



Lgs ache, lungs burn, heart soars.

Soaring high with the world leader in ammunition

A message from Federal Premium's President, Mark W. DeYoung

Hearts soar both in the field and on the range. Here at Federal Premium Ammunition, we have combined our passion for the shooting sports, our commitment to quality and value, and the very best people in the industry. This combination and the use of advanced research, science and engineering have created a full line of exciting products.

It all started here at Federal with the advent of a variety of non-toxic shotgun shells and the creation of our Premium centerfire rifle ammunition. Now we're beginning *The Shotshell Revolution* and the strengthening of the most extensive centerfire rifle line available. We're in the midst of the most exciting era in ammunition advancement since the inception of the company and invite you to join us as we take ammunition into the 21st century.

As you'll see in the pages of this catalog, Federal Premium is dedicated to providing you with more choices than any other ammunition company. We offer not only the latest and greatest methods for achieving success in the field or at the range, we also offer the most technologically advanced ammunition available.

We know your free time is of great value to you, that's why you choose to spend it in the outdoors. It's also why we're making sure your hunting and shooting experience is the best it can be. We fully understand that Every Shot Counts!

Thanks for your passion and support of the great outdoors and thanks for choosing Federal Premium.

Sincerely,



Mark W. DeYoung
President, Federal Premium Ammunition



You can't explain it. You live it, breathe it, feel it to your bones. Hunting and all that it encompasses cannot be compared to any other of man's pursuits. Success is earned through skill, effort and hard-won experience and when it finally comes, the exhilaration satisfies so thoroughly that it sustains you through the rest of the year. You come to need wild places like you

need air and look forward to hunting season more than anyone on earth. At Federal Premium®, we've been enhancing that feeling for over 80 years. We offer the broadest, most specialized ammunition for every shooting situation. Because at the core of every hunt is knowing that Every Shot Counts™.

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NOSLER® ACCUBOND™

Released by Nosler last year, AccuBond combines the terminal performance of a bonded bullet with the accuracy and retained energy of a Ballistic Tip. Watch for 5 new loads in .280 Rem., 7mm-08, 7mm Rem. Mag. and 7mm Win. Short Mag.



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 down-range velocity, less wind drift, flat trajectory and unmatched accuracy in reaching distant game.



TROPHY BONDED® BEAR CLAW®

For 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.



SABOT SLUG

In a rifled barrel or rifled choke tube, Premium® sabot slugs are capable of 2½ inch groups or better at 100 yards. They are the standard by which all other sabot slugs are measured.

Bullet Offerings



BARNES® TRIPLE SHOCK™ X-BULLET™

Extremely accurate, the TSX-Bullet® delivers superior expansion and deep penetration. The all-copper design provides high weight retention for outstanding Knockdown Power®.



NOSLER® SOLID BASE™ BOAT-TAIL

A Federal® exclusive, Solid Base is extremely accurate and consistent. Its tapered jacket and boat-tail design provides the ultimate in controlled expansion and reliable performance. Available in 21 configurations.



WOODLEIGH® WELDCORE® SOFT POINT AND 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.



TRUBALL™ SLUG New

The biggest advance in smoothbore slugs in 50 years, this slug features new technology that centers the slug in the bore. TruBall slugs punch out as tight as 2-inch groups at 50 yards with up to 75% improvement in group size consistency. For use in smoothbore barrels only.



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. For 2005, look for the new Nosler Ballistic Tip 22-250 Rem. 40 grain.



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 for 2005 are 270 Win. and 270 WSM loads.



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® EXPANDER™ SLUG

This solid copper sabot slug retains 100% of its original weight and features a huge hollow nose that expands up to 150% more than standard slugs for incredible knockdown energy. Accuracy is impressive, as tight as 2-inch groups at 100 yards. For use in fully rifled barrels only.

Where passion meets precision.



TRADITION, INNOVATION, SELECTION. IT'S ALL HERE.

Out in the wild, you put your faith in experience, gut instinct and the extraordinary performance of Federal Premium®. Over the years, Federal Premium Vital•Shok™ has evolved into the broadest, most

specialized line of big game ammunition available. Meticulously engineered cartridges are matched to the world's finest bullets – many inspired in big game country by Jack Carter, John Nosler and other

legendary figures. For 2005, we're introducing the next revolution in big game ammunition: Vital•Shok® TruBall™ rifled slug, delivering power and accuracy that is unprecedented in smoothbore slug hunting.

FEDERAL LOAD NO.	CALIBER	BULLET WGT. IN GRAINS	GRAMS	BULLET STYLE	FACTORY PRIMER NO.	MUZZLE	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 ZEROED AT @ YARDS SIGHTS			ABOVE OR BELOW LINE OF SIGHT IF 1.5 INCHES ABOVE BORE LINE					TEST BARREL LENGTH INCHES	FEDERAL LOAD NO.				
							100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	MUZZLE	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	AVERAGE RANGE	50 YDS.	100 YDS.	LONG RANGE	200 YDS.	300 YDS.	400 YDS.			500 YDS.			
2	P223T2	223 Rem. (5.56x45mm)	55	3.56	Trophy Bonded Bear Claw	205	3100	2630	2210	1830	1500	1240	1175	845	595	410	275	185	1.5	6.3	15.5	30.3	52.3	-0.2	⊕	-3.6	-14.3	0.7	1.8	⊕	-8.9	-28.6	-64.5	24	P223T2
1, 2	P223Q	223 Rem. (5.56x45mm)	60	3.89	Nosler Partition	205	3160	2740	2320	1900	1680	1400	1330	1000	735	530	375	260	1.2	5.3	13.0	25.2	42.9	-0.2	⊕	-3.2	-12.7	0.5	1.6	⊕	-7.9	-24.8	-54.3	24	P223Q
2	P22250T1	22-250 Rem.	55	3.56	Trophy Bonded Bear Claw	210	3500	3080	2610	2190	1810	1480	1585	1155	830	585	400	265	1.2	5.2	12.6	24.5	42.2	-0.4	⊕	-2.2	-9.6	0.2	1.1	⊕	-6.3	-19.9	-44.7	24	P22250T1
2	P22250G	22-250 Rem.	60	3.89	Nosler Partition	210	3500	3040	2630	2250	1910	1600	1630	1235	920	675	485	340	1.1	4.7	11.3	21.6	36.9	-0.3	⊕	-2.3	-9.6	0.2	1.1	⊕	-6.2	-19.3	-42.4	24	P22250G
2	P243D	243 Win. (6.16x51mm)	85	5.51	Sierra GameKing BTHP	210	3320	3070	2820	2600	2380	2170	2080	1770	1505	1070	890	760	0.7	2.7	6.3	11.6	19.0	-0.3	⊕	-2.2	-8.8	0.2	1.1	⊕	-5.5	-16.1	-33.0	24	P243D
2	P243J	243 Win. (6.16x51mm)	95	6.16	Nosler Ballistic Tip	210	3030	2780	2540	2310	2100	1900	1935	1630	1360	1130	930	760	0.8	3.2	7.5	14.1	23.0	-0.2	⊕	-3.0	-11.4	0.5	1.5	⊕	-6.9	-20.4	-41.5	24	P243J
2	P243C	243 Win. (6.16x51mm)	100	6.48	Sierra GameKing BTSP	210	2960	2760	2570	2390	2210	2040	1945	1690	1465	1265	1085	925	0.7	2.7	6.1	11.3	18.4	-0.2	⊕	-3.1	-11.4	0.6	1.5	⊕	-6.8	-19.7	-39.8	24	P243C
2	P243E	243 Win. (6.16x51mm)	100	6.48	Nosler Partition**	210	2960	2730	2510	2300	2100	1910	1945	1655	1395	1175	980	810	0.8	3.1	7.2	13.5	21.9	-0.2	⊕	-3.2	-11.9	0.6	1.6	⊕	-7.1	-20.9	-42.3	24	P243E
2	P243S1	243 Win. (6.16x51mm)	100	6.48	Nosler Solid Base BT	210	2970	2730	2500	2280	2070	1870	1960	1650	1385	1150	950	780	0.8	3.2	7.6	14.2	23.1	-0.2	⊕	-3.2	-11.9	0.6	1.6	⊕	-7.2	-21.1	-43.0	24	P243S1
2	P6C	6mm Rem.	100	6.48	Nosler Partition	210	3100	2860	2640	2420	2220	2030	2135	1820	1545	1305	1095	910	0.7	2.9	6.7	12.5	20.3	-0.3	⊕	-2.8	-10.5	0.4	1.4	⊕	-6.3	-18.7	-38.1	24	P6C
2	P257B	257 Roberts (High Velocity + P)	120	7.78	Nosler Partition	210	2780	2560	2360	2160	1970	1790	2060	1750	1480	1240	1035	855	0.8	3.2	7.8	14.3	23.4	-0.1	⊕	-3.8	-13.9	0.8	1.9	⊕	-8.3	-23.9	-48.5	24	P257B
2	P2506D	25-06 Rem.	100	6.48	Nosler Ballistic Tip	210	3210	2960	2720	2500	2280	2080	2290	1945	1645	1380	1155	955	0.7	2.9	6.7	12.3	20.2	-0.3	⊕	-2.5	-9.7	0.3	1.2	⊕	-6.0	-17.5	-35.8	24	P2506D
2	P2506H	25-06 Rem.	100	6.48	Barnes Triple Shock X-Bullet	210	3210	2970	2750	2530	2330	2140	2290	1960	1675	1425	1205	1015	0.6	2.7	6.2	11.5	18.8	-0.3	⊕	-2.4	-9.5	0.3	1.2	⊕	-5.8	-17.0	-34.8	24	P2506H
2	P2506E	25-06 Rem.	115	7.45	Nosler Partition	210	2990	2750	2520	2300	2090	1890	2285	1925	1620	1350	1115	915	0.8	3.2	7.5	14.0	22.6	-0.2	⊕	-3.1	-11.7	0.6	1.6	⊕	-7.0	-20.8	-42.2	24	P2506E
2	P2506T1	25-06 Rem.	115	7.45	Trophy Bonded Bear Claw	210	2990	2740	2500	2270	2050	1850	2285	1910	1590	1310	1075	870	0.8	3.4	7.9	14.8	24.1	-0.2	⊕	-3.2	-11.9	0.6	1.6	⊕	-7.2	-21.1	-43.2	24	P2506T1
2	P2506C	25-06 Rem.	117	7.58	Sierra GameKing BTSP	210	2990	2760	2540	2330	2130	1940	2320	1980	1675	1410	1180	980	0.7	3.0	7.0	13.1	21.3	-0.2	⊕	-3.1	-11.5	0.5	1.5	⊕	-6.9	-20.3	-41.2	24	P2506C
2	P260B	260 Rem.	120	7.78	Nosler Ballistic Tip	210	2950	2750	2550	2360	2180	2010	2320	2005	1730	1485	1265	1075	0.7	2.8	6.3	11.8	19.1	-0.2	⊕	-3.1	-11.6	0.6	1.6	⊕	-6.9	-20.1	-40.5	24	P260B
2	P260A	260 Rem.	140	9.07	Sierra GameKing BTSP	210	2750	2570	2390	2220	2060	1900	2350	2050	1775	1535	1320	1125	0.7	2.7	6.5	12.0	19.3	-0.1	⊕	-3.7	-13.7	0.8	1.9	⊕	-8.0	-23.1	-46.1	24	P260A
2	P270D	270 Win.	130	8.42	Sierra GameKing BTSP	210	3060	2830	2620	2420	2220	2030	2705	2320	1980	1685	1425	1195	0.6	2.8	6.5	12.1	19.7	-0.3	⊕	-2.9	-10.7	0.5	1.4	⊕	-6.4	-18.9	-38.5	24	P270D
2	P270F	270 Win.	130	8.42	Nosler Ballistic Tip	210	3060	2840	2630	2420	2230	2050	2705	2325	1990	1695	1435	1210	0.6	2.8	6.4	11.9	19.4	-0.3	⊕	-2.8	-10.7	0.5	1.4	⊕	-6.4	-18.8	-38.2	24	P270F
2	P270L	270 Win.	130	8.42	Barnes Triple Shock X-Bullet	210	3060	2830	2620	2420	2220	2030	2705	2320	1980	1685	1425	1195	0.6	2.8	6.5	12.1	19.7	-0.3	⊕	-2.9	-10.7	0.5	1.4	⊕	-6.4	-18.9	-38.5	24	P270L
2	P270P	270 Win.	130	8.42	Nosler Partition	210	3060	2830	2610	2400	2200	2010	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
2	P270S1	270 Win.	130	8.42	Nosler Solid Base BT	210	3050	2820	2600	2400	2200	2010	2685	2295	1955	1660	1395	1165	0.7	2.9	6.6	12.4	20.1	-0.2	⊕	-2.9	-10.9	0.5	1.4	⊕	-6.5	-19.2	-39.0	24	P270S1
2	P270A1	270 Win.	140	9.07	Nosler AccuBond	215	2950	2760	2580	2400	2230	2070	2705	2365	2060	1790	1545	1330	0.6	2.6	5.8	10.8	17.6	-0.2	⊕	-3.1	-11.4	0.6	1.5	⊕	-6.7	-19.6	-39.5	24	P270A1
2	P270T1	270 Win.	140	9.07	Trophy Bonded Bear Claw	210	2940	2700	2480	2260	2060	1870	2685	2370	2060	1590	1320	1080	0.8	3.2	7.6	14.1	22.9	-0.2	⊕	-3.3	-12.2	0.6	1.6	⊕	-7.3	-21.5	-43.6	24	P270T1
2	P270T3	270 Win.	140	9.07	Trophy Bonded Bear Claw	210	3100	2860	2630	2410	2200	2000	2985	2535	2145	1800	1505	1245	0.7	3.0	6.9	12.8	20.9	-0.3	⊕	-2.8	-10.6	0.4	1.4	⊕	-6.4	-18.9	-38.5	24	P270T3
2	P270C	270 Win.	150	9.72	Sierra GameKing BTSP	210	2850	2660	2480	2300	2130	1970	2705	2355	2040	1760	1510	1290	0.7	2.7	6.3	11.8	18.9	-0.2	⊕	-3.4	-12.5	0.7	1.7	⊕	-7.4	-21.4	-43.0	24	P270C
2	P270E	270 Win.	150	9.72	Nosler Partition	210	2850	2650	2460	2280	2110	1940	2705	2345	2020	1735	1485	1260	0.7	2.8	6.5	12.2	19.5	-0.2	⊕	-3.4	-12.6	0.7	1.7	⊕	-7.4	-21.7	-43.4	24	P270E
2	P270WSMB	270 Win. Short Magnum	130	8.42	Nosler Ballistic Tip	215	3300	3070	2840	2630	2430	2240	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
2	P270WSMD	270 Win. Short Magnum	130	8.42	Barnes Triple Shock X-Bullet	215	3280	3040	2810	2600	2390	2190	3105	2665	2280	1945	1645	1385	0.6	2.6	6.1	11.1	18.2	-0.3	⊕	-2.3	-9.0	0.2	1.1	⊕	-5.6	-16.2	-33.1	24	P270WSMD
2	P270WSMP	270 Win. Short Magnum	130	8.42	Nosler Partition	215	3280	3040	2810	2590	2380	2180	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
2	P270WSMS1	270 Win. Short Magnum	130	8.42	Nosler Solid Base BT	215	3280	3040	2810	2600	2390	2190	3105	2665	2280	1945	1645	1385	0.6	2.6	6.1	11.1	18.2	-0.3	⊕	-2.3	-9.0	0.2	1.1	⊕	-5.6	-16.2	-33.1	24	P270WSMS1
2	P270WSMA1	270 Win. Short Magnum	140	9.07	Nosler AccuBond	215	3200	3000	2810	2630	2450	2280	3185	2795	2455	2145	1865	1615	0.5	2.2	5.2	9.5	15.3	-0.3	⊕	-2.4	-9.2	0.3	1.2	⊕	-5.6	-16.2	-32.7	24	P270WSMA1
2	P270WSMT1	270 Win. Short Magnum	1																																

FEDERAL USAGE	LOAD NO.	CALIBER	BULLET WGT. IN		BULLET STYLE	FACTORY PRIMER NO.	VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)					ENERGY IN FOOT-POUNDS (TO NEAREST 5 FOOT-POUNDS)					WIND DRIFT IN INCHES (10 MPH CROSSWIND)					HEIGHT OF BULLET TRAJECTORY ZEROED AT @ YARDS SIGHTS			ABOVE OR BELOW LINE OF SIGHT IF 1.5 INCHES ABOVE BORE LINE					TEST BARREL LENGTH INCHES	FEDERAL LOAD NO.				
			GRAINS	GRAMS			100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	MUZZLE	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	50 YDS.	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.							
2	P3030D	30-30 Win.	170	11.02	Nosler Partition	210	2200	1890	1620	1380	1190	1060	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	-114.3	24	P3030D
2	P308F	308 Win. (7.62x51mm)	150	9.72	Nosler Ballistic Tip	210	2820	2610	2410	2220	2040	1870	2650	2270	1940	1645	1385	1160	0.8	3.0	7.2	13.2	21.4	-0.2	⊕	-3.6	-13.2	0.7	1.8	⊕	-7.8	-22.7	-45.7	24	P308F
2	P308S	308 Win. (7.62x51mm)	150	9.72	Nosler Partition	210	2840	2600	2380	2160	1960	1770	2685	2255	1880	1560	1280	1040	0.9	3.4	8.2	15.2	25.0	-0.2	⊕	-3.6	-13.5	0.7	1.8	⊕	-8.1	-23.4	-48.0	24	P308S
2	P308S1	308 Win. (7.62x51mm)	150	9.72	Nosler Solid Base BT	210	2800	2570	2350	2150	1950	1760	2610	2200	1845	1535	1265	1035	0.9	3.4	8.1	15.0	24.6	-0.1	⊕	-3.7	-13.9	0.8	1.9	⊕	-8.3	-23.9	-48.9	24	P308S1
2	P308V	308 Win. (7.62x51mm)	150	9.72	Barnes Triple Shock X-Bullet	210	2820	2610	2410	2210	2030	1860	2650	2255	1930	1635	1375	1145	0.8	3.1	7.3	13.5	21.8	-0.2	⊕	-3.6	-13.2	0.7	1.8	⊕	-7.9	-22.8	-46.0	24	P308V
2	P308C	308 Win. (7.62x51mm)	165	10.69	Sierra GameKing BTSP	210	2700	2510	2330	2160	1990	1830	2670	2310	1990	1700	1450	1225	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	P308C
2	P308S2	308 Win. (7.62x51mm)	165	10.69	Nosler Solid Base BT	210	2670	2460	2270	2080	1900	1730	2610	2225	1880	1585	1320	1100	0.8	3.3	8.0	14.6	24.1	-0.1	⊕	-4.2	-15.3	1.0	2.1	⊕	-8.9	-25.7	-52.5	24	P308S2
2	P308T1	308 Win. (7.62x51mm)	165	10.69	Trophy Bonded Bear Claw	210	2700	2440	2200	1970	1760	1570	2670	2185	1775	1425	1135	900	1.0	4.2	10.0	18.7	31.1	-0.1	⊕	-4.4	-15.9	1.0	2.2	⊕	-9.4	-27.7	-57.5	24	P308T1
3	P308E	308 Win. (7.62x51mm)	180	11.66	Nosler Partition	210	2620	2430	2240	2060	1890	1730	2745	2350	2000	1695	1425	1195	0.7	3.3	7.8	14.2	23.4	-0.1	⊕	-4.4	-15.9	1.0	2.2	⊕	-9.2	-26.4	-53.7	24	P308E
3	P308G	308 Win. (7.62x51mm)	180	11.66	Nosler Partition	210	2740	2550	2370	2200	2030	1870	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
2	P3006G	30-06 Spring. (7.62x63mm)	150	9.72	Sierra GameKing BTSP	210	2910	2680	2470	2260	2070	1880	2820	2400	2030	1710	1425	1180	0.8	3.1	7.3	13.6	22.0	-0.2	⊕	-3.3	-12.4	0.6	1.7	⊕	-7.4	-21.6	-43.7	24	P3006G
2	P3006P	30-06 Spring. (7.62x63mm)	150	9.72	Nosler Ballistic Tip	210	2910	2700	2490	2300	2110	1930	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
2	P3006S1	30-06 Spring. (7.62x63mm)	150	9.72	Nosler Solid Base BT	210	2900	2670	2440	2230	2030	1840	2800	2365	1990	1660	1375	1130	0.8	3.3	7.7	14.3	23.3	-0.2	⊕	-3.4	-12.6	0.7	1.7	⊕	-7.6	-22.1	-44.9	24	P3006S1
2	P3006AD	30-06 Spring. (7.62x63mm)	165	10.69	Nosler Partition	210	2830	2610	2400	2190	2000	1820	2935	2490	2100	1760	1465	1210	0.8	3.2	7.7	14.2	23.1	-0.2	⊕	-3.6	-13.3	0.7	1.8	⊕	-7.9	-23.0	-46.8	24	P3006AD
2	P3006D	30-06 Spring. (7.62x63mm)	165	10.69	Sierra GameKing BTSP	210	2800	2610	2420	2240	2070	1910	2870	2490	2145	1840	1570	1330	0.7	2.8	6.7	12.4	19.9	-0.2	⊕	-3.6	-13.2	0.7	1.8	⊕	-7.8	-22.5	-45.1	24	P3006D
2	P3006Q	30-06 Spring. (7.62x63mm)	165	10.69	Nosler Ballistic Tip	210	2800	2610	2430	2250	2080	1920	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
2	P3006S2	30-06 Spring. (7.62x63mm)	165	10.69	Nosler Solid Base BT	210	2790	2580	2380	2180	2000	1830	2850	2435	2070	1750	1465	1220	0.8	3.1	7.5	13.7	22.3	-0.1	⊕	-3.7	-13.7	0.8	1.9	⊕	-8.1	-23.4	-47.3	24	P3006S2
2	P3006T1	30-06 Spring. (7.62x63mm)	165	10.69	Trophy Bonded Bear Claw	210	2800	2540	2290	2050	1830	1630	2870	2355	1915	1540	1225	970	1.0	4.0	9.6	17.9	29.8	-0.1	⊕	-3.9	-14.5	0.8	2.0	⊕	-8.7	-25.5	-53.2	24	P3006T1
3	P3006T4	30-06 Spring. (7.62x63mm)	165	10.69	Trophy Bonded Bear Claw	210	3000	2730	2470	2230	2000	1790	3295	2725	2235	1820	1465	1170	0.9	3.6	8.5	15.9	26.2	-0.2	⊕	-3.2	-12.1	0.6	1.6	⊕	-7.3	-21.6	-44.6	24	P3006T4
3	P3006A1	30-06 Spring. (7.62x63mm)	180	11.66	Nosler AccuBond	215	2700	2530	2360	2200	2050	1900	2915	2555	2230	1940	1680	1445	0.6	2.6	6.3	11.6	18.6	-0.1	⊕	-3.9	-14.1	0.9	2.0	⊕	-8.3	-23.7	-47.1	24	P3006A1
3	P3006AE	30-06 Spring. (7.62x63mm)	180	11.66	Barnes Triple Shock X-Bullet	210	2700	2510	2340	2160	2000	1840	2915	2525	2180	1870	1600	1360	0.7	2.9	6.9	12.6	20.5	-0.1	⊕	-4.0	-14.4	0.9	2.0	⊕	-8.5	-24.2	-48.6	24	P3006AE
3	P3006F	30-06 Spring. (7.62x63mm)	180	11.66	Nosler Partition	210	2700	2510	2320	2140	1970	1810	2915	2510	2150	1830	1550	1305	0.7	3.0	7.3	13.4	21.7	-0.1	⊕	-4.0	-14.6	0.9	2.0	⊕	-8.6	-24.6	-49.6	24	P3006F
3	P3006R	30-06 Spring. (7.62x63mm)	180	11.66	Nosler Partition	210	2880	2690	2500	2320	2150	1990	3315	2885	2495	2150	1845	1575	0.7	2.7	6.3	11.7	18.9	-0.2	⊕	-3.3	-12.2	0.6	1.7	⊕	-7.2	-21.0	-42.3	24	P3006R
3	P3006S3	30-06 Spring. (7.62x63mm)	180	11.66	Nosler Solid Base BT	210	2710	2530	2350	2180	2020	1870	2935	2550	2210	1905	1630	1390	0.7	2.8	6.7	12.3	19.9	-0.1	⊕	-3.9	-14.2	0.9	2.0	⊕	-8.4	-23.9	-47.8	24	P3006S3
2	P3006T2	30-06 Spring. (7.62x63mm)	180	11.66	Trophy Bonded Bear Claw	210	2700	2460	2220	2010	1800	1610	2915	2410	1975	1605	1295	1035	0.9	4.0	9.4	17.6	29.3	-0.1	⊕	-4.3	-15.6	1.0	2.1	⊕	-9.2	-27.0	-56.0	24	P3006T2
3	P3006T3	30-06 Spring. (7.62x63mm)	180	11.66	Trophy Bonded Bear Claw	210	2880	2630	2380	2160	1940	1740	3315	2755	2270	1855	1505	1205	0.9	3.6	8.7	16.1	26.6	-0.2	⊕	-3.5	-13.3	0.7	1.8	⊕	-8.0	-23.3	-48.2	24	P3006T3
3	P300HA	300 H&H Magnum	180	11.66	Nosler Partition	215	2880	2620	2380	2150	1930	1730	3315	2750	2260	1845	1490	1190	0.9	3.7	8.8	16.3	27.0	-0.2	⊕	-3.5	-13.3	0.7	1.8	⊕	-8.0	-23.4	-48.5	24	P300HA
2	P300WT4	300 Win. Magnum	150	9.72	Trophy Bonded Bear Claw	215	3280	2980	2700	2440	2190	1960	3585	2960	2430	1980	1595	1275	0.8	3.3	7.8	14.6	23.9	-0.3	⊕	-2.4	-9.6	0.3	1.2	⊕	-6.0	-17.9	-37.0	24	P300WT4
2	P300WK	300 Win. Magnum	165	10.69	Nosler Partition	215	3050	2820	2590	2380	2180	1990	3410	2905	2465	2080	1740	1450	0.7	3.0	6.8	12.8	20.8	-0.2	⊕	-2.9	-10.9	0.5	1.5	⊕	-6.6	-19.4	-39.5	24	P300WK
2	P300WN	300 Win. Magnum	165	10.69	Nosler Ballistic Tip	215	3050	2850	2650	2470	2290	2120	3410	2970	2580	2230	1920	1645	0.6	2.5	5.8	10.7	17.4	-0.3	⊕	-2.8	-10.5	0.5	1.4	⊕	-6.3	-18.3	-37.1	24	P300WN
2	P300WS1	300 Win. Magnum	165	10.69	Nosler Solid Base BT	215	3140	2910	2700	2500	2300	2110	3610	3110	2670	2280	1940	1635	0.6	2.6	6.2	11.3	18.6	-0.3	⊕	-2.6	-10.0	0.4	1.3	⊕	-6.1	-17.7	-36.0	24	P300WS1
3	P300WA1	300 Win. Magnum	180	11.66	Nosler AccuBond	215	2960	2780	2610	2440	2280	2130	3500	3090	2715	2380	2075	1805	0.6	2.4	5.4	10.0	16.2	-0.2	⊕	-3.0	-11.1	0.5	1.5	⊕	-6.6	-19.0	-38.3	24	P300WA1
3	P300WD2	300 Win. Magnum	180	11.66	Nosler Partition Protected Pt.	215	2960	2700	2450	2210	1990	1780	35																						



Cape Shok

Cape Shok | CENTERFIRE RIFLE SPECIFICATIONS



Trophy Bonded Bear Claw



Trophy Bonded Sledgehammer Solid



Nosler Partition



Woodleigh Weldcore Soft Point



Woodleigh Solid

FEDERAL LOAD NO.	USAGE	CALIBER	BULLET WGT. IN GRAINS GRAMS		BULLET STYLE	FACTORY PRIMER NO.	VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)					ENERGY IN FOOT-POUNDS (TO NEAREST 5 FOOT-POUNDS)					WIND DRIFT IN INCHES 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					TEST BARREL LENGTH INCHES	FEDERAL LOAD NO.							
			100 YDS.	200 YDS.			300 YDS.	400 YDS.	500 YDS.	MUZZLE	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	50 YDS.	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.									
4	P375F	375 H&H Magnum	300	19.44	Nosler Partition	215	2530	2320	2120	1930	1750	1580	4265	3585	2990	2475	2040	1670	0.9	3.9	9.0	17.0	28.0	-0.0	⊕	-5.0	-17.7	1.2	2.5	⊕	-10.1	-29.8	-61.1	24	P375F
4	P375T1	375 H&H Magnum	300	19.44	Trophy Bonded Bear Claw	215	2530	2260	2000	1770	1550	1360	4265	3395	2670	2075	1600	1235	1.2	5.2	12.4	23.5	39.0	0.0	⊕	-5.3	-19.4	1.4	2.7	⊕	-11.4	-34.1	-71.4	24	P375T1
4	P375T2	375 H&H Magnum	300	19.44	Trophy Bonded Sledgehammer Solid	215	2530	2160	1820	1520	1280	1100	4265	3105	2210	1550	1090	810	1.7	7.4	18.3	35.4	59.1	⊕	-0.1	-6.2	-23.0	0.1	⊕	-6.0	-22.7	-54.6	-108.4	24	P375T2
4	P375T3	375 H&H Magnum	300	19.44	Trophy Bonded Bear Claw	215	2600	2340	2100	1870	1660	1470	4505	3650	2935	2330	1835	1440	1.0	4.6	10.8	20.7	34.1	-0.0	⊕	-4.9	-17.6	1.2	2.5	⊕	-10.2	-30.8	-63.7	24	P375T3
4	P416C	416 Rigby	400	25.92	Nosler Partition	216	2440	2230	2020	1830	1650	1490	5285	4400	3630	2970	2420	1960	1.1	4.3	10.0	19.0	31.0	⊕	-0.1	-5.8	-19.8	0.1	⊕	-5.5	-19.5	-44.3	-81.5	24	P416C
4	P416T1	416 Rigby	400	25.92	Trophy Bonded Bear Claw	216	2370	2150	1940	1750	1570	1410	4990	4110	3350	2715	2190	1760	1.2	4.6	11.1	20.8	33.9	⊕	-0.2	-6.4	-21.9	0.1	⊕	-6.0	-21.3	-48.1	-88.8	24	P416T1
4	P416T2	416 Rigby	400	25.92	Trophy Bonded Sledgehammer Solid	216	2370	2120	1880	1660	1460	1290	4990	3975	3130	2445	1895	1480	1.4	5.4	13.3	24.8	41.2	⊕	-0.2	-6.7	-23.3	0.1	⊕	-6.2	-22.6	-51.4	-97.0	24	P416T2
4	P416RA	416 Rem. Magnum	400	25.92	Nosler Partition	216	2410	2200	2000	1810	1630	1470	5160	4290	3540	2900	2365	1915	1.1	4.3	10.2	19.3	31.3	⊕	-0.2	-6.0	-20.5	0.1	⊕	-5.7	-20.1	-45.5	-83.6	24	P416RA
4	P416RT1	416 Rem. Magnum	400	25.92	Trophy Bonded Bear Claw	216	2400	2180	1970	1770	1590	1430	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
4	P416RT2	416 Rem. Magnum	400	25.92	Trophy Bonded Sledgehammer Solid	216	2400	2150	1910	1700	1500	1330	5115	4105	3255	2560	2000	1570	1.3	5.2	12.7	23.6	39.2	⊕	-0.2	-6.4	-22.3	0.1	⊕	-6.0	-21.7	-49.2	-92.8	24	P416RT2
4	P458T1	458 Win. Magnum	400	25.92	Trophy Bonded Bear Claw	215	2380	2160	1960	1770	1590	1430	5030	4160	3410	2775	2245	1810	1.2	4.5	10.7	20.2	32.9	⊕	-0.2	-6.3	-21.5	0.1	⊕	-5.9	-20.9	-47.3	-87.1	24	P458T1
4	P458T2	458 Win. Magnum	500	32.40	Trophy Bonded Bear Claw	215	2090	1870	1660	1470	1310	1180	4850	3865	3060	2405	1905	1540	1.3	6.3	14.7	27.6	44.9	⊕	-0.7	-10.0	-31.9	0.3	⊕	-8.7	-29.8	-67.3	-125.2	24	P458T2
4	P458T3	458 Win. Magnum	500	32.40	Trophy Bonded Sledgehammer Solid	215	2090	1860	1650	1460	1300	1170	4850	3850	3035	2375	1875	1510	1.3	6.4	15.0	28.2	45.8	⊕	-0.7	-10.1	-32.1	0.3	⊕	-8.7	-30.0	-67.9	-126.4	24	P458T3
4	P470A	470 Nitro Express	500	32.40	Woodleigh Weldcore SP	216	2150	1890	1660	1450	1270	1130	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
4	P470B	470 Nitro Express	500	32.40	Woodleigh Solid	216	2150	1890	1660	1450	1270	1130	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
4	P470T1	470 Nitro Express	500	32.40	Trophy Bonded Bear Claw	216	2150	1940	1740	1560	1400	1260	5130	4175	3370	2710	2175	1760	1.2	5.4	13.0	24.0	39.3	⊕	-0.6	-8.9	-28.9	0.3	⊕	-7.8	-27.2	-60.7	-112.2	24	P470T1
4	P470T2	470 Nitro Express	500	32.40	Trophy Bonded Sledgehammer Solid	216	2150	1940	1740	1560	1400	1260	5130	4175	3370	2710	2175	1760	1.2	5.4	13.0	24.0	39.3	⊕	-0.6	-8.9	-28.9	0.3	⊕	-7.8	-27.2	-60.7	-112.2	24	P470T2

Additional .375 loadings available in Vital-Shok™ (see page 10).

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

HE = High Energy (NOT for use in semi-automatic rifles) ⊕ = Nickel Plated Case BTHP = Boat-Tail Hollow Point BTSP = Boat-Tail Soft Point BT = Boat-Tail FN = Flat Nose Partition is a registered trademark of Nosler Bullets, Inc.



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Federal Premium® Cape•Shok™ is the ultimate ammunition for the world's most difficult and dangerous game. It's the number one choice of Safari Club International members. And it's available with your choice of the best bullets made, including Trophy Bonded® and bullets from Nosler® and Woodleigh®. All matched with the finest components for optimum performance.



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.



PROUD SUPPORTER OF SAFARI CLUB INTERNATIONAL, PROMOTING HUNTING AND CONSERVATION WORLDWIDE

Vital Shok | SLUG SPECIFICATIONS

FEDERAL LOAD NO.	USAGE	SHELL LENGTH GAUGE INCHES	SLUG TYPE	SLUG WEIGHT OUNCES GRAINS	VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)					ENERGY IN FOOT-POUNDS (TO NEAREST 5 FOOT-POUNDS)					HEIGHT OF SLUG TRAJECTORY IN INCHES ABOVE OR BELOW LINE OF SIGHT IF ZEROED AT 25 YARDS. SIGHTS 5 INCHES ABOVE BORE LINE					TEST BARREL LENGTH INCHES					
					MUZZLE	25YDS.	50YDS.	75YDS.	100YDS.	MUZZLE	25YDS.	50YDS.	75YDS.	100YDS.	125YDS.	25 YDS.	50YDS.	75YDS.	100YDS.		125YDS.				
PREMIUM® BARNES EXPANDER SABOT SLUGS (Fully Rifled Slug Barrel)																									
2	P151XS	12 3	76	Barnes Sabot	1	438	1530	1450	1390	1330	1270	1220	2260	2055	1875	1710	1565	1440	1.3	2.0	1.6	⊕	-3.0	30	
2	P150XS	12 2½	70	Barnes Sabot	1	438	1450	1380	1320	1260	1210	1160	2045	1860	1700	1550	1425	1315	1.4	2.2	1.8	⊕	-3.3	30	
2	P152XS	12 2½	70	Barnes Sabot	¾	325	1900	1810	1720	1640	1560	1480	2630	2385	2165	1960	1775	1605	0.7	1.2	1.0	⊕	-1.9	30	
2	P207XS	20 3	76	Barnes Sabot	¾	325	1450	1380	1320	1250	1200	1150	1530	1385	1260	1145	1050	965	1.5	2.3	1.8	⊕	-3.3	30	
2	P209XS	20 3	76	Barnes Sabot	¾	275	1900	1800	1710	1620	1530	1450	2190	1965	1765	1585	1420	1270	0.7	1.2	1.0	⊕	-1.9	30	
PREMIUM® SABOT SLUGS (Fully Rifled Slug Barrel or Rifled Choke Tube)																									
2	P151SS	12 3	76	Hydra-Shok Sabot HP	1	438	1550	1440	1340	1250	1180	1110	2335	2015	1750	1530	1350	1205	1.4	2.2	1.8	⊕	-3.3	30	
2	P154SS	12 2½	70	Hydra-Shok Sabot HP	1	438	1450	1350	1260	1190	1120	1070	2045	1775	1550	1365	1220	1105	1.6	2.5	2.0	⊕	-3.7	30	
2	P203SS	20 2½	70	Hydra-Shok Sabot HP	¾	273	1400	1290	1190	1110	1050	1000	1190	1005	860	750	670	610	1.8	2.8	2.3	⊕	-4.2	30	
2	P207SS	20 3	76	Hydra-Shok Sabot HP	¾	273	1450	1330	1220	1140	1070	1020	1275	1070	910	785	695	625	1.7	2.7	2.2	⊕	-4.0	30	
PREMIUM® TRUBALL RIFLED SLUGS (Smoothbore Barrel)																									
New	2	PB127LRS	12 2½	70	TRUBALL Rifled Slug	1	438	1300	1150	1040	970	910	860	1645	1280	1055	910	805	725	0.6	⊕	-2.6	-7.4	-14.8	30
New	2	PB127RS	12 2½	70	TRUBALL Rifled Slug	1	438	1600	1370	1180	1050	970	910	2490	1810	1355	1080	915	800	0.3	⊕	-1.9	-5.7	-11.7	30
New	2	PB203RS	20 2½	70	TRUBALL Rifled Slug	¾	325	1600	1390	1220	1100	1010	950	1865	1410	1090	875	745	650	0.3	⊕	-1.8	-5.3	-10.9	30

HP = Hollow Point. This trajectory table was 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.

LR Look for the Low Recoil logo on select products for a softer shooting load.

Vital Shok | BUCKSHOT SPECIFICATIONS

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	SHELL LENGTH MM	MUZZLE VELOCITY	SHOT SIZES
P108	10	3½	89	1100	1 Buck - 27 Pellets
P108	10	3½	89	1100	18 Pellets - 00 Buck
P108	10	3½	89	1100	24 Pellets - 1 Buck
P135	12	3½	89	1100	18 Pellets - 00 Buck
P135	12	3½	89	1100	24 Pellets - 1 Buck
P158	12	3	76	1225	10 Pellets - 00 Buck
P158	12	3	76	1210	15 Pellets - 00 Buck

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	SHELL LENGTH MM	MUZZLE VELOCITY	SHOT SIZES
P158	12	3	76	1040	24 Pellets - 1 Buck
P158	12	3	76	1210	41 Pellets - 4 Buck
P156	12	2¾	70	1290	12 Pellets - 00 Buck
P156	12	2¾	70	1250	34 Pellets - 4 Buck
P154	12	2¾	70	1325	9 Pellets - 00 Buck
P258	20	3	76	1175	18 Pellets - 2 Buck
P256	20	2¾	70	1100	20 Pellets - 3 Buck



Vital Shok

Vital Shok | HANDGUN SPECIFICATIONS

FEDERAL LOAD NO.	USAGE	CALIBER	BULLET WGT. IN GRAINS	GRAMS	BULLET STYLE	FACTORY PRIMER NO.	VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)					ENERGY IN FOOT-POUNDS (TO NEAREST 5 FOOT-POUNDS)					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.	100 YDS.		
2	P357J	357 Magnum	180	11.66	CastCore	100	1250	1200	1160	1120	1080	625	575	535	495	465	⊕	-0.6	-2.8	-6.8	4-V
2	P41B	41 Rem. Magnum	250	16.20	CastCore	150	1250	1200	1160	1120	1080	865	800	740	690	645	⊕	-0.6	-2.8	-6.8	6½-V
2	P44E	44 Rem. Magnum	300	19.44	CastCore	150	1250	1200	1160	1120	1080	1040	960	890	830	775	⊕	-0.6	-2.8	-6.8	6½-V

This trajectory table was 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.

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

New TRUBALL™ THE MOST DEVASTATING ACCURACY TO EVER COME OUT OF A SMOOTHBORE SHOTGUN.

Introducing Vital•Shok™ TruBall™ Rifled Slug, the most accurate slug ever made for smoothbore shotguns. The unique slug-centering TruBall locks the slug and wad in place, to punch out as tight as 2-inch groups at 50 yards with up to 75% improvement

in group size consistency over standard rifled slugs. TruBall technology is the most revolutionary advance in slug hunting in 50 years, and the first Foster slug to give deer hunters near rifled-bore performance from a smoothbore shotgun.



Unique slug-centering system keeps the slug straight and balanced in the barrel, for accuracy unmatched by any other smoothbore rifled slug.

TRUBALL™ DELIVERS A DEADLY IMPROVEMENT IN ACCURACY

VITAL•SHOK TRUBALL SLUG 1.4 inch spread.
CONVENTIONAL SLUG 4.5 inch spread.



Five round group. Four-inch targets were shot with a Remington 870 cylinder bore at 50 yards. Results may vary.

The revolutionary TruBall™ stabilizing system boasts tremendously improved accuracy over a conventional rifled slug, plus incredible group size consistency -- up to 75% better than a conventional slug. It's the first Foster slug to give hunters near rifled-bore performance from a smoothbore shotgun, for more accuracy, more reliability, more confidence on every hunt.



NEVER HAVE IMPACT, ACCURACY AND ADRENALINE COME TOGETHER LIKE THIS.

If you hunt deer with a shotgun or handgun, everything you need is right here. Our Vital•Shok™ slug, buckshot and handgun loads are second to none. For 2005, Federal Premium® revolutionizes smoothbore

shotgun hunting with the Vital•Shok TruBall™ Rifled Slug that punches out groups as tight as 2" at 50 yards. And this year we're offering more choices than ever. Our proven Premium Sabot Slug delivers

as tight as 2½" groups at 100 yards with rifled barrels. Our Premium Barnes® Expander™ Sabot Slug expands up to 150% more than standard slugs and provides groups as tight as 2" at 100 yards.



Pellet Diameter	BUCKSHOT SIZES						
	NO.000	NO.00	NO.0	NO.1	NO.2	NO.3	NO.4
Inches	.36	.33	.32	.30	.27	.25	.24
mm	9.14	8.38	8.13	7.62	6.86	6.35	6.10

V•Shok

V•Shok | RIMFIRE SPECIFICATIONS

USAGE	FEDERAL LOAD NO.	CALIBER	BULLET WGT. IN GRAINS	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 @ YARDS. SIGHTS 1.5 INCHES ABOVE BORE LINE				FEDERAL LOAD NO.				
					MUZZLE	50 YDS.	100 YDS.	150 YDS.	MUZZLE	50 YDS.	100 YDS.	150 YDS.	50 YDS.	100 YDS.	150 YDS.	AVERAGE RANGE	LONG RANGE	50 YDS.	100 YDS.		150 YDS.			
1	P770	17 HMR	17	1.10	Speer TNT JHP	2550	2170	1820	1520	245	175	125	85	0.9	3.8	9.4	⊕	-1.4	-5.4	0.7	⊕	-3.4	P770	
1	P771	17 HMR	17	1.10	Hornady V-Max	2550	2210	1900	1620	245	185	135	100	0.8	3.2	8.0	⊕	-1.3	-5.0	0.6	⊕	-3.1	P771	
New	1	P780	17 Mach 2	17	1.10	Hornady V-Max	2010	1720	1460	1250	152	111	80	59	1.0	4.6	11.0	⊕	-2.5	-9.0	1.2	⊕	-5.4	P780
1	P765	22 Win. Magnum	30	1.94	Speer TNT HP	2200	1780	1420	1160	320	210	135	90	1.3	6.0	14.7	⊕	-2.3	-9.0	1.2	⊕	-5.6	P765	

V•Shok | CENTERFIRE SPECIFICATIONS

USAGE	FEDERAL LOAD NO.	CALIBER	BULLET WGT. IN GRAINS	BULLET STYLE	FACTORY PRIMER NO.	VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)					ENERGY IN FOOT-POUNDS (TO NEAREST 5 FOOT-POUNDS)					WIND DRIFT IN INCHES 10 MPH CROSSWIND					HEIGHT OF BULLET TRAJECTORY ZEROED AT @ YARDS SIGHTS				ABOVE OR BELOW LINE OF SIGHT IF 1.5 INCHES ABOVE BORE LINE				TEST BARREL LENGTH INCHES	FEDERAL LOAD NO.					
						MUZZLE	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	MUZZLE	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	50 YDS.	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.							
1	P222C	222 Rem. (5.56x43mm)	40	2.59	Nosler Ballistic Tip	205	3450	2990	2570	2190	1840	1530	1055	790	585	425	300	210	1.2	4.9	11.9	22.9	39.1	-0.3	⊕	-2.4	-10.2	0.3	1.2	⊕	-6.5	-20.4	-45.0	24	P222C
1	P223E	223 Rem. (5.56x45mm)	55	3.56	Sierra GameKing BTHP	205	3240	2770	2340	1950	1610	1330	1280	935	670	465	315	215	1.3	5.8	14.2	27.7	47.6	-0.3	⊕	-3.1	-12.6	0.5	1.5	⊕	-8.0	-25.3	-56.6	24	P223E
1	P223F	223 Rem. (5.56x45mm)	55	3.56	Nosler Ballistic Tip	205	3240	2870	2530	2210	1920	1650	1280	1005	780	595	450	335	1.0	4.3	10.4	19.6	33.2	-0.3	⊕	-2.8	-11.0	0.4	1.4	⊕	-6.8	-20.8	-44.6	24	P223F
1	P223P	223 Rem. (5.56x45mm)	40	2.59	Nosler Ballistic Tip	205	3700	3210	2770	2370	2010	1680	1215	915	680	500	360	250	1.1	4.5	10.8	20.8	35.3	-0.4	⊕	-1.9	-8.3	0.1	0.9	⊕	-5.5	-17.3	-38.0	24	P223P
1	P22250B	22-250 Rem.	55	3.56	Sierra GameKing BTHP	210	3680	3280	2920	2590	2280	1990	1655	1315	1045	820	635	485	0.8	3.5	8.4	15.7	26.2	-0.4	⊕	-1.7	-7.6	0.0	0.9	⊕	-5.0	-15.1	-32.1	24	P22250B
1	P22250F	22-250 Rem.	55	3.56	Nosler Ballistic Tip	210	3680	3270	2900	2560	2240	1950	1655	1305	1025	800	615	460	0.9	3.7	8.7	16.4	27.3	-0.4	⊕	-1.8	-7.7	0.1	0.9	⊕	-5.0	-15.4	-32.8	24	P22250F
New	1	P22250H	22-250 Rem.	40	2.59	Nosler Ballistic Tip	210	4150	3610	3130	2700	2300	1940	1530	1155	870	645	470	0.9	4.0	9.4	17.9	30.1	-0.5	⊕	-1.2	-6.0	-0.2	0.6	⊕	-4.2	-13.2	-28.8	24	P22250H
1	P220B	220 Swift	40	2.59	Nosler Ballistic Tip	210	4250	3690	3200	2770	2370	2000	1605	1210	910	680	500	355	0.9	3.8	9.2	17.3	29.2	-0.5	⊕	-1.1	-5.5	-0.2	0.5	⊕	-3.9	-12.4	-27.3	24	P220B
1	P220V	220 Swift	52	3.37	Nosler Ballistic Tip	210	3830	3370	2960	2580	2230	1910	1695	1310	1010	765	575	420	0.9	3.9	9.2	17.5	29.2	-0.4	⊕	-1.6	-7.2	0.0	0.8	⊕	-4.8	-14.9	-31.9	24	P220V
1	P243F	243 Win. (6.16x51mm)	70	4.54	Nosler Ballistic Tip	210	3400	3070	2760	2470	2200	1950	1795	1460	1185	950	750	590	0.8	3.5	8.2	15.3	25.2	-0.3	⊕	-2.2	-9.0	0.2	1.1	⊕	-5.7	-17.1	-35.7	24	P243F
1	P243H	243 Win. (6.16x51mm)	55	3.56	Nosler Ballistic Tip	210	3850	3430	3040	2690	2360	2060	1810	1435	1130	880	680	515	0.8	3.5	8.3	15.5	25.8	-0.4	⊕	-1.5	-6.7	-0.1	0.7	⊕	-4.5	-13.8	-29.5	24	P243H
1	P2506G	25-06 Rem.	85	5.51	Nosler Ballistic Tip	210	3550	3230	2930	2640	2380	2130	2380	1965	1615	1320	1070	855	0.7	3.0	7.2	13.3	22.0	-0.4	⊕	-1.8	-7.8	0.1	0.9	⊕	-5.0	-15.0	-31.2	24	P2506G

VARMINT HUNTING DEMANDS HIGH-TECH SHOOTING.



Nothing compares to varmint hunting. It demands the best of you, your shooting skills and your ammunition. Over the years, the development team at Federal Premium® has teamed up with Speer®, Sierra®, Nosler®, and Hornady® to build the finest collection of specialized varmint loads. Find your game and start calling. Federal Premium® V•Shok™ will take it from there.



YOU BRING VARMINTS IN, THESE WILL BRING THEM DOWN.

Squeezing the trigger, unleashing bullets with amazing speed and, shot after shot, witnessing their incredible accuracy. That's what you're out there for. Varmint hunters are a special breed, and Federal Premium® V•Shok™ is their special line of centerfire and rimfire ammunition. V•Shok™ delivers nothing short of sizzling

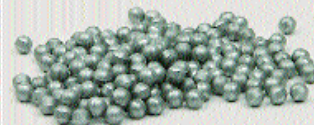
velocities – provided by cartridges featuring “must-have” bullets the likes of Nosler® Ballistic Tip® and Sierra® GameKing® – all in your favorite varmint calibers. Federal Premium V•Shok. You know what the “V” stands for. “Shok” means devastating impact every time. Always has, always will.

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
 JHP = Jacketed Hollow Point HP = Hollow Point BTHP = Boat-Tail Hollow Point TNT is a registered trademark of Speer Bullet Co. V-Max is a registered trademark of Hornady® Ballistic Tip is a registered trademark of Nosler Bullets, Inc. GameKing is a registered trademark of Sierra Bullets, Inc. 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.

Something new is in the air. And you're all over it.



Fog thins, birds cup and commit, then fold faster than you can say "Federal Premium®". Federal pioneered steel shot, so it's no surprise that we now introduce the next generation of steel shot alternatives. New Ultra•Shok™



High Density™ Waterfowl gives hunters a harder-hitting load with more pellets, tighter patterns, higher payloads and something more – affordability. Our new Precision Tuned Shot™ is denser and softer than steel for enhanced performance, and packs

more energy into each pellet. From the Duck Capital of the World to the local slough, serious waterfowlers lead their shots with high expectations. Federal Premium always delivers.



PRACTICE, AND THE BEST POSSIBLE LOAD, MAKE PERFECT.

To drop fast-flying waterfowl, pay attention to the three "P's": pattern, penetration and performance. Pattern your load on paper targets at your normal

shooting distance to make sure the shot pattern is dense enough to fold ducks, and your shot size provides good penetration at that distance.

Finally, practice your swing on moving targets and estimate ranges under varying light. More details on patterning and selection at www.federalpremium.com.



	GAUGE	DISTANCE (YDS)	CHOKE	STEEL SHOT SIZES	HIGH DENSITY SHOT SIZES
LARGE DUCKS (Mallard, Pintail, Black)	10,12,16,20 10,12,16,20	20-30 30+	IC/M IC/M/F	1,2,3,4 BB,1,2,3	2 2
MEDIUM DUCKS (Wood Duck, Scaup, Widgeon)	12,16,20 12,16,20	20-30 30+	IC/M IC/M/F	2,3,4,6 1,2,3,4	N/A N/A
SMALL DUCKS (Teal, Bufflehead)	12,16,20 12,16,20	20-30 30+	IC/M/F IC/M/F	3,4,6 3,4	N/A N/A



	GAUGE	DISTANCE (YDS)	CHOKE	STEEL SHOT SIZES	HIGH DENSITY SHOT SIZES
LARGE GEESE (Giant, Western Canada)	10,12 10,12	20-30 30+	IC/M IC/M	T, BBB, BB T, BBB, BB	BB, 2 BB, 2
MEDIUM GEESE (Snow, Lesser Canada)	10,12 10,12	20-30 30+	IC/M IC/M	BBB, BB, 1 BBB, BB, 1	BB, 2 BB, 2

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

SHOT SIZES LEAD AND STEEL

	T	BBB	BB	1	2	3	4	5	6	7	7½	8	8½	9
Pellet Diameter														
Inches	.20	.19	.18	.16	.15	.14	.13	.12	.11	.10	.095	.09	.085	.08
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

Ultra Shok

High Density | SHOTSHELL SPECIFICATIONS

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	SHELL LENGTH MM	MUZZLE VELOCITY	SHOT CHARGE WGT. OUNCES	GRAMS	SHOT SIZES
New PHD197	12	3	76	1450	1 1/4	46.07	BB+, 2+
New PHD195	12	3 1/2	89	1450	1 1/4	46.07	BB+, 2+
Tungsten-Iron							
MWT181	12	3	76	850	1 1/4	31.90	BB

Look for the Low Recoil logo on select products for a softer shooting load.

A TIGHTER PATTERN BRINGS DOWN MORE BIRDS.

Ultra•Shok™ High Density™ plus shot delivers tighter, denser patterns for more downrange effectiveness. This means Knockdown Power® right where you need it for more downed birds.



HEAVIER AND SOFTER FOR BETTER SHOOTING

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



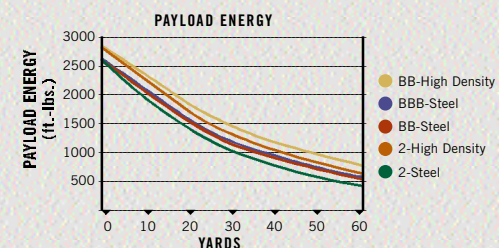
PRECISION TUNED™ SHOT FOR MORE PUNCH.

New Ultra•Shok™ High Density™ Waterfowl features 100% Precision Tuned round shot.

Up to a 10% increase in pellet count means more pellets on target, less wind drift and simply more payload.



The pellets are softer and 25% heavier than steel, for more energy and deeper penetration.



New

YOU'VE PUT A LOT INTO THIS DAY. SO HAVE WE.

Non-toxic shot gets better and better, and Federal Premium® continues to lead the charge. We're proud to introduce Ultra•Shok™ High Density™ for geese and large ducks. Precision Tuned™ High

Density is 20% softer than steel, with much higher density. That means less drift, greater downrange energy and deeper penetration. It's the hardest hitting non-toxic waterfowl load we've ever made. And it's

affordable – less than other steel alternative loads. Available in BB+ and 2+ shot sizes, Ultra•Shok Precision Tuned™ High-Density gives hunters a new choice in high performance non-toxic shot.

Ultra Shok

HEAVY HIGH VELOCITY STEEL *Ultra Shok* | SHOTSHELL SPECIFICATIONS

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	SHELL LENGTH MM	MUZZLE VELOCITY	SHOT CHARGE WGT. OUNCES	GRAMS	SHOT SIZES
PW107	10	3 1/2	89	1450	1 1/2	42.53	T,B,BB,BB,1,2,3
PW134	12	3 1/2	89	1500	1 1/2	42.53	T,B,BB,BB,1,2,3,4
PW142	12	3	76	1450	1 1/4	35.44	T,B,BB,BB,1,2,3,4,6
PW145	12	2 1/2	70	1375	1 1/4	35.44	T,B,BB,BB,1,2,3,4,6

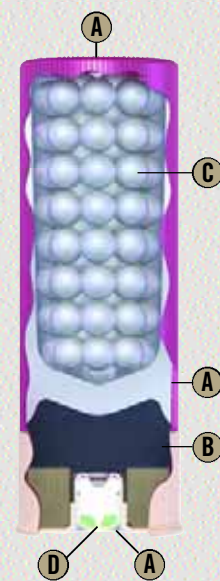
HIGH VELOCITY STEEL

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	SHELL LENGTH MM	MUZZLE VELOCITY	SHOT CHARGE WGT. OUNCES	GRAMS	SHOT SIZES
PW102	10	3 1/2	89	1500	1 1/2	38.98	T,B,BB,BB,1,2,3
PW133	12	3 1/2	89	1550	1 1/2	38.98	T,B,BB,BB,1,2,3,4
PW143	12	3	76	1550	1 1/4	31.90	T,B,BB,BB,1,2,3,4,6
PW168	16	2 1/2	70	1350	1 1/4	26.59	2, 4
PW209	20	3	76	1350	1	28.35	1,2,3,4
PW208	20	2 1/2	70	1450	3/4	21.26	4,6

THE INSIDE STORY ON THE BEST STEEL.

This is the best steel you can buy. Here's why:

- A** *Three uniform water resistant seals at the crimp, wad and primer.*
- B** *The fastest speeds, thanks to our advanced, clean burning propellant.*
- C** *Uniform plated shot for corrosion resistance and less feather draw.*
- D** *Industry's most reliable primer.*



Topics like decoy spreads, shotgun brands and blind placements can spark lively discussions among waterfowl hunters. But when the talk turns to steel shot, serious hunters all agree: for reliable success,



IT CAN'T GET ANY BETTER THAN THIS. THEN IT DOES.

shoot Federal Premium® Ultra•Shok™. Federal introduced steel over 30 years ago, and has been making it better and faster ever since. Our High Velocity loads are faster and harder-hitting than ever.

Our Heavy High Velocity is packed with larger shot payloads for the ultimate in downrange pellet energy and more pellets on target. It all means shorter leads, longer range, more ducks and a richer experience.



Old long-beard is on his roost and so are you, with a big surprise.



They may come in silent. They may come in gobbling. Let them come. This year's turkey hunt promises to be your best, thanks to revolutionary new shotshell technology from Federal Premium®. Introducing the FLITECONTROL™ wad system. It

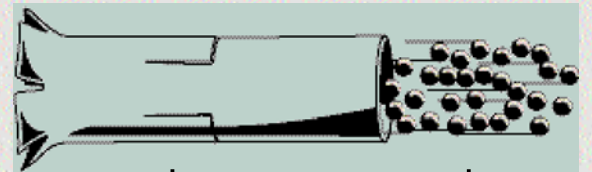
literally rotates shotshell technology 180 degrees. The result is the hardest hitting, tightest patterning shotshells ever chambered for turkey hunting. It features both lead and new HEAVYWEIGHT™ shot, the densest shot available for more energy



on target. Suddenly every shotgun is a turkey gun, and turkey hunters are having more success than ever before. Try these new Mag•Shok™ loads for yourself and experience the difference.

HOW THE NEW FLITECONTROL™ WAD PUTS YOU IN CONTROL.

In traditional shotshells, the wad peels away from the shot. Our revolutionary new FLITECONTROL™ wad opens in the rear, creating an air brake that pulls the wad off the shot string. The shot is released at precisely the right moment, and the benefits are astounding:



TIGHTER, FARTHER, BETTER. TOGETHER AT LAST.

patterns up to 30% tighter and more pellets on target. The FLITECONTROL wad allows the shot to reach farther, delivering superior downrange pellet energy. In the end, this innovative thinking is really about one thing: giving that big tom the surprise of his life.

HIT HARDER THAN EVER BEFORE.

The new HEAVYWEIGHT™ Mag•Shok™ load is specially formulated for turkey hunters. It's 35% more dense than lead to produce tighter patterns and deeper penetration. Unlike competitive lead alternative irregularly shaped pellets, HEAVYWEIGHT pellets are totally uniform to reduce drag and deliver a highly concentrated impact.

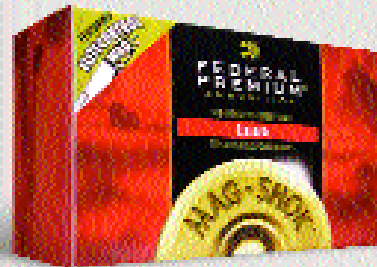


HIGH VELOCITY LEAD TURKEY *Mag•Shok* | SHOTSHELL SPECIFICATIONS

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	SHELL LENGTH MM	MUZZLE VELOCITY	DRAM EQUIV.	SHOT CHARGE WGT. OUNCES	GRAMS	SHOT SIZES
GST101	10	3 1/2	89	1300	Mag.	2	56.71	4, 5, 6
New PFC139	12	3 1/2	89	1300	Mag.	2	56.70	4, 5, 6
New PFC157	12	3	76	1300	Max.	1 1/2	49.61	4, 5, 6
GST156	12	2 1/4	70	1315	4	1 1/2	42.53	4, 5, 6
GST258	20	3	76	1185	3	1 1/4	37.20	4, 5, 6

MAGNUM LEAD TURKEY

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	SHELL LENGTH MM	MUZZLE VELOCITY	DRAM EQUIV.	SHOT CHARGE WGT. OUNCES	GRAMS	SHOT SIZES
New PFC135	12	3 1/2	89	1150	4 1/2	2 1/4	63.78	4, 5, 6
New PFC159	12	3	76	1150	4	2	56.70	4, 5, 6



New



LOOK FOR THIS LOGO ON THE BOX INDICATING A PORTION OF PROCEEDS GO TO SUPPORT THE NWTf

Mag•Shok

FLITECONTROL™ YOU'VE NEVER SEEN ANYTHING LIKE THIS. NEITHER HAS THAT BIG TOM.

Chasing gobblers isn't for the weak-kneed or the unprepared. At the moment of truth, success or failure depends on your shooting skills and your

shotshell pattern. All the more reason to chamber the best – Premium® Mag•Shok™ or new Premium Mag•Shok products featuring the FLITECONTROL™

wad. Look for the National Wild Turkey Federation® logo, signaling Federal's commitment to organizations that keep game in the wild and protect our sport.



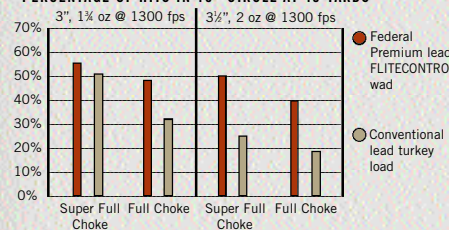
New

MAGNUM HEAVYWEIGHT TURKEY

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	SHELL LENGTH MM	MUZZLE VELOCITY	DRAM EQUIV.	SHOT CHARGE WGT. OUNCES	GRAMS	SHOT SIZES
New PHT191	12	3 1/2	89	1300	Max.	1 1/4	53.16	5, 6
New PHT193	12	3	76	1300	4	1 1/4	40.07	5, 6

INNOVATIVE TECHNOLOGY DELIVERS A TOTALLY DIFFERENT SHOOTING EXPERIENCE. PREPARE FOR A WHOLE NEW GAME.

PERCENTAGE OF HITS IN 15" CIRCLE AT 40 YARDS



WIDE SPREAD, FEWER KILLS

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



Conventional Turkey Load
1-3/4 oz., #6 lead shot,
1300 fps, 40 yards
13 critical hits, 38 total hits



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

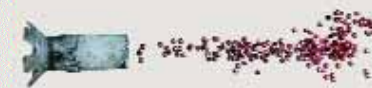


PHOTO TAKEN 19 FEET FROM MUZZLE

UP TO 30% TIGHTER.

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.

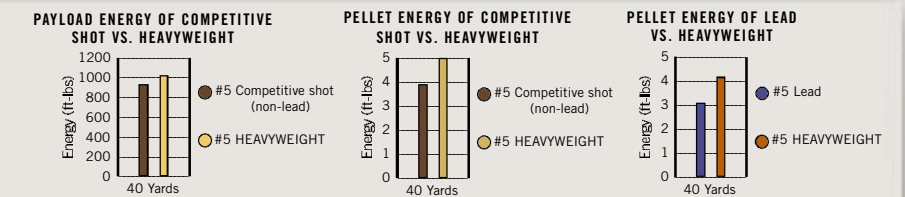
It takes more than luck to bag your bird. It takes skill, patience and exactly the right shotshell. Developed specifically for turkey hunters is the new Mag•Shok™ HEAVYWEIGHT™ load. HEAVYWEIGHT

THIS YEAR, HIT THE TURKEY WOODS WITH SOMETHING NEW.

is the highest density shot ever to come out of a turkey gun. It's 35% more dense than lead for tighter patterns and powerful penetration. Unlike irregularly shaped competitive shot, HEAVYWEIGHT is round

and uniform to reduce drag and deliver more hits where you need them: in the center of the pattern. This means highly concentrated impact for true Knockdown Power® and more bagged birds.

Results obtained with HEAVYWEIGHT 1 1/2 oz. load vs. competitive 1 1/2 oz. load. Muzzle velocity 1300 fps.





Wing Shok

MAGNUM Wing Shok | SHOTSHELL SPECIFICATIONS

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	MM	MUZZLE VELOCITY	DRAM EQUIV.	SHOT CHARGE OUNCES	WGT. GRAMS	SHOT SIZES
* P109	10	3 3/8	89	1210	4 1/4	2 1/2	63.79	BB
* P158	12	3	76	1210	4	1 1/4	53.15	BB, 2, 4, 6
* P156	12	2 3/4	70	1315	4	1 1/2	42.52	BB, 4, 6
* P165	16	2 1/2	70	1260	3 1/4	1 1/4	35.44	4, 6
*New P258	20	3	76	1300	3	1 1/4	35.44	4, 5, 6
* P256	20	2 3/4	70	1175	2 1/4	1 1/4	31.89	4, 6

* Indicates buffered loads (loads with buffered copper-plated shot).

HIGH VELOCITY

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	MM	MUZZLE VELOCITY	DRAM EQUIV.	SHOT CHARGE OUNCES	WGT. GRAMS	SHOT SIZES
PF154	12	2 3/4	70	1500	4 1/4	1 1/4	35.44	4, 5, 6, 7.5
PF204	20	2 3/4	70	1350	3 3/4	1	28.35	4, 5, 6, 7.5
New P129	12	3	76	1350	4 1/4	1 1/4	46.07	4, 5, 6
P128	12	2 3/4	70	1500	3 3/4	1 1/4	31.90	4, 6, 7.5
P138	12	2 3/4	70	1500	4 1/4	1 1/4	38.98	4, 5, 6

HI-BRASS

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	MM	MUZZLE VELOCITY	DRAM EQUIV.	SHOT CHARGE OUNCES	WGT. GRAMS	SHOT SIZES
P283	28	2 3/4	70	1295	2 1/4	3/4	21.26	6, 7.5, 8

FLYER LOADS

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	MM	MUZZLE VELOCITY	DRAM EQUIV.	SHOT CHARGE OUNCES	WGT. GRAMS	SHOT SIZES
P153	12	2 3/4	70	1220	3 3/4	1 1/4	35.44	6, 7.5, 8

STAY AHEAD OF TODAY'S MORE CHALLENGING BIRDS.

In addition to being the fastest load available, Federal Premium® Wing•Shok™ loads feature extra-hard copper-plated shot for tighter patterns, greater downrange energy and maximum penetration. The result is more successful hunting, even late-season.



BIRDS ARE SMARTER AND FASTER. ARE YOU?

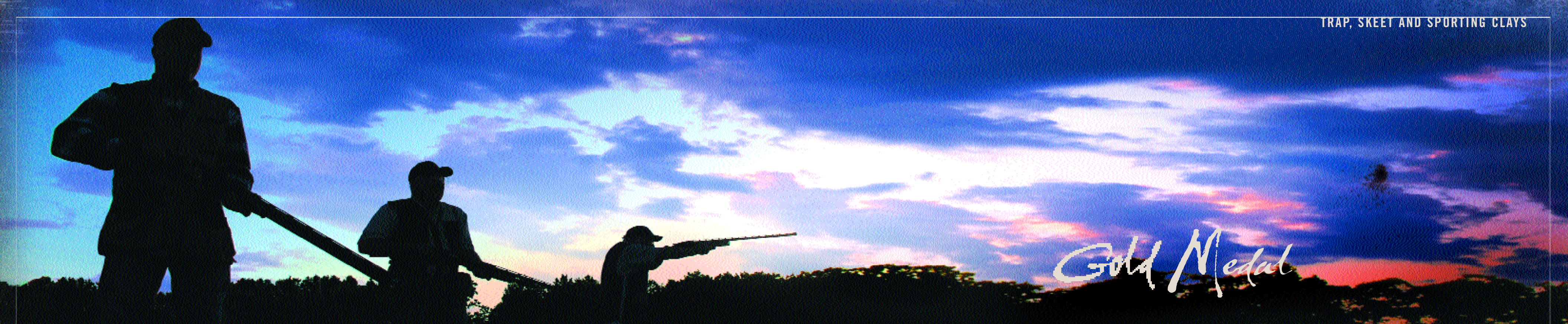
You can feel the tradition in every breeze, every cackle and every retrieve. Shooting has become as instinctive as your dog flushing birds. Your shotshell of choice: Federal Premium® Wing•Shok™. This year,

many loads feature higher velocities – up to 1500 fps, the fastest you can buy. For pheasant, grouse, quail and more, Wing•Shok ensures every upland bird hunt is nothing short of an ultimate experience.

Purchase special edition Pheasants Forever® loads and you'll be helping to support Pheasants Forever, one of upland hunting's greatest success stories. Join Federal Premium in helping to protect our sport.



PROCEEDS HELP SUPPORT PHEASANTS FOREVER, PROMOTING BIRD HABITAT AND HUNTING



Gold Medal

PLASTIC *Gold Medal* | SHOTSHELL SPECIFICATIONS

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	MM	MUZZLE VELOCITY	DRAM EQUIV.	SHOT CHARGE OUNCES	WGT. GRAMS	SHOT SIZES
T113	12	2 1/4	70	1180	2 1/2	1	28.35	7.5, 8, 8.5, 9
T115	12	2 1/4	70	1145	2 1/2	1 1/4	31.90	7.5, 8, 9
T116	12	2 1/4	70	1200	3	1 1/4	31.90	7.5, 8, 9
T206	20	2 1/4	70	1200	2 1/2	3/4	24.81	8, 9
T280	28	2 1/4	70	1230	2	3/4	21.26	8.5, 9
T412	410	2 1/2	63.5	1230	Max.	1/2	14.18	8.5, 9

HANDICAP PLASTIC HIGH VELOCITY

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	MM	MUZZLE VELOCITY	DRAM EQUIV.	SHOT CHARGE OUNCES	WGT. GRAMS	SHOT SIZES
T178	12	2 1/4	70	1235	HDCP	1 1/4	31.90	7.5, 8

INTERNATIONAL PLASTIC

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	MM	MUZZLE VELOCITY	DRAM EQUIV.	SHOT CHARGE OUNCES	WGT. GRAMS	SHOT SIZES
N110	12	2 1/4	70	1325	3 1/2	3/4	24.01	7.5, 8.5

EXTRA-LITE® PLASTIC {LOW RECOIL}

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	MM	MUZZLE VELOCITY	DRAM EQUIV.	SHOT CHARGE OUNCES	WGT. GRAMS	SHOT SIZES
T114	12	2 1/4	70	1100	Extra-Lite	1 1/4	31.90	7.5, 8

Look for the Low Recoil logo on select products for a softer shooting load.

PAPER

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	MM	MUZZLE VELOCITY	DRAM EQUIV.	SHOT CHARGE OUNCES	WGT. GRAMS	SHOT SIZES
T175	12	2 1/4	70	1180	2 1/2	1	28.35	8, 8.5
T117	12	2 1/4	70	1145	2 1/2	1 1/4	31.90	7.5, 8, 9
T118	12	2 1/4	70	1200	3	1 1/4	31.90	7.5, 8, 9

HANDICAP PAPER HIGH VELOCITY

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	MM	MUZZLE VELOCITY	DRAM EQUIV.	SHOT CHARGE OUNCES	WGT. GRAMS	SHOT SIZES
T171	12	2 1/4	70	1235	HDCP	1 1/4	31.90	7.5, 8

INTERNATIONAL PAPER

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	MM	MUZZLE VELOCITY	DRAM EQUIV.	SHOT CHARGE OUNCES	WGT. GRAMS	SHOT SIZES
N119	12	2 1/4	70	1325	3 1/2	3/4	24.01	7.5

EXTRA LITE® PAPER {LOW RECOIL}

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	MM	MUZZLE VELOCITY	DRAM EQUIV.	SHOT CHARGE OUNCES	WGT. GRAMS	SHOT SIZES
T172	12	2 1/4	70	1100	Extra-Lite	1 1/4	31.90	7.5, 8

SPORTING CLAYS

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	MM	MUZZLE VELOCITY	DRAM EQUIV.	SHOT CHARGE OUNCES	WGT. GRAMS	SHOT SIZES
SC179	12	2 1/4	70	1300	3 1/2	1 1/4	31.89	7.5, 8, 9
SC176	12	2 1/4	70	1350	3 1/2	1	28.35	7.5, 8, 9



NEW FUEL FOR YOUR COMPETITIVE FIRE.

Consistent and uniform patterns, extra-hard shot and the hot 209A primer have made Premium® Gold Medal® the favorite load on target shooting circuits. We know your reputation is on the line. That's why we put everything we have into strengthening the Federal

Premium® Gold Medal line and its winning reputation. New for 2005 are two "hot" Gold Medal Sporting Clay loads that include a 1-oz., FITASC-qualified offering. We've also introduced the one-piece wad in all 1 1/2 oz. paper and plastic loads. The

one-piece 12S3 wad delivers consistent patterns and lower perceived recoil and allows reloaders to duplicate their favorite factory load. So you can think less about what you're shooting, and more about what you're hitting.



12S3 WAD

CENTERFIRE RIFLE

Gold Medal SPECIFICATIONS

USAGE	FEDERAL LOAD NO.	CALIBER	BULLET WGT. IN		BULLET STYLE	FACTORY PRIMER NO.	VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)					ENERGY IN FOOT-POUNDS (TO NEAREST 5 FOOT-POUNDS)					WIND DRIFT IN INCHES 10 MPH CROSSWIND					HEIGHT OF BULLET TRAJECTORY IN INCHES ABOVE OR BELOW LINE OF SIGHT IF ZEROED AT 100 YARDS.					TEST BARREL LENGTH INCHES	FEDERAL LOAD NO.	
			GRAINS	GRAMS			MUZZLE	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	MUZZLE	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	50 YDS.	100 YDS.	200 YDS.			300 YDS.
5	GM223M	223 Rem. (5.56x45mm)	69	4.47	Sierra MatchKing BTHP	GM205M	3000	2720	2460	2210	1980	1760	1380	1135	925	750	600	475	0.9	3.7	8.8	16.4	27.0	-0.2	⊕	-3.2	-12.2	24	GM223M
5	GM223M3	223 Rem. (5.56x45mm)	77	4.99	Sierra MatchKing BTHP	GM205M	2750	2500	2270	2050	1840	1650	1295	1070	880	720	580	465	0.9	3.9	9.2	17.0	28.4	-0.1	⊕	-4.1	-14.9	24	GM223M3
5	GM308M	308 Win. (7.62x51mm)	168	10.89	Sierra MatchKing BTHP	GM210M	2600	2410	2230	2060	1890	1730	2520	2165	1855	1575	1330	1120	0.7	3.2	7.6	13.9	22.9	-0.1	⊕	-4.5	-16.1	24	GM308M
5	GM308M2	308 Win. (7.62x51mm)	175	11.34	Sierra MatchKing BTHP	GM210M	2600	2430	2260	2100	1940	1790	2625	2285	1980	1705	1460	1250	0.6	2.9	7.0	12.7	20.7	-0.1	⊕	-4.4	-15.8	30	GM308M2
5	GM3006M	30-06 Spring. (7.62x63mm)	168	10.89	Sierra MatchKing BTHP	GM210M	2700	2510	2320	2150	1980	1820	2720	2345	2015	1720	1460	1235	0.7	3.0	7.2	13.2	21.3	-0.1	⊕	-4.0	-14.6	24	GM3006M
5	GM300WM	300 Win. Magnum	190	12.31	Sierra MatchKing BTHP	GM215M	2900	2730	2560	2400	2240	2090	3550	3135	2760	2420	2115	1845	0.6	2.4	5.5	10.1	16.4	-0.2	⊕	-3.2	-11.6	24	GM300WM

BTHP = Boat-Tail Hollow Point Palma Load in 30" barrel MatchKing is a registered trademark of Sierra Bullets, Inc.

RIMFIRE

USAGE	FEDERAL LOAD NO.	CALIBER	BULLET WGT. 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 10 MPH CROSSWIND			HEIGHT OF BULLET TRAJECTORY IN INCHES ABOVE OR BELOW LINE OF SIGHT IF ZEROED AT 100 YARDS.		
			GRAINS	GRAMS		MUZZLE	50 YDS.	100 YDS.	150 YDS.	MUZZLE	50 YDS.	100 YDS.	150 YDS.	50 YDS.	100 YDS.	150 YDS.	50 YDS.	100 YDS.	150 YDS.
5	711B	22 Long Rifle	40	2.59	Solid	1080	1000	930	880	105	90	75	70	0.9	4.0	8.7	4.1	⊕	-14.1

PRIMERS

FEDERAL LOAD NO.	TYPE	USE	NOMINAL DIAMETER
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

HANDGUN

USAGE	FEDERAL LOAD NO.	CALIBER	BULLET WGT. 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.
5	GM38A	38 Special	148	9.59	Lead Wadcutter Match	GM100M	710	670	630	600	560	165	145	130	115	105	⊕	-4.0	-13.4	-28.9	4-V
5	GM45A	45 Auto	230	14.90	FMJ Match	GM150M	860	840	820	800	780	380	360	340	325	310	⊕	-2.2	-7.6	-16.4	5
5	GM45B	45 Auto	185	11.99	FMJ-SWC Match	GM150M	780	740	690	660	620	250	220	200	175	160	⊕	-3.1	-10.7	-23.5	5

FMJ = Full Metal Jacket SWC = Semi-Wadcutter "V" indicates vented barrel to simulate service conditions.

HANDGUN

Personal Defense SPECIFICATIONS

USAGE	FEDERAL LOAD NO.	CALIBER	BULLET WGT. 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.
6	P32HS1	32 Auto (7.65mm Browning)	65	4.21	Hydra-Shok JHP	100	950	920	890	860	830	130	120	115	105	100	⊕	-1.7	-6.1	-13.6	4
6	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
6	P9HS2	9mm Luger (9x19mm Parabellum)	147	9.53	Hydra-Shok JHP	200	1000	960	920	890	860	325	300	280	260	240	⊕	-1.5	-5.5	-12.2	4
6	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
6	P38HS1	38 Special (High Velocity + P)	129	8.36	Hydra-Shok JHP	100	950	930	910	890	870	260	245	235	225	215	⊕	-1.6	-5.8	-12.8	4-V
6	P357HS1	357 Magnum	158	10.24	Hydra-Shok JHP	100	1240	1170	1110	1060	1020	540	480	430	395	365	⊕	-0.7	-3.1	-7.5	4
6	P10HS1	10mm Auto	180	11.66	Hydra-Shok JHP	150	1030	1000	970	950	920	425	400	375	355	340	⊕	-1.3	-4.8	-10.9	5
6	P40HS1	40 S&W	180	11.66	Hydra-Shok JHP	100	990	960	940	910	890	390	370	350	335	320	⊕	-1.5	-5.4	-11.9	4
6	P40HS2	40 S&W	155	10.04	Hydra-Shok JHP	100	1140	1080	1030	990	950	445	400	365	335	310	⊕	-1.0	-4.0	-9.2	4
6	P40HS3	40 S&W	165	10.69	Hydra-Shok JHP	100	980	960	930	910	890	350	335	320	305	290	⊕	-1.5	-5.5	-12.0	4
6	P44HS1	44 Rem. Magnum	240	15.55	Hydra-Shok JHP	150	1180	1130	1080	1040	1010	740	675	625	580	545	⊕	-0.8	-3.5	-8.1	6½-V
6	P45HS1	45 Auto	230	14.90	Hydra-Shok JHP	150	850	830	810	790	770	370	350	335	320	305	⊕	-2.3	-7.8	-16.9	5
New	P45GHS1	45 G.A.P.	230	14.90	Hydra-Shok JHP	200	880	870	850	840	820	395	380	370	355	345	⊕	-2.0	-7.1	-15.2	5

LOW RECOIL

6	PD9CSP2H	9mm Luger (9x19mm Parabellum)	105	6.80	EFMJ	200	1230	1160	1110	1060	1030	350	315	285	265	245	⊕	-0.7	-3.2	-7.6	4
6	PD9HSGH	9mm Luger (9x19mm Parabellum)	135	8.75	Hydra-Shok JHP	200	1050	1030	1010	990	970	330	320	305	295	285	⊕	-1.1	-4.4	-9.9	4
6	PD380HS1H	380 Auto (9x17mm Short)	90	5.83	Hydra-Shok JHP	100	1000	940	890	840	800	200	175	155	140	130	⊕	-1.6	-5.9	-13.3	3½
6	PD38HS3H	38 Special	110	7.13	Hydra-Shok JHP	100	1000	970	940	910	880	245	230	215	200	190	⊕	-1.4	-5.3	-11.9	4-V
6	PD357HS2H	357 Magnum	130	8.42	Hydra-Shok JHP	100	1300	1210	1130	1070	1020	490	420	370	330	300	⊕	-0.6	-2.9	-7.1	4-V
6	PD40CSP2H	40 S&W	135	8.75	EFMJ	100	1190	1060	970	910	850	425	335	280	245	220	⊕	-1.0	-4.3	-10.3	4
6	PD40HS4H	40 S&W	135	8.75	Hydra-Shok JHP	100	1190	1060	970	910	850	425	335	280	245	220	⊕	-1.0	-4.3	-10.3	4
6	PD45CSP2H	45 Auto	165	10.69	EFMJ	150	1090	1050	1010	970	940	435	400	370	345	325	⊕	-1.1	-4.3	-9.9	5
6	PD45HS3H	45 Auto	165	10.69	Hydra-Shok JHP	150	1060	1020	980	950	920	410	380	355	330	310	⊕	-1.2	-4.6	-10.5	5
6	PD45G1H	45 G.A.P.	185	11.99	Hydra-Shok JHP	200	1090	1020	970	930	890	490	430	390	355	325	⊕	-1.2	-4.6	-10.6	5

+ P ammunition is loaded to a higher pressure. Use only in firearms recommended by the gun manufacturer. *JHP = Jacketed Hollow Point EFMJ = Expanding Full Metal Jacket "V" indicates vented barrel to simulate service conditions. 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 Look for the Low Recoil logo on select products for a softer shooting load.

TARGET: CENTERFIRE, RIMFIRE, PISTOL, PRIMERS
PERSONAL DEFENSE: HANDGUN



PERSONAL DEFENSE HANDGUN
Premium® Hydra-Shok® has long been the benchmark for personal defense, and military and law enforcement officials insist on it. Our Expanding Full Metal Jacket combines a patented scored metal nose and internal rubber tip for consistent expansion and performance even through barriers, yet its unique design reduces the risk of collateral effect.

GOLD MEDAL 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.

GOLD MEDAL CENTERFIRE RIFLE
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. Serious shooters accept nothing less.

GOLD MEDAL CENTERFIRE PISTOL
Available in Lead Wadcutter, Full Metal Jacket and Full Metal Jacket Semi-Wadcutter, Gold Medal Match Pistol ammunition is unequalled in match-grade performance. It's the true competitor's winning choice.

GOLD MEDAL RIMFIRE
A proven performer, Federal Premium® Gold Medal® Rimfire rounds deliver outstanding velocities, match-grade accuracy and reliable performance for tight, consistent groups on the range.



PROUD TO SUPPORT THE NATIONAL RIFLE ASSOCIATION AND ALL SHOOTING SPORTS

BALLISTICS CHARTS REFERENCE SECTION



2005

Federal Cartridge reserves the right to change or discontinue any load at any time.

Vital Shok | SLUG SPECIFICATIONS

FEDERAL LOAD USAGE	LOAD NO.	SHELL LENGTH GAUGE	SHELL LENGTH INCHES	SHELL LENGTH MM	SLUG TYPE	SLUG WEIGHT OUNCES	GRAINS	VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)					ENERGY IN FOOT-POUNDS (TO NEAREST 5 FOOT-POUNDS)				HEIGHT OF SLUG TRAJECTORY IN INCHES ABOVE OR BELOW LINE OF SIGHT IF ZEROED AT 25 YARDS, SIGHTS 5 INCHES ABOVE BORE LINE				TEST BARREL LENGTH INCHES						
								MUZZLE	25YDS.	50YDS.	75YDS.	100YDS.	MUZZLE	25YDS.	50YDS.	75YDS.	100YDS.	25 YDS.	50YDS.	75YDS.		100YDS.					
PREMIUM® BARNES EXPANDER SABOT SLUGS (Fully Rifled Slug Barrel)																											
2	P151XS	12	3	76	Barnes Sabot	1	438	1530	1450	1390	1330	1270	1220	2260	2055	1875	1710	1565	1440	1.3	2.0	1.6	⊕	-3.0	30		
2	P150XS	12	2 1/2	70	Barnes Sabot	1	438	1450	1380	1320	1260	1210	1160	2045	1860	1700	1550	1425	1315	1.4	2.2	1.8	⊕	-3.3	30		
2	P152XS	12	2 1/4	70	Barnes Sabot	3/4	325	1900	1810	1720	1640	1560	1480	2630	2385	2165	1960	1775	1605	0.7	1.2	1.0	⊕	-1.9	30		
2	P208XS	20	3	76	Barnes Sabot	3/4	275	1900	1800	1710	1620	1530	1450	2190	1965	1765	1585	1420	1270	0.7	1.2	1.0	⊕	-1.9	30		
2	P207XS	20	3	76	Barnes Sabot	3/4	325	1450	1380	1320	1250	1200	1150	1530	1385	1260	1145	1050	965	1.5	2.3	1.8	⊕	-3.3	30		
PREMIUM® SABOT SLUGS (Fully Rifled Slug Barrel or Rifled Choke Tube)																											
2	P151SS	12	3	76	Hydra-Shok Sabot HP	1	438	1550	1440	1340	1250	1180	1110	2335	2015	1750	1530	1350	1205	1.4	2.2	1.8	⊕	-3.3	30		
2	P154SS	12	2 1/2	70	Hydra-Shok Sabot HP	1	438	1450	1350	1260	1190	1120	1070	2045	1775	1550	1365	1220	1105	1.6	2.5	2.0	⊕	-3.7	30		
2	P207SS	20	3	76	Hydra-Shok Sabot HP	3/4	275	1450	1330	1220	1140	1070	1020	1275	1070	910	785	695	625	1.7	2.7	2.2	⊕	-4.0	30		
2	P203SS	20	2 1/2	70	Hydra-Shok Sabot HP	3/4	275	1400	1290	1190	1110	1050	1000	1190	1005	860	750	670	610	1.8	2.8	2.3	⊕	-4.2	30		
PREMIUM® TRUBALL RIFLED SLUGS (Smoothbore Barrel)																											
LR	New	2	PB127LRS	12	3/4	70	TRUBALL Rifled Slug	1	438	1300	1150	1040	970	910	860	1645	1280	1055	910	805	725	0.6	⊕	-2.6	-7.4	-14.8	30
New	2	PB127RS	12	2 1/4	70	TRUBALL Rifled Slug	1	438	1600	1370	1180	1050	970	910	2490	1810	1355	1080	915	800	0.3	⊕	-1.9	-5.7	-11.7	30	
New	2	PB203RS	20	2 1/4	70	TRUBALL Rifled Slug	3/4	325	1600	1390	1220	1100	1010	950	1865	1410	1090	875	745	650	0.3	⊕	-1.8	-5.3	-10.9	30	

Power Shok | SLUG SPECIFICATIONS

FEDERAL LOAD USAGE	LOAD NO.	SHELL LENGTH GAUGE	SHELL LENGTH INCHES	SHELL LENGTH MM	SLUG TYPE	SLUG WEIGHT OUNCES	GRAINS	VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)					ENERGY IN FOOT-POUNDS (TO NEAREST 5 FOOT-POUNDS)				HEIGHT OF SLUG TRAJECTORY IN INCHES ABOVE OR BELOW LINE OF SIGHT IF ZEROED AT 25 YARDS, SIGHTS 5 INCHES ABOVE BORE LINE				TEST BARREL LENGTH INCHES		
								MUZZLE	25YDS.	50YDS.	75YDS.	100YDS.	MUZZLE	25YDS.	50YDS.	75YDS.	100YDS.	25 YDS.	50YDS.	75YDS.		100YDS.	
SABOT SLUGS (Fully Rifled Slug Barrel or Rifled Choke Tube)																							
2	F127SS	12	2 1/4	70	Sabot Hollow Point	1	438	1450	1350	1260	1190	1120	2045	1775	1550	1365	1220	0.3	⊕	-1.7	-5.0	30	
RIFLED SLUGS (Smoothbore Barrel)																							
2	F103RS	10	3 1/2	89	Hollow Point	1 1/4	766	1280	1170	1090	1020	970	2785	2325	2000	1770	1600	0.5	⊕	-2.4	-6.8	32	
2	F131RS	12	3	76	Hollow Point	1 1/4	547	1600	1460	1330	1220	1130	3110	2570	2140	1800	1545	0.3	⊕	-1.5	-4.5	30	
2	F130RS	12	2 1/2	70	Hollow Point	1 1/4	547	1520	1380	1270	1170	1090	2805	2330	1950	1655	1445	0.3	⊕	-1.7	-4.9	30	
2	F127RS	12	2 1/4	70	Hollow Point	1	438	1610	1470	1340	1230	1140	2520	2090	1745	1470	1260	0.3	⊕	-1.5	-4.4	30	
2	F127RSX*	12	2 1/4	70	Hollow Point	1	438	1610	1470	1340	1230	1140	2520	2090	1745	1470	1260	0.3	⊕	-1.5	-4.4	30	
New	2	F125RS	12	2 1/4	70	Hollow Point	3/4	383	1800	1650	1500	1370	1260	2755	2300	1910	1590	1335	0.2	⊕	-1.1	-3.4	30
2	F164RS	16	2 1/2	70	Hollow Point	3/4	350	1600	1200	990	870	790	1990	1120	760	590	480	0.5	⊕	-2.6	-8.0	28	
2	F207RS	20	3	76	Hollow Point	3/4	325	1680	1500	1350	1210	1110	2055	1640	1320	1070	900	0.2	⊕	-1.4	-4.3	26	
2	F203RS	20	2 1/2	70	Hollow Point	3/4	325	1600	1430	1280	1160	1070	1865	1480	1190	975	830	0.3	⊕	-1.6	-4.8	26	
New	2	F201RS	20	2 1/2	70	Hollow Point	1/2	219	1800	1650	1510	1390	1280	1575	1325	1110	930	790	0.1	⊕	-1.1	-3.3	26
2	F412RS	410	2 1/2	64	Hollow Point	1/4	109	1780	1540	1340	1180	1060	760	575	430	335	270	0.2	⊕	-1.4	-4.4	26	

HP = Hollow Point. This trajectory table was 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.

LR Look for the Low Recoil logo on select products for a softer shooting load.

* 10 Rounds per 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



NEW TRUBALL smoothbore slug



Vital Shok | BUCKSHOT SPECIFICATIONS

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	MM	MUZZLE VELOCITY	SHOT SIZES
P108	10	3 1/2	89	1100	18 Pellets - 00 Buck
P108	10	3 1/2	89	1100	24 Pellets - 1 Buck
P135	12	3 1/2	89	1100	18 Pellets - 00 Buck
P135	12	3 1/2	89	1100	24 Pellets - 1 Buck
P158	12	3	76	1225	10 Pellets - 000 Buck
P158	12	3	76	1210	15 Pellets - 00 Buck
P158	12	3	76	1210	24 Pellets - 1 Buck

Power Shok | BUCKSHOT SPECIFICATIONS

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	MM	MUZZLE VELOCITY	SHOT SIZES
F131	12	3	76	1225	10 Pellets - 000 Buck
F131	12	3	76	1210	15 Pellets - 00 Buck
F131	12	3	76	1210	41 Pellets - 4 Buck
F130	12	2 3/4	70	1290	12 Pellets - 00 Buck
F130	12	2 3/4	70	1250	34 Pellets - 4 Buck
F127	12	2 3/4	70	1325	8 Pellets - 000 Buck

Power Shok | LOW RECOIL BUCKSHOT SPECIFICATIONS

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	MM	MUZZLE VELOCITY	SHOT SIZES
H132	12	2 3/4	70	1140	9 Pellets - 00 Buck

Look for the Low Recoil logo on select products for a softer shooting load.

Buckshot Sizes

	No. 000	No. 00	No. 0	No. 1	No. 2	No. 3	No. 4
Pellet Diameter							
Inches	.36	.33	.32	.30	.27	.25	.24
mm	9.14	8.38	8.13	7.62	6.86	6.35	6.10

BALLISTICS CHARTS REFERENCE SECTION

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	MM	MUZZLE VELOCITY	SHOT SIZES
P158	12	3	76	1210	41 Pellets - 4 Buck
P156	12	2 3/4	70	1290	12 Pellets - 00 Buck
P156	12	2 3/4	70	1250	34 Pellets - 4 Buck
P154	12	2 3/4	70	1325	9 Pellets - 00 Buck
P258	20	3	76	1175	18 Pellets - 2 Buck
P256	20	2 3/4	70	1100	20 Pellets - 3 Buck

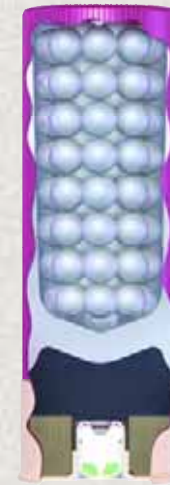
FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	MM	MUZZLE VELOCITY	SHOT SIZES
F127	12	2 3/4	70	1325	9 Pellets - 00 Buck
F127	12	2 3/4	70	1250	16 Pellets - 1 Buck
F127	12	2 3/4	70	1325	27 Pellets - 4 Buck
F164	16	2 3/4	70	1225	12 Pellets - 1 Buck
F207	20	3	76	1200	18 Pellets - 2 Buck
F203	20	2 3/4	70	1200	20 Pellets - 3 Buck

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	MM	MUZZLE VELOCITY	SHOT SIZES
H132	12	2 3/4	70	1140	27 Pellets - 4 Buck

Look for the Low Recoil logo on select products for a softer shooting load.



Ultra Shok | SHOTSHELL SPECIFICATIONS



Speed Shok | SHOTSHELL SPECIFICATIONS

BALLISTICS CHARTS REFERENCE SECTION

TUNGSTEN-IRON

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	MM	MUZZLE VELOCITY	SHOT CHARGE WGT. OUNCES	GRAMS	SHOT SIZES
MWT181	12	3	76	850	1 1/2	31.90	BB

HIGH DENSITY™ WATERFOWL

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	MM	MUZZLE VELOCITY	SHOT CHARGE WGT. OUNCES	GRAMS	SHOT SIZES
New PHD195	12	3 1/2	89	1450	1 1/2	46.07	BB+, 2+
New PHD197	12	3	76	1450	1 1/2	38.98	BB+, 2+

HIGH VELOCITY STEEL

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	MM	MUZZLE VELOCITY	SHOT CHARGE WGT. OUNCES	GRAMS	SHOT SIZES
PW102	10	3 1/2	89	1500	1 1/2	38.98	T, BBB, BB, 1, 2, 3
PW133	12	3 1/2	89	1550	1 1/2	38.98	T, BBB, BB, 1, 2, 3, 4
PW143	12	3	76	1550	1 1/2	31.90	T, BBB, BB, 1, 2, 3, 4, 6
PW168	16	2 3/4	70	1350	1 1/2	26.59	2, 4
PW209	20	3	76	1350	1	28.35	1, 2, 3, 4
PW208	20	2 3/4	70	1450	1 1/2	21.26	4, 6

HEAVY HIGH VELOCITY STEEL

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	MM	MUZZLE VELOCITY	SHOT CHARGE WGT. OUNCES	GRAMS	SHOT SIZES
PW107	10	3 1/2	89	1450	1 1/2	42.53	T, BBB, BB, 1, 2, 3
PW134	12	3 1/2	89	1500	1 1/2	42.53	T, BBB, BB, 1, 2, 3, 4
PW142	12	3	76	1450	1 1/2	35.44	T, BBB, BB, 1, 2, 3, 4, 6
PW145	12	2 3/4	70	1375	1 1/2	35.44	T, BBB, BB, 1, 2, 3, 4, 6

STEEL

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	MM	MUZZLE VELOCITY	SHOT CHARGE WGT. OUNCES	GRAMS	SHOT SIZES
WF133	12	3 1/2	89	1550	1 1/2	38.98	BB, 2, 3
WF140	12	3	76	1400	1 1/2	35.44	BB, 2, 3, 4
WF143	12	3	76	1550	1 1/2	31.90	BB, 2, 3, 4
WF147	12	2 3/4	70	1375	1 1/2	31.90	BB, 2, 3, 4, 6
WF146	12	2 3/4	70	1375	1	28.35	6, 7
WF207	20	3	76	1300	1 1/2	24.81	2, 4
WF208	12	2 3/4	70	1375	1 1/2	35.44	7

Look for the Low Recoil logo on select products for a softer shooting load.



MagShok | SHOTSHELL SPECIFICATIONS

BALLISTICS CHARTS REFERENCE SECTION

HEAVYWEIGHT TURKEY

Table with 10 columns: FEDERAL LOAD NO., GAUGE, SHELL LENGTH INCHES, SHELL LENGTH MM, MUZZLE VELOCITY, DRAM EQUIV., SHOT CHARGE WGT. OUNCES, GRAMS, SHOT SIZES. Rows include PHT191 and PHT193.

HIGH VELOCITY TURKEY

Table with 10 columns: FEDERAL LOAD NO., GAUGE, SHELL LENGTH INCHES, SHELL LENGTH MM, MUZZLE VELOCITY, DRAM EQUIV., SHOT CHARGE WGT. OUNCES, GRAMS, SHOT SIZES. Rows include GST101, PFC139, PFC157, GST156, and GST258.



MAGNUM LEAD TURKEY

Table with 10 columns: FEDERAL LOAD NO., GAUGE, SHELL LENGTH INCHES, SHELL LENGTH MM, MUZZLE VELOCITY, DRAM EQUIV., SHOT CHARGE WGT. OUNCES, GRAMS, SHOT SIZES. Rows include PFC135 and PFC159.

MAGNUM LEAD

Table with 10 columns: FEDERAL LOAD NO., GAUGE, SHELL LENGTH INCHES, SHELL LENGTH MM, MUZZLE VELOCITY, DRAM EQUIV., SHOT CHARGE WGT. OUNCES, GRAMS, SHOT SIZES. Rows include P109, P158, P156, P165, P258, and P256.

* Indicates buffered loads (loads with buffered copper-plated shot).

HIGH VELOCITY LEAD

Table with 10 columns: FEDERAL LOAD NO., GAUGE, SHELL LENGTH INCHES, SHELL LENGTH MM, MUZZLE VELOCITY, DRAM EQUIV., SHOT CHARGE WGT. OUNCES, GRAMS, SHOT SIZES. Rows include PF154, PF204, P129, P128, and P138.

HI-BRASS

Table with 10 columns: FEDERAL LOAD NO., GAUGE, SHELL LENGTH INCHES, SHELL LENGTH MM, MUZZLE VELOCITY, DRAM EQUIV., SHOT CHARGE WGT. OUNCES, GRAMS, SHOT SIZES. Row includes P283.

FLYER

Table with 10 columns: FEDERAL LOAD NO., GAUGE, SHELL LENGTH INCHES, SHELL LENGTH MM, MUZZLE VELOCITY, DRAM EQUIV., SHOT CHARGE WGT. OUNCES, GRAMS, SHOT SIZES. Row includes P153.



GameShok | SHOTSHELL SPECIFICATIONS

BALLISTICS CHARTS REFERENCE SECTION

MAGNUM LEAD

Table with 10 columns: FEDERAL LOAD NO., GAUGE, SHELL LENGTH INCHES, SHELL LENGTH MM, MUZZLE VELOCITY, DRAM EQUIV., SHOT CHARGE WGT. OUNCES, GRAMS, SHOT SIZES. Rows include F129, F130, F207, and F205.

HI-BRASS LEAD

Table with 10 columns: FEDERAL LOAD NO., GAUGE, SHELL LENGTH INCHES, SHELL LENGTH MM, MUZZLE VELOCITY, DRAM EQUIV., SHOT CHARGE WGT. OUNCES, GRAMS, SHOT SIZES. Rows include H126, H163, H204, H413, and H412.

HEAVY FIELD LEAD

Table with 10 columns: FEDERAL LOAD NO., GAUGE, SHELL LENGTH INCHES, SHELL LENGTH MM, MUZZLE VELOCITY, DRAM EQUIV., SHOT CHARGE WGT. OUNCES, GRAMS, SHOT SIZES. Rows include H125, H123, and H202.

GAME LOAD

Table with 10 columns: FEDERAL LOAD NO., GAUGE, SHELL LENGTH INCHES, SHELL LENGTH MM, MUZZLE VELOCITY, DRAM EQUIV., SHOT CHARGE WGT. OUNCES, GRAMS, SHOT SIZES. Rows include H121, H160, and H200.

METRO LEAD

Table with 10 columns: FEDERAL LOAD NO., GAUGE, SHELL LENGTH INCHES, SHELL LENGTH MM, MUZZLE VELOCITY, DRAM EQUIV., SHOT CHARGE WGT. OUNCES, GRAMS, SHOT SIZES. Row includes M123.

FIELD TRIAL TRAINING LOAD

Table with 10 columns: FEDERAL LOAD NO., GAUGE, SHELL LENGTH INCHES, SHELL LENGTH MM, MUZZLE VELOCITY, DRAM EQUIV., SHOT CHARGE WGT. OUNCES, GRAMS, SHOT SIZES. Row includes FP12.

Look for the Low Recoil logo on select products for a softer shooting load.



Gold Medal | SHOTSHELL SPECIFICATIONS

PLASTIC

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	SHELL LENGTH MM	MUZZLE VELOCITY	DRAM EQUIV.	SHOT CHARGE WGT. OUNCES	GRAMS	SHOT SIZES
T113	12	2%	70	1180	2%	1	28.35	7.5, 8, 8.5, 9
T115	12	2%	70	1145	2%	1%	31.90	7.5, 8, 9
T116	12	2%	70	1200	3	1%	31.90	7.5, 8, 9
T206	20	2%	70	1200	2%	¾	24.81	8, 9
T280	28	2%	70	1230	2	¾	21.26	8.5, 9
T412	410	2%	63.5	1230	Max.	½	14.18	8.5, 9

HANDICAP PLASTIC

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	SHELL LENGTH MM	MUZZLE VELOCITY	DRAM EQUIV.	SHOT CHARGE WGT. OUNCES	GRAMS	SHOT SIZES
T178	12	2%	70	1235	HDCP	1%	31.90	7.5, 8

INTERNATIONAL PLASTIC

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	SHELL LENGTH MM	MUZZLE VELOCITY	DRAM EQUIV.	SHOT CHARGE WGT. OUNCES	GRAMS	SHOT SIZES
N110	12	2%	70	1325	3%	¾	24.01	7.5, 8.5

EXTRA-LITE PLASTIC

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	SHELL LENGTH MM	MUZZLE VELOCITY	DRAM EQUIV.	SHOT CHARGE WGT. OUNCES	GRAMS	SHOT SIZES
T114	12	2%	70	1100	Extra-Lite	1%	31.90	7.5, 8

PLASTIC SPORTING CLAYS

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	SHELL LENGTH MM	MUZZLE VELOCITY	DRAM EQUIV.	SHOT CHARGE WGT. OUNCES	GRAMS	SHOT SIZES
New SC179	12	2%	70	1300	3%	1%	31.89	7.5, 8, 9
New SC176	12	2%	70	1350	3%	1	28.35	7.5, 8, 9

PAPER

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	SHELL LENGTH MM	MUZZLE VELOCITY	DRAM EQUIV.	SHOT CHARGE WGT. OUNCES	GRAMS	SHOT SIZES
T175	12	2%	70	1180	2%	1	28.35	8, 8.5
T117	12	2%	70	1145	2%	1%	31.90	7.5, 8, 9
T118	12	2%	70	1200	3	1%	31.90	7.5, 8, 9

HANDICAP PAPER

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	SHELL LENGTH MM	MUZZLE VELOCITY	DRAM EQUIV.	SHOT CHARGE WGT. OUNCES	GRAMS	SHOT SIZES
T171	12	2%	70	1235	HDCP	1%	31.90	7.5, 8

INTERNATIONAL PAPER

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	SHELL LENGTH MM	MUZZLE VELOCITY	DRAM EQUIV.	SHOT CHARGE WGT. OUNCES	GRAMS	SHOT SIZES
N119	12	2%	70	1325	3%	¾	24.01	7.5

EXTRA-LITE PAPER

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	SHELL LENGTH MM	MUZZLE VELOCITY	DRAM EQUIV.	SHOT CHARGE WGT. OUNCES	GRAMS	SHOT SIZES
T172	12	2%	70	1100	Extra-Lite	1%	31.90	7.5, 8

Look for the Low Recoil logo on select products for a softer shooting load.



Top Gun | SHOTSHELL SPECIFICATIONS

TARGET LOADS

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	SHELL LENGTH MM	MUZZLE VELOCITY	DRAM EQUIV.	SHOT CHARGE WGT. OUNCES	GRAMS	SHOT SIZES
TG12	12	2%	70	1145	2%	1%	31.90	7.5, 8, 9
TG12	12	2%	70	1200	3	1%	31.90	7.5, 8, 9
TG20	20	2%	70	1210	2%	¾	23.39	8, 9

STEEL TARGET LOADS

FEDERAL LOAD NO.	GAUGE	SHELL LENGTH INCHES	SHELL LENGTH MM	MUZZLE VELOCITY	DRAM EQUIV.	SHOT CHARGE WGT. OUNCES	GRAMS	SHOT SIZES
TG147	12	2%	70	1145	2%	1%	31.90	7

GOLD MEDAL® MATCH CENTERFIRE PRIMERS

FEDERAL LOAD NO.	TYPE	USE	NOMINAL DIAMETER
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

Gold Medal | PRIMERS

CHAMPION® CENTERFIRE PRIMERS

FEDERAL LOAD NO.	TYPE	USE	NOMINAL DIAMETER
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

Champion | PRIMERS

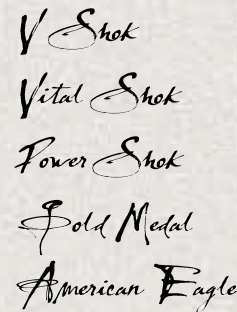
CHAMPION® SHOTSHELL PRIMERS

FEDERAL LOAD NO.	TYPE	USE	NOMINAL DIAMETER
209A	Shotshell	10, 12, 16, 20, 28 and .410 gauge	.243

CHAMPION® WADS

FEDERAL LOAD NO.	TYPE	USE
12S0	12 Gauge	¾ and 1 oz. loads in Gold Medal target shells
12S3	12 Gauge	1½ oz. loads in Gold Medal target and hunting shells
12S4	12 Gauge	1¼ oz. loads in Gold Medal target and hunting shells
20S1	20 Gauge	¾ and 1 oz. in all loads
28S1	28 Gauge	¾ oz. loads
410SC	.410 Gauge	¾ oz. loads (shot cup only)

Champion | WADS



CENTERFIRE RIFLE SPECIFICATIONS

Table with columns: USAGE, FEDERAL LOAD NO., CALIBER, BULLET WGT. IN GRAINS, BULLET STYLE, FACTORY PRIMER NO., MUZZLE, 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 100 YARDS, TEST BARREL LENGTH INCHES. Rows include various rifle calibers like 22 Rem., 243 Win., 270 Win., 308 Win., etc.

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

◇ = Nickel Plated Case **Moly-Coat = Molybdenum disulfide dry film lubricant ‡ = 200 Round Bulk Pack +P ammunition is loaded to a higher pressure. Use only in firearms recommended by the gun manufacturer.

BTHP = Boat-Tail Hollow Point BTSP = Boat-Tail Soft Point BT = Boat-Tail SP = Soft Point

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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.

Look for the Low Recoil logo on select products for a softer shooting load.

PRE = PREMIUM GM = GOLD MEDAL FED = FEDERAL AE = AMERICAN EAGLE

BALLISTICS CHARTS REFERENCE SECTION



Vital Shot
Power Shot
American Eagle

CENTERFIRE RIFLE SPECIFICATIONS

Table with columns: USAGE, FEDERAL LOAD NO., CALIBER, BULLET WGT. IN GRAINS, BULLET STYLE, FACTORY PRIMER NO., MUZZLE, VELOCITY IN FEET PER SECOND (TO NEAREST 5 FOOT-POUNDS), 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 0 YARDS, TEST BARREL LENGTH INCHES.

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

◇ = Nickel Plated Case BTSP = Boat-Tail Soft Point BT = Boat-Tail SP = Soft Point FN = Flat Nose

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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.

PRE = PREMIUM GM = GOLD MEDAL FED = FEDERAL AE = AMERICAN EAGLE

BALLISTICS CHARTS REFERENCE SECTION



Vital Shock
Power Shock
Gold Medal
American Eagle

CENTERFIRE RIFLE SPECIFICATIONS

BALLISTICS CHARTS REFERENCE SECTION

FEDERAL LOAD NO.	CALIBER	BULLET WGT. IN GRAINS	BULLET STYLE	FACTORY PRIMER NO.	VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)					ENERGY IN FOOT-POUNDS (TO NEAREST 5 FOOT-POUNDS)					WIND DRIFT IN INCHES @ 10 MPH CROSSWIND					HEIGHT OF BULLET TRAJECTORY IN INCHES ABOVE OR BELOW LINE OF SIGHT IF ZEROED AT 100 YARDS SIGHTS 1.5 INCHES ABOVE BORE LINE					TEST BARREL LENGTH INCHES							
					MUZZLE	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	MUZZLE	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	50 YDS.	100 YDS.	200 YDS.		300 YDS.	400 YDS.	500 YDS.				
PRE HE 3	P308G	308 Win. (7.62x51mm)	Nosler Partition	210	2740	2550	2370	2260	2030	1870	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
PRE 3	P308E	308 Win. (7.62x51mm)	Nosler Partition	210	2620	2430	2240	2060	1890	1730	2745	2350	2000	1695	1425	1195	0.7	3.3	7.8	14.2	23.4	-0.1	⊕	-4.4	-15.9	1.0	2.2	⊕	-9.2	-26.4	-53.7	24
GM 5	GM308M	308 Win. (7.62x51mm)	Sierra MatchKing BTHP GM210M	2600	2600	2410	2230	2060	1890	1730	2520	2165	1855	1575	1330	1120	0.7	3.2	7.6	13.9	22.9	-0.1	⊕	-4.5	-16.1	1.1	2.3	⊕	-9.3	-26.6	-54.0	24
GM 5	GM308M2	308 Win. (7.62x51mm)	Sierra MatchKing BTHP GM210M	2600	2600	2430	2260	2100	1940	1790	2625	2285	1980	1705	1460	1250	0.6	2.9	7.0	12.7	20.7	-0.1	⊕	-4.4	-15.8	1.0	2.2	⊕	-9.1	-25.9	-52.1	30
FED 2	308A	308 Win. (7.62x51mm)	Soft Point	210	2820	2530	2260	2010	1770	1560	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
FED 2	308LR1	308 Win. (7.62x51mm)	Soft Point	210	2000	1740	1510	1310	1160	1050	1510	1145	860	650	505	415	1.8	8.0	19.2	35.8	57.5	0.5	⊕	-10.0	-35.5	3.0	5.0	⊕	-20.5	-61.2	-128.1	24
FED 2	308B	308 Win. (7.62x51mm)	Soft Point	210	2620	2390	2180	1970	1780	1600	2745	2285	1895	1555	1265	1025	0.9	3.9	9.2	17.2	28.6	-0.1	⊕	-4.6	-16.6	1.1	2.3	⊕	-9.6	-28.2	-58.1	24
AE 5	AE308D	308 Win. (7.62x51mm)	Full Metal Jacket Boat-Tail	210	2820	2620	2430	2250	2070	1900	2650	2285	1965	1680	1425	1205	0.8	2.9	6.8	12.6	20.3	-0.2	⊕	-3.5	-13.0	0.7	1.8	⊕	-7.7	-22.4	-44.9	24
PRE 2	P3006P	30-06 Spring. (7.62x63mm)	Nosler Ballistic Tip	210	2910	2700	2490	2300	2110	1930	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
PRE 2	P3006S1	30-06 Spring. (7.62x63mm)	Nosler Solid Base BT	210	2900	2670	2440	2230	2030	1840	2800	2365	1990	1660	1375	1130	0.8	3.3	7.7	14.3	23.3	-0.2	⊕	-3.4	-12.6	0.7	1.7	⊕	-7.6	-22.1	-44.9	24
PRE 2	P3006G	30-06 Spring. (7.62x63mm)	Sierra GameKing BTSP	210	2910	2680	2470	2260	2070	1880	2820	2400	2030	1710	1425	1180	0.8	3.1	7.3	13.6	22.0	-0.2	⊕	-3.3	-12.4	0.6	1.7	⊕	-7.4	-21.6	-43.7	24
PRE 2	P3006AD	30-06 Spring. (7.62x63mm)	Nosler Partition	210	2830	2610	2400	2190	2000	1820	2935	2490	2100	1760	1465	1210	0.8	3.2	7.7	14.2	23.1	-0.2	⊕	-3.6	-13.3	0.7	1.8	⊕	-7.9	-23.0	-46.8	24
PRE 2	P3006S2	30-06 Spring. (7.62x63mm)	Nosler Solid Base BT	210	2790	2580	2380	2180	2000	1830	2850	2435	2070	1750	1465	1220	0.8	3.1	7.5	13.7	22.3	-0.1	⊕	-3.7	-13.7	0.8	1.9	⊕	-8.1	-23.4	-47.3	24
PRE HE 3	P3006T4	30-06 Spring. (7.62x63mm)	Trophy Bonded Bear Claw	210	3000	2730	2470	2230	2000	1790	3295	2725	2235	1820	1465	1170	0.9	3.6	8.5	15.9	26.2	-0.2	⊕	-3.2	-12.1	0.6	1.6	⊕	-7.3	-21.6	-44.6	24
PRE 2	P3006D	30-06 Spring. (7.62x63mm)	Sierra GameKing BTSP	210	2800	2610	2420	2240	2070	1910	2870	2490	2145	1840	1570	1330	0.7	2.8	6.7	12.4	19.9	-0.2	⊕	-3.6	-13.2	0.7	1.8	⊕	-7.8	-22.5	-45.1	24
PRE 2	P3006Q	30-06 Spring. (7.62x63mm)	Nosler Ballistic Tip	210	2800	2610	2430	2250	2080	1920	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
PRE 2	P3006T1	30-06 Spring. (7.62x63mm)	Trophy Bonded Bear Claw	210	2800	2540	2290	2050	1830	1630	2870	2355	1915	1540	1225	970	1.0	4.0	9.6	17.9	29.8	-0.1	⊕	-3.9	-14.5	0.8	2.0	⊕	-8.7	-25.5	-53.2	24
PRE 3	P3006A1	30-06 Spring. (7.62x63mm)	Nosler AccuBond	215	2700	2530	2360	2200	2050	1900	2915	2555	2230	1940	1680	1445	0.6	2.6	6.3	11.6	18.6	-0.1	⊕	-3.9	-14.1	0.9	2.0	⊕	-8.3	-23.7	-47.1	24
PRE 2	P3006S3	30-06 Spring. (7.62x63mm)	Nosler Solid Base BT	210	2710	2530	2350	2180	2020	1870	2935	2550	2210	1905	1630	1390	0.7	2.8	6.7	12.3	19.9	-0.1	⊕	-3.9	-14.2	0.9	2.0	⊕	-8.4	-23.9	-47.8	24
PRE HE 3	P3006T3	30-06 Spring. (7.62x63mm)	Trophy Bonded Bear Claw	210	2880	2630	2380	2160	1940	1740	3315	2755	2270	1855	1505	1205	0.9	3.6	8.7	16.1	26.6	-0.2	⊕	-3.5	-13.3	0.7	1.8	⊕	-8.0	-23.3	-48.2	24
PRE HE 3	P3006R	30-06 Spring. (7.62x63mm)	Nosler Partition	210	2880	2690	2500	2320	2150	1990	3315	2885	2495	2150	1845	1575	0.7	2.7	6.3	11.7	18.9	-0.2	⊕	-3.3	-12.2	0.6	1.7	⊕	-7.2	-21.0	-42.3	24
PRE 3	P3006F	30-06 Spring. (7.62x63mm)	Nosler Partition	210	2700	2510	2320	2140	1970	1810	2915	2510	2150	1830	1550	1305	0.7	3.0	7.3	13.4	21.7	-0.1	⊕	-4.0	-14.6	0.9	2.0	⊕	-8.6	-24.6	-49.6	24
PRE 2	P3006T2	30-06 Spring. (7.62x63mm)	Trophy Bonded Bear Claw	210	2700	2460	2220	2010	1800	1610	2915	2410	1975	1605	1295	1035	0.9	4.0	9.4	17.6	29.3	-0.1	⊕	-4.3	-15.6	1.0	2.1	⊕	-9.2	-27.0	-56.0	24
PRE 3	P3006AE	30-06 Spring. (7.62x63mm)	Barnes Triple Shock X-Bullet	210	2700	2510	2340	2160	2000	1840	2915	2525	2180	1870	1600	1360	0.7	2.9	6.9	12.6	20.5	-0.1	⊕	-4.0	-14.4	0.9	2.0	⊕	-8.5	-24.2	-48.6	24
GM 5	GM3006M	30-06 Spring. (7.62x63mm)	Sierra MatchKing BTHP GM210M	2700	2700	2510	2320	2150	1980	1820	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	-24.6	-49.3	24
FED 2	3006CS	30-06 Spring. (7.62x63mm)	Soft Point	210	3140	2780	2450	2140	1850	1590	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
FED 2	3006A	30-06 Spring. (7.62x63mm)	Soft Point	210	2910	2620	2340	2080	1840	1620	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
FED 2	3006TS	30-06 Spring. (7.62x63mm)	Soft Point	210	2800	2560	2340	2120	1920	1730	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
FED 2	3006LR1	30-06 Spring. (7.62x63mm)	Soft Point	210	2000	1740	1510	1310	1160	1050	1510	1145	860	650	505	415	1.8	8.0	19.2	35.8	57.5	0.5	⊕	-10.0	-35.5	3.0	5.0	⊕	-20.5	-61.2	-128.1	24
FED 2	3006B	30-06 Spring. (7.62x63mm)	Soft Point	210	2700	2470	2250	2050	1850	1670	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
FED 2	3006HS	30-06 Spring. (7.62x63mm)	Soft Point	210	2410	2170	1870	1630	1420	1240	2835	2215	1705	1300	985	755	1.5	5.9	14.5	27.2	45.1	0.1	⊕	-6.1	-22.5	1.6	3.1	⊕	-13.3	-39.6	-83.6	24
AE 5	AE3006N	30-06 Spring. (7.62x63mm)	Full Metal Jacket Boat-Tail	210	2910	2710	2510	2330	2150	1980	2820	2440	2105	1805	1540	1305	0.7	2.8	6.4	12.0	19.4	-0.2	⊕	-3.2	-12.0	0.6	1.6	⊕	-7.1	-20.8	-41.8	24
PRE 3	P300HA	300 H&H Magnum	Nosler Partition	215	2880	2620	2380	2150	1930	1730	3315	2750	2260	1845	1490	1190	0.9	3.7	8.8	16.3	27.0	-0.2	⊕	-3.5	-13.3	0.7	1.8	⊕	-8.0	-23.4	-48.5	24
PRE 2	P300WT4	300 Win. Magnum	Trophy Bonded Bear Claw	215	3280	2980	2700	2440	2190	1960	3585	2960	2430	1980	1595	1275	0.8	3.3	7.8	14.6	23.9	-0.3	⊕	-2.4	-9.6	0.3	1.2	⊕	-6.0	-17.9	-37.0	24
PRE 2	P300WS1	300 Win. Magnum	Nosler Solid Base BT	215	3140	2910	2700	2500	2300	2110	3610	3110	2670	2280	1940	1635	0.6	2.6	6.2	11.3	18.6	-0.3	⊕	-2.6	-10.0							



Vital Shok

Cape Shok

Power Shok

Gold Medal

CENTERFIRE RIFLE SPECIFICATIONS

FEDERAL LOAD NO.	CALIBER	BULLET WGT. IN GRAINS	BULLET STYLE	FACTORY PRIMER NO.	VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS)					ENERGY IN FOOT-POUNDS (TO NEAREST 5 FOOT-POUNDS)					WIND DRIFT IN INCHES @ 10 MPH CROSSWIND					HEIGHT OF BULLET TRAJECTORY IN INCHES ABOVE OR BELOW LINE OF SIGHT IF ZEROED AT 100 YARDS					TEST BARREL LENGTH INCHES									
					MUZZLE	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	MUZZLE	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	50 YDS.	100 YDS.	200 YDS.		300 YDS.	400 YDS.	500 YDS.						
FED 2	8A	8mm Mauser (8x57mm JS Mauser)	170 11.02	Soft Point	210	2360	1970	1620	1330	1120	1000	2100	1460	990	665	475	375	2.1	9.5	23.1	44.2	72.1	0.2	⊕	-7.7	-28.7	2.1	3.8	⊕	-17.3	-54.6	-119.7	24	
PRE 2	P338J	338 Win. Magnum	180 11.66	Nosler Ballistic Tip	215	3120	2860	2610	2380	2160	1950	3890	3270	2730	2265	1865	1525	0.7	3.2	7.3	13.8	22.4	-0.3	⊕	-2.8	-10.6	0.4	1.4	⊕	-6.4	-19.1	-39.1	24	
PRE 2	P338A2	338 Win. Magnum	210 13.61	Nosler Partition	215	2830	2690	2380	2180	1980	1790	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	-23.4	-47.5	24	
PRE 2	P338A1	338 Win. Magnum	225 14.58	Nosler AccuBond	215	2800	2630	2470	2320	2170	2030	3915	3465	3055	2685	2350	2050	0.6	2.4	5.6	10.4	16.6	-0.2	⊕	-3.5	-12.7	0.7	1.8	⊕	-7.4	-21.4	-42.7	24	
HE 2	P338T2	338 Win. Magnum	225 14.58	Trophy Bonded Bear Claw	215	2940	2690	2450	2220	2010	1810	4320	3610	3000	2470	2020	1635	1350	0.9	3.4	8.1	15.1	24.8	-0.2	⊕	-3.3	-12.5	0.6	1.7	⊕	-7.5	-22.0	-45.1	24
PRE 2	P338K	338 Win. Magnum	225 14.58	Barnes Triple Shock X-Bullet	215	2800	2610	2430	2260	2090	1930	3915	3405	2950	2545	2185	1860	0.7	2.7	6.5	12.0	19.2	-0.2	⊕	-3.6	-13.1	0.7	1.8	⊕	-7.7	-22.3	-44.6	24	
PRE 2	P338T1	338 Win. Magnum	225 14.58	Trophy Bonded Bear Claw	215	2800	2560	2330	2110	1900	1710	3915	3265	2700	2220	1805	1455	1150	0.9	3.7	8.7	16.1	26.7	-0.1	⊕	-3.8	-14.1	0.8	1.9	⊕	-8.4	-24.5	-50.6	24
PRE 2	P338B2	338 Win. Magnum	250 16.20	Nosler Partition	215	2660	2470	2300	2120	1960	1800	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	
HE 2	P338D	338 Win. Magnum	250 16.20	Nosler Partition	215	2800	2610	2430	2250	2080	1920	4350	3775	3265	2810	2405	2045	1740	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
FED 3	338ES	338 Win. Magnum	225 14.58	Soft Point	215	2780	2570	2360	2170	1980	1800	3860	3290	2785	2345	1960	1625	1350	0.8	3.2	7.6	14.1	22.9	-0.1	⊕	-3.8	-13.9	0.8	1.9	⊕	-8.2	-23.8	-48.1	24
PRE 3	P338RUMB	338 Rem. Ultra Magnum	180 11.66	Nosler Ballistic Tip	216	3280	3080	2890	2710	2530	2360	4300	3790	3335	2925	2560	2225	1920	0.5	2.1	4.9	9.0	14.5	-0.3	⊕	-2.1	-8.5	0.2	1.1	⊕	-5.3	-15.3	-30.7	24
PRE 3	P338RUMA	338 Rem. Ultra Magnum	210 13.61	Nosler Partition	216	3030	2800	2590	2390	2190	2000	4280	3665	3125	2650	2235	1870	0.7	2.9	6.6	12.4	20.1	-0.2	⊕	-2.9	-11.0	0.5	1.5	⊕	-6.6	-19.4	-39.4	24	
PRE 3	P338RUMA1	338 Rem. Ultra Magnum	225 14.58	Nosler AccuBond	216	3020	2850	2680	2520	2360	2210	4555	4045	3580	3165	2785	2440	0.5	2.2	5.0	9.1	14.9	-0.2	⊕	-2.8	-10.5	0.5	1.4	⊕	-6.2	-17.9	-36.0	24	
PRE 3	P338RUMT1	338 Rem. Ultra Magnum	250 16.20	Trophy Bonded Bear Claw	216	2860	2630	2420	2210	2020	1830	4540	3850	3245	2720	2265	1865	1580	0.8	3.2	7.6	14.1	23.0	-0.2	⊕	-3.5	-13.0	0.7	1.7	⊕	-7.8	-22.6	-45.8	24
PRE 3	P340WB1	340 Weatherby Magnum	225 14.58	Trophy Bonded Bear Claw	215	2900	2650	2420	2200	1990	1790	4200	3520	2925	2415	1975	1605	1330	0.9	3.4	8.2	15.3	24.9	-0.2	⊕	-3.4	-12.9	0.7	1.7	⊕	-7.7	-22.7	-46.2	24
FED 3	C357G	357 Magnum	180 11.66	Hollow Point	100	1550	1160	970	850	770	700	960	535	370	290	235	195	5.6	21.9	46.2	77.3	115.3	1.7	⊕	-24.1	-84.0	7.7	12.1	⊕	-47.9	-140.4	-287.9	18	
FED 2	35A	35 Rem.	200 12.96	Soft Point RN	210	2080	1700	1370	1140	1000	910	1920	1280	840	575	445	370	2.8	12.0	29.1	53.4	83.6	0.5	⊕	-10.7	-40.2	3.2	5.4	⊕	-24.1	-75.0	-158.9	24	
PRE 3	P35WT1	35 Whelen	225 14.58	Trophy Bonded Bear Claw	210	2600	2400	2200	2020	1840	1680	3375	2870	2420	2030	1690	1405	1150	0.8	3.5	8.2	15.2	25.2	-0.1	⊕	-4.6	-16.4	1.1	2.3	⊕	-9.4	-27.3	-56.0	24
PRE 2	P375T4	375 H&H Magnum	250 16.20	Trophy Bonded Bear Claw	215	2670	2370	2080	1820	1580	1370	3955	3105	2405	1835	1385	1045	800	1.2	5.3	12.5	24.1	40.2	-0.1	⊕	-4.8	-17.5	1.1	2.4	⊕	-10.4	-31.6	-66.8	24
PRE 4	P375A1	375 H&H Magnum	260 16.85	Nosler AccuBond	215	2700	2510	2330	2160	1990	1830	4210	3640	3130	2685	2285	1935	1680	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
HE 4	P375T3	375 H&H Magnum	300 19.44	Trophy Bonded Bear Claw	215	2600	2340	2100	1870	1660	1470	4505	3650	2935	2330	1835	1440	1180	1.0	4.6	10.8	20.7	34.1	0.0	⊕	-4.9	-17.6	1.2	2.5	⊕	-10.2	-30.8	-63.7	24
PRE 4	P375F	375 H&H Magnum	300 19.44	Nosler Partition	215	2530	2320	2120	1930	1750	1580	4265	3585	2990	2475	2040	1670	1400	0.9	3.9	9.0	17.0	28.0	0.0	⊕	-5.0	-17.7	1.2	2.5	⊕	-10.1	-29.8	-61.1	24
PRE 4	P375T1	375 H&H Magnum	300 19.44	Trophy Bonded Bear Claw	215	2530	2260	2000	1770	1550	1360	4265	3395	2670	2075	1600	1235	960	1.2	5.2	12.4	23.5	39.0	0.0	⊕	-5.3	-19.4	1.4	2.7	⊕	-11.4	-34.1	-71.4	24
PRE 4	P375T2	375 H&H Magnum	300 19.44	Trophy Bonded Sledgehammer Solid	215	2530	2160	1820	1520	1280	1100	4265	3105	2210	1550	1090	810	600	1.7	7.4	18.3	35.4	59.1	0.1	⊕	-6.0	-22.7	1.5	3.0	⊕	-13.7	-42.7	-93.4	24
FED 3	375A	375 H&H Magnum	270 17.50	Soft Point	215	2690	2420	2160	1920	1700	1500	4340	3505	2805	2215	1735	1345	1080	1.0	4.6	10.7	20.4	33.8	-0.1	⊕	-4.5	-16.4	1.0	2.3	⊕	-9.6	-28.9	-60.1	24
FED 3	375B	375 H&H Magnum	300 19.44	Soft Point	215	2530	2270	2020	1790	1580	1390	4265	3425	2720	2135	1665	1295	1020	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
PRE 4	P416C	416 Rigby	400 25.92	Nosler Partition	216	2440	2230	2020	1830	1650	1490	5285	4400	3630	2970	2420	1960	1.1	4.3	10.0	19.0	31.0	0.1	⊕	-5.5	-19.5	1.4	2.8	⊕	-11.2	-33.2	-67.6	24	
PRE 4	P416T1	416 Rigby	400 25.92	Trophy Bonded Bear Claw	216	2370	2150	1940	1750	1570	1410	4990	4110	3350	2715	2190	1760	1400	1.2	4.6	11.1	20.8	33.9	0.1	⊕	-6.0	-21.3	1.6	3.0	⊕	-12.3	-36.2	-73.9	24
PRE 4	P416T2	416 Rigby	400 25.92	Trophy Bonded Sledgehammer Solid	216	2370	2120	1880	1660	1460	1290	4990	3975	3130	2445	1895	1480	1180	1.4	5.4	13.3	24.8	41.2	0.1	⊕	-6.2	-22.6	1.7	3.1	⊕	-13.3	-39.0	-81.5	24
PRE 4	P416RA	416 Rem. Magnum	400 25.92	Nosler Partition	216	2410	2200	2000	1810	1630	1470	5160	4290	3540	2900	2365	1915	1600	1.1	4.3	10.2	19.3	31.3	0.1	⊕	-5.7	-20.1	1.5	2.8	⊕	-11.6	-34.1	-69.4	24
PRE 4	P416RT1	416 Rem. Magnum	400 25.92	Trophy Bonded Bear Claw	216	2400	2180	1970	1770	1590	1430	5115	4215	3445	2790	2250	1805	1500	1.2	4.6	10.9	20.5	33.4	0.1	⊕	-5.8	-20.6	1.5	2.9	⊕	-11.9	-35.2	-71.8	24
PRE 4	P416RT2	416 Rem. Magnum	400 25.92	Trophy Bonded Sledgehammer Solid	216	2400	2150	1910	1700	1500	1330	5115	4105	3255	2560	2000	1570	1300	1.3	5.2	12.7	23.6	39.2	0.1	⊕	-6.0	-21.7	1.6	3.0	⊕	-12.7	-37.3	-77.9	24
FED 2	C44A	44 Rem. Magnum	240 15.55	Hollow Point	150	1760	1360	1090	950	860	790	1650	985	635	480	395	330	4.2	17.9	40.0	68.5	102.7	1.1	⊕	-17.6	-63.7	5.5	8.8	⊕	-37.3	-110.9	-228.0	20	
FED 2	4570AS	45-70 Government	300 19.44	Speer® Hot-Cor SP	210	1880	1640	1420	1240	1110	1020	2355	1790																					



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HANDGUN SPECIFICATIONS

FEDERAL LOAD NO.	CALIBER	BULLET WGT. IN GRAINS	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.	100 YDS.	MUZZLE	25 YDS.	50 YDS.	100 YDS.	25 YDS.	50 YDS.	100 YDS.					
AE 5 AE25AP	25 Auto (6.35mm Browning)	50	3.24	FMJ	200	760	740	730	710	700	65	60	60	55	55	⊕	-3.0	-10.2	-21.5	2
PRE 6 P32HS1	32 Auto (7.65mm Browning)	65	4.21	Hydra-Shok JHP	100	950	920	890	860	830	130	120	115	105	100	⊕	-1.7	-6.1	-13.6	4
AE 5 AE32AP	32 Auto (7.65mm Browning)	71	4.60	FMJ	100	910	880	860	830	810	130	125	115	110	105	⊕	-1.9	-6.8	-14.7	4
FED 5 C32LA	32 S&W Long	98	6.35	Lead Wadcutter	100	780	700	620	560	500	130	105	85	65	55	⊕	-3.6	-12.8	-29.0	4-V
FED 5 C32LB	32 S&W Long	98	6.35	Lead Round Nose	100	710	690	670	660	640	110	105	100	95	90	⊕	-3.6	-12.1	-25.6	4-V
FED 6 C32HRB	32 H&R Magnum	85	5.51	JHP	100	1100	1050	1000	960	930	230	205	190	175	165	⊕	-1.1	-4.3	-9.9	4½-V
FED 5 C32HRA	32 H&R Magnum	95	6.16	Lead Semi-Wadcutter	100	1030	990	960	930	900	225	210	195	180	170	⊕	-1.3	-5.0	-11.1	4½-V
PRE 6 PD38HS1H	380 Auto (9x17mm Short)	90	5.83	Hydra-Shok JHP	100	1000	940	890	840	800	200	175	155	140	130	⊕	-1.6	-5.9	-13.3	3½
FED 6 C380BP	380 Auto (9x17mm Short)	90	5.83	JHP	100	1000	940	890	840	800	200	175	155	140	130	⊕	-1.6	-5.9	-13.3	3½
AE 5 AE380AP	380 Auto (9x17mm Short)	95	6.16	FMJ	100	960	910	870	830	790	195	175	160	145	130	⊕	-1.7	-6.4	-14.1	3½
AE 5 AE9MK	9mm Makarov (9x18mm Makarov)	95	6.16	FMJ	100	990	960	930	900	870	205	195	180	170	160	⊕	-1.5	-5.5	-12.2	3½
PRE 6 PD9CSP2H	9mm Luger (9x19mm Parabellum)	105	6.80	EFMJ	200	1230	1160	1110	1060	1030	350	315	285	265	245	⊕	-0.7	-3.2	-7.6	4
PRE 6 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
PRE 6 PD9HSH	9mm Luger (9x19mm Parabellum)	135	8.75	Hydra-Shok JHP	200	1050	1030	1010	990	970	330	320	305	295	285	⊕	-1.1	-4.4	-9.9	4
PRE 6 P9HS2	9mm Luger (9x19mm Parabellum)	147	9.53	Hydra-Shok JHP	200	1000	960	920	890	860	325	300	280	260	240	⊕	-1.5	-5.5	-12.2	4
FED 6 C9BP	9mm Luger (9x19mm Parabellum)	115	7.45	JHP	200	1160	1110	1060	1020	990	345	310	285	265	250	⊕	-0.9	-3.7	-8.5	4
FED 6 C9MS	9mm Luger (9x19mm Parabellum)	147	9.53	JHP	200	980	950	930	900	880	315	295	280	265	255	⊕	-1.5	-5.5	-12.2	4
AE 5 AE9DP	9mm Luger (9x19mm Parabellum)	115	7.45	FMJ	200	1160	1110	1060	1020	990	345	310	285	265	250	⊕	-0.9	-3.7	-8.5	3½
AE 5 AE9AP	9mm Luger (9x19mm Parabellum)	124	8.04	FMJ	200	1120	1070	1030	990	960	345	315	290	270	255	⊕	-1.0	-4.0	-9.3	4
AE 5 AE9N1	9mm Luger (9x19mm Parabellum)	124	8.04	TMJ	205TMF	1120	1070	1030	990	960	345	315	290	270	255	⊕	-1.0	-4.0	-9.3	4
AE 5 AE9FP	9mm Luger (9x19mm Parabellum)	147	9.53	FMJ Flat Point	200	960	940	910	890	870	300	285	270	260	245	⊕	-1.6	-5.8	-12.7	4
AE 5 AE9N2	9mm Luger (9x19mm Parabellum)	147	9.53	TMJ	205TMF	960	940	910	890	870	300	285	270	260	245	⊕	-1.6	-5.8	-12.7	4
AE 5 AE38S1	38 Super (High Velocity + P)	130	8.42	FMJ	200	1200	1140	1100	1060	1020	415	375	345	320	300	⊕	-0.8	-3.3	-7.8	5
PRE 6 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
AE 5 AE357S2	357 Sig	125	8.10	FMJ	200	1350	1270	1190	1130	1080	505	445	395	355	325	⊕	-0.5	-2.4	-6.1	4-V
PRE 6 PD38HS3H	38 Special	110	7.13	Hydra-Shok JHP	100	1000	970	940	910	880	245	230	215	200	190	⊕	-1.4	-5.3	-11.9	4-V
GM 5 GM38A	38 Special	148	9.59	Lead Wadcutter Match GM100M	100	710	670	630	600	560	165	145	130	115	105	⊕	-4.0	-13.4	-28.9	4-V
AE 5 AE38K	38 Special	130	8.42	FMJ	100	950	920	890	870	840	260	245	230	215	205	⊕	-1.7	-6.1	-13.4	4-V
AE 5 AE38B	38 Special	158	10.24	Lead Round Nose	100	760	740	720	710	690	205	195	185	175	165	⊕	-3.1	-10.3	-21.7	4-V
PRE 6 P38HS1	38 Special (High Velocity + P)	129	8.36	Hydra-Shok JHP	100	950	930	910	890	870	260	245	235	225	215	⊕	-1.6	-5.8	-12.8	4-V
FED 6 C38E	38 Special (High Velocity + P)	125	8.10	JHP	100	950	930	900	880	860	250	240	225	215	205	⊕	-1.6	-5.9	-13.0	4-V
PRE 6 PD357HS2H	357 Magnum	130	8.42	Hydra-Shok JHP	100	1300	1210	1130	1070	1020	490	420	370	330	300	⊕	-0.6	-2.9	-7.1	4-V
PRE 2 P357HS1	357 Magnum	158	10.24	Hydra-Shok JHP	100	1240	1170	1110	1060	1020	540	480	430	395	365	⊕	-0.7	-3.1	-7.5	4
PRE 2 P357J	357 Magnum	180	11.66	CastCore	100	1250	1200	1160	1120	1080	625	575	535	495	465	⊕	-1.0	-3.6	-8.0	4-V
FED 6 C357B	357 Magnum	125	8.10	JHP	100	1450	1340	1250	1170	1100	585	500	430	380	335	⊕	-0.3	-2.0	-5.3	4-V
FED 6 C357E	357 Magnum	158	10.24	JHP	100	1240	1170	1110	1060	1020	540	480	430	395	365	⊕	-0.7	-3.1	-7.5	4-V
FED 2 C357G	357 Magnum	180	11.66	JHP	100	1090	1020	970	930	890	475	420	380	345	315	⊕	-1.2	-4.6	-10.6	4-V
AE 5 AE357A	357 Magnum	158	10.24	Jacketed Soft Point	100	1240	1170	1110	1060	1020	540	480	430	395	365	⊕	-0.7	-3.1	-7.5	4-V
PRE 6 PD40HS4H	40 S&W	135	8.75	Hydra-Shok JHP	100	1190	1060	970	910	850	425	335	280	245	220	⊕	-1.0	-4.3	-10.3	4
PRE 6 P40HS2	40 S&W	155	10.04	Hydra-Shok JHP	100	1140	1080	1030	990	950	445	400	365	335	310	⊕	-1.0	-4.0	-9.2	4
PRE 6 P40HS3	40 S&W	165	10.69	Hydra-Shok JHP	100	980	960	930	910	890	350	335	320	305	290	⊕	-1.5	-5.5	-12.0	4
PRE 6 PD40CSP2H	40 S&W	135	8.75	EFMJ	100	1190	1060	970	910	850	425	335	280	245	220	⊕	-1.0	-4.3	-10.3	4
PRE 6 P40HS1	40 S&W	180	11.66	Hydra-Shok JHP	100	990	960	940	910	890	390	370	350	335	320	⊕	-1.5	-5.4	-11.9	4
FED 6 C40SWB	40 S&W	155	10.04	JHP	100	1140	1080	1030	990	950	445	400	365	335	310	⊕	-1.0	-4.0	-9.2	4
FED 6 C40SWA	40 S&W	180	11.66	JHP	100	990	960	940	910	890	390	370	350	335	320	⊕	-1.5	-5.4	-11.9	4

*P ammunition is loaded to a higher pressure. Use only in firearms recommended by the gun manufacturer.
 FMJ = Full Metal Jacket JHP = Jacketed Hollow Point EFMJ = Expanding Full Metal Jacket TMJ = Total Metal Jacket

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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.

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

PRE = PREMIUM GM = GOLD MEDAL FED = FEDERAL AE = AMERICAN EAGLE

BALLISTICS CHARTS REFERENCE SECTION



Vital Shok
 Personal Defense
 Power Shok
 Gold Medal
 Champion
 American Eagle

HANDGUN SPECIFICATIONS

FEDERAL LOAD NO.	CALIBER	BULLET WGT. IN GRAINS	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.	100 YDS.	MUZZLE	25 YDS.	50 YDS.	100 YDS.	25 YDS.	50 YDS.	100 YDS.					
AE 5 AE40R2	40 S&W	155	10.04	FMJ	200	1140	1080	1040	1000	960	445	405	370	340	320	⊕	-1.0	-3.9	-9.1	4
AE 5 AE40R3	40 S&W	165	10.69	FMJ	200	980	950	930	900	880	350	335	315	300	285	⊕	-1.5	-5.5	-12.2	4
AE 5 AE40N1	40 S&W	180	11.66	TMJ	205TMF	990	960	940	910	890	390	370	350	335	320	⊕	-1.5	-5.4	-11.9	4
AE 5 AE40R1	40 S&W	180	11.66	FMJ	200	990	960	940	910	890	390	370	350	335	320	⊕	-1.5	-5.4	-11.9	4
PRE 6 P10HS1	10mm Auto	180	11.66	Hydra-Shok JHP	150	1030	1000	970	950	920	425	400	375	355	340	⊕	-1.3	-4.8	-10.9	5
FED 6 C10C	10mm Auto	180	11.66	JHP	150	1030	1000	970	950	920	425	400	375	355	340	⊕	-1.3	-4.8	-10.9	5
AE 5 AE10A	10mm Auto	180	11.66	FMJ	150	1060	1030	1000	970	940	450	420	395	375	355	⊕	-1.2	-4.5	-10.2	5
PRE 2 P41B	41 Rem. Magnum	250	16.2	CastCore	150	1250	1200	1160	1120	1080	865	800	740	690	645	⊕	-1.0	-3.6	-8.0	6½-V
FED 2 C41A	41 Rem. Magnum	210	13.61	JHP	150	1300	1210	1140	1080	1030	790	685	605	540	495	⊕	-0.6	-2.8	-6.9	6½-V
FED 5 C44SA	44 S&W Special	200	12.96	Semi-Wadcutter HP	150	900	860	830	800	770	360	330	305	285	265	⊕	-2.0	-7.2	-15.7	6½-V
PRE 6 P44HS1	44 Rem. Magnum	240	15.55	Hydra-Shok JHP	150	1180	1130	1080	1040	1010	740	675	625	580	545	⊕	-0.8	-3.5	-8.1	6½-V
PRE 2 P44E	44 Rem. Magnum	300	19.44	CastCore	150	1250	1200	1160	1120	1080	1040	960	890	830	775	⊕	-1.0	-3.6	-8.0	6½-V
FED 2 C44B	44 Rem. Magnum	180	11.66	JHP	150	1610	1480	1370	1270	1180	1035	880	750	640	555	⊕	-0.1	-1.3	-3.9	6½-V
FED 2 C44A	44 Rem. Magnum	240	15.55	JHP	150	1180	1130	1080	1040	1010	740	675	625	580	545	⊕	-0.8	-3.5	-8.1	6½-V
AE 5 AE44A	44 Rem. Magnum	240	15.55	JHP	150	1180	1130</													



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