◆	-0.8	-3.3	-7.9	5
Full Metal Jacket	200	1350	1270	1190	1130	1080	505	445	395	355	325	◆	-0.5	-2.4	-6.1	4
Full Metal Jacket	100	810	790	780	760	750	190	180	175	170	160	◆	-2.5	-8.7	-18.6	4-V
Lead Round Nose	100	770	760	750	730	720	210	200	195	190	185	◆	-2.9	-9.8	-20.7	4-V
Jacketed Soft Point	100	1240	1190	1140	1100	1060	540	495	455	425	395	◆	-0.6	-3.0	-7.1	4-V
Full Metal Jacket	100	1160	1100	1040	1000	960	465	415	375	345	320	◆	-0.9	-3.8	-8.9	4
Full Metal Jacket	100	1130	1080	1040	1000	970	470	425	390	365	340	◆	-1.0	-4.0	-9.1	4
Full Metal Jacket	100	1000	970	950	920	900	400	375	360	340	325	◆	-1.4	-5.3	-11.6	4
Full Metal Jacket	150	1030	1000	970	950	920	425	400	375	355	340	◆	-1.3	-4.9	-10.9	5
JHP	150	1440	1360	1280	1220	1160	1105	985	875	785	715	◆	-0.3	-1.9	-4.9	4-V
Jacketed Soft Point	150	1440	1360	1280	1220	1160	1105	985	875	785	715	◆	-0.3	-1.9	-4.9	4-V
Full Metal Jacket	200	1090	1050	1010	970	950	490	450	415	390	365	◆	-1.1	-4.3	-9.8	5
Full Metal Jacket	200	880	860	850	830	820	395	380	365	355	340	◆	-2.0	-7.1	-15.3	5
Full Metal Jacket	150	890	870	860	840	820	405	390	375	360	345	◆	-2.0	-6.9	-15.0	5
TMJ	205TMF	1120	1070	1030	990	960	345	315	290	270	255	◆	-1.0	-4.0	-9.3	4
TMJ	205TMF	1000	980	950	930	910	325	310	295	285	275	◆	-1.4	-5.2	-11.5	4
TMJ	205TMF	1000	970	950	920	900	400	375	360	340	325	◆	-1.4	-5.3	-11.6	4
TMJ	205TMF	850	830	820	800	790	370	355	345	330	320	◆	-2.2	-7.7	-16.4	5

Abbreviation Key: FMJ = Full Metal Jacket, JHP = Jacketed Hollow Point, TMF = Toxic Metal Free, TMJ = Totally Encapsulated Bullet

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.



CONTINUING THE REVOLUTION.

A few years back, Federal Premium® brought shotgunners the Shotshell Revolution®. This was headlined by several products that made noteworthy improvements. Two major introductions that distinguished the Shotshell Revolution included the FLITECONTROL® wad and the TruBall® slug. Both of these products featured unique delivery systems never before seen in the shotshell arena and instantly improved turkey and deer loads, respectively. Since then, we've seen numerous new offerings spawn from the advancements made. Innovations such as Black Cloud™ and the Tipped Expander are just a few examples of how the Shotshell Revolution has continued. Before the Shotshell Revolution, improvements across the industry were minimal, and few and far between. By identifying new ways to improve the shotshell, we breathed new life into shotgun technology. Continue to keep an eye on this area because the Revolution is far from over.

Getting the most from the shotgun. We take slug load development very seriously. The Barnes® Expander® is a proven performer and is an excellent choice for shotgunners across the country. And with 150% expansion, the all-copper Expander is top-tier—by anyone's standards. Last year we gave the Barnes Expander a tip to make it a legitimate 200-yard performer and bring tip technology to the shotgun slug. This year we've added another offering to round out our line. Premium® slugs are also available for the smoothbore hunter as TruBall® continues to provide unprecedented accuracy out of your typical shotgun. ➤



PREMIUM® SLUG BALLISTICS

USAGE	FEDERAL LOAD NO.	GAUGE	SHELL LENGTH		SLUG TYPE
			INCHES	MM	
FEDERAL PREMIUM® VITAL-SHOK® BARNES® EXPANDER™ SABOT SLUGS (Fully Rifled)					
2	P151 XS	12	3	76	Barnes Sabot
2	P152 XS	12	2¾	70	Barnes Sabot
2	P150 XS	12	2¾	70	Barnes Sabot
2	P209 XS	20	3	76	Barnes Sabot
2	P208 XS	20	2¾	70	Barnes Sabot
FEDERAL PREMIUM® VITAL-SHOK® BARNES® EXPANDER™ TIPPED SABOT SLUGS (Fully Rifled)					
<i>New</i> 2	P151 XT1	12	3	76	Barnes Tipped Sabot
2	P152 XT1	12	2¾	70	Barnes Tipped Sabot
2	P209 XT1	20	3	76	Barnes Tipped Sabot
FEDERAL PREMIUM® VITAL-SHOK® TRUBALL™ RIFLED SLUGS (Smoothbore Barrel)					
2	PB127 LRS*	12	2¾	70	TruBall Rifled Slug
2	PB127 RS	12	2¾	70	TruBall Rifled Slug
2	PB203 RS	20	2¾	70	TruBall Rifled Slug

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; *Low Recoil Load



PREMIUM® VITAL•SHOK® SLUGS

BARNES® EXPANDER® TIPPED SABOT SLUG

- High velocity (1900 fps)
- Controlled expansion
- Flatter trajectory than hollow-point counterpart
- Tip aids in consistent expansion at all ranges
- Capable of 2 inch groups or better at 100 yards and 4 inch groups or better at 200 yards
- Increased downrange energy
- Available in 12 and 20 gauge loads



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.

TRUBALL® DELIVERS A DEADLY IMPROVEMENT IN SMOOTHBORE ACCURACY



Federal Premium® TruBall® is capable of taking the 4.5" spread of conventional smoothbore slugs and shrinking it to 1.4" at 50 yards. With 5-shot groups like this, TruBall delivers a deadly improvement in accuracy. 4" test targets were shot with a Remington 870 cylinder bore. Results may vary.

	SLUG WEIGHT		MUZZLE	VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)					MUZZLE	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
	OUNCES	GRAINS		25 YDS.	50 YDS.	100 YDS.	150 YDS.	200 YDS.		25 YDS.	50 YDS.	100 YDS.	150 YDS.	200 YDS.	25 YDS.	50 YDS.	100 YDS.	150 YDS.	200 YDS.	
Fully Rifled Slug Barrel)																				
	1	438	1530	1460	1390	1270	1170	--	2275	2070	1885	1575	1340	--	1.3	2.0	⊕	-7.3	--	30
	¾	328	1900	1790	1690	1490	1320	--	2630	2335	2070	1620	1275	--	0.7	1.3	⊕	-5.2	--	30
	1	438	1450	1380	1320	1210	1120	--	2040	1860	1695	1425	1220	--	1.4	2.2	⊕	-8.2	--	30
	¾	275	1900	1800	1710	1530	1370	--	2190	1970	1770	1420	1140	--	0.7	1.2	⊕	-5.0	--	30
	¾	275	1600	1510	1430	1290	--	--	1555	1390	1245	1005	--	--	1.2	1.9	⊕	-7.1	--	30
§ (Fully Rifled Slug Barrel)																				
	¾	325	1900	1820	1750	1600	1470	1340	2630	2415	2215	1865	1560	1315	-1.4	2.7	3.0	⊕	-7.2	30
	¾	325	1900	1820	1750	1600	1470	1340	2630	2415	2215	1865	1560	1315	-1.4	2.7	3.0	⊕	-7.2	30
	¾	275	1900	1810	1730	1560	1420	1290	2190	1990	1810	1485	1220	1005	-1.5	2.8	3.2	⊕	-7.6	30
§))																				
	1	438	1300	1150	1040	910	--	--	1640	1275	1055	805	--	--	0.6	⊕	-7.4	--	--	30
	1	438	1600	1370	1180	970	--	--	2485	1810	1355	915	--	--	0.3	⊕	-5.7	--	--	30
	¾	325	1600	1390	1220	1010	--	--	1865	1410	1090	745	--	--	0.3	⊕	-5.3	--	--	30

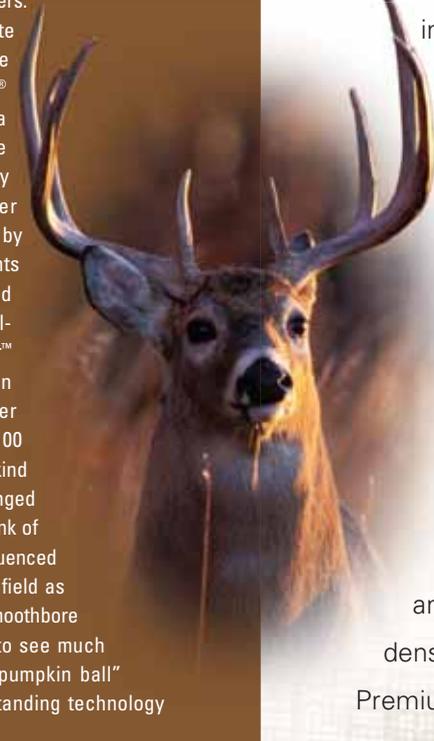
These trajectory tables were calculated by computer using the best available data for each load. Trajectories are representative of the nominal behavior of each load at standard conditions (59°F temperature; barometric pressure of 29.53 inches; altitude at sea level). Shooters are cautioned that actual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



SHOTGUNNING FOR DEER.

Shotgun hunting is gaining in popularity across the country—mostly in the slug category. Federal Premium® is proud to offer the best options for both smoothbore and rifled barrel shotgun hunters.

We've even upped the ante on buckshot performance using our FLITECONTROL® wad technology. Why a shotgun? It used to be that hunters would only use a shotgun for deer hunting due to regulation by states. But advancements in barrel construction and sabot slugs like the all-copper Barnes® Expander™ have tightened groups on shotguns and now offer rifle-like accuracy at 100 yards and beyond. This kind of performance has changed the way many people think of the shotgun—and has influenced many to take one to the field as their firearm of choice. Smoothbore shooters are now able to see much better accuracy from “pumpkin ball” slugs by using the outstanding technology behind TruBall®.



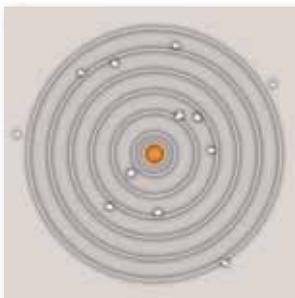
Not your standard buckshot. By now, hunters everywhere are well aware of the advantage provided by the FLITECONTROL® wad. This unique and revolutionary delivery system optimizes patterns and performance for a variety of applications. It was originally introduced in turkey loads and was then incorporated into buckshot. Most recently it was utilized to achieve unbelievable performance in steel waterfowl loads. If you hunt with the time-tested, short-range powerhouse of buckshot, you have to try the next generation technology. The FLITECONTROL wad works by rotating traditional wad design 180-degrees. Conventional wads open from the front and peel away from the shot, making patterns open faster and wider. This amazing wad opens from the rear, holding shot tight for up to 10-feet out the muzzle. This gives you more downrange velocity and patterns almost twice as tight as conventional buckshot loads. Federal Premium ballisticians and engineers spent countless hours testing this wad design and each and every load has its own unique composition to maximize pattern density and optimize the FLITECONTROL technology. Yes, this Federal Premium product has changed buckshot hunting forever. 🏹



PREMIUM® VITAL•SHOK® BUCKSHOT



FLITECONTROL® wad at 10 feet from muzzle



PFC157 00 with full choke
12/12 Hits at 30 Yards
12" target shot with Rem. 870



PREMIUM® BUCKSHOT SPECIFICATIONS

FEDERAL LOAD NO.	GAUGE	INCHES	SHELL LENGTH MM	MUZZLE VELOCITY	SHOT SIZES
FEDERAL PREMIUM® VITAL•SHOK® BUCKSHOT					
P108	10	3½	89	1100	18 Pellets - 00 Buck
P135	12	3½	89	1100	18 Pellets - 00 Buck
P158	12	3	76	1100	15 Pellets - 00 Buck
P158	12	3	76	1100	41 Pellets - 4 Buck
P158	12	3	76	1225	10 Pellets - 000 Buck
P154	12	2¾	70	1325	9 Pellets - 00 Buck
P156	12	2¾	70	1250	34 Pellets - 4 Buck
P156	12	2¾	70	1290	12 Pellets - 00 Buck
P258	20	3	76	1100	18 Pellets - 2 Buck
P256	20	2¾	70	1175	20 Pellets - 3 Buck
FEDERAL PREMIUM® VITAL•SHOK® BUCKSHOT WITH FLITECONTROL WAD					
PFC157	12	3	76	1325	12 Pellets - 00 Buck
PFC154	12	2¾	70	1325	9 Pellets - 00 Buck
PFC154*	12	2¾	70	1145	9 Pellets - 00LR Buck

*Low Recoil Load

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

BUCKSHOT SIZES

PELLET	No.000	No.00	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



**SPECIAL REQUEST.
SPECIAL EDITION.**



Black Cloud™ stormed onto the scene last year with steel shot technology waterfowlers had never seen. And they took note. Black Cloud received an unbelievable response across the country. Waterfowlers hunting everywhere from the northern parts of Canada to the southernmost coasts of the U.S. shouted praise through email, on message boards and at consumer shows. They loved the combination of FLITESTOPPER™ Steel and the FLITECONTROL® wad and what it did to passing ducks. Another group of hunters that took note of the storm were the guys from Duck Commander®. Phil Robertson was so impressed by Black Cloud that he not only made it the exclusive ammunition in his videos, but he wanted to endorse a special load. And if you've seen him on screen, he knows what he's talking about. So for 2008, look for the Duck Commander's image on the box of special edition #3 Black Cloud loads. For more information on the Duck Commander visit www.duckcommander.com.

A storm like no other.



Last year's introduction of Black Cloud™ was hard to miss. FS Steel™ and the FLITECONTROL® wad brought a whole new dimension to waterfowl hunting that left traditional steel loads in the dust. As an added bonus, the FLITECONTROL wad did the work of after market chokes, and allowed hunters to go into the blind with a standard steel choke. The payload of FS Steel (40%) and Premium® Steel (60%) provided devastating performance on ducks and geese. Hunters that took advantage of Black Cloud* saw the extended range, higher retained energy and velocity and increased down-range velocity the FLITECONTROL wad gave them. It put a maximum amount of pellets on target every time, period. This year, be sure to try out the new, special edition #3 shot endorsed by Phil Robertson, the Duck Commander®. 🦆

* Patent Pending





BLACK CLOUD™ FS STEEL™



BLACK CLOUD™ FS STEEL™ SPECIFICATIONS

FEDERAL LOAD NUMBER	GAUGE	INCHES	SHELL LENGTH MM	MUZZLE VELOCITY	SHOT CHARGE WEIGHT OUNCES	GRAMS	SHOT SIZES
BLACK CLOUD™ FS STEEL™							
<i>New</i> PWB134	12	3½	89	1500	1½	42.52	BBB, BB, 2, 4
<i>New</i> PWB142	12	3	76	1450	1¼	35.44	BBB, BB, 2, 3, 4

NOTE: Best performance achieved with steel chokes that do not strip wad or reduce muzzle pressure.



CONSISTENT EDGE TO EDGE PATTERNS

Uniform Black Cloud system puts lethal pellets on birds even outside pattern center (30" target, 40-yards, 12-ga, 3", 1-1/4-oz, #2)



STANDARD STEEL SHOT

Amazing shot construction features a cutting edge that devastates waterfowl on impact. FS Steel creates a massive wound cavity visible in ballistic gelatin. Get cutting power with no loss of penetration.



BLACK CLOUD WITH FLITESTOPPER STEEL SHOT



DUCKS UNLIMITED

Grasslands for Tomorrow



KEEP PUSHING BACK.

It's happening now. Everywhere ducks breed, rest or feed. Acres of grasslands are being decimated in favor of housing developments or plowed under for more farmland. Two years ago, Ducks Unlimited asked us all to push back: *Grasslands for Tomorrow* is the most ambitious conservation initiative ever undertaken by DU. With 200 million acres spanning the borders of the United States and Canada, the Prairie Pothole Region forms the core of what was formerly the largest expanse of grassland in the world. Grassland easements are being purchased now and offer the most cost-effective way to secure the last remaining Prairie Pothole Region habitat in North America. Faced with this changing landscape, we must protect our natural resources. Federal Premium® will donate a portion of the sale from every box of Ultra-Shok High Density®, HEAVYWEIGHT™ and Steel waterfowl loads to this cause. Join us today: 800-45-DUCKS or www.ducks.org.

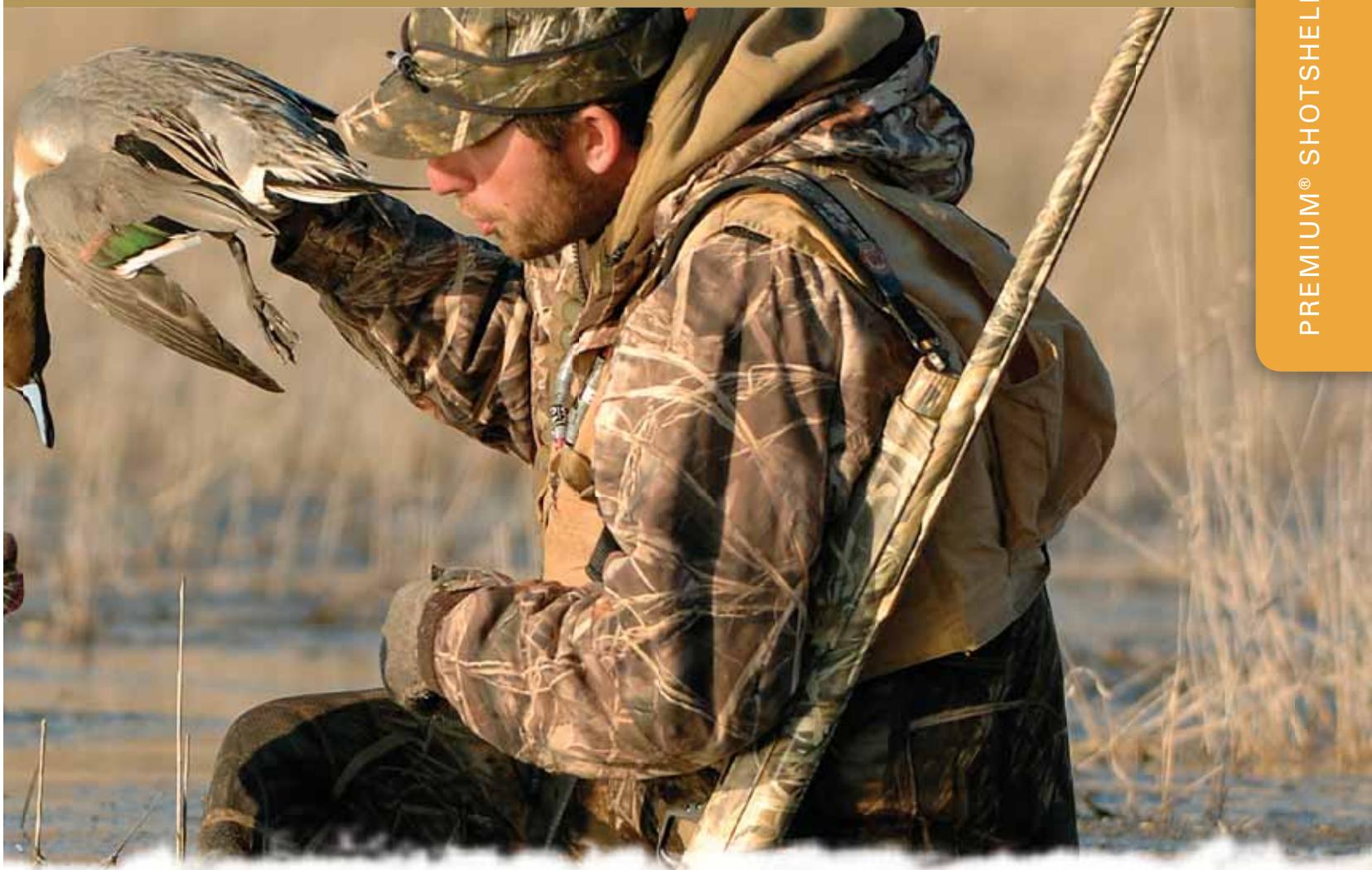


Raising the Conservation Bar. Hunters across the country have enjoyed plentiful duck and goose numbers lately. However, there's no guarantee this will continue. Vital waterfowl habitat is constantly under attack. Luckily, organizations like Ducks Unlimited are committed to not only conserving, but restoring important breeding grounds for ducks and geese. Federal Premium® has partnered with DU to help the cause. Recently, Federal Premium and DU put out a free interactive CD.

This disc is designed to help educate hunters about conservation and the efforts necessary to protect our sport. It also provides tips and information useful to hunters taking



DU and Federal Premium are committed to preserving and restoring the Prairie Pothole Region and its vital duck-breeding habitat.



the field. Go to www.federalpremium.com to learn how to get a free CD. On a larger scale, Federal Premium donates money from every box of Ultra-Shok High Density®, HEAVYWEIGHT™ and Steel to the *Grasslands for Tomorrow* initiative. This effort is aimed at acquiring two million acres of critical habitat in the U.S. portion of the Prairie Pothole Region. Specifically, the Missouri Coteau is an area of uniquely high grassland and wetland density that supports breeding pairs important to producing ducks for the Central and Mississippi flyways



and the entire United States. It's the focus of DU's efforts and in dire need of help. Federal set the goal to raise significant funds over the course of ten years to support the *Grasslands* habitat initiative and keep breeding and nesting grounds viable in the U.S. for years to come. And we're well on our way to meeting the objective. The money earned so far has been generated through a combination of royalties paid from the sale of Ultra-Shok waterfowl loads. Waterfowlers who buy Ultra-Shok know that a portion of their purchase price is going right back to where it counts—habitat on the ground. ☺



WHAT TO USE ON WATERFOWL.

Duck and goose ammunition has changed quite a bit over the years. Waterfowlers today are lucky that they have several different ammunition options. At the same time, the abundance of suitable loads can lead to questions and confusion. Down on the right, you'll see our Choke Guide. Please use this to help find the right choke/load combination for your next hunt. However, some new products on the market today don't follow the standard choke guidelines. Black Cloud™, which features the FLITECONTROL® wad, does the choking for you and is best served with standard, steel-rated chokes. On the other hand, our Ultra-Shok loads are great for those of you shooting special chokes, so we've got you covered. Even after researching and reading all you can, it is important to pattern your gun before you go out. There are a lot of variables in waterfowling. Patterning can answer a lot of questions on the range, instead of in the blind. And as you know, any advantage you can get as those ducks and geese buzz your decoys can be the difference between a skunk and sweet success.

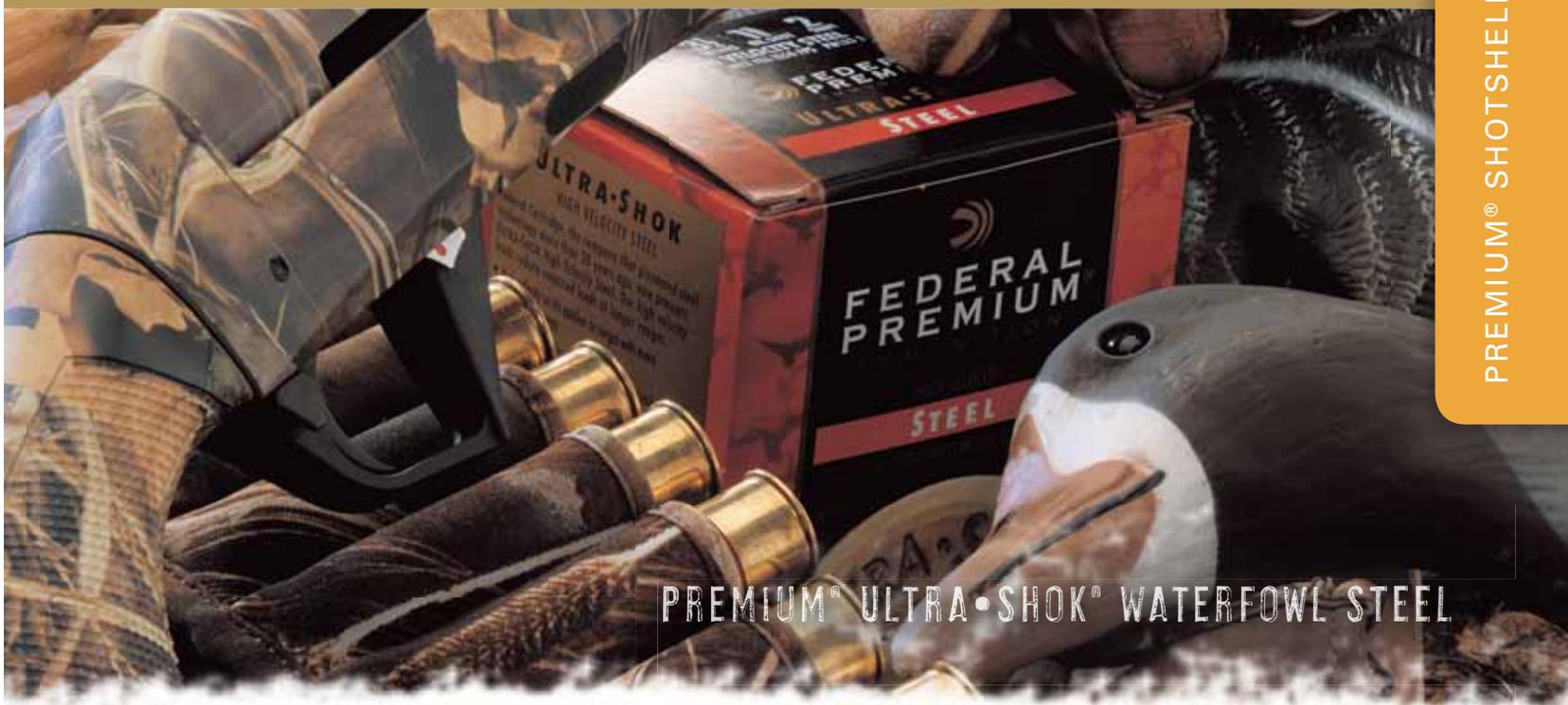


A Steel Load Legacy. Rising dark and early has never been more exciting. The feeling you get working your way to the blind, flashlight in hand, is unmatched in the real world. This is your escape—your time to get dive-bombed by winged foe and to challenge them in mid-flight with a shot from your favorite gun. We understand this emotion, it's why we've improved our steel shot vastly since it was introduced over 30 years ago. When it comes to steel shot, speed kills. That's why our High Velocity loads move out of the muzzle at 1550 feet per second and we offer the fastest heavy loads on the market—Ultra-Shok Heavy High Velocity raises the conventional steel bar. Take them along and take your birds out of the sky. ➤

CHOKE GUIDE

WATERFOWL SIZE	GAUGE	DISTANCE (YDS)	CHOKE	STEEL SHOT SIZES	HIGH DENSITY SHOT SIZES	HEAVYWEIGHT SHOTSIZES
 LARGE DUCKS <i>(Mallard, Pintail, Black)</i>	10, 12, 16, 20	20-30	IC/M	1, 2, 3, 4	2+, 4+	4, 6
	10, 12, 16, 20	30+	IC/M/F	BB, 1, 2, 3	2+, 4+	4, 6
 MEDIUM DUCKS <i>(Wood Duck, Scaup, Widgeon)</i>	12, 16, 20	20-30	IC/M	2, 3, 4, 6	N/A	6
	12, 16, 20	30+	IC/M/F	1, 2, 3, 4	N/A	6
 SMALL DUCK <i>(Teal, Bufflehead)</i>	12, 16, 20	20-30	IC/M/F	3, 4, 6	N/A	6
	12, 16, 20	30+	IC/M/F	3, 4	N/A	6
 LARGE GEESE <i>(Giant, Western Canada)</i>	10, 12	20-30	IC/M	T, BBB, BB	BB+, 2+	2
	10, 12	30+	IC/M	T, BBB, BB	BB+, 2+	2
 MEDIUM GEESE <i>(Snow, Lesser Canada)</i>	10, 12	20-30	IC/M	BBB, BB, 1	BB+, 2+	2, 4
	10, 12	30+	IC/M	BBB, BB, 1	BB+, 2+	2

Federal recommends patterning your gun to determine the optimum choke. F = Full Choke M = Modified Choke IC = Improved Cylinder



PREMIUM® ULTRA-SHOK® WATERFOWL STEEL



SHOTSHELL SPECIFICATIONS

FEDERAL LOAD NUMBER	GAUGE	SHELL LENGTH INCHES	MM	MUZZLE VELOCITY	SHOT CHARGE WEIGHT OUNCES	GRAMS	SHOT SIZES
FEDERAL PREMIUM® ULTRA-SHOK® HEAVY HIGH VELOCITY							
PW107	10	3½	89	1450	1½	42.53	T, BBB, BB, 2
PW134	12	3½	89	1500	1½	42.53	T, BBB, BB, 1, 2, 3, 4
PW142	12	3	76	1450	1¼	35.44	T, BBB, BB, 1, 2, 3, 4
PW145	12	2¾	70	1375	1¼	35.44	BBB, BB, 2, 3, 4
FEDERAL PREMIUM® ULTRA-SHOK® HIGH VELOCITY							
PW133	12	3½	89	1550	1¾	38.98	T, BBB, BB, 2, 4
PW143	12	3	76	1550	1½	31.90	T, BBB, BB, 2, 3, 4
PW168	16	2¾	70	1350	15/16	26.59	2, 4
PW209	20	3	76	1350	1	28.35	1, 2, 3, 4
PW208	20	2¾	70	1450	¾	21.26	4

The purchase of every box of Ultra-Shok gives money directly to the DU Grasslands for Tomorrow initiative.

AVERAGE PELLET COUNT — STEEL SHOT

Shot Size	¾ (21.25)	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	180	192	216	240	264	288	300	312
3	118	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

Weight of Shot in Ounces (Grams)

SHOT SIZE REFERENCE CHART

PELLET	T	BBB	BB	1	2	3	4	5	6	7	7 1/2	8	8 1/2	9
DIAMETER INCHES	.20	.19	.18	.16	.15	.14	.13	.12	.11	.10	.095	.09	.085	.08
DIAMETER MM	5.08	4.83	4.57	4.06	3.81	3.56	3.30	3.05	2.79	2.54	2.41	2.29	2.16	2.03



DENSITY DEFINED.

We're all playing the density game—trying to outdo the other with a higher number. So what exactly are we measuring when defining shot density? The official measurement is grams per cubic centimeter or g/cc for short. Simply put, it measures how dense the metal is based on its size and sectional density. So, it is true that higher is better in the density game. So here's a guide for how to compare—that happens to bode well for Federal Premium®.

- Shot type densities Steel: 7 g/cc
- Tungsten-Iron (High Density®): 10 g/cc
- Tungsten-based HEAVYWEIGHT: 15 g/cc



Non-Toxic Dominance. When steel shot just won't cut it for you, look to Federal Premium® to extend your shooting capability and hit harder than ever before.



We're proud to offer Ultra-Shok High Density®—the perfect combination of density, hardness and velocity. With velocities about equivalent to steel, energy is high and leads are similar—making this product one of the most devastating shot types on the market. Of course, if you want even more density and higher pellet counts, look to our Ultra-Shok HEAVYWEIGHT™ loads. This product boasts some serious density—15 g/cc that makes it more than twice the density of steel. You get the energy of a steel #3 in HEAVYWEIGHT #6 with 55 more pellets—enough said. 🏹



High Density® softer-than-steel shot means you can shoot heavier payloads at higher velocities, using any shotgun barrel that is approved for steel.



PREMIUM® ULTRA•SHOK® WATERFOWL HIGH DENSITY® & HEAVYWEIGHT™

SHOTSHELL SPECIFICATIONS

FEDERAL LOAD NUMBER	GAUGE	SHELL LENGTH INCHES	MM	MUZZLE VELOCITY	SHOT CHARGE WEIGHT OUNCES	GRAMS	SHOT SIZES
FEDERAL PREMIUM® ULTRA•SHOK® HIGH DENSITY							
PHD106	10	3½	89	1400	1⅝	46.07	BB+, 2+
PHD195	12	3½	89	1450	1⅝	46.07	BB+, 2+, 4+
PHD197	12	3	76	1450	1⅜	38.98	BB+, 2+, 4+
PHD297	20	3	76	1350	1	28.35	2+, 4+
FEDERAL PREMIUM® ULTRA•SHOK® HIGH DENSITY SUB-SONIC							
MHD181	12	3	70	850*	1⅜	38.98	BB+
FEDERAL PREMIUM® ULTRA•SHOK® HEAVYWEIGHT™							
PHW133	12	3½	89	1450	1⅝	38.98	2, 4, 6
PHW142	12	3	76	1450	1¼	35.44	2, 4, 6

*Sub-sonic

The purchase of every box of Ultra-Shok gives money directly to the DU Grasslands for Tomorrow initiative.



HIGH DENSITY® PLUS SHOT AVERAGE PELLET COUNT COMPARISON

Weight		Shot Size								
		BB	BB+	% More	2	2+	% More	4	4+	% More
1oz.	1oz.	N/A	N/A	N/A	97	108	10%	150	169	11%
	1-3/8 oz.	78	85	9%	135	149	10%	207	233	11%
	1-5/8 oz.	92	100	8%	159	176	10%	243	275	11%

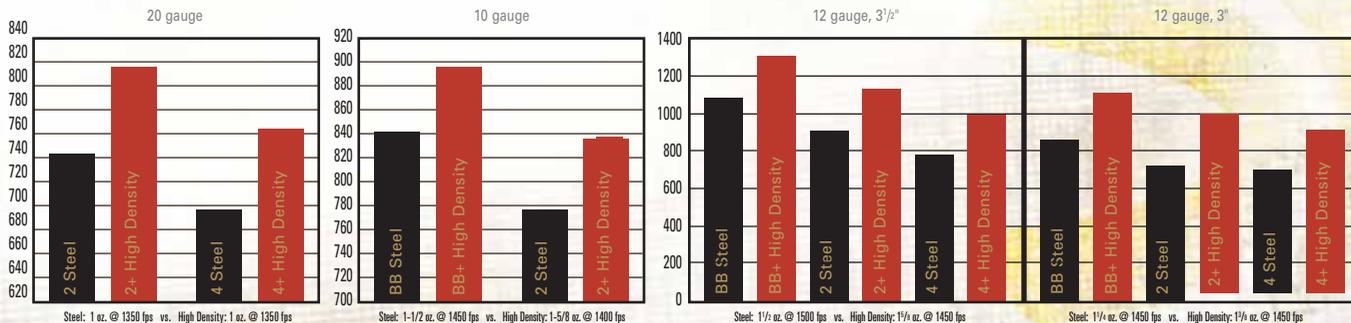
High Density Precision Tuned "Plus" shot sizes ensure up to 11% more pellets than conventional loads.

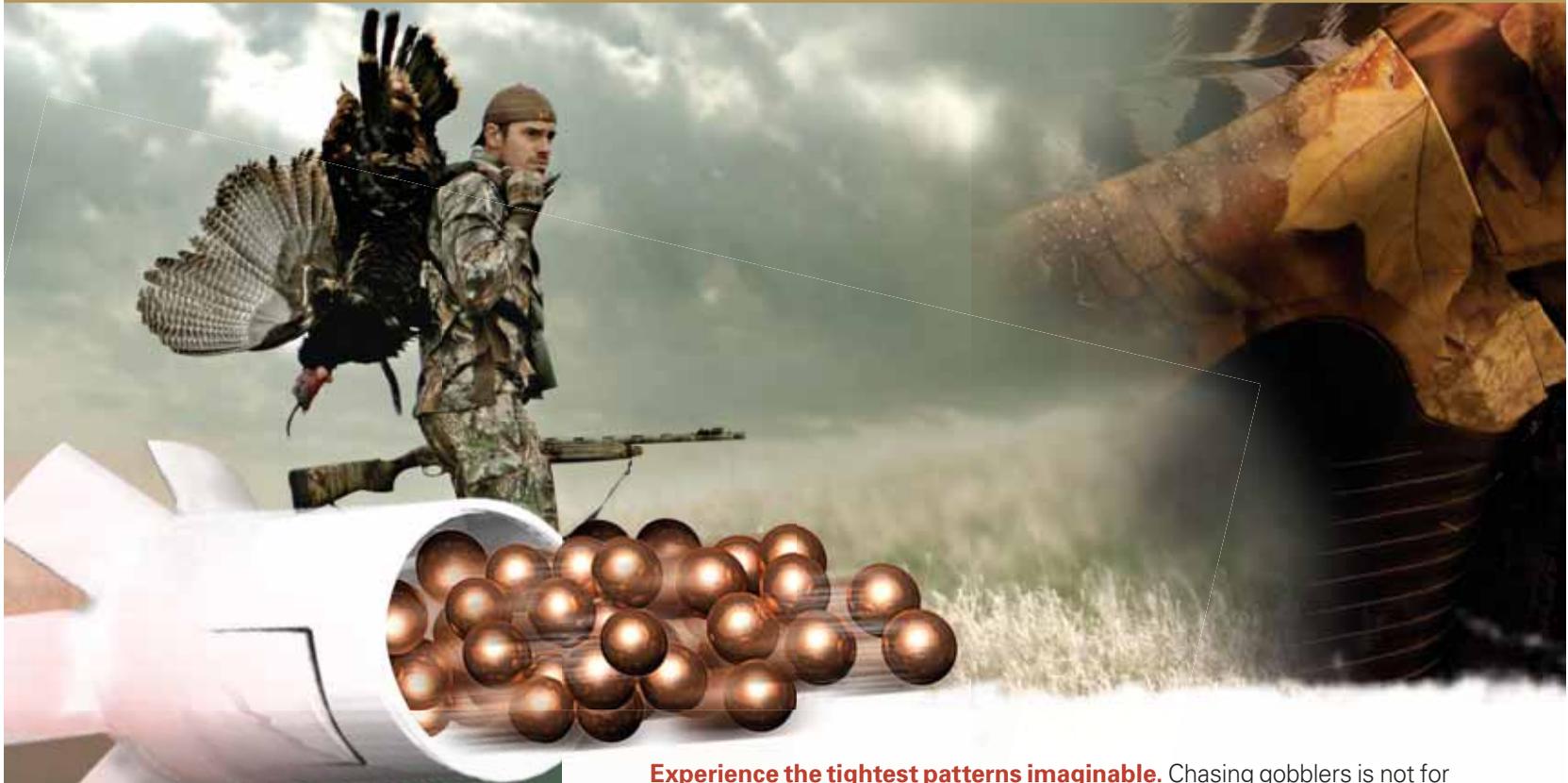
HEAVYWEIGHT™ AVERAGE PELLET COUNT

HEAVYWEIGHT	Shot Size	
	1-3/8 (39.98)	1-1/4 (35.44)
2	80	72
4	123	111
6	203	184

Weight of shot in ounces (grams)

PAYLOAD ENERGY (ft-lbs) @ 40 Yards





HEAR THE CALL, JOIN THE CAUSE.



Since 1973 the NWTF has worked alongside state agencies and its corporate partners to increase the turkey population in North America from 1.3 million to more than 7 million birds. Now more than 584,000 members strong, the NWTF is continuing to help turkey populations expand, is improving habitat for all wildlife and providing opportunities to countless new outdoor enthusiasts. Every box of Federal Premium® NWTF Mag-Shok turkey loads that you buy puts money into this important organization. www.nwtf.org



Did you know?

- Between 5,000 and 6,000 feathers cover the body of an adult turkey
- Feather patterns are called feather tracts
- Gobblers' beards are tufts of filaments, or modified feathers
- 10 percent of hens have beards
- Most of the feathers exhibit a metallic glittering, called iridescence

Experience the tightest patterns imaginable. Chasing gobblers is not for the weak-kneed or the unprepared. At the moment of truth, success or failure depends on your shooting skills, and your shot pattern. In turkey hunting, tighter is better; that's why we use the astonishing FLITECONTROL® wad in our Mag-Shok turkey loads. FLITECONTROL opens at the rear—completely opposite from conventional wad design—and creates an air-brake that pulls the wad off the shot string. This means pellets are released at precisely the right moment for maximum pellets on target. Mag-Shok comes in two shot types—copper-plated lead and the mega dense shot, HEAVYWEIGHT™, available even in a bone-crushing swarm of #7 shot that equals the energy of a #5 lead pellet at 40-yards. Don't let that tom take one step. 🏹

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								
PFC135	12	3½	89	1150	Max.	2¼	63.78	4, 5, 6
PFC159	12	3	76	1150	4	2	56.70	4, 5, 6
FEDERAL PREMIUM® MAG-SHOK® LEAD WITH FLITECONTROL® WAD HIGH VELOCITY								
PFC139	12	3½	89	1300	Mag.	2	56.7	4, 5, 6
PFC157	12	3	76	1300	Mag.	1¾	49.61	4, 5, 6
PFC156	12	2¾	70	1315	4	1½	42.52	4, 5, 6
FEDERAL PREMIUM® MAG-SHOK® HIGH VELOCITY LEAD								
GST101	10	3½	89	1300	Mag.	2	56.71	4, 5, 6
GST258	20	3	76	1185	3	1½	37.20	4, 5, 6
FEDERAL PREMIUM® MAG-SHOK® HEAVYWEIGHT™ WITH FLITECONTROL® WAD								
PHT191F*	12	3½	89	1300	-	1⅞	53.16	5, 6, 7
PHT193F*	12	3	76	1300	-	1⅝	46.07	5, 6, 7

*New Five Pack

A portion of the proceeds from the sale of this product is donated to the NWTF.



PREMIUM® MAG•SHOK® TURKEY



INNOVATIVE TECHNOLOGY DELIVERS UP TO 30% TIGHTER PATTERN.



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



(photo taken 19 feet from muzzle)

FLITECONTROL® wad opens at the rear, creating an air brake that pulls the wad off the shot string. The pellets are released at the optimum moment for accuracy and power.

NOTE: Best performance achieved with chokes that do not strip wad or reduce muzzle pressure.



Conventional Turkey Load
1 7/8 oz., #6 lead shot,
1300 fps, 40 yards
13 critical hits, 138 total hits



FLITECONTROL® Load
1 3/4 oz., #6 lead shot,
1300 fps, 40 yards
22 critical hits, 156 total hits



HEAVYWEIGHT™ Load
1 7/8 oz., #7 HEAVYWEIGHT shot,
1300 fps, 40 yards
29 critical hits, 203 total hits
Target shot with 12 ga. Rem.
1187 super full choke

**HEAVYWEIGHT™
DOWN RANGE PELLET ENERGY IN FOOT-POUNDS**

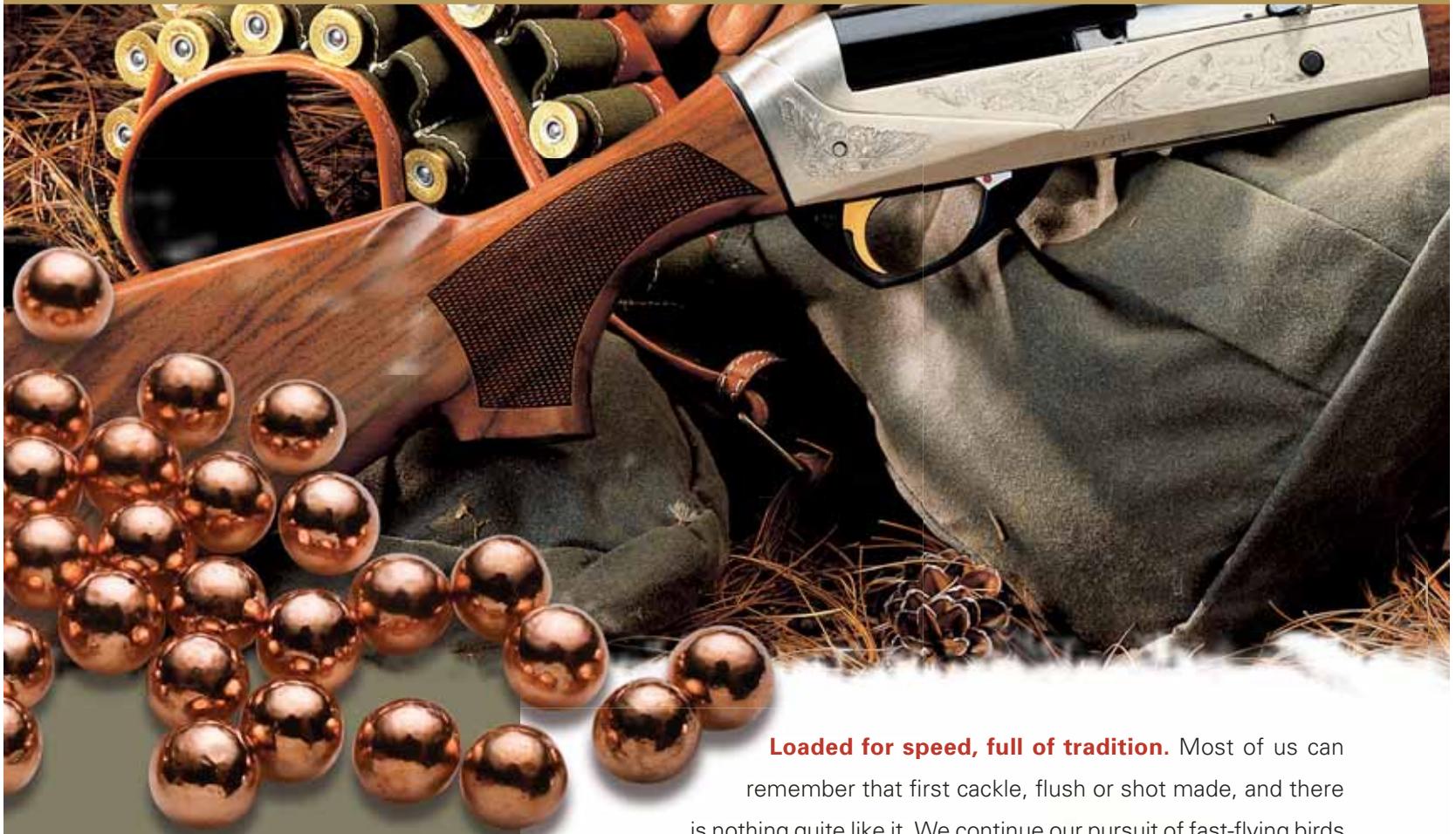
Yards	LEAD (1-3/4 oz. at 1300 fps)			HEAVYWEIGHT (1-5/8 oz. at 1300 fps)			OTHER (1-1/2 oz. at 1300 fps)	
	#4	#5	#6	#5	#6	#7	#5	#6
30	1260	1194	1122	1353	1290	1197	1180	1116
40	970	906*	837	1070	1005	914*	922	858
50	758	698	634	857	792	709	730	669

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

**HEAVYWEIGHT™
AVERAGE PELLET COUNT**

HEAVYWEIGHT Shot Size	1-5/8 (46.07)	1-7/8 (53.16)
5	206	231
6	270	312
7	353	408

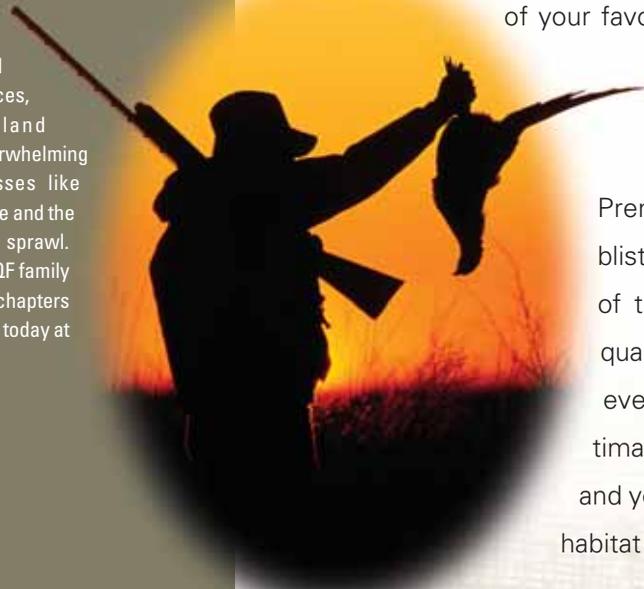
Weight of shot in ounces (grams)



KEEP BIRD HUNTING ALIVE, FOREVER.



Bobwhite population losses over the past 25 years range from 60 to 90 percent across the country. The reason for the quail population plunge is simple—massive loss of habitat suitable for quail. The loss has been due to intensified farming and forestry practices, succession of grassland ecosystems to forests, overwhelming presence of exotic grasses like fescue that choke out wildlife and the constant increase of urban sprawl. In just two short years, the QF family has grown to more than 100 chapters in 26 different states. Join us today at www.quailforever.org.

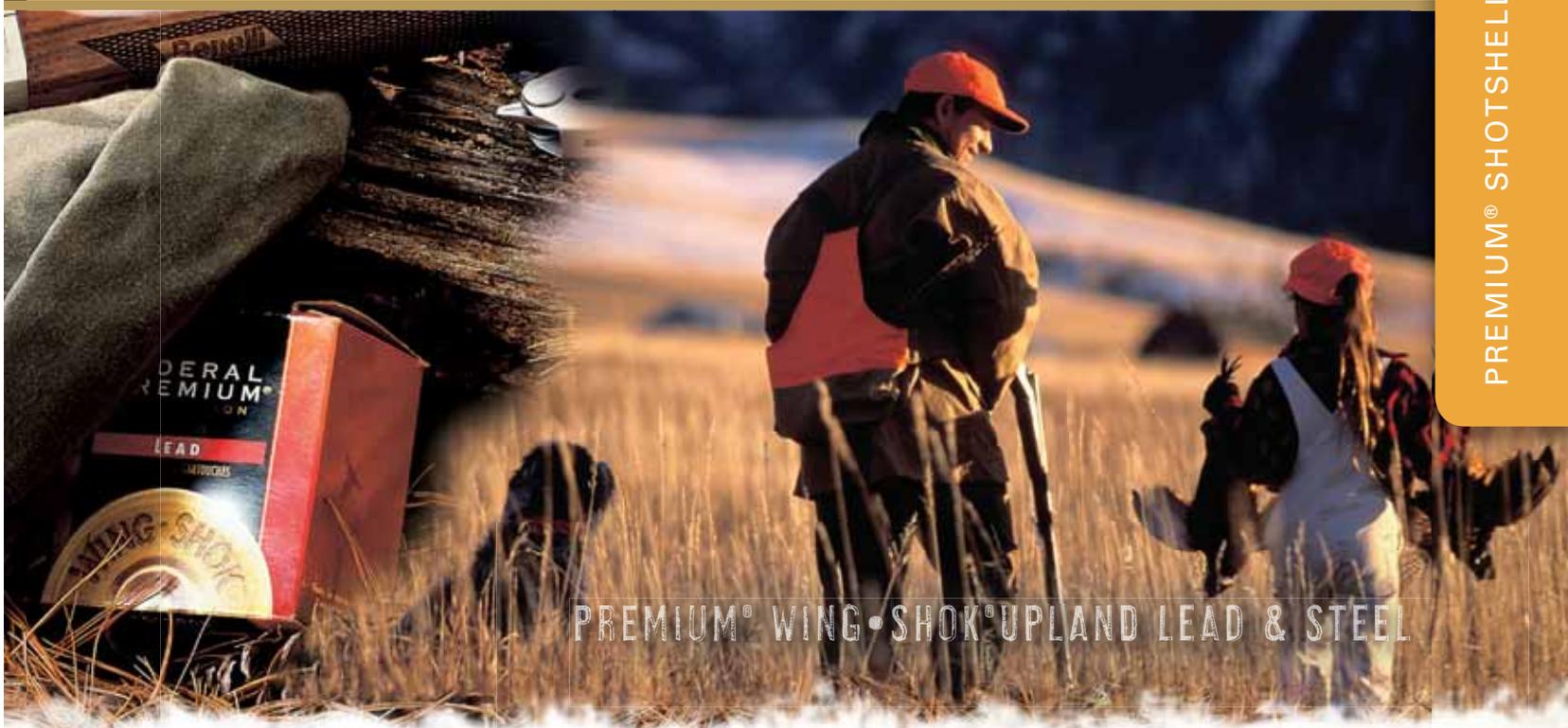


Loaded for speed, full of tradition.

Most of us can remember that first cackle, flush or shot made, and there is nothing quite like it. We continue our pursuit of fast-flying birds year after year because it's tradition, and we wouldn't have it any other way. Upland bird hunting is more than shooting a limit, or connecting on every long shot. It's about watching the dogs work, getting together with friends and family and immersing yourself in the entire experience, only to be brought back to reality by the hurried flush

of your favorite bird. You can feel the tradition in every point, retrieve and job well done. Shooting has become as instinctive as your dog finding birds. Your shotshell of choice is Federal

Premium® Wing-Shok Lead. Lead loads feature a blistering velocity of 1500 feet per second—some of the fastest you can buy. For pheasant, grouse, quail and more, copper-plated Wing-Shok ensures every upland bird hunt is nothing short of the ultimate experience. Choose PF or QF logo boxes and you're helping to support important grassroots habitat initiatives. 



PREMIUM® WING-SHOK® UPLAND LEAD & STEEL

SHOTSHELL SPECIFICATIONS

FEDERAL LOAD NUMBER	GAUGE	SHELL LENGTH INCHES	MM	MUZZLE VELOCITY	DRAM EQUIV	SHOT CHARGE OUNCES	WEIGHT GRAMS	SHOT SIZES
FEDERAL PREMIUM® WING-SHOK® MAGNUM**								
P109	10	3½	89	1210	4½	2¼	63.79	BB
P158	12	3	76	1210	4	1⅞	53.16	BB, 2, 4, 6
P156	12	2¾	70	1315	4	1½	42.53	4, 6
P165	16	2¾	70	1260	3¼	1¼	35.44	4, 6
P258	20	3	76	1300	3½	1¼	35.44	4, 5, 6
P256	20	2¾	70	1175	2¾	1⅞	31.90	4, 6
FEDERAL PREMIUM® WING-SHOK® HIGH VELOCITY								
P129	12	3	76	1350	Max.	1⅞	46.07	4, 5, 6
P128	12	2¾	70	1500	Max.	1⅞	31.90	4, 6, 7.5
P138	12	2¾	70	1500	Max.	1⅞	38.98	4, 5, 6
FEDERAL PREMIUM® WING-SHOK® HI-BRASS								
P283	28	2¾	70	1295	2¼	¾	21.26	6, 7.5, 8
FEDERAL PREMIUM® WING-SHOK® FLYER LOADS								
P153*	12	2¾	70	1330	3¼	1¼	35.44	7.5, 8
FEDERAL PREMIUM® WING-SHOK® PHEASANTS FOREVER UPLAND STEEL HIGH VELOCITY								
PFS140	12	3	76	1450	-	1¼	35.44	3, 5 Steel
PFS209	20	3	76	1350	-	1	28.35	3, 5 Steel
FEDERAL PREMIUM® WING-SHOK® PHEASANTS FOREVER HIGH VELOCITY								
PF154	12	2¾	70	1500	Max.	1¼	35.44	4, 5, 6, 7.5
PF204	20	2¾	70	1350	Max.	1	28.35	4, 5, 6, 7.5
FEDERAL PREMIUM® WING-SHOK® QUAIL FOREVER								
PQF152	12	2¾	70	1200	3	1⅞	31.90	7.5, 8
PQF251	20	2¾	70	1165	2½	1	28.35	8

*Increased velocity **Magnum loads feature buffered shot



In addition to being some of the fastest loads available, Federal Premium® Wing-Shok Lead loads feature extra-hard copper-plated shot for tighter patterns, less feather draw and maximum penetration.

AVERAGE PELLET COUNT — LEAD SHOT Weight of Shot in Ounces (Grams) (3% ANTIMONY)

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)	1-5/8 (46.06)	1-7/8 (53.15)	2 (56.70)	2-1/4 (63.78)
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



25 YEARS OF CONSERVATION EXCELLENCE.



Pheasants Forever is one of the greatest stories in conservation. This unbelievably successful organization is celebrating their 25th year of conservation brilliance this year. PF is one of the best examples of how conservation efforts can be applied directly where hunters and supporters see the results—on the ground. Federal Premium® has been a long-time partner of this grassroots organization because it understands the passion involved in hunting our favorite birds. PF's unique and successful model brings the most effective upland conservation techniques to the people who care the most—and keeps them there. Local efforts show local results. And local habitat means an increase in birds across the country and tradition further solidified. In its 25 years, PF has amassed 115,000 members in more than 650 chapters across the U.S. and Canada. If you aren't already a member, join today. www.pheasantsforever.org.



Achieving one milestone, reaching for more. This year marks a

significant event for conservation groups everywhere. Pheasants

Forever, the grassroots organization that started in Minnesota, is celebrating its 25th anniversary.

This ultra-successful group has been a model for several other similar organizations, and has

been vital to upland habitat across the nation.

Pheasants Forever and its quail division, Quail Forever, are the only national conservation

organizations that empower local chapters with the responsibility to determine how 100

percent of their locally-raised conservation funds are spent. This local control allows chapters to

see the fruits of their chapter efforts in their own



communities. Federal Premium® is proud to be a long-time partner of Pheasants Forever.

In fact, not too far back we produced our 10-millionth round of Wing-Shok in support of the Pheasants Forever royalty program. Each box of Wing-Shok featuring the PF (or QF) logo gives money directly to the organization. New for this year, we introduce brand new steel loads that will also be included in the Pheasants Forever royalty program. Our Premium lead loads are some of the fastest, most



deadly on the prairie, but when you're hunting in a designated non-tox area, these simply aren't an option. The new loads feature payloads of Premium® Steel that are optimized for those super-fast birds. Wing-Shok Steel loads give you a formidable non-tox option in those protected areas. And they also give important money to PF for the preservation of upland birds and their habitat. Help PF to another 25 years of conservation excellence by shooting Wing-Shok lead or steel loads. ➤



TOM KNAPP SHOOTS FEDERAL PREMIUM.

Tom Knapp has been captivating public audiences with extraordinary skill and a shooting style that emulates the legendary Herb Parsons since 1987. Knapp is sponsored by Federal Premium®, Champion™ Traps and Targets and Benelli® and his live shows are second to none. His exhibitions are not only an impressive demonstration of shooting skill, but an engaging presentation that thrills audiences all over the country, and the world. Knapp has set numerous world records, and continues to dazzle spectators with his showmanship and shotgunning prowess. If you haven't seen him yet, or if it has been a while, track him down on the road sometime soon. To see his upcoming schedule, or to find out more, go to www.tomknapp.net.

The best won't settle for less. Serious target shooters everywhere know how important it is to shoot the best available ammunition. There's an intensity that comes with shotgun competition that is unlike any other match. Anyone who's been to The Grand American Trap Shoot knows—it's not about who makes the fewest mistakes, it's about who makes NO mistakes. Every pull of the trigger can make or break a competition. That's why shooters choose Federal Premium® Gold Medal® when the top prize is on the line. Consistent and uniform patterns, along with extra-hard shot and the hot 209A primer, have made this product a must-have on the target shooting circuit. Available in handicap, extra-lite, and our famous paper hull cartridge, you're sure to find your winning combination. And if Sporting Clays is your game, you're joining a legion of shooters that is as passionate as you can get about shooting. Sporting Clays is the ultimate preparation tool for hunting and a great sport in and of itself. Check out our latest additions—several hot FITASC-qualified loads including a 12-gauge, 1-ounce load at 1290 feet per second. 🏹



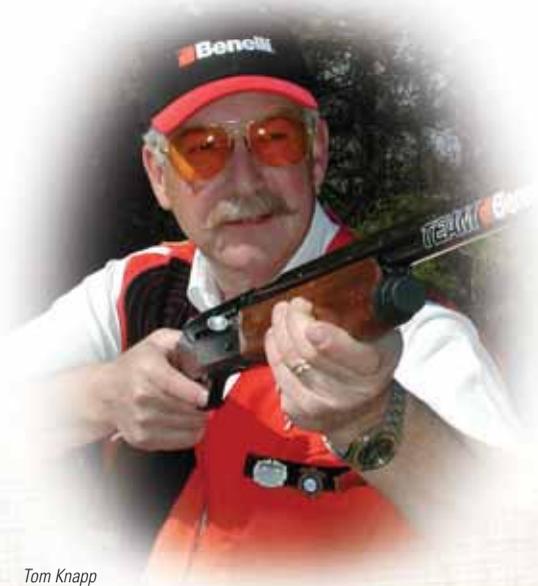


PREMIUM® GOLD MEDAL® TARGET



SHOTSHELL SPECIFICATIONS

FEDERAL LOAD NUMBER	GAUGE	SHELL LENGTH INCHES	MM	MUZZLE VELOCITY	DRAM EQUIV	SHOT CHARGE OUNCES	WEIGHT GRAMS	SHOT SIZES
FEDERAL PREMIUM® GOLD MEDAL® PLASTIC								
T113	12	2¾	70	1180	2¾	1	28.35	7.5, 8, 8.5, 9
T115	12	2¾	70	1145	2¾	1½	31.90	7.5, 8, 9
T116	12	2¾	70	1200	3	1½	31.90	7.5, 8, 9
T206	20	2¾	70	1200	2½	¾	24.81	8, 9
T280	28	2¾	70	1230	2	¾	21.26	8.5, 9
T412	410	2½	64	1230	Max.	½	14.18	8.5, 9
FEDERAL PREMIUM® GOLD MEDAL® HANDICAP PLASTIC HV								
T178	12	2¾	70	1235	HDGP	1½	31.90	7.5, 8
FEDERAL PREMIUM® GOLD MEDAL® INTERNATIONAL PLASTIC								
N110	12	2¾	70	1325	¾	¾	24.01	7.5, 8.5
FEDERAL PREMIUM® GOLD MEDAL® EXTRA-LITE PLASTIC - LOW RECOIL								
T114	12	2¾	70	1100	2½	1½	31.90	7.5, 8
FEDERAL PREMIUM® GOLD MEDAL® PAPER								
T175	12	2¾	70	1180	2¾	1	28.35	8, 8.5
T117	12	2¾	70	1145	2¾	1½	31.90	7.5, 8, 9
T118	12	2¾	70	1200	3	1½	31.90	7.5, 8, 9
FEDERAL PREMIUM® GOLD MEDAL® HANDICAP PAPER HV								
T171	12	2¾	70	1235	HDGP	1½	31.90	7.5, 8
FEDERAL PREMIUM® GOLD MEDAL® INTERNATIONAL PAPER								
N119	12	2¾	70	1325	¾	¾	24.01	7.5
FEDERAL PREMIUM® GOLD MEDAL® EXTRA-LITE PAPER - LOW RECOIL								
T172	12	2¾	70	1100	2¾	1½	31.90	7.5, 8
FEDERAL PREMIUM® GOLD MEDAL® SPORTING CLAYS PLASTIC								
SC176	12	2¾	70	1350	¾	1	28.35	7.5, 8, 8.5
SC177	12	2¾	70	1240	3	1	28.35	7.5, 8, 8.5
SC178	12	2¾	70	1290	¾	1	28.35	7.5, 8, 8.5
SC179	12	2¾	70	1300	¾	1½	31.89	7.5, 8



Tom Knapp



Power-Shok® Slugs. Power-Shok is an outstanding slug choice. Available in a standard 1-ounce sabot and a variety of rifled slug weights, you'll be thrilled with the power these slugs bring to the target. The Power-Shok slug line provides you with the widest variety of gauges and a very palatable price. ➤

Power-Shok® Buckshot. Many hunters use buckshot to bring home the venison—and with the dramatic power of our available loads, it's no wonder. Each load features a Triple Plus® wad system that gives you better shot alignment and a granulated plastic buffer to keep shot pellets uniform in shape. You get tight downrange patterns and better Knock-down Power® with Power-Shok Buckshot. ➤

Game-Shok® Upland. Choose Game-Shok to keep you effective in the field and heavy in the pocket book. Magnum and Hi-Brass loads provide superior performance on your favorite small game. Also available from Federal are field trial loads for training purposes. ➤

FEDERAL® SLUG BALLISTICS

USAGE	FEDERAL LOAD NO.	GAUGE	SHELL LENGTH		SLUG TYPE
			INCHES	MM	
FEDERAL® POWER-SHOK® SABOT SLUGS (Fully Rifled Slug Barrel or Rifled Choke Tube)					
2	F127 SS	12	2¾	70	Sabot Hollow Point
FEDERAL® POWER-SHOK® RIFLED SLUGS (Smoothbore Barrel)					
2	F103 RS	10	3½	89	Hollow Point
2	F131 RS	12	3	76	Hollow Point
2	F127 RS	12	2¾	70	Hollow Point
2	F130 RS	12	2¾	70	Hollow Point
2	F164 RS	16	2¾	70	Hollow Point
2	F203 RS	20	2¾	70	Hollow Point
2	F412 RS	410	2½	64	Hollow Point

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

FEDERAL® BUCKSHOT SPECIFICATIONS

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

FEDERAL® SHOTSHELL SPECIFICATIONS

FEDERAL LOAD NUMBER	GAUGE	INCHES	SHELL LENGTH	MM	MUZZLE VELOCITY	DRAM EQUIV	SHOT CHARGE	WEIGHT	GRAMS	SHOT SIZES
FEDERAL® GAME-SHOK® UPLAND GAME - HI-BRASS LOADS										
H126	12	2¾	70	70	1330	3¾	1¼	35.44	35.44	4, 5, 6, 7, 5
H163	16	2¾	70	70	1295	3¼	1½	31.90	31.90	4, 6, 7, 5
H204	20	2¾	70	70	1220	2¾	1	28.35	28.35	4, 5, 6, 7, 5, 8
H413	410	3	76	76	1135	Max	1½/16	19.51	19.51	4, 5, 6, 7, 5, 8
H412	410	2½	64	64	1200	Max	½	14.18	14.18	6, 7, 5
FEDERAL® GAME-SHOK® UPLAND GAME - HEAVY FIELD LOADS										
H123	12	2¾	70	70	1255	3¼	1½	31.90	31.90	4, 6, 7, 5, 8
H125	12	2¾	70	70	1220	3¼	1¼	35.44	35.44	4, 5, 6, 7, 5, 8
H202	20	2¾	70	70	1165	2½	1	28.35	28.35	6, 7, 5, 8
FEDERAL® GAME-SHOK® UPLAND GAME - GAME LOADS										
H121	12	2¾	70	70	1290	3¼	1	28.35	28.35	6, 7, 5, 8
H160	16	2¾	70	70	1165	2½	1	28.35	28.35	6, 7, 5, 8
H200	20	2¾	70	70	1210	2½	7/8	23.39	23.39	6, 7, 5, 8
FEDERAL® GAME-SHOK® - FIELD TRIAL TRAINING LOADS										
FP12	12	2¾	70	70	-	-	-	-	-	-



	SLUG WEIGHT		MUZZLE	VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)					MUZZLE	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
	OUNCES	GRAINS		25 YDS.	50 YDS.	75 YDS.	100 YDS.	125 YDS.		25 YDS.	50 YDS.	75 YDS.	100 YDS.	125 YDS.	25 YDS.	50 YDS.	75 YDS.	100 YDS.	125 YDS.	
	1	438	1450	1350	1260	1190	1120	1070	2040	1775	1545	1365	1220	1105	1.6	2.5	2.0	◆	-3.7	30
	1¼	766	1280	1170	1090	1020	970	930	2785	2325	2000	1770	1600	1465	0.5	◆	-2.4	-6.8	-13.6	32
	1¼	547	1600	1460	1330	1220	1130	1060	3110	2570	2140	1800	1545	1360	0.3	◆	-1.5	-4.5	-9.1	30
	1	438	1610	1470	1340	1230	1140	1070	2520	2090	1745	1470	1260	1110	0.3	◆	-1.5	-4.4	-8.9	30
	1¼	547	1520	1390	1270	1170	1090	1030	2805	2330	1950	1660	1445	1290	0.3	◆	-1.7	-4.9	-10.0	30
	½	350	1600	1380	1210	1080	1000	930	1990	1490	1135	910	770	675	0.3	◆	-1.8	-5.4	-11.2	28
	¾	328	1600	1430	1280	1160	1070	1000	1865	1480	1190	975	830	730	0.3	◆	-1.6	-4.8	-10.0	26
	¼	109	1775	1540	1340	1180	1060	980	760	575	430	335	270	235	0.2	◆	-1.4	-4.4	-9.3	26

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.

Top Gun™ Target. For the volume shooter who needs consistent performance at a reasonable price, there's our Top Gun target load. Long a staple of the target shooting community, you're sure to break clay after clay with its superior performance and reliability. ➤

Strut-Shok™ Turkey. Turkey hunting is a pursuit of passion. Make sure you have the right load for the job. Strut-Shok is designed for the hunter who needs a hard-hitting load that's lighter on the pocketbook. ➤

Speed-Shok® Waterfowl. This load is built for performance with uniformly round pellets for tighter patterns. It also features high quality components and dense plastic wads with gas-sealing for maximum performance and efficiency. High output primers ensure dependability even in cold and wet conditions. ➤

FEDERAL® SHOTSHELL SPECIFICATIONS

FEDERAL LOAD NUMBER	GAUGE	SHELL LENGTH INCHES	MM	MUZZLE VELOCITY	DRAM EQUIV	SHOT CHARGE OUNCES	WEIGHT GRAMS	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
TG12	12	2¾	70	1200	3	1½	31.90	7.5, 8
TGL12	12	2¾	70	1145	2¾	1½	31.90	7.5, 8, 9
TG20	20	2¾	70	1210	2½	½	23.39	8, 9
FEDERAL® TOP GUN™ TARGET - SUBSONIC LOADS								
TGM123	12	2¾	70	900*	1%	1½	31.89	7.5
FEDERAL® TOP GUN™ TARGET - STEEL LOADS								
TG147	12	2¾	70	1145	-	1½	31.90	7
TG251	20	2¾	70	1210	-	½	21.26	7

*Sub-sonic

FEDERAL® SHOTSHELL SPECIFICATIONS

FEDERAL LOAD NUMBER	GAUGE	SHELL LENGTH INCHES	MM	MUZZLE VELOCITY	DRAM EQUIV	SHOT CHARGE OUNCES	WEIGHT GRAMS	SHOT SIZES
FEDERAL® STRUT-SHOK™ - TURKEY LOADS								
FT139	12	3½	89	1300	Mag.	2	56.70	4, 5, 6
FT158	12	3	76	1210	4	1½	53.16	4, 5, 6

FEDERAL® SHOTSHELL SPECIFICATIONS

FEDERAL LOAD NUMBER	GAUGE	SHELL LENGTH INCHES	MM	MUZZLE VELOCITY	SHOT CHARGE OUNCES	WEIGHT GRAMS	SHOT SIZES
FEDERAL® SPEED-SHOK® WATERFOWL - STEEL LOADS							
WF133	12	3½	89	1550	1½	38.98	BB, 2, 3
WF143	12	3	76	1550	1½	31.90	BB, 2, 3, 4
WF140	12	3	76	1400	1¼	35.44	BB, 2, 3, 4
WF146	12	2¾	70	1375	1	28.35	6, 7
WF147	12	2¾	70	1375	1½	31.90	BB, 2, 3, 4, 6
WF207	20	3	76	1300	¾	24.81	2, 4
New WF208	20	2¾	70	1425	¾	21.26	6, 7



ULTRAMATCH® FLASHBACK.

Did you know—Federal Premium® Gold Medal® UltraMatch loads once won two American shooters a gold and silver medal in the Olympics? Launi Meili and Bob Foth won gold and silver respectively in the 1992 Olympic games held in Barcelona, Spain. In doing so, they set two Olympic records and won the first set of medals for an American-made round since the Rome games in 1960.

We may no longer make this load, but the spirit of the moment still lives in every person here at the plant and every round of high-quality Gold Medal rimfire ammunition we produce. Relive the moment, enjoy the present with our improved Gold Medal load at 1200 feet per second. You may be having Olympic flashbacks yourself.



Building a new tradition of Rimfire excellence. Rimfire shooters range from competitive x-ring thumpers to varmint pursuers. No matter what your pursuit, our Premium® offerings have you covered. Our 17 HMR and 22 Win. Mag. loads provide explosive disruption with the likes of the V-Max tipped bullet and Speer® TNT® JHP. If you spend your spring days lying prone on the prairie, you'll want to give them a try. If you prefer a range setting, check out load number 719—it may not put you in the medal race at the Olympics, but at an optimum velocity of 1200 feet per second, you're sure to take home some hardware in autoloading competitions. ☺

FEDERAL PREMIUM® RIMFIRE SPECIFICATIONS

USAGE	FEDERAL LOAD NO.	CALIBER	BULLET WEIGHT IN GRAMS	
FEDERAL PREMIUM® V-SHOK®				
1	P770	17 HMR	17	1.10
1	P771	17 HMR	17	1.10
1	P765	22 Win. Magnum	30	1.94
FEDERAL PREMIUM® GOLD MEDAL®				
5	711B	22 Long Rifle	40	2.59
5	719	22 Long Rifle	40	2.59

Abbreviation Key: HP = Hollow Point, JHP = Jacketed Hollow Point **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



PREMIUM® V-SHOK® & GOLD MEDAL®



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 100 YARDS. SIGHTS 1.5 INCHES ABOVE BORE LINE.					
	MUZZLE	50 YDS.	75 YDS.	100 YDS.	MUZZLE	50 YDS.	75 YDS.	100 YDS.	50 YDS.	100 YDS.	150 YDS.	50 YDS.	100 YDS.	150 YDS.	50 YDS.	100 YDS.	150 YDS.
Speer TNT JHP	2530	2150	1800	1500	240	175	125	85	0.9	3.8	9.4	◆	-0.4	-3.5	0.2	◆	-2.9
Hornady V-Max	2530	2190	1880	1610	240	180	135	95	0.8	3.3	8.1	◆	-0.3	-3.1	0.2	◆	-2.7
Speer TNT HP	2200	1780	1420	1160	320	210	135	90	1.3	6.0	14.7	◆	-1.3	-7.0	0.7	◆	-5.1
Solid	1080	990	930	880	105	90	75	70	1.1	4.2	8.9	◆	-7.3	-24.5	3.6	◆	-13.6
Solid	1200	1080	990	930	130	105	85	75	1.3	4.9	10.6	◆	-6.0	-20.8	3.0	◆	-11.8

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.



Shoot More. Spend Less. Federal® knows there are times when you just want to head to the range to do some plinking. Times like this don't necessarily require match-grade ammunition, but loads that are reliable, and affordable. Look for Federal Game-Shok, Champion™ and American Eagle® offerings to meet your needs. These are great high-volume options that will let you have extra money for upcoming competitions and hunts. These loads feature similar ballistics to our Premium® offerings and are useful for several applications. Whether your targets are paper, aluminum or the occasional varmint, Federal has an affordable option for you. ➤

FEDERAL® & AMERICAN EAGLE® RIMFIRE BALLISTICS

USAGE	FEDERAL LOAD NO.	CALIBER	BULLET WEIGHT IN	
			GRAINS	GRAMS
FEDERAL® CHAMPION™				
5	745*	22 Long Rifle	36	2.33
5	AM22**	22 Long Rifle	40	2.59
5	510	22 Long Rifle	40	2.59
5	737	22 Win. Magnum	40	2.59
FEDERAL® GAME-SHOK®				
1	716	22 Long Rifle	25	1.62
1	724	22 Long Rifle	31	2.01
1	712	22 Long Rifle	38	2.46
1	710	22 Long Rifle	40	2.59
1	810	22 Long Rifle	40	2.59
1	757	22 Win. Magnum	50	3.24
AMERICAN EAGLE®				
5	AE22	22 Long Rifle	38	2.46
5	AE5022	22 Long Rifle	40	2.59

Abbreviation Key: HP = Hollow Point, JHP = Jacketed Hollow Point **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, *525 Round Bulk Pack, **325 Round Bulk Pack

PREMIUM® PRIMERS

Gold Medal® Primers are manufactured to exacting tolerances, so if you load your own you know you're getting the same high-quality primer components and optimum ignition that make our Gold Medal cartridges the choice of match shooters everywhere. ➤

FEDERAL PREMIUM® PRIMER SPECIFICATIONS

FEDERAL LOAD NO.	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





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 100 YARDS. SIGHTS 1.5 INCHES ABOVE BORE LINE.					
	MUZZLE	50 YDS.	75 YDS.	100 YDS.	MUZZLE	50 YDS.	75 YDS.	100 YDS.	50 YDS.	100 YDS.	150 YDS.	50 YDS.	100 YDS.	150 YDS.	50 YDS.	100 YDS.	150 YDS.
Copper Plated HP	1260	1100	1000	930	125	95	80	70	1.5	5.7	12.2	◆	-5.6	-19.7	2.8	◆	-11.4
Solid	1200	1080	990	930	130	105	85	75	1.3	4.9	10.6	◆	-6.0	-20.8	3.0	◆	-11.8
Solid	1240	1100	1010	940	135	110	90	80	1.4	5.1	10.9	◆	-5.6	-19.7	2.8	◆	-11.2
Full Metal Jacket	1880	1570	1310	1120	315	220	155	110	1.4	5.8	13.6	◆	-2.1	-9.2	1.0	◆	-6.1
No. 12 Lead Bird Shot	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper Plated HP	1430	1200	1050	950	140	100	75	60	1.8	7.1	15.1	◆	-4.6	-16.9	2.3	◆	-10.1
Copper Plated HP	1260	1110	1010	940	135	105	85	75	1.5	5.5	11.7	◆	-5.5	-19.5	2.8	◆	-11.2
Copper Plated Solid	1240	1100	1010	940	135	110	90	80	1.4	5.1	10.9	◆	-5.6	-19.7	2.8	◆	-11.2
Copper Plated Solid	1240	1100	1010	940	135	110	90	80	1.4	5.1	10.9	◆	-5.6	-19.7	2.8	◆	-11.2
JHP	1530	1350	1200	1090	260	200	160	130	1.2	4.7	10.7	◆	-3.3	-12.7	1.6	◆	-7.7
Copper Plated HP	1260	1110	1010	940	135	105	85	75	1.5	5.5	11.7	◆	-5.5	-19.5	2.8	◆	-11.2
Solid	1240	1100	1010	940	135	110	90	80	1.4	5.1	10.9	◆	-5.6	-19.7	2.8	◆	-11.2

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.



FEDERAL® PRIMER SPECIFICATIONS

FEDERAL LOAD NO.	TYPE	USE	NOMINAL DIAMETER
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 and .410 gauge	.243

FEDERAL® WAD SPECIFICATIONS

FEDERAL LOAD NO.	TYPE	USE	NOMINAL DIAMETER
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 Gauge	1/2 oz. loads (shot cup only)	-



When you find a product that works—you want to tell the world about it. Federal Premium® offers an excellent line of gear for the hunter and shooter who knows Every Shot Counts®. Check out our line-up of clothing and accessories and place your order in the back of the catalog.

Show your Premium® Pride . . . by sporting your Shockwave™ today!

Look for the Federal Premium Shockwave as your sign of authentic Federal Premium gear. Federal Premium changed the face of ammunition packaging in 2003 and brought a whole new attitude to the ammunition shelf. This new attitude and our image is embodied in the Federal Premium Shockwave logo and a family of products branded under the SHOK™ family of names. These exciting changes continue to reflect the superior technology we put into every cartridge developed. Every box features the distinctive Shockwave logo along with important information on product application and performance.



A. Wind Shirt: You spend a lot of time outdoors and experience the toughest weather conditions in the field. With the Federal Premium wind shirt, you can get top-notch gear performance no matter where your day takes you. Cut the breeze and show your Shockwave with this new offering from the gear store.

\$59.95



B. Black Polo: Look sharp and professional with this 100% combed cotton polo. It is perfect for business casual events at the office, country club or range. Available in black and gray in sizes S-XXL.

\$24.95



C



D



E



F



G

C. Advantage® Max-4 HD™ Cap: Next time you head out to the field, make sure you take this durable, officially licensed hat. Stay hidden in a variety of terrain with the all-purpose Advantage® Max-4 HD™ pattern. This 6-panel cap is made of front heavyweight brushed twill fabric and features a Velcro® closure.

\$12.95

D. Khaki Cap: Perfect for the golf course, gun range or just out on the town, this hat works in all settings. Like its camo counterpart, it is heavyweight brushed twill with a Velcro® closure.

\$9.95

E. Stainless Steel Travel Tumbler: This rugged, dual-wall construction tumbler is perfect for any drink. Keep your drinks hot or cold with this 100% pure 18-8 stainless steel traveler. Prominently features Federal Premium® logo.

\$19.95

F. Olive Wood Folding Knife with Bead Blasted Drop Point Blade: Easy-open olive wood handle and liner locked, brushed stainless steel blade makes this knife perfect for the field. Federal Premium® logo featured on both the handland the 3" blade.

Dimensions: 6.75" open, 4" closed.

\$19.95

G. Counter pad: Use this large, soft pad the next time you clean your firearm. Heavy-duty canvas on one side makes it a great surface to clean and service your firearm. The inside features soft flannel lining and padding with pure cotton batting. Conveniently folds flat for storage.

Size: 12" x 48"

\$34.95



EMBOSSSED SHOCKWAVE DETAIL

A



C



BACK



B



FRONT

D

A. Dog Collar: This exciting offer from the Federal Premium® Gear store offers you a unique way to show your Shockwave™ and get a heavy-duty collar for your best friend. This 22-inch black leather dog collar comes with solid hardware that will hold up to years of field work.

\$14.95

B. Computer Brief Case: Use this Canyon™ outback-beige canvas case to tote your laptop when you're on the go. This stylish bag will protect your computer from the hazards of travel. It features dark brown leather trim and is embossed with "Federal Premium®".

Size: 16.5"L x 4.5"W x 11.5"H

\$129.95

C. Mesh Back Ball Cap: This mesh back hat with Black Cloud™ logo patch gives you a stylish camo hat that breathes well in warmer weather. It's ideal for early season hunts or just wearing around town. Hey, the trucker look is back. Climb in the driver's seat today and get on board with the Black Cloud buzz.

\$12.95

D. Long Sleeve T-shirt: This cool long sleeve T sports the Black Cloud logo, Realtree® camouflage down one sleeve and the rally call for waterfowlers nationwide—Drop Ducks Like Rain™. Get yours today and put the fear into ducks and geese.

\$29.95

GEAR ORDER FORM

Product	Qty.	Size	Color	Price
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Premium® Windshirt	_____	_____	_____	\$59.95
Black Cloud™ Long Sleeve Tee	_____	_____	_____	\$29.95
Black Cloud™ Hat	_____	_____	_____	\$12.95
Premium® Advantage® Max-4 HD™ Cap	_____	_____	_____	\$12.95
Premium® Khaki Cap	_____	_____	_____	\$9.95
Premium® Stainless Steel Travel Tumbler	_____	_____	_____	\$19.95
Premium® Valor® Olive Wood Folding Knife	_____	_____	_____	\$19.95
Premium® Counter Pad	_____	_____	_____	\$34.95
Premium® Computer Brief Case	_____	_____	_____	\$129.95
Premium® Dog Collar	_____	_____	_____	\$14.95

Merchandise Total	Shipping Charge
\$.01-\$10.00	\$5.90
\$10.01-\$20.00	\$6.90
\$20.01-\$30.00	\$7.90
\$30.01-\$40.00	\$8.70
\$40.01-\$50.00	\$9.45
\$50.01-\$75.00	\$9.95
\$75.01-\$100.00	\$10.85
\$100.01-\$150.00	\$11.95
\$150.01-\$200.00	\$13.90
\$200.01-\$300.00	\$15.20
\$300.01-\$400.00	\$18.00
\$400.01-\$500.00	\$22.85
\$500.01-\$600.00	\$27.75
\$600.01-\$700.00	\$32.75

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Merchandise Total \$ _____
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