

A hunter in camouflage gear, including a hat and a backpack, is walking through a field of tall, golden grass. In the background, there are rolling hills and mountains under a clear blue sky. A large, stylized circular graphic, composed of several overlapping, semi-transparent curved bands in shades of blue, green, and yellow, is superimposed over the landscape. The word "FEDERAL" is written in a bold, white, sans-serif font across the middle of the image, followed by the Federal logo, which consists of three curved lines forming a stylized 'F' shape.

FEDERAL



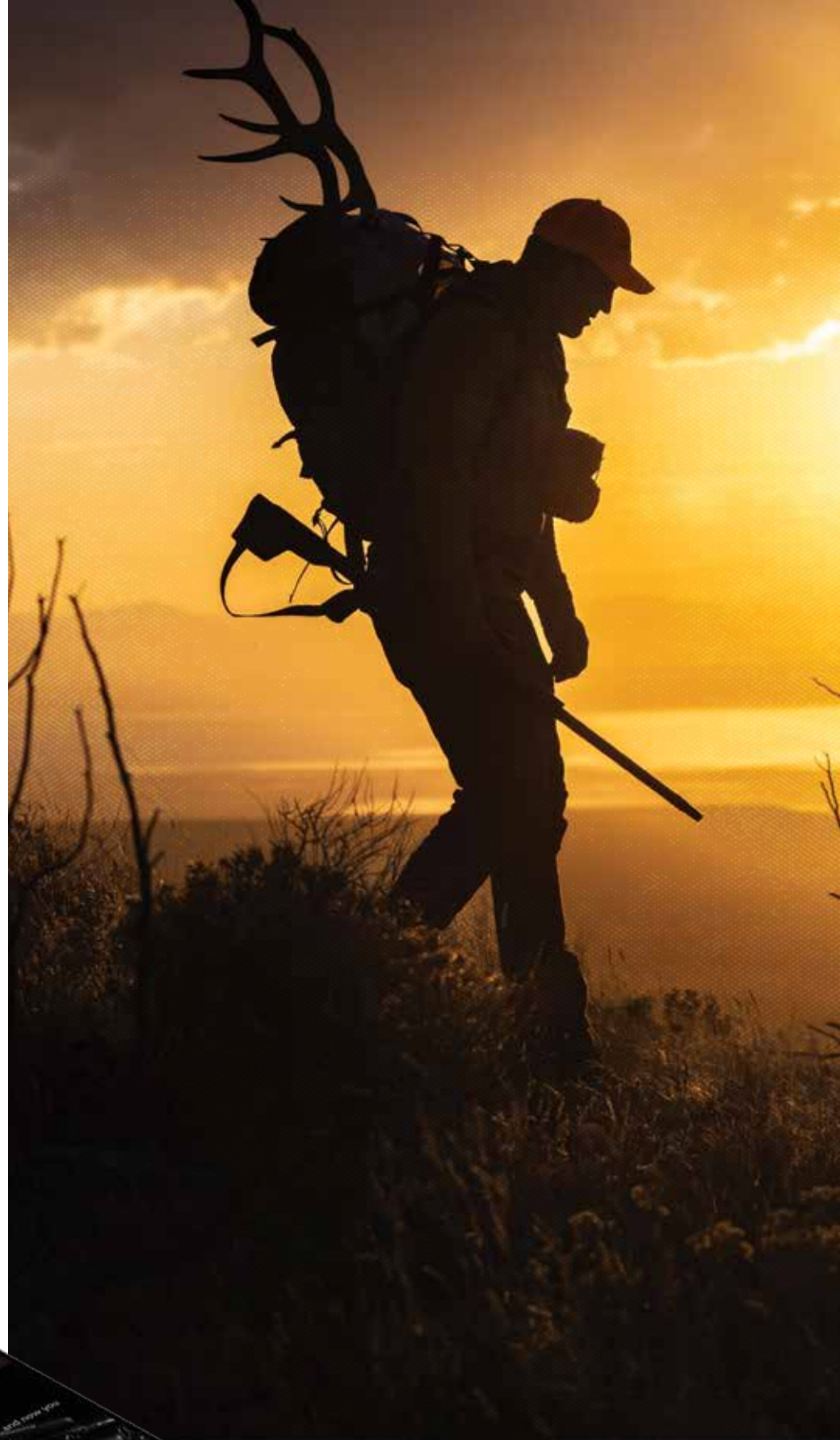
2023

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BUY FEDERAL DIRECT

We were the industry's first ammunition manufacturer to offer direct online sales. Today, you can check out your local retailer or shop online.



THE FEDERAL PROMISE

No matter how you shoot, every pull of the trigger has meaning and importance. It could be a life-and-death encounter, a freezer full of meat, a championship or just bragging rights. But whatever's at stake, we build ammunition that's up to the task, along with new products that keep pushing performance further. It's what we've been doing for more than a century, and we're proud to keep that tradition going strong in 2023. *As always, thank you for shooting Federal.*

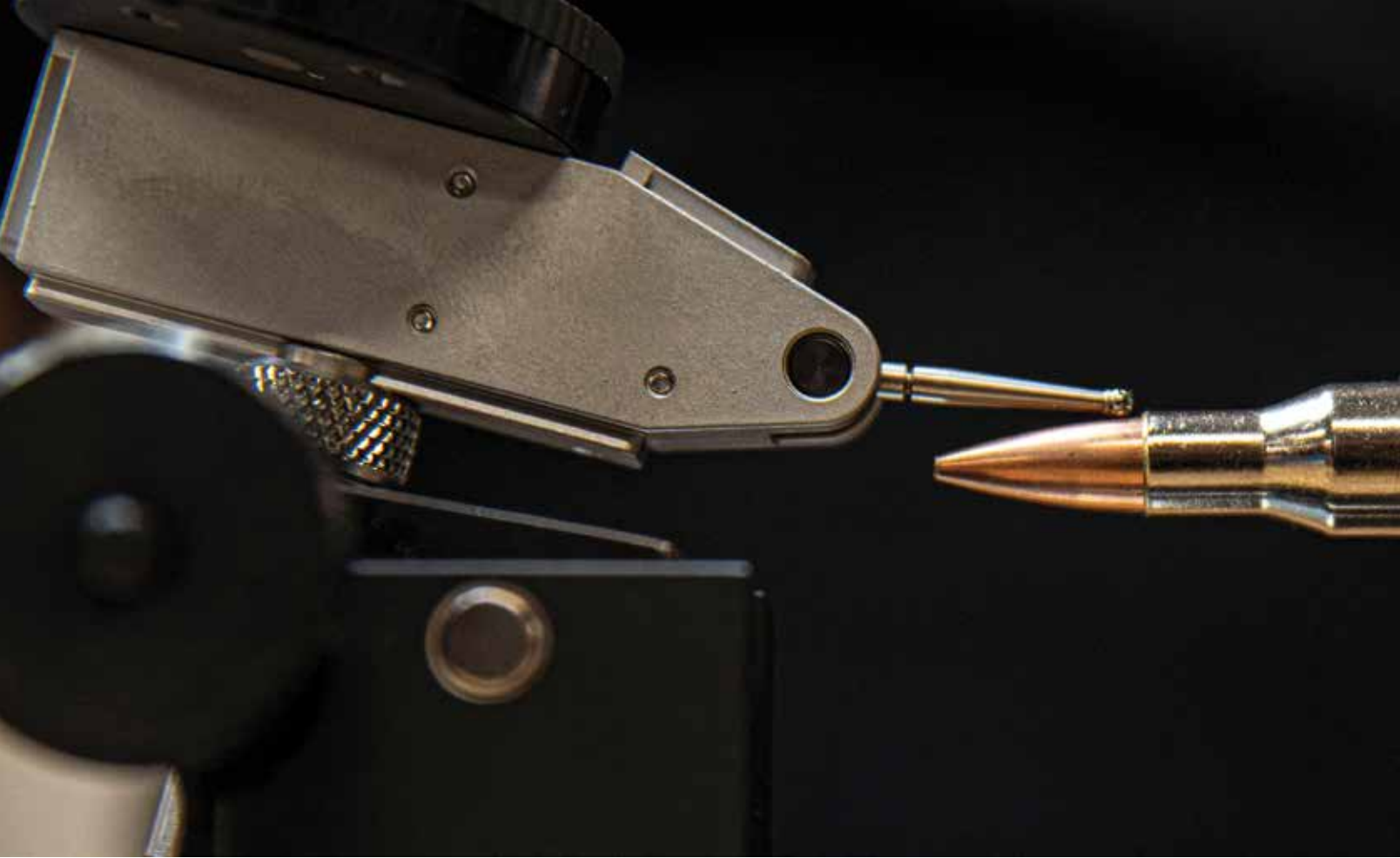
Federal Merchandise

We're happy to offer a wide selection of Federal-branded apparel and gear. Go to federalpremium.com to start your order.



Connect, Shoot, Share

We're connecting with thousands of fans every day through social media. Share your passion for all things shooting on Facebook, YouTube, Twitter, Instagram and TikTok.



FEDERAL CUSTOM SHOP

Every intimate detail of a great hunt combines to produce an experience as singular as the individual hunter—as personal as Federal Custom Shop™ ammunition. Our team of experts builds each round to order for results that are not merely accurate, but truly personalized to you, your firearm and your pursuit. These veteran craftsmen combine the best components with extra quality checks at every stage for the most consistent overall performance. Loads are then hand-checked for final inspection and cleaned before being custom-packed in durable, personalized packaging.



CUSTOM SHOP RIFLE

You'll find Federal Custom Shop centerfire rifle offerings in a wide selection of the best bullets from Federal®, Nosler®, Sierra®, Berger®, Swift® and more. Choose from a wide selection of bullet designs and dozens of cartridges built specifically for how you hunt and shoot.



CUSTOM SHOP SHOTSHELL

Precision payloads for any shotgun or application are just a few clicks away. Federal Custom Shop offers a full array of handloaded Tungsten Super Shot loads for waterfowl, upland and turkey hunters.



AMMUNITION TRULY
PERSONALIZED TO YOU,
YOUR FIREARM AND
YOUR PURSUIT

SPECIAL EDITION WAYPOINT 2020

The new Waypoint 2020 from Springfield Arms represents a whole new class of features and customization you won't find in other factory rifles. It's only fitting that Federal Custom Shop would offer loads built for the revolutionary platform. Choose from three special-edition Custom Shop offerings loaded with Terminal Ascent bullets and optimized for the best performance from the Waypoint rifle.



ROB ROBERTS EDITION

Patterns, precision and personalization have all come together. We collaborated with legendary choke tube designer Rob Roberts Custom Gunworks on Tungsten Super Shot loads that deliver optimal pattern density and downrange energy.

Start your order at federalpremium.com/custom-shop.

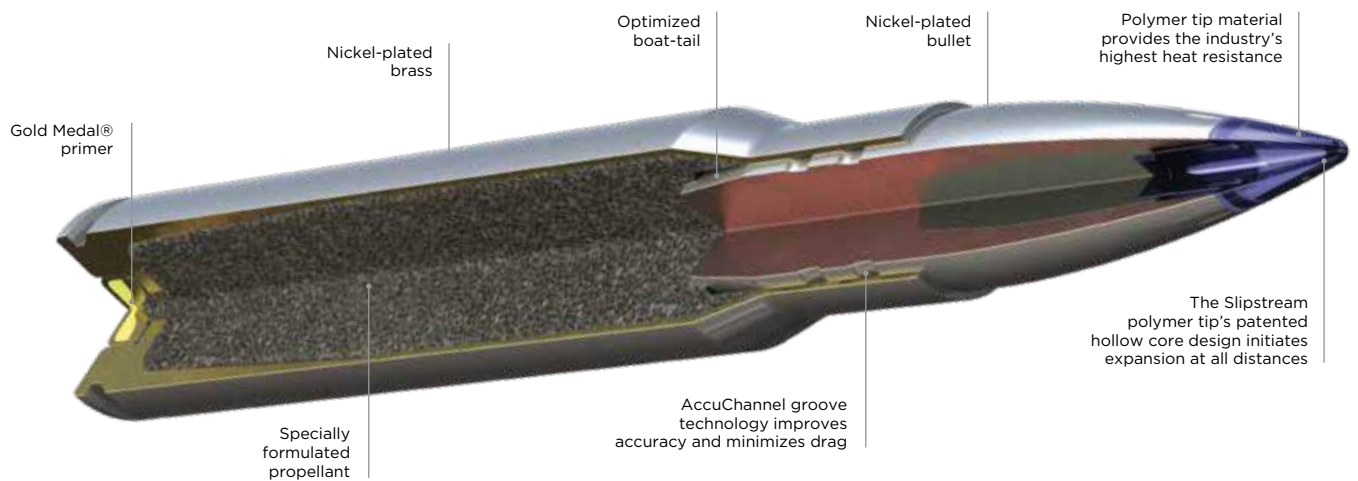


TERMINAL ASCENT NEW

Any hunt. Any range. Go beyond what you ever thought possible with Federal Premium® Terminal Ascent™. Bonded construction penetrates deep on close targets, while the bullet's long, sleek profile offers an extremely high ballistic coefficient, and its AccuChannel® groove technology improves accuracy and minimizes drag. **Available in a full selection of long-range hunting cartridges, and coming soon in 7mm PRC.**

Slipstream's Secret

The Slipstream tip provides a perfectly aerodynamic meplat, yet initiates expansion at velocities 200 fps lower than comparable bullets. The secret is its hollow core, which is exposed when the tip breaks off on impact, allowing target material into the bullet nose to start the expansion process.





Simply the best rifle bullet made. Period.

15 YARDS
85% Weight Retention
300 Win. Magnum

Moose



160 YARDS
96% Weight Retention
6.5 PRC

Whitetail Deer



400 YARDS
91% Weight Retention
7mm Rem. Magnum

Elk



997 YARDS
99% Weight Retention
300 Win. Magnum

Dryx



Slipstream tip

Penetration: Deep
Weight Retention: Maximum

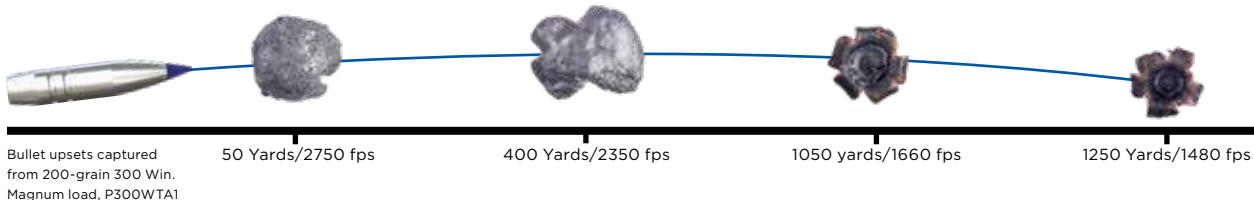
Expansion: Controlled
Range: Maximum

1,200-Yard Performance

The Terminal Ascent's Slipstream polymer tip ensures proper expansion during low-velocity impact at extreme distances. In this ballistics gel block, shot at 1,200-yard velocity with P300WSMTA1, you can see where the Slipstream tip has initiated expansion and separated from the bullet immediately after entering the block, exactly as designed.

"Every hunt, every animal deserves your best shot. Terminal Ascent gives you the accuracy, the effective range and the power to ensure any hunt is a success."

-REMI WARREN
GUIDE, WRITER, PHOTOGRAPHER,
VIDEOGRAPHER & TV HOST



Expansion Redefined: Lethal extreme-range bullet performance doesn't look like the 2x expansion hunters see at conventional distances—it's not supposed to. With petals that open instantly and peel back uniformly every time, the Terminal Ascent transfers more energy to the animal on impact and carves straight, deadly wound channels at all velocities.

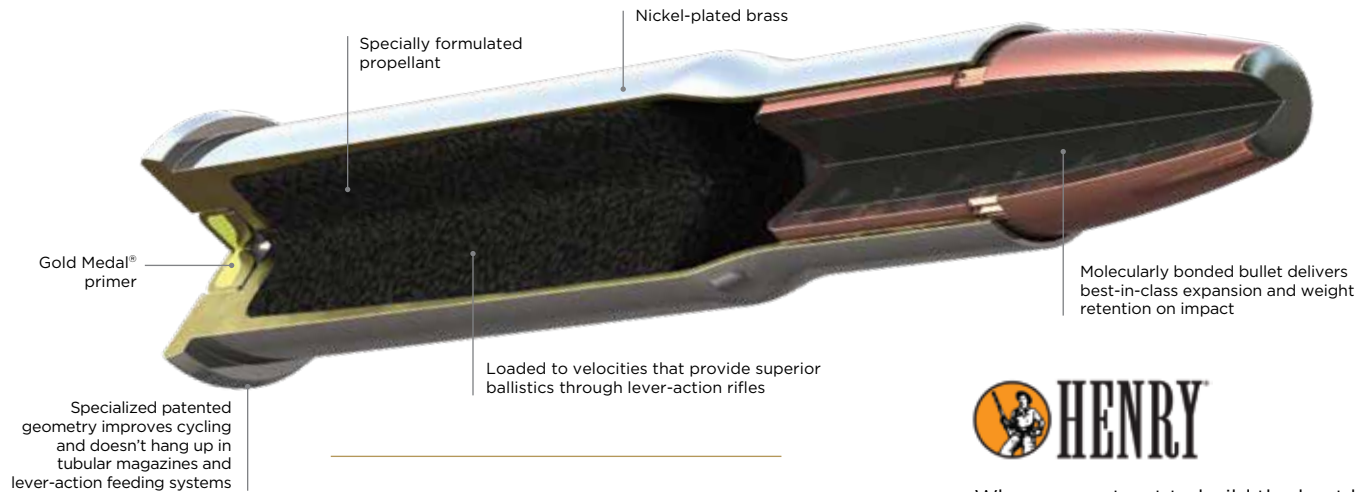
FOR A FULL LIST OF AVAILABLE LOADS AND BALLISTICS, REFER TO PAGES 17-28.

HUNTING RIFLE



HAMMERDOWN NEW

Make your lever-gun run like never before with the industry's only ammunition truly designed for optimal cycling and overall performance from the time-tested rifle platform. Velocities of Federal Premium® HammerDown™ loads are customized to produce superior ballistics and terminal performance through lever-action barrel lengths. The construction of the molecularly bonded soft point bullets has also been adjusted for the best accuracy and expansion at those velocities. The geometry of each round's case, bullet and cartridge ensures flawless cycling through tubular magazines and typical lever-action feeding systems. **Now available in a full line of the most popular lever-action cartridges, including new 360 Buckhammer, coming soon.**



The Ultimate Leverage

Whether you're putting your lever-gun to work on bucks, bulls or boars, HammerDown's molecularly bonded bullets are optimized for terminal performance through lever-action barrel lengths.



When you set out to build the best lever-action rifle ammunition, you go to the industry's leading lever-gun manufacturer. Federal is proud to have partnered with Henry Repeating Arms when developing HammerDown. Their insight into the classic firearm platform helped ensure the utmost reliability and accuracy from each and every load.



TROPHY BONDED TIP

Surgical accuracy. Terminal results. Trophy Bonded® Tip combines bonded construction and a bone-crushing solid copper shank with a boat-tail design and polymer tip that reduce wind resistance. The resulting toughness and accuracy make it a perfect choice for the full spectrum of medium and big game.



TROPHY COPPER NEW

Pinpoint precision and almost 100 percent weight retention have made Trophy® Copper an industry leader. All loads in the line provide extreme accuracy and aggressive expansion. **Now available in 120-grain 6.5 PRC and coming soon in 7mm PRC.**



TROPHY BONDED BEAR CLAW

The world's toughest game calls for its toughest bullet. The bonded jacket and core of Trophy Bonded® Bear Claw® retain more than 95 percent of the bullet's weight for deep penetration. The design's grooved shank improves accuracy across all rifle platforms. **Available in several loads with heavy-for-caliber bullets.**



NOSLER PARTITION

The Nosler® Partition® was the first bullet loaded in the Federal Premium® line, and it continues to be a standard for consistency and reliability. Its partitioned lead core allows the front half of the bullet to mushroom on impact, but keeps the back half intact for deep penetration.



SWIFT SCIROCCO II

Push effective range to new extremes while delivering a more lethal blow on impact with Federal Premium Swift® Scirocco® II loads. The polymer-tipped bullet's streamlined design and high ballistic coefficient produce flat trajectories, while retaining more velocity and energy downrange.

FOR A FULL LIST OF AVAILABLE LOADS AND BALLISTICS, REFER TO PAGES 17-28.

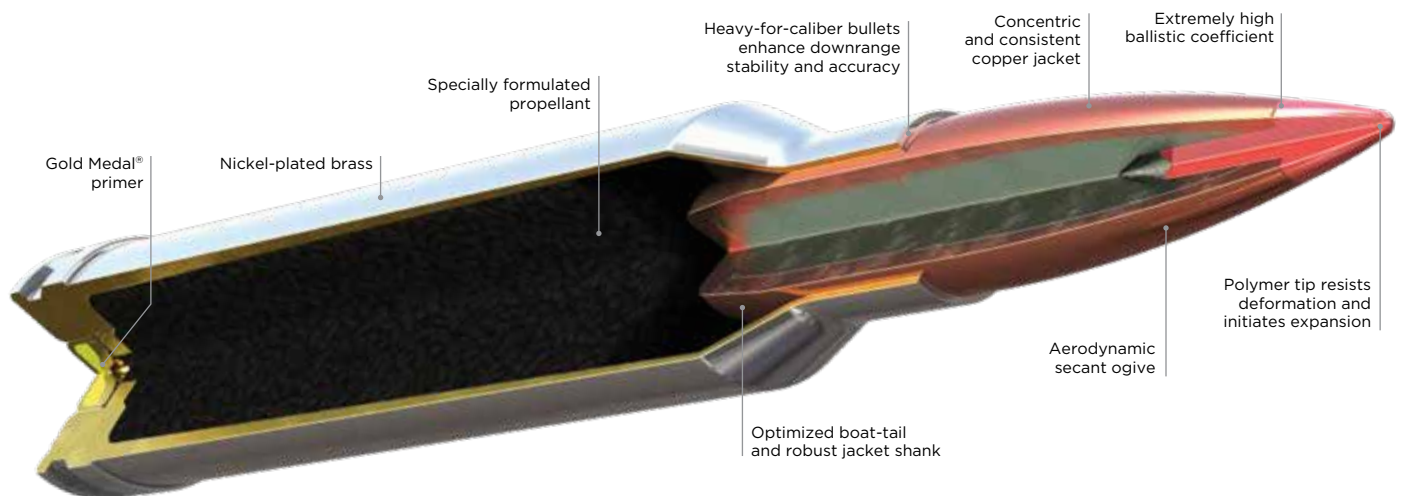
HUNTING RIFLE



NEW

HORNADY ELD-X

This match-accurate, hard-hitting hunting bullet features a high ballistic coefficient and offers effective expansion at a wide range of distances and velocities. The Hornady® ELD-X® uses a unique polymer tip that resists deformation to achieve the most consistent ballistics and initiate extreme-range expansion.





BARNES TSX

We've brought back this proven all-copper hollow point. The Barnes® TSX® groups tightly and delivers consistent, deep penetration. The monolithic design retains nearly 100 percent of its weight, and its grooved shank minimizes barrel fouling and improves accuracy.



BERGER HYBRID HUNTER

The profile of a match bullet. The versatility of a traditional hunting projectile. Berger® Hybrid Hunter bullet weights have been fine-tuned to provide exceptional accuracy through factory rifles. Ballistic coefficients exceed those of comparable designs thanks to a hybrid nose design that combines tangent and secant ogive features.



FUSION NEW

Fusion® was the first rifle ammunition specifically built for deer hunting and it's still the best, offering the largest expansion and highest weight retention in head-to-head comparisons against the competition. Its concentric jacket is molecularly bonded to the lead core. **Now available in 140-grain 6.5 PRC.**



FUSION MSR

The modern sporting rifle is a highly adapted hunting machine, and it needs ammunition that's just as customized. From primer to projectile, virtually every component is optimized for use in MSR platforms and peak ballistic performance through short barrels.



POWER-SHOK

The only tag these loads won't fill is the price tag. The jacketed lead-core bullets in Power-Shok® rifle loads fly straight and knock down a wide variety of medium and big game. **Available in the widest selection of loads.**



POWER-SHOK COPPER

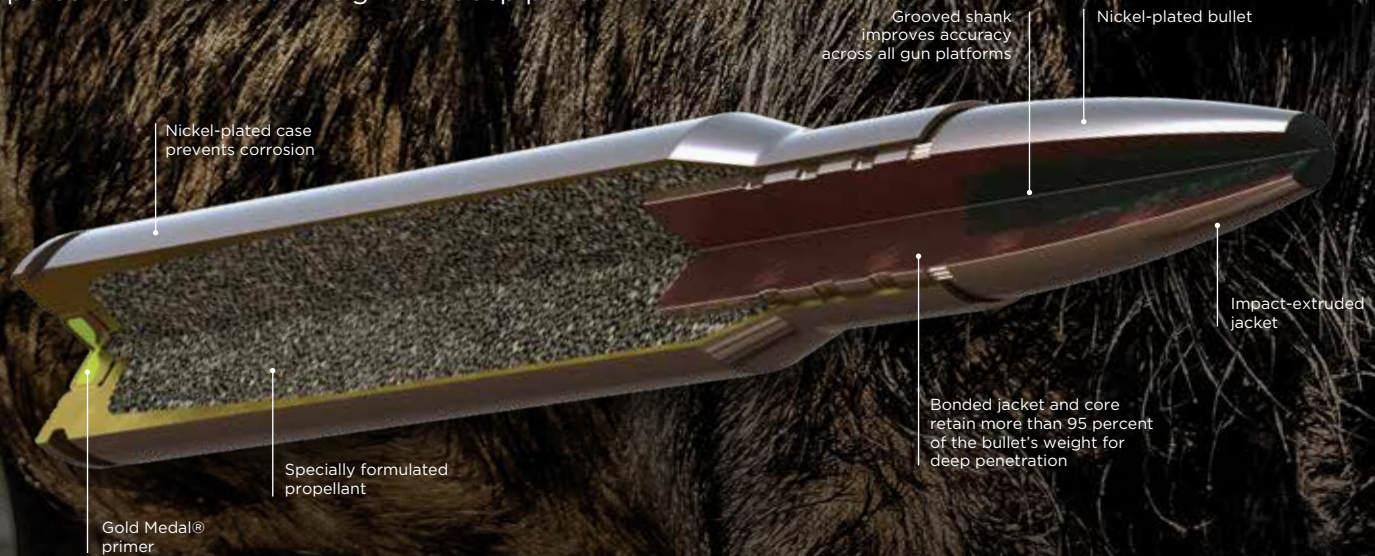
Practical hunters trust Power-Shok® rifle ammunition to fill freezers. Power-Shok Copper provides that same consistency and value, yet with a hollow-point, copper-alloy bullet that creates large wound channels.

FOR A FULL LIST OF AVAILABLE LOADS AND BALLISTICS, REFER TO PAGES 17-28.



TROPHY BONDED BEAR CLAW

The world-famous Trophy Bonded® Bear Claw® has proven its reliability on large, heavy game from Africa to Alaska and everywhere in between. Its bonded jacket and core retain more than 95 percent of the bullet's weight for deep penetration.



Bear Attack

Although the rear core of the Trophy Bonded Bear Claw stays intact on impact, the nose upsets aggressively for large wound channels. Gel shot with 300-grain 375 H&H Magnum (P375T1) at 100 yards.

Penetration: Deep
Weight Retention: Maximum

Expansion: High/Controlled
Range: Medium



TROPHY BONDED SLEDGEHAMMER SOLID

The legendary Trophy Bonded® Sledgehammer® Solid bonds its core to a thick brass jacket for bone-crushing penetration. Its flat nose minimizes deflection to create a straight, deep wound cavity, and the grooved shank improves accuracy across an array of rifle platforms.



SWIFT A-FRAME

Those who hunt game that hunts back trust their lives to Federal Premium® Swift® A-Frame® loads. The bullet features a bonded front lead core and rear core separated by a progressively tapered jacket. The front core expands while the rear remains intact for high weight retention and deep penetration.



Proven From Africa To Alaska

The solid core of the Trophy Bonded Bear Claw allows the bullet to penetrate deep—even through the world's toughest game.

WOODLEIGH HYDRO SOLID

When targeting the largest and most dangerous game, hunters have long relied on solid, non-expanding bullets that blow through bone and thick hide. Woodleigh Hydro Solid loads offer that same unstoppable penetration while also creating a massive wound channel and large entry cavity that won't close.

FOR A FULL LIST OF AVAILABLE LOADS AND BALLISTICS, REFER TO PAGES 17-28.

VARMINT RIFLE



VARMINT & PREDATOR V-MAX

Now there are even more options for putting down everything from prairie dogs to coyotes. We've recently added 55-grain 22-250 Rem. and 75-grain 243 Win. loads to the Federal® Varmint & Predator lineup. Both bring the accuracy and explosive expansion of the proven Hornady® V-Max® bullet, loaded with our extremely reliable brass, primer and propellant. **Available in 20-count boxes.**



Ready To Explode

The V-Max bullet's polymer tip is carefully positioned over a hollow nose cavity to initiate violent fragmentation of the jacket and swaged lead core.



V-Max is a registered trademark of Hornady.



SPEER TNT GREEN

The only thing cleaner are the kills. Speer® TNT® Green® features a lead-free bullet that couples devastating terminal performance with match-grade accuracy. The thin jacket and compressed powdered core provide explosive expansion on varmints.



Download Ballistic

Check out Ballistic, the industry's No. 1 ballistics app for Apple devices. Powered by the world-renowned JBM Ballistics computer, the app calculates trajectory, windage, velocity, energy, lead, and bullet flight time for any valid range. Ballistic can compensate for atmospheric conditions such as temperature, barometric pressure, humidity and altitude.

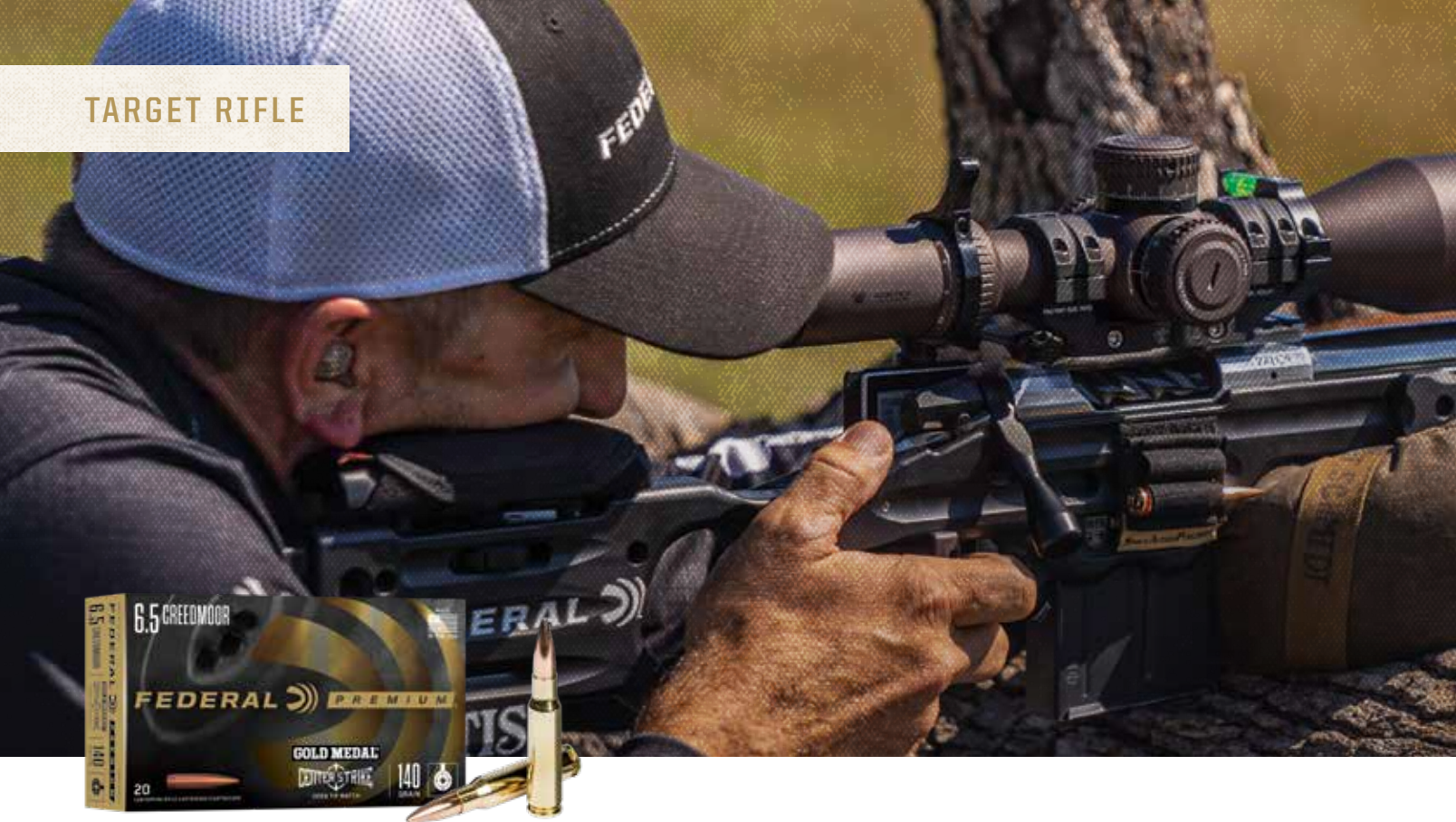
With a library of more than 5,000 projectiles and factory loads, GPS and atmosphere awareness, full-size charts, a precision target log, and much more, Ballistic is a complete precision marksman tool.



Learn more and start your download today.

FOR A FULL LIST OF AVAILABLE LOADS
AND BALLISTICS, REFER TO PAGES 17-28.

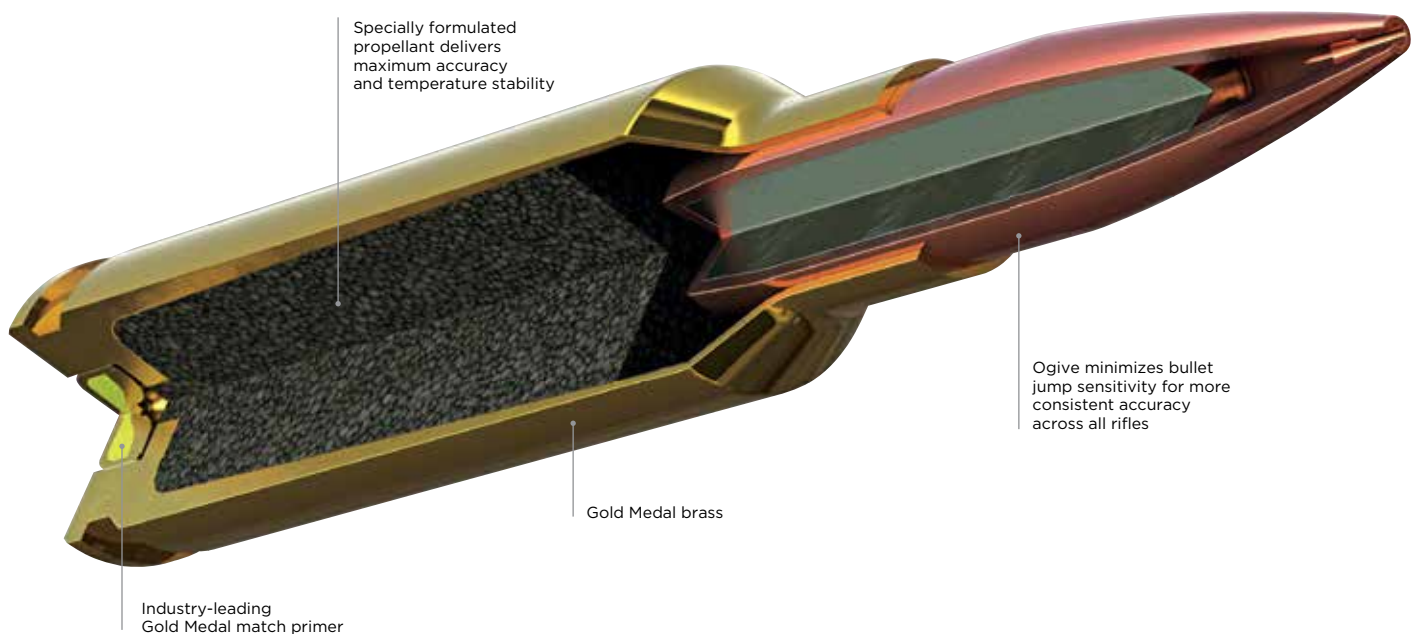
TARGET RIFLE



GOLD MEDAL CENTERSTRIKE™ NEW

Introducing an all-new way to truly go the distance. Gold Medal CenterStrike's proprietary open tip match bullet has a sleek profile and is held to extremely tight specifications for the ultimate long-range accuracy and consistency.

Now available in 308 Win., 6.5 Creedmoor and 223 Rem.





GOLD MEDAL BERGER

The most sought-after bullets among competitors on the Precision Rifle Series are now loaded into the industry's most trusted factory rifle ammunition. Gold Medal® Berger® loads feature an advanced boat-tail bullet with a high ballistic coefficient to provide the flattest trajectories, least wind drift and best long-range accuracy.



GOLD MEDAL SIERRA MATCHKING

Long range isn't just a distance. It's why we build these loads. The precision-built Sierra® MatchKing® bullet is shot to win more matches than any other rifle bullet, and our exclusive primer design provides the best sensitivity and most consistent ballistics in the industry.



"The quality, control and consistency of Federal's Gold Medal match is simply unparalleled. It's factory ammunition with the precision and low standard deviation of handloads."

-JIM GILLILAND
SNIPER SECTION LEADER
& COMPETITIVE LONG-RANGE SHOOTER



AMERICAN EAGLE

Quality bullets, reloadable brass cases and dependable primers mean range-ready accuracy.

FOR A FULL LIST OF AVAILABLE LOADS AND BALLISTICS, REFER TO PAGES 17-28.



RIFLE BALLISTICS

Abbreviation Key: BTHP = boat-tail hollow point; BTSP = boat-tail soft point; FN = flat nose; LRN = lead round nose; LSW = lead semi-wadcutter; LW = lead wadcutter; SWC = semi-wadcutter; SWHP = semi-wadcutter hollow point; CB = conical ball reduced power/noise; FP = flat point; CP = copper-plated; L = lead; J = jacketed; HP = hollow point; RN = round nose; SHP = segmented hollow-point; SP = soft point; FMJ = full metal jacket; TSJ = total synthetic jacket; TMF = toxic-metal-free; TMJ = totally encapsulated bullet; V = vented barrel; HE = high energy (not for use in semi-automatic rifles); † = not for revolvers; ◊ = nickel-plated case; CLM = cartridge length longer than SAAMI max, may not fit in all magazines. *Molycoat: molybdenum disulfide dry film lubricant

Federal Premium® Rifle

ATT.	USAGE	FEDERAL LOAD NO.	CARTRIDGE	BULLET WEIGHT IN		BULLET STYLE	GOLD MEDAL PRIMER	BALLISTIC COEFFICIENT		VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)								
				GRAINS	GRAMS			G1	G7	MUZZLE	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.			
FEDERAL PREMIUM VARMINT & PREDATOR																		
◊	1	P22D	22 HORNET	30	1.94	SPEER TNT GREEN	X	0.090		3150	2154	1387	990	828	715			
◊	1	P222D	222 REM.	43	2.79	SPEER TNT GREEN	X	0.151		3400	2745	2176	1683	1290	1048			
◊	1	P22250D	22-250 REM.	43	2.79	SPEER TNT GREEN	X	0.151		4000	3252	2618	2065	1590	1224			
FEDERAL PREMIUM GOLD MEDAL®																		
	5	GM223M	223 REM.	69	4.47	SIERRA MATCHKING BTHP	X	0.301	0.165	2950	2642	2353	2084	1832	1604			
	5	GM223BH73	223 REM.	73	4.73	BERGER BT TARGET	X	0.348	0.178	2800	2541	2296	2065	1847	1648			
	5	GM223M3	223 REM.	77	4.99	SIERRA MATCHKING BTHP	X	0.372	0.188	2720	2481	2255	2041	1838	1652			
NEW	5	GM223OTM3	223 REM.	77	4.99	CENTERSTRIKE OTM	X	0.356	0.183	2720	2471	2235	2012	1803	1612			
	5	GM224VLKBH2	224 VALKYRIE	80.5	5.22	BERGER BT TARGET	X	0.441	0.226	2925	2713	2512	2318	2134	1958			
	5	GM224VLK1	224 VALKYRIE	90	5.83	SIERRA MATCHKING BTHP	X	0.563	0.274	2700	2542	2388	2241	2098	1961			
	5	GM6CRDBH1	6MM CREEDMOOR	105	6.8	BERGER HYBRID	X	0.536	0.275	3025	2846	2674	2509	2350	2196			
	5	GM6CRDM1	6MM CREEDMOOR	107	6.93	SIERRA MATCHKING BTHP	X	0.547	0.271	3000	2826	2658	2497	2341	2191			
	5	GM6CRDLRHT1	6MM CREEDMOOR	109	7.06	BERGER HYBRID	X	0.568	0.292	2975	2808	2647	2492	2342	2197			
	5	GM65CRDBH130	6.5 CREEDMOOR	130	8.42	BERGER HYBRID OTM	X	0.560	0.287	2825	2661	2503	2351	2204	2062			
	5	GM65CRD1	6.5 CREEDMOOR	140	9.07	SIERRA MATCHKING BTHP	X	0.535	0.261	2675	2509	2350	2196	2048	1905			
	5	GM65CRDBH2	6.5 CREEDMOOR	140	9.07	BERGER HYBRID	X	0.607	0.311	2725	2577	2434	2295	2161	2031			
NEW	5	GM65CRDOTM1	6.5 CREEDMOOR	140	9.07	CENTERSTRIKE OTM	X	0.554	0.285	2675	2515	2360	2211	2068	1929			
	5	GM65PRCBH1	6.5 PRC	140	9.07	BERGER HYBRID	X	0.607	0.311	2925	2770	2621	2476	2336	2201			
	5	GM308M	308 WIN.	168	10.89	SIERRA MATCHKING BTHP	X	0.462	0.224	2650	2460	2277	2103	1936	1778			
NEW	5	GM308OTM1	308 WIN.	168	10.89	CENTERSTRIKE OTM	X	0.450	0.221	2650	2455	2268	2089	1918	1758			
NEW	5	GM308OTM2	308 WIN.	175	11.34	CENTERSTRIKE OTM	X	0.505	0.257	2600	2427	2262	2102	1949	1803			
	5	GM308M2	308 WIN.	175	11.34	SIERRA MATCHKING BTHP	X	0.505	0.250	2600	2427	2262	2102	1949	1803			
	5	GM308BH185	308 WIN.	185	11.99	BERGER JUGGERNAUT OTM	X	0.552	0.283	2600	2442	2289	2143	2001	1864			
	5	GM3006M	30-06 SPRING.	168	10.89	SIERRA MATCHKING BTHP	X	0.463	0.224	2700	2508	2324	2148	1980	1819			
	5	GM300WM	300 WIN. MAGNUM	190	12.31	SIERRA MATCHKING BTHP	X	0.533	0.275	2900	2725	2557	2395	2239	2089			
	5	GM300WMBH1	300 WIN. MAGNUM	215	13.93	BERGER HYBRID	X	0.691	0.354	2825	2692	2563	2437	2315	2196			
	5	GM338LM	338 LAPUA MAG	250	16.2	SIERRA MATCHKING BTHP	X	0.587	0.318	2950	2789	2634	2484	2339	2199			
	5	GM338LM2	338 LAPUA MAG	300	19.44	SIERRA MATCHKING BTHP	X	0.768	0.387	2580	2466	2355	2248	2143	2040			



Download Ballistic



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; 7 = competition shooting; 8 = pest control; 9 = low noise, training, specialty.

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.

Table with columns: MUZZLE, 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, AVERAGE RANGE, and TEST BARREL LENGTH INCHES. Rows list various ammunition loads with their performance metrics at 100, 200, 300, 400, and 500 yards.

RIFLE BALLISTICS

Abbreviation Key: BTHP = boat-tail hollow point; BTSP = boat-tail soft point; FN = flat nose; LRN = lead round nose; LSW = lead semi-wadcutter; LW = lead wadcutter; SWC = semi-wadcutter; SWHP = semi-wadcutter hollow point; CB = conical ball reduced power/noise; FP = flat point; CP = copper-plated; L = lead; J = jacketed; HP = hollow-point; RN = round nose; SHP = segmented hollow-point; SP = soft point; FMJ = full metal jacket; TSJ = total synthetic jacket; TMF = toxic-metal-free; TMJ = totally encapsulated bullet; V = vented barrel; HE = high energy (not for use in semi-automatic rifles); † = not for revolvers; ◇ = nickel-plated case; CLM = cartridge length longer than SAAMI max, may not fit in all magazines. *Molycoat: molybdenum disulfide dry film lubricant

Federal Rifle

ATT	USAGE	FEDERAL LOAD NO.	CARTRIDGE	BULLET WEIGHT IN		BULLET STYLE	MUZZLE	VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)				
				GRAINS	GRAMS			100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.
FEDERAL POWER+SHOK®												
1		222A	222 REM.	50	3.24	SP	3140	2626	2166	1755	1408	1152
1		223A	223 REM.	55	3.56	SP	3240	2800	2400	2035	1705	1420
2		223L	223 REM.	64	4.15	SP	3050	2682	2342	2027	1740	1485
1		22250A	22-250 REM.	55	3.56	SP	3650	3136	2679	2264	1888	1558
2		243AS	243 WIN.	80	5.18	SP	3330	3051	2790	2543	2309	2088
2		24385LFA	243 WIN.	85	5.51	COPPER HP	3200	2783	2403	2054	1737	1459
2		243B	243 WIN.	100	6.48	SP	2960	2697	2448	2213	1991	1783
2		6B	6MM REM.	100	6.48	SP	3100	2827	2571	2329	2100	1883
2		2506BS	25-06 REM.	117	7.58	SP	3030	2767	2519	2283	2061	1851
2		65CRDB	6.5 CREEDMOOR	140	9.07	SP	2725	2522	2327	2142	1964	1796
2		6555B	6.5X55 SWEDISH	140	9.07	SP	2650	2450	2258	2075	1900	1736
2		270A	270 WIN.	130	8.42	SP	3060	2803	2560	2329	2111	1904
2		270130LFA	270 WIN.	130	8.42	COPPER HP	3060	2729	2422	2135	1867	1625
2		270B	270 WIN.	150	9.72	SPRN	2830	2486	2166	1871	1606	1374
2		270WSME	270 WIN. SHORT MAGNUM	130	8.42	SP	3250	2978	2722	2480	2251	2034
2		7B	7MM MAUSER	140	9.07	SP	2660	2454	2256	2069	1889	1722
2		7A	7MM MAUSER	175	11.34	SPRN	2390	2090	1812	1564	1348	1177
2		708CS	7MM-08 REM.	150	9.72	SP	2650	2438	2235	2043	1859	1689
2		280B	280 REM.	150	9.72	SP	2890	2667	2455	2253	2060	1877
2		7RA	7MM REM. MAGNUM	150	9.72	SP	3110	2841	2587	2347	2120	1905
3		7RB	7MM REM. MAGNUM	175	11.34	SP	2860	2646	2441	2246	2060	1882
2		7WSME	7MM WIN. SHORT MAGNUM	150	9.72	SP	3100	2831	2578	2338	2112	1898
1		30CA	30 CARBINE	110	7.13	SPRN	1990	1564	1231	1031	919	839
2		300BLK120LFA	300 BLACKOUT	120	7.78	COPPER HP	2100	1799	1533	1307	1136	1024
2		300BLKB	300 BLACKOUT	150	9.72	SP	1900	1685	1490	1320	1181	1079
2		76239B	7.62X39MM SOVIET	123	7.97	SP	2350	2055	1783	1539	1329	1164
1		3030C	30-30 WIN.	125	8.1	HP	2570	2083	1656	1309	1079	952
2		3030A	30-30 WIN.	150	9.72	SPFN	2390	2019	1686	1399	1179	1037
2		3030B	30-30 WIN.	170	11.02	SPRN	2200	1894	1619	1380	1191	1060
2		300A	300 SAVAGE	150	9.72	SP	2630	2353	2094	1850	1629	1430
2		300B	300 SAVAGE	180	11.66	SP	2350	2137	1934	1745	1571	1412
2		308A	308 WIN.	150	9.72	SP	2820	2532	2261	2007	1771	1557
2		308150LFA	308 WIN.	150	9.72	COPPER HP	2820	2497	2195	1915	1661	1434
2		308B	308 WIN.	180	11.66	SP	2570	2345	2131	1929	1740	1565
1		3006CS	30-06 SPRING.	125	8.1	SP	3140	2779	2446	2136	1850	1593
2		3006A	30-06 SPRING.	150	9.72	SP	2910	2616	2340	2081	1839	1619
2		3006150LFA	30-06 SPRING.	150	9.72	COPPER HP	2910	2580	2273	1988	1725	1491
2		3006B	30-06 SPRING.	180	11.66	SP	2700	2470	2252	2045	1848	1667
2		3006HS	30-06 SPRING.	220	14.26	SP	2400	2120	1859	1623	1412	1238
2		300WGS	300 WIN. MAGNUM	150	9.72	SP	3150	2898	2661	2435	2221	2017
3		300WBS	300 WIN. MAGNUM	180	11.66	SP	2960	2746	2542	2346	2160	1982
3		300W180LFA	300 WIN. MAGNUM	180	11.66	COPPER HP	2960	2693	2441	2203	1979	1769
3		300WSMC	300 WIN. SHORT MAGNUM	180	11.66	SP	2980	2736	2504	2284	2075	1877
3		300WSM180LFA	300 WIN. SHORT MAGNUM	180	11.66	COPPER HP	2950	2684	2432	2195	1971	1761
2		303B	303 BRITISH	150	9.72	SP	2690	2442	2208	1988	1780	1590
2		303AS	303 BRITISH	180	11.66	SP	2460	2206	1966	1744	1542	1363
2		32A	32 WIN. SPECIAL	170	11.02	SPFN	2250	1923	1630	1376	1179	1047
2		338FJ	338 FEDERAL	200	12.96	SP	2700	2484	2278	2082	1895	1721
2		8A	8MM MAUSER	170	11.02	SP	2250	2025	1814	1620	1444	1292
2		C357G	357 MAGNUM	180	11.66	HP	1550	1282	1095	982	904	841
2		35A	35 REM.	200	12.96	SPRN	2080	1697	1374	1138	999	910
2		350LA	350 LEGEND	180	11.66	SP	2100	1793	1520	1292	1123	1013
		360BHAS	360 BUCKHAMMER	180	11.66	SP	2,374	1,917	1,522	1,216	1,031	924
		360BHBS	360 BUCKHAMMER	200	12.96	SP	1,197	1,777	1,421	1,157	1,003	908
3		375A	375 H&H MAGNUM	270	17.5	SP	2690	2418	2162	1922	1700	1500
3		375B	375 H&H MAGNUM	300	19.44	SP	2530	2267	2021	1790	1581	1394
2		C44A	44 REM. MAGNUM	240	15.55	HP	1760	1387	1123	978	885	813
2		4570AS	45-70 GOVERNMENT	300	19.44	HP	1850	1612	1400	1226	1097	1010
2		450BMB	450 BUSHMASTER	300	19.44	SP	1900	1602	1346	1153	1028	945



RIFLE BALLISTICS

Abbreviation Key: BTHP = boat-tail hollow point; BTSP = boat-tail soft point; FN = flat nose; LRN = lead round nose; LSW = lead semi-wadcutter; LW = lead wadcutter; SWC = semi-wadcutter; SWHP = semi-wadcutter hollow point; CB = conical ball reduced power/noise; FP = flat point; CP = copper-plated; L = lead; J = jacketed; HP = hollow-point; RN = round nose; SHP = segmented hollow-point; SP = soft point; FMJ = full metal jacket; TSJ = total synthetic jacket; TMF = toxic-metal-free; TMJ = totally encapsulated bullet; V = vented barrel; HE = high energy (not for use in semi-automatic rifles); † = not for revolvers; ◊ = nickel-plated case; CLM = cartridge length longer than SAAMI max, may not fit in all magazines. *Molycoat: molybdenum disulfide dry film lubricant

Federal Rifle

USAGE	FEDERAL LOAD NO.	CARTRIDGE	BULLET WEIGHT IN		BULLET STYLE	MUZZLE	VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)				
			GRAINS	GRAMS			100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.
FEDERAL VARMINT & PREDATOR											
1	AE17H20TVP	17 HORNET	20	1.3	TIPPED VARMINT	3610	3042	2541	2092	1694	1361
1	AE22H35TVP	22 HORNET	35	2.27	TIPPED VARMINT	3000	2188	1526	1094	908	795
1	V204VM32	204 RUGER	32	2.07	HORNADY® V-MAX®	4100	3536	3040	2596	2193	1827
1, 5	AE22350VP	223 REM.	50	3.24	JHP	3325	2839	2402	2006	1653	1355
1	V223VM53	223 REM.	53	3.43	HORNADY V-MAX	3400	3046	2720	2416	2132	1868
1	V224VLKM60	224 VALKYRIE	60	3.89	HORNADY V-MAX	3300	2923	2577	2255	1958	1687
1	V22250VM2	22-250 REM.	55	3.56	HORNADY V-MAX	3670	3244	2858	2504	2176	1873
1, 5	AE22250VP	22-250 REM.	50	3.24	JHP	3850	3303	2819	2384	1990	1639
1	AE24375VP	243 WIN.	75	4.86	JHP	3375	2943	2551	2191	1861	1569
1	V243VM75	243 WIN.	75	4.86	HORNADY V-MAX	3425	3111	2819	2545	2286	2044
1	AE65GDL90VP	6.5 GRENDDEL	90	5.83	SPEER TNT	3000	2641	2309	2002	1721	1472
1	V65CRDVM95	6.5 CREEDMOOR	95	6.16	HORNADY V-MAX	3300	3023	2763	2518	2285	2065
1	AE6890VP	6.8 SPC	90	5.83	JACKETED HOLLOW POINT	2990	2651	2335	2043	1772	1530
1	V308VM10	308 WIN.	110	7.13	HORNADY V-MAX	3300	2954	2635	2336	2058	1799
1	AE308130VP	308 WIN.	130	8.42	JHP	3050	2691	2359	2052	1769	1516
1	V76239VP1	7.62X39MM SOVIET	130	8.42	JACKETED HOLLOW POINT	2300	1997	1720	1473	1269	1116

American Eagle Rifle

AMERICAN EAGLE											
5	AE5728A	5.7X28 MM	40	2.59	TMJ	2250	1606	1151	942	825	735
1, 5	AE223G	223 REM.	50	3.24	JHP	3325	2839	2402	2006	1653	1355
5	AE223	223 REM.	55	3.56	FMJ BT	3240	2874	2536	2222	1931	1667
5	AE223N	223 REM.	62	4.02	FMJ BT	3020	2713	2426	2156	1904	1674
5	AE223T75	223 REM.	75	4.86	TMJ	2775	2550	2336	2132	1938	1756
5	AE224VLK1	224 VALKYRIE	75	4.86	TMJ	3000	2763	2539	2325	2122	1929
1, 5	AE22250G	22-250 REM.	50	3.24	JHP	3850	3303	2819	2384	1990	1639
5	AE65GDL1	6.5 GRENDDEL	120	7.97	OTM	2580	2410	2246	2089	1938	1794
5	AE65CRD2	6.5 CREEDMOOR	120	7.78	OTM	2900	2680	2470	2270	2079	1897
5	AE68A	6.8 SPC	115	7.45	FMJ	2675	2442	2221	2012	1815	1633
5	AE65CRD3	6.5 CREEDMOOR	120	7.78	TMJ	2900	2672	2455	2248	2052	1865
5	AE65CRD4	6.5 CREEDMOOR	123	7.97	OTM	2875	2667	2468	2277	2096	1922
5	AE30CB	30 CARBINE	110	7.13	FMJ	1990	1564	1231	1031	919	839
5	AE300BLK1	300 BLACKOUT	150	9.72	FMJ BT	1900	1724	1561	1411	1282	1174
5	AE300BLKSUP2	300 BLACKOUT	220	14.26	OTM	1000	970	944	920	897	876
5	A76239A	7.62X39MM SOVIET	124	8.04	FMJ	2350	2078	1824	1595	1392	1224
5	AE308D	308 WIN.	150	9.72	FMJ BT	2820	2597	2385	2183	1990	1808
5	A76251M1A	7.62X51MM	168	10.89	OTM	2650	2459	2276	2101	1933	1774
5	AE3006M1	30-06 SPRING.	150	9.72	FMJ BT	2740	2522	2314	2116	1928	1751
5	AE3006N	30-06 SPRING.	150	9.72	FMJ BT	2910	2683	2466	2260	2064	1877



Download Ballistic



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; 7 = competition shooting; 8 = pest control; 9 = low noise, training, specialty.

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.

Table with columns: MUZZLE, ENERGY IN FOOT-POUNDS (TO NEAREST 5 FOOT-POUNDS), WIND DRIFT IN INCHES TO 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, AVERAGE RANGE, LONG RANGE, TEST BARREL LENGTH INCHES. Rows list various muzzle velocities and corresponding ballistic data.



RIFLE BALLISTICS

Abbreviation Key: BTHP = boat-tail hollow point; BTSP = boat-tail soft point; FN = flat nose; LRN = lead round nose; LSW = lead semi-wadcutter; LW = lead wadcutter; SWC = semi-wadcutter; SWHP = semi-wadcutter hollow point; CB = conical ball reduced power/noise; FP = flat point; CP = copper-plated; L = lead; J = jacketed; HP = hollow-point; RN = round nose; SHP = segmented hollow-point; SP = soft point; FMJ = full metal jacket; TSJ = total synthetic jacket; TMF = toxic-metal-free; TMJ = totally encapsulated bullet; V = vented barrel; HE = high energy (not for use in semi-automatic rifles); * = not for revolvers; ◊ = nickel-plated case; CLM = cartridge length longer than SAAMI max, may not fit in all magazines. *Molycoat: molybdenum disulfide dry film lubricant

Fusion Rifle

USAGE	FEDERAL LOAD NO.	CARTRIDGE	BULLET WEIGHT IN		BULLET STYLE	MUZZLE	VELOCITY IN FEET PER SECOND (TO NEAREST TO FPS)				
			GRAINS	GRAMS			100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.
FUSION											
2	F223FS1	223 REM.	62	4.02	FUSION	3000	2697	2413	2148	1898	1671
2	F224VLKMSR1	224 VALKYRIE	90	5.83	FUSION	2700	2491	2291	2101	1919	1749
2	F22250FS1	22-250 REM.	55	3.56	FUSION	3600	3108	2667	2267	1902	1580
2	F243FS1	243 WIN.	95	6.16	FUSION	2980	2730	2493	2268	2056	1854
2	F2506FS1	25-06 REM.	120	7.78	FUSION	2980	2778	2585	2399	2222	2052
2	F65CRDFS1	6.5 CREEDMOOR	140	9.07	FUSION	2725	2522	2327	2142	1964	1796
NEW	F65PRCFS1	6.5 PRC	140	9.07	FUSION	2925	2713	2510	2316	2131	1954
3	F6555FS1	6.5X55 SWEDISH	140	9.07	FUSION	2530	2336	2150	1973	1804	1648
2	F6555FS2	6.5X55 SWEDISH	156	10.11	FUSION	2500	2326	2159	1999	1845	1702
2	F260FS1	260 REM.	120	7.78	FUSION	2950	2710	2483	2266	2061	1866
2	F270FS1	270 WIN.	130	8.42	FUSION	3050	2811	2584	2368	2163	1968
2	F270FS2	270 WIN.	150	9.72	FUSION	2850	2655	2468	2289	2117	1953
2	F270WSMFS1	270 WIN. SHORT MAGNUM	150	9.72	FUSION	3060	2867	2682	2504	2333	2169
2	F708FS2	7MM-08 REM.	120	7.78	FUSION	3000	2719	2455	2206	1971	1753
2	F708FS1	7MM-08 REM.	140	9.07	FUSION	2850	2615	2393	2181	1980	1791
2	F280FS1	280 REM.	140	9.07	FUSION	2990	2794	2607	2427	2255	2089
3	F7RFS1	7MM REM. MAGNUM	150	9.72	FUSION	3050	2861	2680	2505	2338	2177
3	F7RFS2	7MM REM. MAGNUM	175	11.34	FUSION	2760	2592	2430	2274	2123	1978
2	F76239FS1	7.62X39MM SOVIET	123	7.97	FUSION	2350	2077	1823	1593	1389	1222
2	F3030FS1	30-30 WIN.	150	9.72	FUSION	2390	2086	1805	1553	1337	1167
2	F3030FS2	30-30 WIN.	170	11.02	FUSION	2200	1950	1719	1510	1329	1182
2	F308FS1	308 WIN.	150	9.72	FUSION	2820	2600	2391	2191	2001	1821
2	F308FS2	308 WIN.	165	10.69	FUSION	2700	2501	2310	2128	1954	1789
2	F308FS3	308 WIN.	180	11.66	FUSION	2600	2427	2260	2101	1947	1801
2	F3006FS1	30-06 SPRING.	150	9.72	FUSION	2900	2674	2459	2254	2059	1874
2	F3006FS2	30-06 SPRING.	165	10.69	FUSION	2790	2590	2399	2217	2042	1875
2	F3006FS3	30-06 SPRING.	180	11.66	FUSION	2700	2521	2349	2185	2026	1874
2	F300WFS1	300 WIN. MAGNUM	150	9.72	FUSION	3200	2958	2729	2512	2304	2107
2	F300WFS2	300 WIN. MAGNUM	165	10.69	FUSION	3080	2865	2660	2464	2276	2097
2	F300WFS3	300 WIN. MAGNUM	180	11.66	FUSION	2960	2766	2580	2401	2230	2065
2	F300WSMFS3	300 WIN. SHORT MAGNUM	150	9.72	FUSION	3250	3005	2774	2555	2345	2146
2	F300WSMFS1	300 WIN. SHORT MAGNUM	165	10.69	FUSION	3100	2885	2680	2484	2296	2116
2	F300WSMFS2	300 WIN. SHORT MAGNUM	180	11.66	FUSION	2950	2756	2570	2391	2220	2055
2	F338FFS2	338 FEDERAL	200	12.96	FUSION	2700	2487	2284	2090	1905	1733
2	F35FS1	35 WHELEN	200	12.96	FUSION	2800	2537	2289	2055	1835	1634
2	F350LFS1	350 LEGEND	160	10.37	FUSION	2300	1993	1712	1463	1257	1107
2	F4570FS1	45-70 GOVERNMENT	300	19.44	FUSION	1850	1612	1401	1227	1099	1011
2	F450BMS1	450 BUSHMASTER	260	16.85	FUSION	2200	1777	1419	1155	1002	907
FUSION MSR											
2	F223MSR1	223 REM.	62	4.02	FUSION	2750	2463	2194	1942	1710	1500
2	F224VLKMSR1	224 VALKYRIE	90	5.83	FUSION	2700	2491	2291	2101	1919	1749
2	F65GDLMSR1	6.5 GRENDL	120	7.78	FUSION	2600	2346	2107	1881	1674	1485
2	F68MSR2	6.8 SPC	90	5.83	FUSION	2850	2524	2221	1939	1682	1453
2	F68MSR1	6.8 SPC	115	7.45	FUSION	2470	2248	2037	1838	1654	1485
2	F300BMSR2	300 BLACKOUT	150	9.72	FUSION	1900	1685	1490	1320	1181	1079
2	F308MSR1	308 WIN.	150	9.72	FUSION	2770	2553	2345	2148	1960	1782
2	F338FMSR2	338 FEDERAL	185	11.99	FUSION	2680	2447	2226	2016	1819	1636



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30 SUPER CARRY

NEW



MORE CHANGES EVERYTHING

The performance of the most popular self-defense round in history. The size and recoil of the most compact, concealable pistol platforms. The capacity and versatility of nothing else. Meet 30 Super Carry, Federal's new cartridge that bridges the ultimate gap in handgun self-defense. Unlike most popular handgun calibers that were developed for military and law enforcement, the cartridge was designed solely for concealed carry, ensuring every facet—from physical size to terminal performance—is perfectly suited to real-world defense. Shooters can get even more from the cartridge with loads across the Federal line, including HST® and American Eagle®.

More Rounds

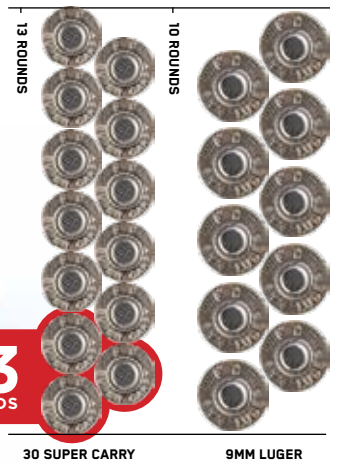
The 30 Super Carry's slimmed-down dimensions result in a simple physical truth. A magazine the size of your standard 9mm Luger pistol's will carry two to three more rounds in initially available handgun models. You get the power equivalent to the proven 9mm Luger with added capacity that can make all the difference in a real-world self-defense scenario.

When More Matters

When lives are on the line, accuracy can evaporate. Statistics don't lie: In armed threat scenarios, typically only one out of every five shots finds the mark. That's why 30 Super Carry's added capacity is so important. Every round you have available significantly boosts your chances of walking away from a dangerous encounter.



MAGAZINE CAPACITY



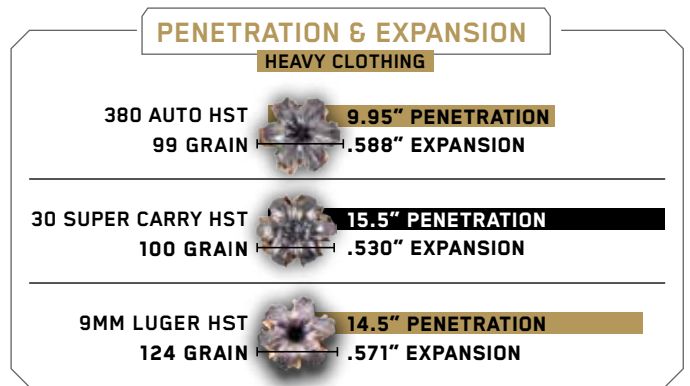
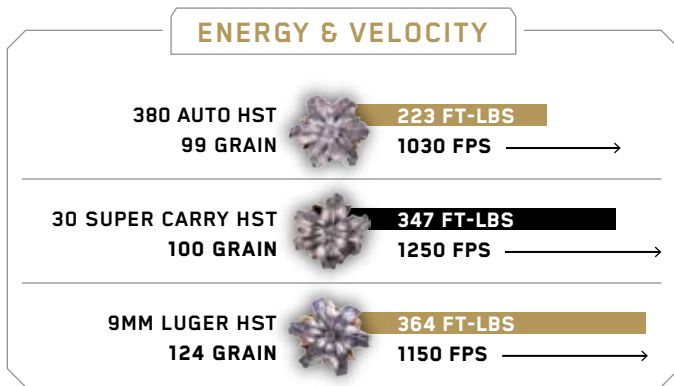
*Cartridges shown at actual size

More Power, No Tradeoffs

The .312-inch-diameter projectile used in 30 Super Carry allows more magazine capacity than 9mm Luger, yet delivers equal muzzle energy and performance.

Drastically Reduced Recoil

Not only does 30 Super Carry provide more magazine capacity than 9mm without sacrificing power, it produces significantly less recoil and muzzle rise. This means you can put more rounds on target, faster.

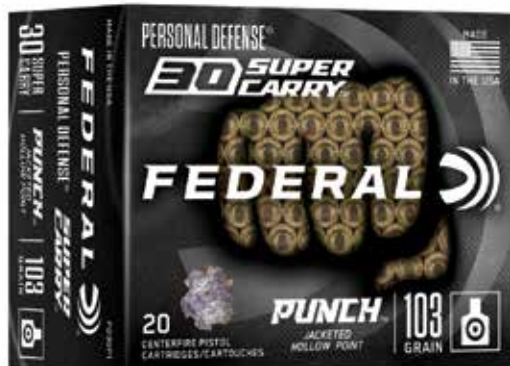


NO COMPROMISES: MORE ROUNDS PER MAGAZINE WITH PERFORMANCE THAT MATCHES 9MM LUGER



More Effective Training

The best defensive cartridge will only perform to its full potential for the user through diligent training with ballistically comparable practice ammunition. American Eagle 30 Super Carry fills this role, providing an extremely similar feel and point of impact as its HST counterpart.



New Punch 30 Super Carry

Some matches are meant to be. Federal engineers designed both Punch ammunition and the new 30 Super Carry cartridge from the ground up for self-defense, and the two have come together in a load that's far easier to shoot effectively. Punch 30 Super Carry offers all of the benefits of the cartridge with dramatically less recoil than 9mm Luger.

FOR A FULL LIST OF AVAILABLE LOADS AND BALLISTICS, REFER TO PAGES 43-44.

PERSONAL DEFENSE® HANDGUN



HST

Whether you want to maximize the power of your magnum revolver or get the most from the game-changing 30 Super Carry cartridge, Federal Premium® HST® is there with new options that define performance. Like all HST rounds, our latest offerings in 357 Magnum, 327 Federal Magnum and 30 Super Carry boost expansion and hit critical penetration depths through a variety of barriers, with nearly 100 percent weight retention.

Available in the full line of self-defense loads.

Heavy Clothing



Consistency Counts

The exclusive HST bullet is engineered to expand extremely reliably and retain nearly all of its weight through almost every barrier. The result is consistent, nearly identical penetration and expansion in any situation, shot after shot. Bare gelatin shot with 10mm Auto HST (P10HST1S) at 10 feet.



“A self-defense situation unfolds quickly and is full of unknowns. That’s why it’s so critical to have ammunition you can count on. I choose HST.”

**JULIE GOLOB
WORLD CHAMPION SHOOTER
FEDERAL AMBASSADOR**

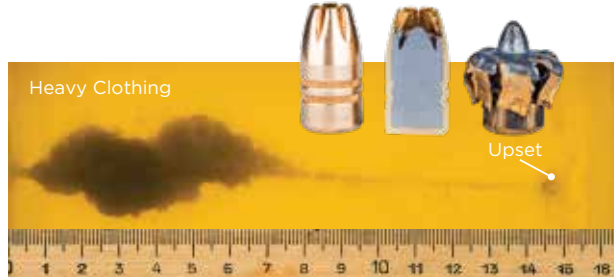
HYDRA-SHOK DEEP

A redesigned center post and core push the performance of Hydra-Shok Deep® further. All loads in the lineup hit penetration depths that have been optimized for self-defense situations through the most common barriers—without overpenetrating.



380 Auto Redefined

Powered by the Hydra-Shok Deep design, the 380 Auto easily meets the FBI's penetration guidelines, surpassing the 12-inch mark. Bare gel shot with 380 Auto (P380HSD1) at 10 feet; 13.5 inches of penetration.



Deep Defense

A beefed-up center post and redesigned core give Hydra-Shok Deep loads the ability to hit critical depths through the most common self-defense barriers. Bare gelatin shot with 9mm Luger (P9HSD1) at 10 feet, 15 inches of penetration.



HYDRA-SHOK

Original Hydra-Shok remains one of the most popular choices among self-defense experts. We use stringent manufacturing processes and rigorous testing to ensure Hydra-Shok loads perform accurately and consistently.

PRACTICE & DEFEND PACKS

We pair 50 HST loads with 50 Syntech Training Match™ rounds in Practice & Defend packs for the most complete combination available. All produce identical velocities, trajectories and point of impact for the most realistic training and the utmost protection.

FOR A FULL LIST OF AVAILABLE LOADS AND BALLISTICS, REFER TO PAGES 43-44.

PERSONAL DEFENSE® HANDGUN



PUNCH NEW

Any cartridge should be able to deliver a knockout blow. That was the mindset that guided the development of Punch™ ammunition, and what keeps pushing us to develop more loads like this year's new 30 Super Carry and 22 WMR. Like all Punch offerings, they deliver on the promise to provide the penetration and expansion needed in real-world self-defense situations.

	380 Auto	38 Special	30 Super Carry	9mm Luger	40 S&W	10mm Auto	44 S&W Special	45 Auto
Bare Gel								
Heavy Clothing								



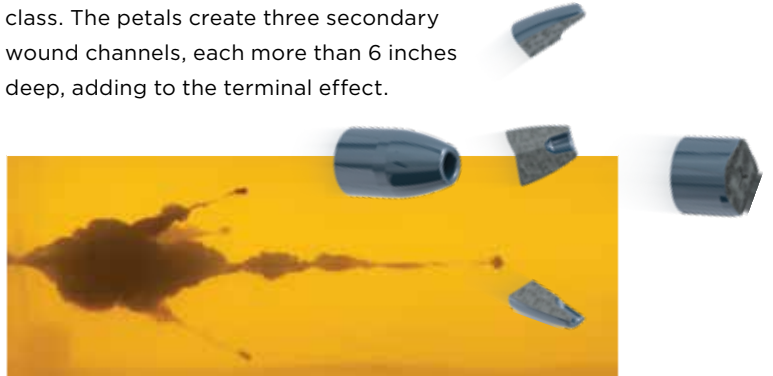
PUNCH RIMFIRE

Punch Personal Defense 22 LR and 22 WMR loads use a nickel-plated lead-core bullet propelled at extreme velocities to hit critical penetration depths through short-barrel handguns. With 12 to 16 inches of penetration in ballistics gelatin, both loads exceed the depths of centerfire cartridges including 25 Auto and 32 Auto. Combined with stringent function testing that ensures the most consistent ignition and cycling, Punch ammunition makes rimfire a legitimate defense option.



SYNTECH DEFENSE

Syntech® changed the range forever. Now the technology is revolutionizing protection as well. Syntech Defense™ provides dynamic terminal performance with a hollow-point bullet that separates into three segments and a deep-penetrating core on impact. The core penetrates 12 to 18 inches through bare ballistics gel and heavy clothing—a critical benchmark in self-defense situations and the best terminal performance of any round in its class. The petals create three secondary wound channels, each more than 6 inches deep, adding to the terminal effect.



TRAIN + PROTECT

Honor the American birthright to bear arms. Federal® Train + Protect uses the VHP bullet design to provide precise, practical performance at the range, and instant reliable expansion on impact. **Now available in 10mm Auto.**

FOR A FULL LIST OF AVAILABLE LOADS AND BALLISTICS, REFER TO PAGES 43-44.

PERSONAL DEFENSE® SHOTSHELL

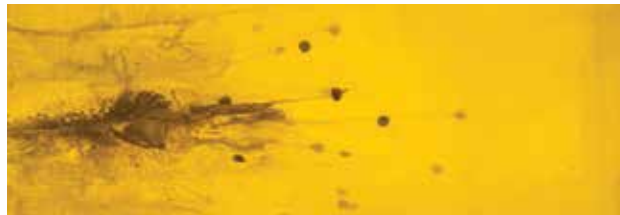


FORCE X2

Turn your shotgun into the ultimate defensive platform with Force X2™ from Federal Premium®. Its nine copper-plated 00 FX2 buckshot pellets are specially engineered to split into two equal-size pieces on impact. This potentially doubles the number of wound channels from nine to 18, improves the transfer of energy from the payload to the target, and minimizes the potential for over-penetration, reducing the risk to bystanders. Force X2 is also loaded for more manageable recoil, allowing the shooter to stay on target for faster follow-ups and better accuracy in a self-defense situation.

Double Trouble

Split pellets are designed to separate on impact, as much as doubling the number of wound channels.





FORCE X2 SHORTY

We've combined the power of our newest technologies to create a shotshell option that changes the nature of self-defense. Force X2 Shorty™ shells measure just 1¾ inches, but hold a payload of six 00 segmenting buckshot. When used with firearms designed to cycle sub-length shotshells like the Mossberg 590S, the loads offer much higher magazine capacities with up to twice the wound channels over standard buckshot loads.



BUCKSHOT

Make the threat scatter. Federal Premium buckshot penetrates to optimal depths for effective self-defense. Loads with the FLITECONTROL® wad system deliver the tightest patterns possible. **Now available in a full range of offerings, including a special NRA edition 9-pellet 00 buckshot load.**



.410 HANDGUN

The .410 handgun has emerged as a popular option for self-defense, and Federal Premium® offers a variety of loads for these specialized firearms. A customized hull design, optimal brass thickness and fine-tuned payloads make these perfect for .410 handguns.



FOR A FULL LIST OF AVAILABLE LOADS AND BALLISTICS, REFER TO PAGE 69.

SYNTECH®



Bullet core drastically reduces splash-back on steel targets

Flat-nose Syntech bullet for better energy transfer to steel targets

TSJ® eliminates copper and lead fouling, while extending barrel life

Clean-burning propellants minimize residue

Reduced felt recoil

Exclusive Catalyst™ lead-free primer formulation provides reliable, consistent ignition

SYNTECH ACTION PISTOL

Syntech Action Pistol® loads are specifically designed for competition and loaded to power factor requirements with heavy, flatter-nosed bullets for more reliable knock-downs on steel targets.



SYNTECH RANGE

An exclusive polymer coating prevents metal-on-metal contact between the bullet and bore, eliminating copper and lead fouling.



SYNTECH TRAINING MATCH

If practice isn't realistic, it's not really practice. Make range time matter with Syntech Training Match® loads that offer the same velocity, trajectory and point of impact as equivalent Federal Premium® HST® ammunition.



Cleaner

With a polymer-encapsulated bullet, all Syntech loads virtually eliminate barrel fouling and airborne lead.



Official Ammunition Of The USPSA

Syntech Action Pistol is the official ammunition of the United States Practical Shooting Association (USPSA). The alliance supports the organization's tireless stewardship of competitive practical shooting.



SYNTECH PCC

Velocity and accuracy of Syntech PCC® are optimized for long gun barrel lengths, with a bullet profile that provides excellent accuracy and reliable feeding in a variety of carbine platforms.



Safer On Steel

Without a copper jacket, all Syntech varieties drastically reduce the amount of splash-back on steel targets.



Catalyst Primer

This lead-free primer technology provides the most reliable, consistent ignition possible in range ammunition.



Less Muzzle Rise For Faster Follow-ups

Syntech Action Pistol's unique blend of propellants, bullet weights and the Total Synthetic Jacket result in as much as 14 percent less muzzle rise than comparable target loads. This allows competitive shooters to get back on target more quickly, for faster follow-up shots and stage times. Still frame from high-speed video showing 150-grain 9mm Luger (AE9SJAP1) fired through a Tangfolio Stock II.

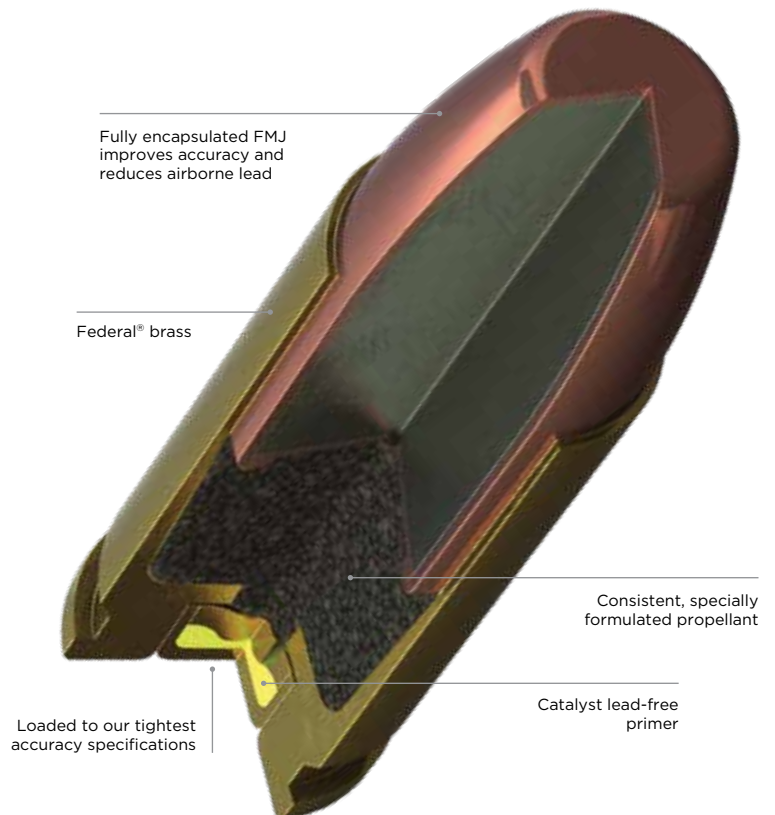
FOR A FULL LIST OF AVAILABLE LOADS AND BALLISTICS, REFER TO PAGES 43-44.

TARGET HANDGUN



GOLD MEDAL ACTION PISTOL

Compete at the highest level with loads designed specifically for the action shooting sports. New Gold Medal® Action Pistol offers even better accuracy and consistency than original Gold Medal, and it's loaded to power-factor requirements. The fully encapsulated FMJ bullet and Catalyst lead-free primer deliver cleaner shooting. **Available in 9mm Luger and 40 S&W.**





GOLD MEDAL

Demand the performance to compete. Gold Medal Handgun loads are built with the finest components and held to the tightest tolerances to deliver in competitive shooting situations. The loads feature match-grade primers and bullets, with consistent powders and the best Federal® brass.



AMERICAN EAGLE

Hit your target and train harder with this proven line. It provides performance similar to self-defense and competition loads for a familiar feel and realistic practice.



AMERICAN EAGLE IRT

Safe range time starts here. American Eagle® Indoor Range Training (IRT) has a reduced-lead bullet fully encapsulated in copper for safer, economical training. It's powered by a toxic metal-free primer and produces ballistics matched to those of equivalent self-defense rounds.



AMERICAN EAGLE IRT LEAD FREE

We've made the firing line even cleaner with American Eagle IRT Lead Free. Its proprietary bullets are completely lead-free and its Federal Catalyst™ primer offers the same reliability, shelf life and ballistics of conventional lead styphnate primers—without the lead.



9MM NATO MILITARY GRADE BALL

Federal 9mm NATO features military-quality 124-grain FMJ bullets loaded to higher-velocities than rounds typically offered for the consumer market. The ammunition is built to NATO specifications and its sealed case ensures reliable ignition, cycling and ballistics.



CHAMPION

Loaded with Federal brass and quality primers, Champion™ handgun loads provide accurate, target-grade performance for shooters who put a lot of rounds downrange. **Now available in 10mm Auto.**

FOR A FULL LIST OF AVAILABLE LOADS AND BALLISTICS, REFER TO PAGES 43-44.

HUNTING HANDGUN



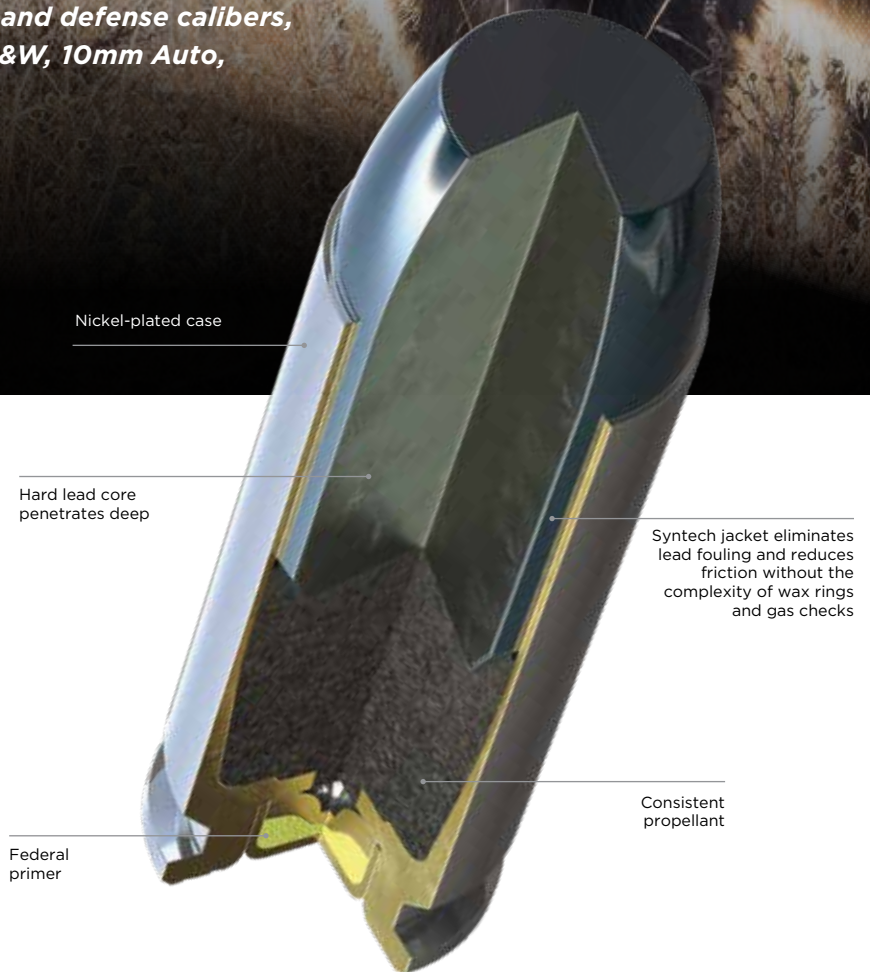
SOLID CORE

Sometimes wild places can put you in a tight spot. That's why we designed Solid Core. Its extremely hard, flat-nose lead bullet holds together while blowing through bone, providing high weight retention and deep penetration. Syntech[®] polymer jacket technology reduces the friction and leading that plague hard cast bullets. **Available in popular hunting and defense calibers, including 9mm Luger, 357 Magnum, 40 S&W, 10mm Auto, 45 Auto +P and 44 Rem. Magnum.**



Go Deep

Solid Core's hard lead bullet blasts through the toughest hide and bone, for extremely deep penetration. Its Syntech polymer jacket improves performance without costly features like wax rings and gas checks.





TROPHY BONDED BEAR CLAW

Take complete advantage of 10mm Auto ballistics with Trophy Bonded® Bear Claw®. The full-power load and its tough, bonded bullet construction result in superb accuracy, high weight retention and deep penetration, It's just the thing for blasting through the vitals of bears, hogs, deer and more.

BARNES EXPANDER

The all-copper construction of the Barnes® Expander brings handgun hunting performance to new heights. The loads provide 100 percent weight retention, outstanding expansion and superb accuracy.



SWIFT A-FRAME

Handgun hunters leave nothing to chance when it comes to bullet choice. That's why we're proud to offer the robust Swift® A-Frame®. High weight retention and controlled expansion, regardless of distance, make these rounds ideal for big game.

FUSION

These handgun loads feature the same molecularly fused bullet construction as their rifle counterparts for the toughness, accuracy and terminal performance short-barrel hunters need. Bullet weights and velocities have also been optimized to be lethal on deer without punishing the shooter.



POWER-SHOK

Short-barrel performance that goes the distance. Handgun hunters can get the reliability and accuracy they need at an affordable price with Federal® Power•Shok® loads. The rounds feature a powerful jacketed hollow-point bullet suited to a variety of medium and big game.

FOR A FULL LIST OF AVAILABLE LOADS AND BALLISTICS, REFER TO PAGES 43-44.

MUZZLELOADING

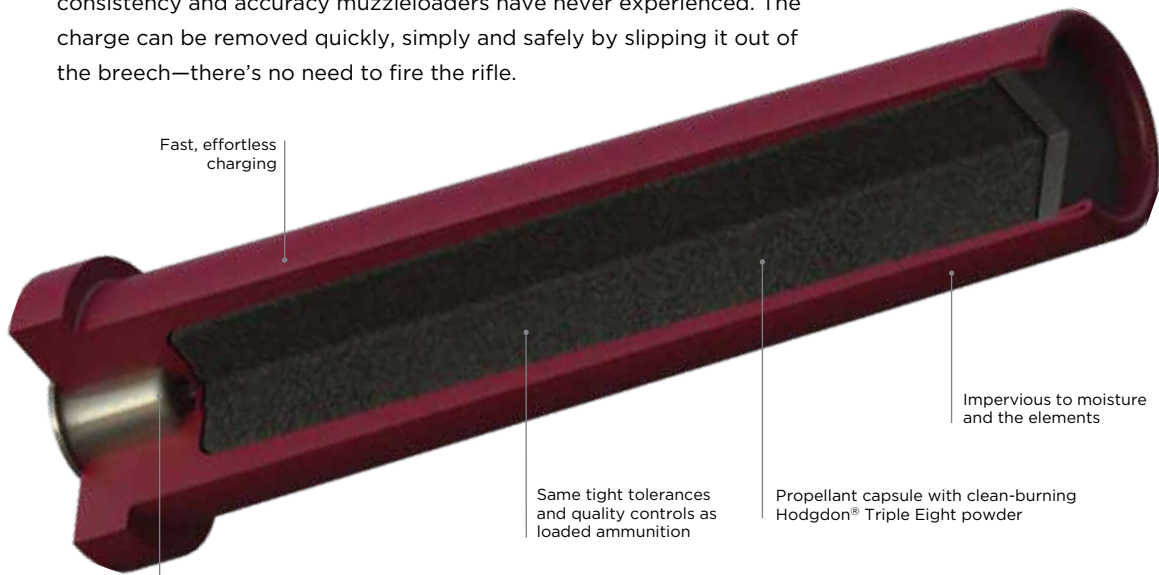


FIRESTICK

As long as there have been muzzleloading firearms, their shooters have been burdened by reliability, consistency and safety concerns. It all ends with Federal Premium® FireStick™, the critical component of a whole new ignition system that uses an encapsulated propellant charge that inserts from the breech, with the bullet loaded from the muzzle. It's the perfect match for Federal Premium Trophy® Copper or Lead Tipped muzzleloader bullets and is compatible with the new Traditions™ NitroFire rifle. **Available in 80-, 100- and 120-grain equivalent charges.**

Breech Breakthrough

FireStick's charge is completely impervious to moisture and built to the same tight tolerances as Federal Premium factory ammunition, ensuring shot-to-shot consistency and accuracy muzzleloaders have never experienced. The charge can be removed quickly, simply and safely by slipping it out of the breech—there's no need to fire the rifle.



Fast, effortless charging

Shooter inserts Federal 209 muzzleloading primer (SOLD SEPARATELY)

Same tight tolerances and quality controls as loaded ammunition

Impervious to moisture and the elements

Propellant capsule with clean-burning Hodgdon® Triple Eight powder

FIRESTICK	
PART NO.	GRAIN EQUIVALENT
PMZFS80T8	80
PMZFS100T8	100
PMZFS120T8	120



Charges from the breech of compatible rifles

Bullet loads from the muzzle



“For us, muzzleloading is the ultimate season extender, and FireStick allows us to focus solely on the hunt. Combined with the Traditions NitroFire rifle, the system makes shooting a muzzleloader safer and simpler than it’s ever been.”

**LEE & TIFFANY LAKOSKY
FEDERAL AMBASSADORS
Hosts of “Crush with Lee & Tiffany”**



B.O.R. LOCK MZ TROPHY COPPER & LEAD

We redefined modern in-line performance with the B.O.R. Lock MZ® system. Available in Trophy® Copper and Lead Tipped versions, it provides outstanding accuracy in a non-sabot design that’s easy to load, scrubs fouling from the breech and ensures consistent bullet seating.

209 MUZZLELOADING PRIMER

Ignition is everything. The specialized formulation of our 209 Muzzleloading Primer provides superior resistance to moisture, as well as hot, reliable ignition of both granulated powder and pellets in any conditions. The design eliminates the excessive breech fouling typical of standard shotshell primers.

TROPHY COPPER MUZZLELOADER BULLET WITH B.O.R. LOCK MZ		
LOAD NO.	CALIBER	GR
PMZ50TC1*	50	270

LEAD MUZZLELOADER BULLET WITH B.O.R. LOCK MZ		
LOAD NO.	CALIBER	GR
PMZ50LMZ1	50	350

MUZZLELOADING PRIMER	
PART NO.	TYPE
PMZ209	209

*For best performance, use with magnum primers.



AUTOMATCH

Fuel your semi-auto rimfire right with ammunition built specifically for it. Federal AutoMatch™ cycles reliably in the full range of semi-auto platforms and serves up the accuracy needed for the range, competition or backyard plinking.



SPEER TNT

Explosive on impact and pinpoint accurate. Federal Premium Speer® TNT® rimfire loads deliver at a distance.



BYOB

There's a party at the range, so BYOB. Federal® BYOB® rimfire buckets and bottles stack, store and carry easily. They're loaded with high-quality 17 HMR, 22 LR or 22 WMR rounds that are perfect for a day at the range or in the field.



GOLD MEDAL

Shoot at the highest levels of rimfire competition with Federal Premium® Gold Medal®. The rounds are built with precision bullets and ultra-tight tolerances that ensure peak performance and consistency.



V-MAX

If you hunt varmints with a rimfire rifle, extract maximum range and power from the platform with Federal Premium® V-Max® loads.



AMERICAN EAGLE

Whether you're shooting targets or small game, you'll get the precision and consistency you need with American Eagle® rimfire loads. They provide reliable, affordable performance with quality bullets, brass and priming.



AMERICAN EAGLE SUPPRESSOR

Sub-sonic loading slashes the volume of these rounds, yet their carefully selected propellants, bullet weights and primers mean they still perform to their ballistic peak and cycle flawlessly in suppressed firearms.



CHAMPION

Plinking. Targets. Training. Whatever rimfire pursuit drives you, get accurate, affordable performance with Federal® Champion™ rimfire. The reliable bullets, priming and brass are suited to a wide variety of rimfire range applications.



GAME LOADS

Whether you're after bushytails or bunnies, you'll put more in your bag with Federal Game Loads. The rimfire rounds offer consistent, reliable performance on small game, yet are affordably priced to keep you in the field for less.

RIMFIRE BALLISTICS



Abbreviation Key: BTHP = boat-tail hollow point; BTSP = boat-tail soft point; FN = flat nose; LRN = lead round nose; LSW = lead semi-wadcutter; LW = lead wadcutter; SWC = semi-wadcutter; SWHP = semi-wadcutter hollow point; CB = conical ball reduced power/noise; FP = flat point; CP = copper-plated; L = lead; J = jacketed; HP = hollow-point; RN = round nose; SHP = segmented hollow-point; SP = soft point; FMJ = full metal jacket; TSJ = total synthetic jacket; TMF = toxic-metal-free; TMJ = totally encapsulated bullet; V = vented barrel; HE = high energy (not for use in semi-automatic rifles); † = not for revolvers; ◊ = nickel-plated case; CLM = cartridge length longer than SAAMI max, may not fit in all magazines. *Molycoat: molybdenum disulfide dry film lubricant

Federal Premium® Rimfire

USAGE	FEDERAL LOAD NO.	CARTRIDGE	BULLET WEIGHT IN		BULLET STYLE	VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)			ENERGY IN FOOT-POUNDS (TO NEAREST 5 FOOT-POUNDS)			WIND DRIFT IN INCHES TO MPH CROSSWIND		HEIGHT OF BULLET TRAJECTORY IN INCHES ABOVE OR BELOW LINE OF SIGHT IF ZEROED AT @ YARDS. SIGHTS 1.5 INCHES ABOVE BORE LINE. AVERAGE RANGE		
			GRAINS	GRAMS		MUZZLE	50 YDS.	100 YDS.	MUZZLE	50 YDS.	100 YDS.	50 YDS.	100 YDS.	50 YDS.	100 YDS.	
FEDERAL PREMIUM GOLD MEDAL®																
5	711B	22 LONG RIFLE	40	2.59	SOLID	1080	994	930	104	88	77	1.1	4.2	⊕	-7.3	
5	719	22 LONG RIFLE	40	2.59	SOLID	1200	1075	991	128	103	87	1.3	4.9	⊕	-6.0	
FEDERAL PREMIUM VARMINT																
1	P770	17 HMR	17	1.1	SPEER TNT JHP	2530	2150	1804	242	174	123	0.9	3.8	⊕	-0.4	
1	P771	17 HMR	17	1.1	HORNADY® V-MAX®	2530	2194	1884	242	182	134	0.8	3.3	⊕	-0.3	
FEDERAL PREMIUM PERSONAL DEFENSE PUNCH																
6	PD22L1	22 LONG RIFLE	29	1.87	SOLID	1070	978	912	74	62	54	1.25	2.2	⊕	-7.5	
6	PD22WMR1	22 WMR	45	2.91	JHP	1000	933	880	100	87	77	1.1	3.8	⊕	-8.48	

American Eagle® Rimfire

USAGE	FEDERAL LOAD NO.	CARTRIDGE	BULLET WEIGHT IN		BULLET STYLE	VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)			ENERGY IN FOOT-POUNDS (TO NEAREST 5 FOOT-POUNDS)			WIND DRIFT IN INCHES TO MPH CROSSWIND		HEIGHT OF BULLET TRAJECTORY IN INCHES ABOVE OR BELOW LINE OF SIGHT IF ZEROED AT @ YARDS. SIGHTS 1.5 INCHES ABOVE BORE LINE. AVERAGE RANGE		
			GRAINS	GRAMS		MUZZLE	50 YDS.	100 YDS.	MUZZLE	50 YDS.	100 YDS.	50 YDS.	100 YDS.	50 YDS.	100 YDS.	
AMERICAN EAGLE																
5	AE22*	22 LONG RIFLE	38	2.46	CPHP	1260	1110	1010	134	104	86	1.5	5.5	⊕	-5.5	
AMERICAN EAGLE SUPPRESSOR																
5	AE22SUP1	22 LONG RIFLE	45	2.92	CP Solid	970	908	856	94	82	73	1.0	3.7	⊕	-9.0	

V-Max is a registered trademark of Hornady.

* 40-count box



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; 7=competition shooting; 8=pest control; 9=low noise, training, specialty.

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® Rimfire

USAGE	FEDERAL LOAD NO.	CARTRIDGE	BULLET WEIGHT IN		BULLET STYLE	VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)			ENERGY IN FOOT-POUNDS (TO NEAREST 5 FOOT-POUNDS)			WIND DRIFT IN INCHES TO MPH CROSSWIND		HEIGHT OF BULLET TRAJECTORY IN INCHES ABOVE OR BELOW LINE OF SIGHT IF ZEROED AT 0 YARDS. SIGHTS 1.5 INCHES ABOVE BORE LINE. AVERAGE RANGE		
			GRAINS	GRAMS		MUZZLE	50 YDS.	100 YDS.	MUZZLE	50 YDS.	100 YDS.	50 YDS.	100 YDS.	50 YDS.	AVERAGE RANGE	100 YDS.
FEDERAL GAME LOAD																
1	716	22 LONG RIFLE	25	1.62	NO. 12 LEAD BIRD SHOT	-	-	-	-	-	-	-	-	-	-	-
5	724	22 LONG RIFLE	31	2.01	CPHP	1430	1197	1046	141	99	75	1.8	7.1	⊕		-4.6
1.5	712	22 LONG RIFLE	38	2.46	CPHP	1260	1110	1010	134	104	86	1.5	5.5	⊕		-5.5
5	710	22 LONG RIFLE	40	2.59	CP SOLID	1240	1103	1011	137	108	91	1.4	5.1	⊕		-5.6
5	757	22 WMR	50	3.24	JHP	1530	1347	1197	260	201	159	1.2	4.7	⊕		-3.3
FEDERAL CHAMPION™																
5	745***	22 LONG RIFLE	36	2.33	CPHP	1260	1104	1003	127	97	80	1.5	5.7	⊕		-5.6
5	AM22**	22 LONG RIFLE	40	2.59	SOLID	1200	1075	991	128	103	87	1.3	4.9	⊕		-6.0
5	510	22 LONG RIFLE	40	2.59	SOLID	1240	1103	1011	137	108	91	1.4	5.1	⊕		-5.6
5	737	22 WMR	40	2.59	FMJ	1880	1570	1311	314	219	153	1.4	5.8	⊕		-2.1
BYOB BULK PACKS																
5	750BTL450	22 LONG RIFLE	36	2.33	CPHP	1260	1104	1003	127	97	80	1.5	5.7	⊕		-5.6
5	750BKT1375	22 LONG RIFLE	36	2.33	CPHP	1260	1104	1003	127	97	80	1.5	5.7	⊕		-5.6
5	757BTL250	22 WMR	50	3.24	JHP	1530	1347	1197	260	201	159	1.2	4.7	⊕		-3.3
5	770BTL250	17 HMR	17	1.1	JHP	2530	2150	1804	242	174	123	0.9	3.8	⊕		-0.4

*** 525-count bulk pack
** 325-count bulk pack

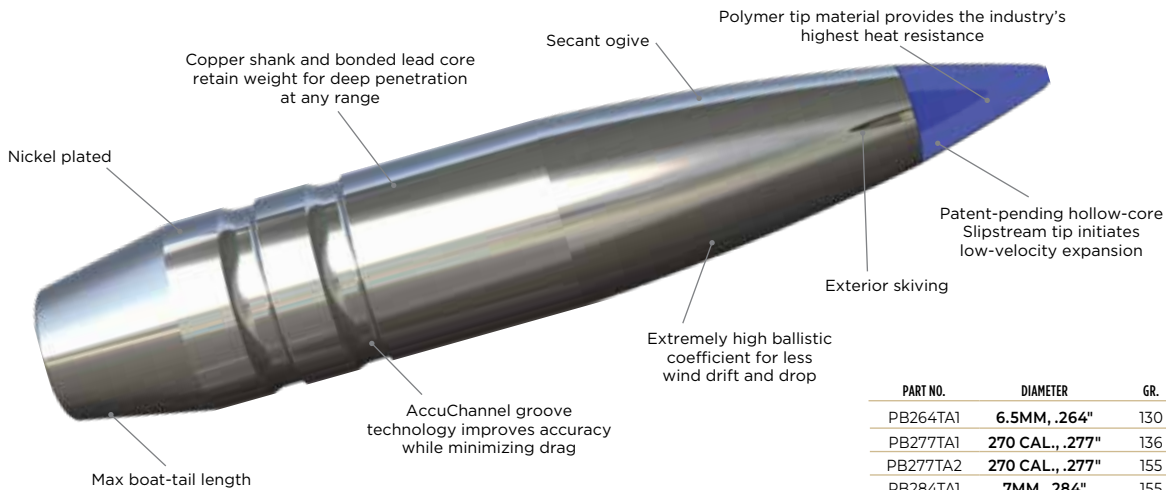
RELOADING COMPONENTS



TERMINAL ASCENT



Harness the world's best all-range performance in every handload that leaves your press. Federal Premium® Terminal Ascent™ component bullets' bonded construction fuels deep penetration on close targets, while the patented Slipstream® polymer tip initiates expansion at velocities 200 fps lower than comparable designs. The bullet's long, sleek profile offers an extremely high ballistic coefficient, and its AccuChannel® groove technology improves accuracy and minimizes drag. Now available in a full selection of bullet weights and diameters, including heavy for-caliber .277, .284 and .308 options.



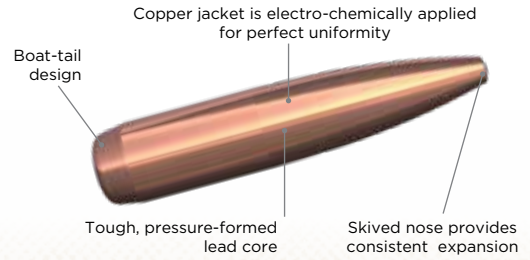
PART NO.	DIAMETER	GR.	BALLISTIC COEFFICIENT		COUNT
			G1	G7	
PB264TA1	6.5MM, .264"	130	0.532	0.263	50
PB277TA1	270 CAL., .277"	136	0.493	0.247	50
PB277TA2	270 CAL., .277"	155	0.585	0.300	50
PB284TA1	7MM, .284"	155	0.586	0.300	50
PB284TA2	7MM, .284"	175	0.625	0.320	50
PB308TA1	308 CAL., .308"	175	0.520	0.258	50
PB308TA2	308 CAL., .308"	200	0.608	0.304	50
PB308TA3	308 CAL., .308"	210	0.650	0.333	50

FUSION



Handloaders can roll their own with the bullet that changed hunting ammunition forever. Fusion® component bullets provide the largest expansion and highest weight retention in their class. With a molecularly fused jacket and a pressure-formed core, Fusion transfers maximum energy on target.

PART NO.	DIAMETER	GR.	BALLISTIC COEFFICIENT		PART NO.	DIAMETER	GR.	BALLISTIC COEFFICIENT	
			G1	COUNT				G1	COUNT
FB224F1	224 CAL., .224"	90	0.424	50	FB308F1	30 CAL., .308"	150	0.387	50
FB264F2	6.5MM, .264"	140	0.497	100	FB308F4	30 CAL., .308"	180	0.483	50
FB277F2	270 CAL., .277"	130	0.367	100	FB338F1	338 CAL., .338"	200	0.458	50
FB277F4	270 CAL., .277"	150	0.413	100	FB338F2	338 CAL., .338"	225	0.416	50
FB284F1	7MM, .284"	140	0.416	100	FB350F1	350 CAL., .358"	160	0.259	100
FB284F3	7MM, .284"	160	0.455	100	FB450F1	450 CAL., .452"	260	0.180	100
FB284F4	7MM, .284"	175	0.537	100					

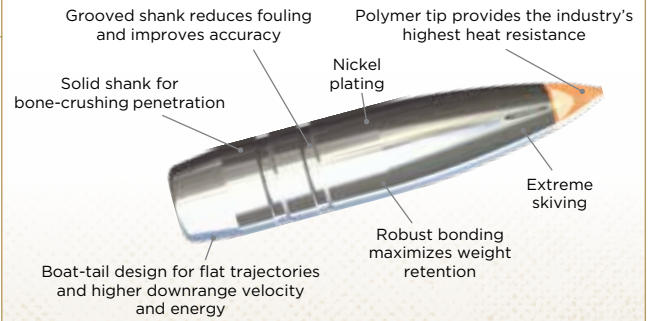


TROPHY BONDED TIP



This proven design stands apart from all other big game bullets, combining bonded construction, a bone-crushing copper shank, boat-tail design and a polymer tip that tightens groups at long range.

PART NO.	DIAMETER	GR.	BALLISTIC COEFFICIENT	
			G1	COUNT
PB277TT130	270 CAL., .277"	130	0.440	50
PB277TT140	270 CAL., .277"	140	0.455	50
PB284TT140	7MM, .284"	140	0.430	50
PB284TT160	7MM, .284"	160	0.520	50
PB308TT165	30 CAL., .308"	165	0.450	50
PB308TT180	30 CAL., .308"	180	0.500	50

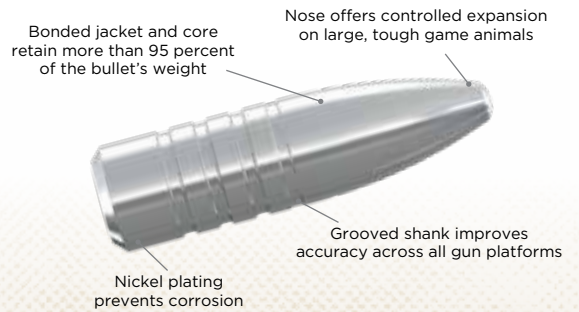


TROPHY BONDED BEAR CLAW



Deadly reliability made this bullet a legend across the wildest corners of the globe. Its bonded jacket and core provide controlled expansion and retain more than 95 percent of the bullet's weight to penetrate deep.

PART NO.	DIAMETER	GR.	BALLISTIC COEFFICIENT		PART NO.	DIAMETER	GR.	BALLISTIC COEFFICIENT	
			G1	COUNT				G1	COUNT
PB375TBBC250	375 CAL., .375"	250	0.375	25	PB458TBBC500	458 CAL., .458"	500	0.282	25
PB375TBBC300	375 CAL., .375"	300	0.342	25	PB474TBBC500	474 CAL., .474"	500	0.299	25
PB416TBBC400	416 CAL., .416"	400	0.373	25					

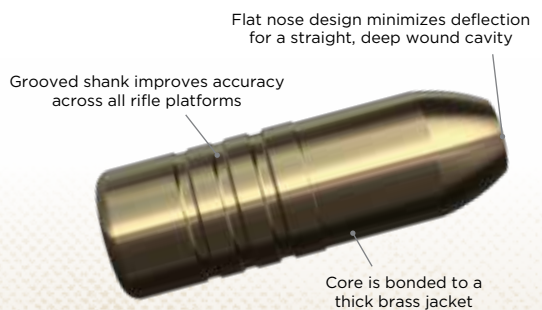


TROPHY BONDED SLEDGEHAMMER SOLID



This time-tested design bonds a lead core to a thick brass jacket to achieve bone-crushing penetration on the toughest, most dangerous game on the planet. Its flat nose minimizes deflection for a straight, deep wound cavity.

PART NO.	DIAMETER	GR.	BALLISTIC COEFFICIENT		PART NO.	DIAMETER	GR.	BALLISTIC COEFFICIENT	
			G1	COUNT				G1	COUNT
PB375TBSH300	375 CAL., .375"	300	0.253	25	PB458TBSH500	458 CAL., .458"	500	0.328	25
PB416TBSH400	416 CAL., .416"	400	0.273	25	PB474TBSH500	474 CAL., .474"	500	0.280	25





PODIUM

Profile allows use in all tapered hulls

Compression zone supports the payload and prevents pellet deformation

PODIUM WAD

Craft your own victory with the wad design that's changing clay target shooting. The Podium™ wad's cylinder-shaped compression zone supports the payload and provides unmatched protection from deformation at ignition for the best patterns and fewer flyers. The wad profile allows it to be loaded in all tapered hulls.

PART NO.	GAUGE	USE
12P1	12GA	1 OZ
12P18	12GA	1 1/8 OZ



GOLD MEDAL PRIMERS

The most exacting tolerances translate to ignition consistency that makes Federal Premium Gold Medal® cartridges the choice of match shooters everywhere.

CENTERFIRE PRIMERS			
PART NO.	TYPE	USE	NOMINAL DIA.
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
AR CENTERFIRE PRIMERS			
GM205MAR	SMALL RIFLE AR MATCH	SMALL RIFLE AR	.175

CHAMPION WADS & PRIMERS



Affordable and reliable. Champion® components are consistent and affordable options for high-volume shooters and reloaders.



WADS		
PART NO.	TYPE	USE
28S1	28 GAUGE	¾ OZ. LOADS
410SC	.410 BORE	½ OZ. LOADS (SHOT CUP ONLY)

CENTERFIRE PRIMERS			
PART NO.	TYPE	USE	NOMINAL DIA.
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
SHOTSHELL PRIMERS			
209A	SHOTSHELL	10, 12, 20, 28 GAUGE AND .410 BORE	.243

RESOURCES TO CHOOSE THE RIGHT LOAD



Breaking clay targets, wingshooting gamebirds, launching slugs at big game, protecting your home—there’s almost no limit to what a shotgun paired with the right ammunition can do. But to maximize the platform’s potential, you need to choose the load that best fits the application. Use the resources here to make the right call no matter what your pursuit might be.

Average Pellet Count — Steel Shot

Shot Size	Payload Weight									
	3/4 (21.25)	7/8 (24.81)	15/16 (26.58)	1 (28.35)	11/8 (31.89)	11/4 (35.44)	13/8 (39.98)	11/2 (42.52)	19/16 (44.30)	15/8 (46.06)
7.5	316	369	395	422	475	527	580	633	659	685
6	236	275	295	315	354	394	433	472	492	512
5	182	212	228	243	273	304	334	364	380	395
4	144	168	180	192	216	240	264	288	300	312
3	118	136	143	158	178	197	217	237	247	257
2	94	109	117	125	141	156	172	187	195	203
1	77	90	97	103	116	129	142	154	161	167
BB	54	63	67	72	81	90	99	108	112	117
BBB	46	54	58	62	70	77	85	93	97	101
T	39	46	49	52	58	65	71	78	81	84

Weight of Shot in Ounces (Grams)

Average Pellet Count — Lead Shot

Shot Size	Payload Weight														
	1/2 (14.17)	11/16 (19.49)	3/4 (21.25)	7/8 (24.80)	1 (28.35)	11/8 (31.89)	11/4 (35.44)	15/16 (37.21)	13/8 (38.98)	11/2 (42.52)	15/8 (46.06)	13/4 (49.61)	17/8 (53.15)	2 (56.70)	21/4 (63.78)
9	292	402	439	512	585	658	731	767	804	877	951	1024	1097	1170	1316
8½	249	342	373	435	497	559	621	652	683	745	808	870	932	994	1118
8	205	282	307	359	410	461	512	538	564	615	666	718	769	820	922
7½	175	241	262	306	350	394	437	459	481	525	569	613	656	700	787
6	112	155	169	197	225	253	281	295	309	337	366	394	422	450	506
5	85	117	127	149	170	191	212	223	234	255	276	298	319	340	382
4	67	93	101	118	135	152	169	177	186	202	219	236	253	270	304
2	43	60	65	76	87	98	109	114	120	130	141	152	163	174	196
BB	25	34	37	44	50	56	62	65	69	75	81	88	94	100	112

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

Average Pellet Count — Black Cloud TSS

Shot Size	Payload Weight	
	1 (28.35)	11/4 (35.44)
3/9	215	280
7/BB	-	145

Average Pellet Count — Bismuth Shot

Shot Size	Payload Weight		
	11/8 (31.89)	11/4 (35.44)	13/8 (39.98)
3	137	152	168
4	170	189	208
5	219	243	268

Average Pellet Count — HEAVYWEIGHT™ TSS Shot

Shot Size	Payload Weight							
	13/16 (23.03)	11/8 (31.89)	11/2 (42.52)	15/8 (47.07)	13/4 (49.61)	2 (56.70)	21/4 (63.78)	21/2 (70.87)
9	294	408	544	-	634	-	815	-
7	-	-	283	-	330	-	424	-
7/9	-	-	-	470	-	610	-	718

Weight of Shot in Ounces (Grams)



10 GAUGE 12 GAUGE 16 GAUGE 20 GAUGE 28 GAUGE 410 BORE

Color Coding

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



Buckshot Sizes (Actual Size)



.24"
(6.10mm)



.25"
(6.35mm)



.27"
(6.86mm)



.30"
(7.62mm)



.33"
(8.38mm)



.36"
(9.14mm)

Shot Size Reference



	PELLET	T	BBB	BB	1	2	3	4	5	6	7	7½	8	8½	9	10
DIAMETER INCHES		.20	.19	.18	.16	.15	.14	.13	.12	.11	.10	.095	.09	.085	.08	.07
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	1.78

Game Guide

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

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

WATERFOWL



FLITECONTROL FLEX™ WAD



30 Percent Better Patterns*

Produce more efficient patterns through both ported chokes and standard tubes with the FLITECONTROL FLEX wad. Patent-pending rear-deploying petals feature reinforced gussets to allow them to deploy when fired through ported chokes that decrease muzzle pressure. Side-mounted slits stimulate the payload for separation from the wad at the ideal moment for consistent, deadly patterns.

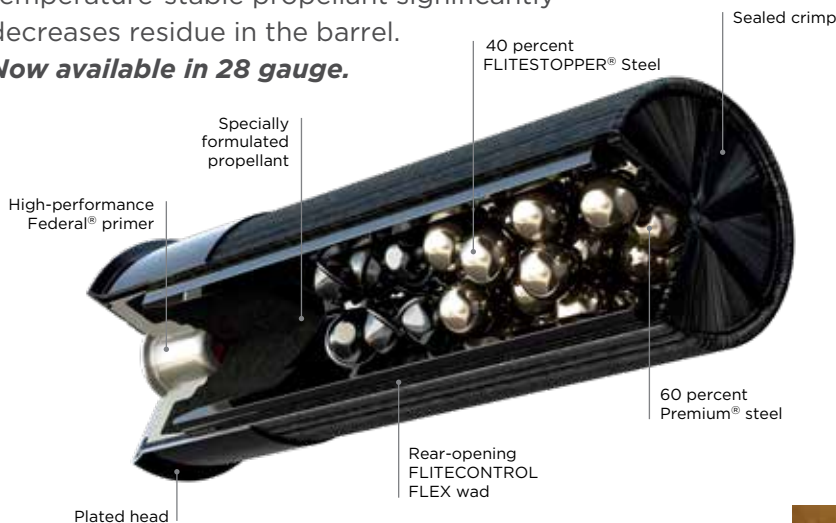
*Claim based on 10-round average pattern efficiency comparison of PWB134 BB and PWBX134 BB shot through Patternmaster®, Indian Creek Black Diamond Triumph and Kick's High Flyer™ chokes at 40 yards.

BLACK CLOUD

NEW

The best load in waterfowl hunting has never been so deadly. Black Cloud® FS Steel® is now equipped with the FLITECONTROL FLEX® wad to deliver improved pattern density and consistency through both ported and standard waterfowl chokes. The clean-burning, temperature-stable propellant significantly decreases residue in the barrel.

Now available in 28 gauge.



Cutting-Edge Technology—Literally

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





BLACK CLOUD TSS

Duck and goose hunting entered a deadly new age with the introduction of Black Cloud® TSS. Now hunters can get that same performance in both 12- and 20-gauge loads that blend FLITESTOPPER® Steel with 18 g/cc Tungsten Super Shot. More pellets. More range.



Partner Spotlight: Chad Belding
Chad Belding, host of Federal Premium-sponsored "The Fowl Life," has built a reputation as a diehard duck and goose hunter who puts birds down in any situation. That's why he loads his shotgun with Black Cloud on every hunt. It's the only ammunition that delivers the lethal performance he needs.

BLACK CLOUD HIGH VELOCITY

Shorten leads and hit birds even harder with Black Cloud® FS Steel® High Velocity. Faster. More lethal.



SPEED-SHOK

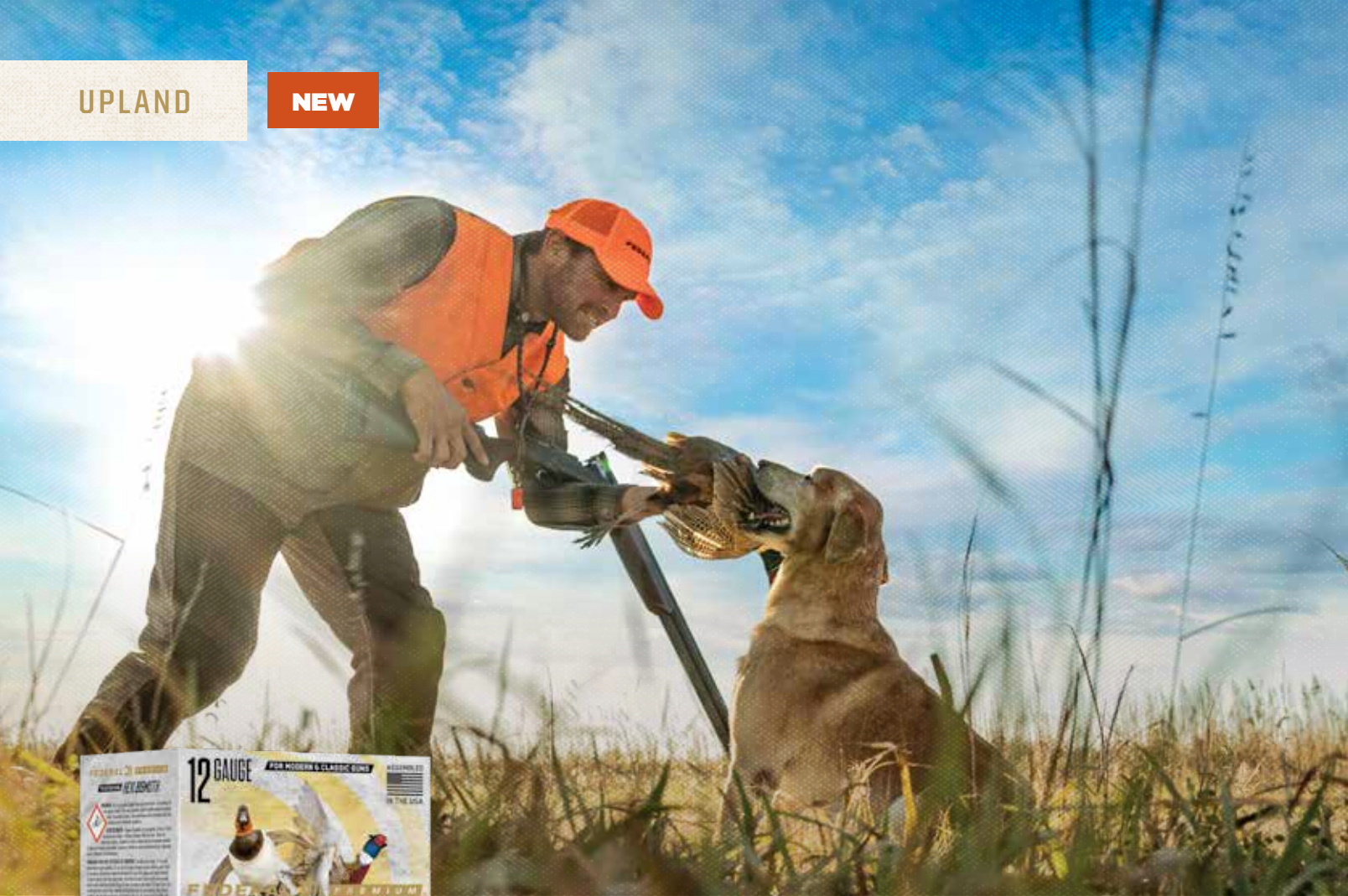
Speed kills ducks and geese. Now it kills even cleaner with redesigned Federal® Speed-Shok®. Its fast-burning powder dramatically reduces residue, while its optimized velocities knock birds out of the sky.



FOR A FULL LIST OF AVAILABLE LOADS, REFER TO PAGES 69-70.

UPLAND

NEW



NEW

HEVI-BISMUTH

WATERFOWL & UPLAND



If you've never experienced the performance of bismuth pellets, you need to. Federal Premium® HEVI-Bismuth™ hits both upland birds and waterfowl with the power of 9.6 g/cc density pellets. Sourced from our partners at HEVI-Shot®, the industry leader in pellet technology, HEVI-Bismuth shot is 22 percent denser than steel, delivering more lethal energy downrange. Launched by the FLITECONTROL FLEX® wad, bismuth pellets pattern consistently, and their metallic properties make them safe in both modern and classic shotguns.

At 9.6 g/cc, HEVI-Bismuth pellets are 22 percent denser than steel

Pellets are alloyed and cast in the USA

Softer than steel and tungsten

More downrange energy

Safe and effective for use in both classic and modern shotguns

Higher pellet counts than comparably performing steel

Rear-deploying FLITECONTROL FLEX wad creates more consistent, efficient patterns



FLITECONTROL FLEX™ WAD



PRAIRIE STORM

Whatever choke you shoot, just keep your cheek down, follow through and watch the rooster fall. Federal Premium® Prairie Storm® FS Lead loads now use the updated FLITECONTROL FLEX® wad and a mixed payload of standard pellets and FLITESTOPPER® lead to produce full, consistent patterns through both ported and standard upland chokes.



PRAIRIE STORM STEEL

Pheasants are fast, tough birds. That's why we combined the FLITECONTROL® FLEX wad and FLITESTOPPER® pellet technologies to create Prairie Storm® FS Steel. It puts more than 75 percent of its pellets in a 30-inch circle at 40 yards, with energy similar to the most popular lead loads.



FEDERAL PREMIUM UPLAND

Upland loads feature Federal Premium® copper-plated lead shot and the best components for consistent, deadly patterns. Magnum loads have buffered shot for tighter patterns, less feather draw and maximum penetration.



PAPER FLYER

Hit upland birds harder and experience the unmistakable performance of paper flyer loads. The exclusive waxed paper hull holds a powerful payload of extra-hard, copper-plated lead shot for patterns and penetration that drop the toughest, fastest upland birds.



HI-BIRD

Combine speed, hard-hitting pellets and a specialized wad to fold the highest upland birds. Hi-Bird® uses a two-piece wad with SoftCell™ technology to decrease perceived recoil and produce more consistent long-range patterns.



HI-BIRD FIBER WAD NEW

Reduce your impact in high-volume shoots. Hi-Bird Fiber Wad's cellulose-based over-powder wad construction helps minimize plastic left in the field with the same great performance as the original. It's perfect for the field or preserve hunting situations.



UPLAND STEEL WITH PAPER WAD

Put more birds on the ground—and less plastic. Federal Upland Steel with the new Paper Wad uses fiber construction to produce dove-dropping patterns.



UPLAND STEEL

Doves are done. Federal® Upland Steel serves up the patterns and power hunters need for hard-to-hit birds at a price that keeps them shooting all day. The loads are consistent and reliable, with high velocities that make the most of the steel payload.



FEDERAL GAME LOAD

Woods or fields. Fur or feathers. Federal® Game Load has you covered with carefully crafted loads packed with features that provide reliable, effective performance on a variety of small game and upland birds.

FOR A FULL LIST OF AVAILABLE LOADS, REFER TO PAGES 69-70.

TURKEY



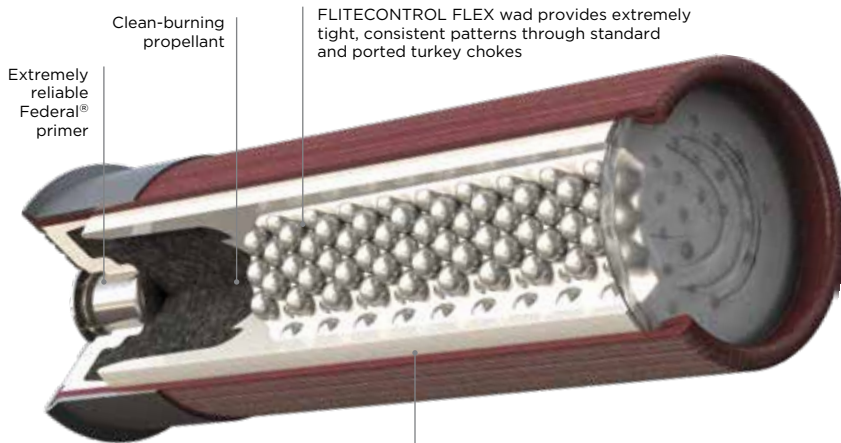
HEAVYWEIGHT TSS

Kill gobblers at longer distances than ever before. Payloads of HEAVYWEIGHT® Tungsten Super Shot provide the highest pellet counts possible, with an 18 g/cc density that's 20 percent higher than standard tungsten and 56 percent more than lead. The rear-braking FLITECONTROL FLEX® wad performs flawlessly through ported and standard turkey chokes for the most consistent, deadly patterns possible.



.410 Performer

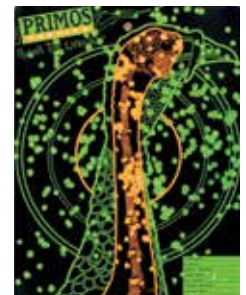
With the increased power and pellet counts of HEAVYWEIGHT TSS loads, hunters can get the patterns of hard-kicking 12-gauge lead loads while using a low-recoil .410. Target shot at 40 yards with PTSS419F 9 through a fixed full choke. Load does not include the FLITECONTROL FLEX wad.



HEAVYWEIGHT TSS payload is 56 percent denser than lead and 20 percent denser than original HEAVYWEIGHT tungsten

More Pellets, More Power

Available in 7 or 9 shot, as well as blended loads with both sizes, HEAVYWEIGHT TSS offers extremely high pellet counts—topping 800 in some offerings—for unprecedented pattern density across the range spectrum. Target shot with 2-ounce load of No. 7 and 9 HEAVYWEIGHT TSS (PTSSX197F 79) at 40 yards.





A portion of the proceeds from all Federal Premium® turkey loads goes to support the National Wild Turkey Federation and its important conservation work.

3rd Degree
PTDX157 567



Conventional lead turkey load,
1¾-ounce No. 5 shot



3RD DEGREE WITH HEAVYWEIGHT TSS

Rather than simply pattern tightly like conventional loads, 3rd Degree uses a three-stage payload consisting of No. 5 copper-plated lead, No. 6 FLITESTOPPER® lead and No. 7 HEAVYWEIGHT® TSS shot to deliver larger, more forgiving patterns at close range, while still providing deadly performance at long distance.



Close-Range Forgiveness

The FLITESTOPPER lead portion of the 3rd Degree payload spreads quickly, creating forgiving patterns close up. Targets shot with a 28-inch barrel and Indian Creek ported turkey choke at 12 yards; yellow area denotes effective pattern size.



GRAND SLAM

Extend the range and enhance the lethality of lead turkey payloads. Its FLITECONTROL FLEX wad system works in both standard and ported turkey chokes, and high-quality copper-plated lead pellets are cushioned with an advanced buffering compound to provide dense patterns and ample energy.

22plinkster

You probably know him best for hundreds of viral videos showing jaw-dropping trick shots with rimfires, but Federal ambassador 22plinkster is a diehard turkey hunter who tags his toms with HEAVYWEIGHT TSS loads. See what happened when he put 10-gauge Federal Custom Shop TSS loads to the 100-yard test: Watch the video at federalpremium.com/custom-shop.



FOR A FULL LIST OF AVAILABLE LOADS, REFER TO PAGES 69-70.

SLUG & BUCKSHOT

RIFLED BARRELS



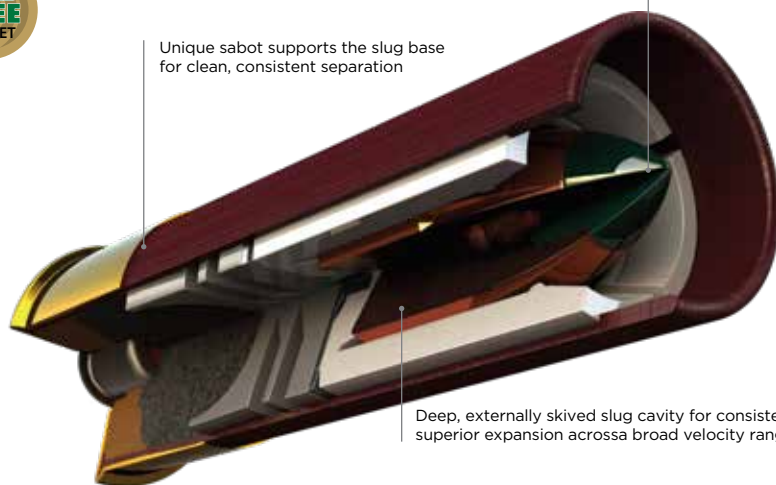
TROPHY COPPER SABOT



Harness the power of slugs without sacrifices. Trophy® Copper uses a unique sabot design to produce rifle-like accuracy at 200 yards through rifled barrels. The slug's deep, externally skived nose cavity provides superior expansion, while the polymer tip and sleek profile increase downrange velocity and game-dropping energy.

Polymer tip and sleek profile increase the ballistic coefficient for higher downrange velocity and energy

Unique sabot supports the slug base for clean, consistent separation



Deep, externally skived slug cavity for consistent, superior expansion across a broad velocity range

This is What Consistency Looks Like

By incorporating a deep, externally skived cavity in the nose, we ensure the Trophy Copper Slug opens consistently—whether it hits the target at 20 yards or 200 plus. Gelatin shot at 100 yards.





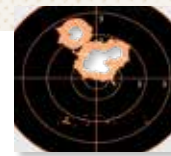
POWER-SHOK SABOT SLUG

Power-Shok sabots provide accuracy and power through fully rifled barrels.



TRUBALL RIFLED SLUG

Forget what you think you know about smoothbore slug gun accuracy. The TruBall® is the most consistent smoothbore slug on the market, capable of groups as tight as 1.4 inches at 50 yards. The TruBall system locks the components together, centering and pushing the rifled slug out of the barrel.



50 YARDS



100 YARDS

SMOOTHBORE SALVATION

TruBall prints groups at 50 and even 100 yards that would rival some rifles. Targets shot with PB127 RS at 50 and 100 yards.



POWER-SHOK RIFLED SLUG

Get solid, reliable performance from your smoothbore shotgun with Power-Shok rifled slugs.



FEDERAL PREMIUM BUCKSHOT

Engineered to provide precision and power. Federal Premium Buckshot uses copper-plated pellets to produce more downrange energy. Loads equipped with the FLITECONTROL® wad system deliver the tightest patterns possible. **Now available in 12-gauge 16-pellet 1 buck.**



POWER-SHOK BUCKSHOT

Defense. Hunting. Consistency. The Triple Plus® wad system provides better shot alignment and granulated plastic buffer keeps pellets uniform in shape for tight patterns. **Look for new 12-gauge 16-pellet 1 buck option.**

FOR A FULL LIST OF AVAILABLE LOADS AND BALLISTICS, REFER TO PAGES 69-70.

TARGET SHOTSHELL

*"It hits hard,
kicks less and
shoots like a dream."*

- DERRICK MEIN
FEDERAL AMBASSADOR
CHAMPION SHOOTER
OLYMPIC QUALIFIER

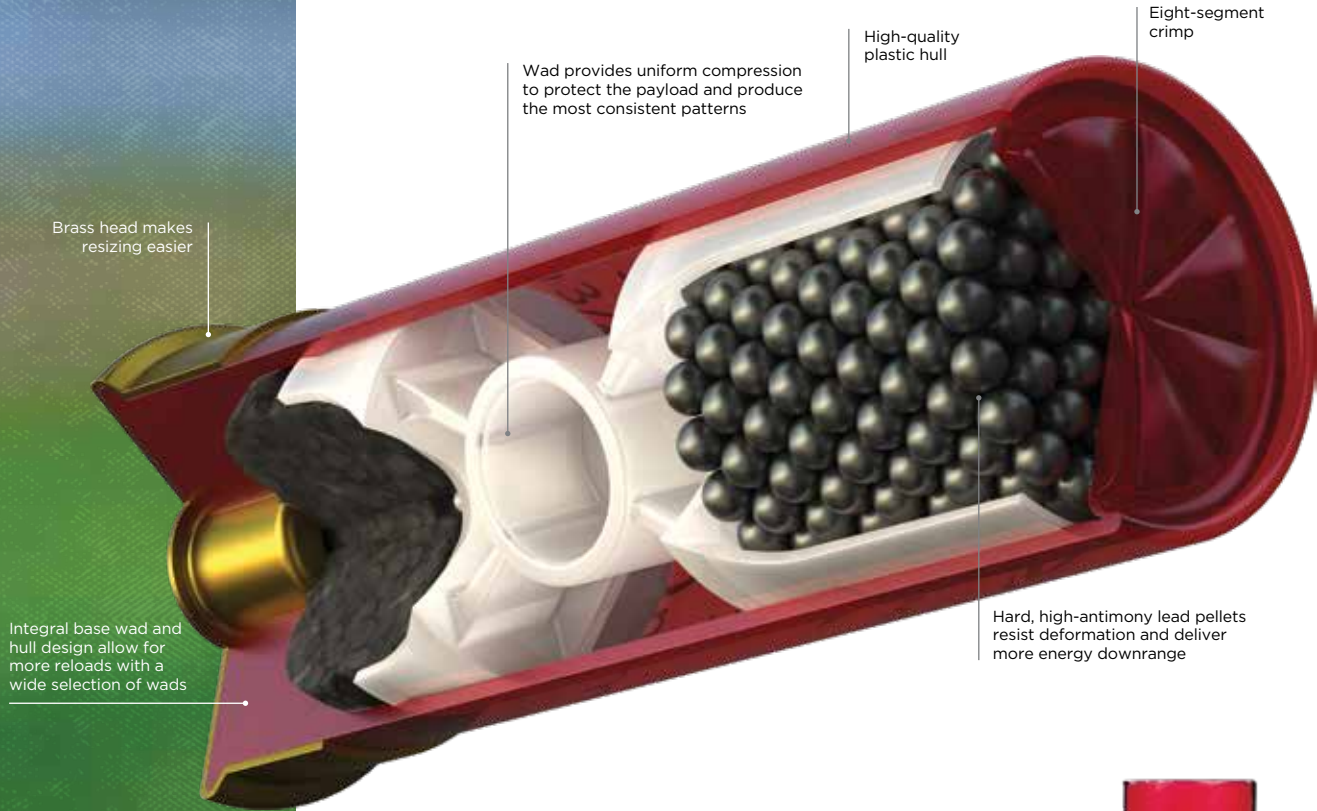


HIGH OVER ALL NEW

Engineered for the most elite trap, skeet and sporting clays shooters, Federal Premium® High Over All™ leaves a trail of shattered targets in its wake and more reloads per shell. Its hard, high-antimony lead payload and wad produce the most consistent patterns, while the solid brass head and hull design make reloading easier than ever. It's the ultimate competition load for the world's best shooters.

Best Components

No cut corners. No expense spared. With its solid brass head, tapered hull, integral basewad, and hard, high-antimony lead shot, High Over All uses the industry's best shotshell components to deliver the patterns and performance the world's best shooters demand.



More Reloads, More Versatility

Supercharge your press. High Over All .410, 12-, 20- and 28-gauge offerings let you pump out more reloads with an integral basewad and tapered hull that can be reloaded more often and are compatible with a wide range of available wads.



Compression Zone

We've virtually eliminated flyers with the Podium wad, featured in all 12- and 20-gauge High Over All offerings. Our engineers gave it a cylinder-shaped compression zone that supports the payload and provides the ultimate protection from deformation at ignition.

FOR A FULL LIST OF AVAILABLE LOADS AND BALLISTICS, REFER TO PAGES 69-70.

TARGET SHOTSHELL

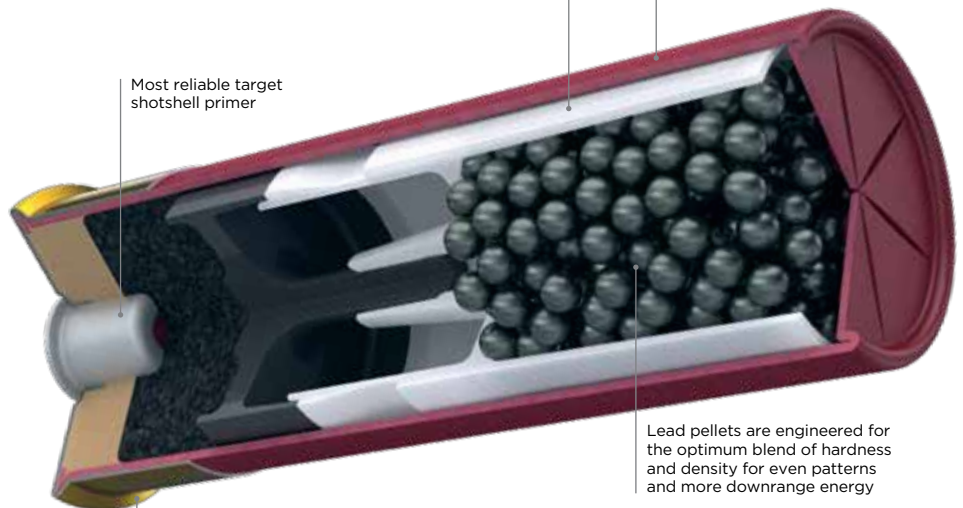


Two-piece wad utilizes SoftCell™ technology to decrease perceived recoil and produce better, more consistent patterns

Exclusive Federal Premium® paper hull construction

GOLD MEDAL® PAPER

Combine our classic paper hull and high-quality brass head with an improved design that provides less felt recoil and improved shot hardness.



Most reliable target shotshell primer

Lead pellets are engineered for the optimum blend of hardness and density for even patterns and more downrange energy

High-quality brass head for flawless cycling and extraction



TOP GUN WITH PAPER WAD

Experience the clay-crushing performance of new Top Gun® with Paper Wad. Its exclusive fiber wad construction produces effective patterns with less plastic afield.



TOP GUN

Even the most challenging targets are no match for Top Gun. The loads' high-quality lead shot produce even patterns that crush clays. **Also available in loads specifically designed for sporting clays and other competitive shooting.**



SHORTY

Great things really do come in small packages. Although just 1¾ inches long, Shorty shotshells offer similar patterns, energy and accuracy as full-size counterparts.

FOR A FULL LIST OF AVAILABLE LOADS AND BALLISTICS, REFER TO PAGES 69-70.



Team Federal Dominates

Federal ambassadors Vincent Hancock, Kayle Browning and Brian Burrows recently proved their mettle with a string of medals at the Tokyo Olympics.

Hancock made the Men's Skeet finals in a shoot-off and then bested the remaining five contenders hitting 59 of 60 targets. He is the first shooter to ever win three gold medals in this event, adding to the ones he won in Beijing in 2008 and London in 2012.

Browning captured a silver medal in Women's Trap. The Arkansas native shot her way into the finals in the sixth position and then climbed into the final pairing.

In his Olympic debut, Burrows claimed the bronze medal.




"Our company couldn't be prouder of the performances of our sponsored team of world-class shooters at the Olympic games. They competed at the highest level against the world's best shotgun shooters and were simply amazing. It brings such pride to our dedicated American employees that these athletes achieved their dreams of standing on the podium with an Olympic medal having used our American-made products."

JASON VANDERBRINK
PRESIDENT OF FEDERAL AMMUNITION








CONNECT WITH US. WE SHARE YOUR PASSION FOR ALL THINGS SHOOTING.


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