



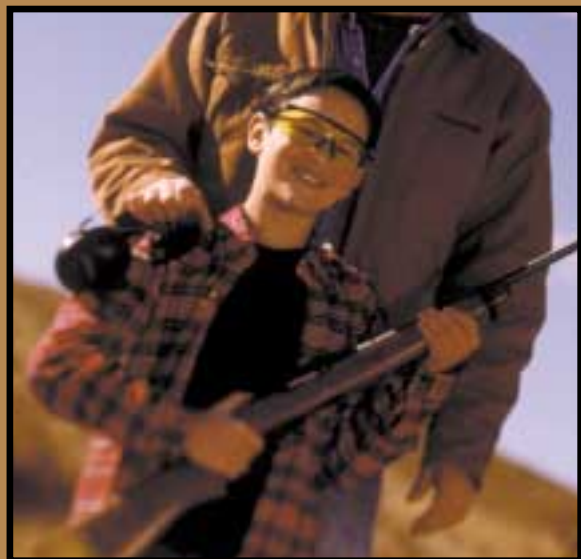
**FEDERAL<sup>®</sup>**  
2001 CATALOG

*There's more to shooting than pulling the trigger and more to Federal than just ammunition. We think America's shooting traditions, game animals and habitat are all precious national resources. We believe they deserve a sustained commitment that goes beyond any single season. That's why we donate our own time, money and energy to organizations that are best suited to preserve these resources for the future. We encourage you to join us in this effort.*

***Making a difference long after the shot is made.***

*Please support the organizations that make a difference for everyone who enjoys the outdoors. Like Federal, every shooter can make a difference long after the shot is made.*

Cover painting "Autumn Whitetails" Jim Hautman  
[www.hautman.com](http://www.hautman.com)



Federal supports the following organizations.  
Join us and help preserve the rich traditions  
of hunting and shooting.



4-H  
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United States Biathlon Association

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Wildlife Forever

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Wildlife Management Institute

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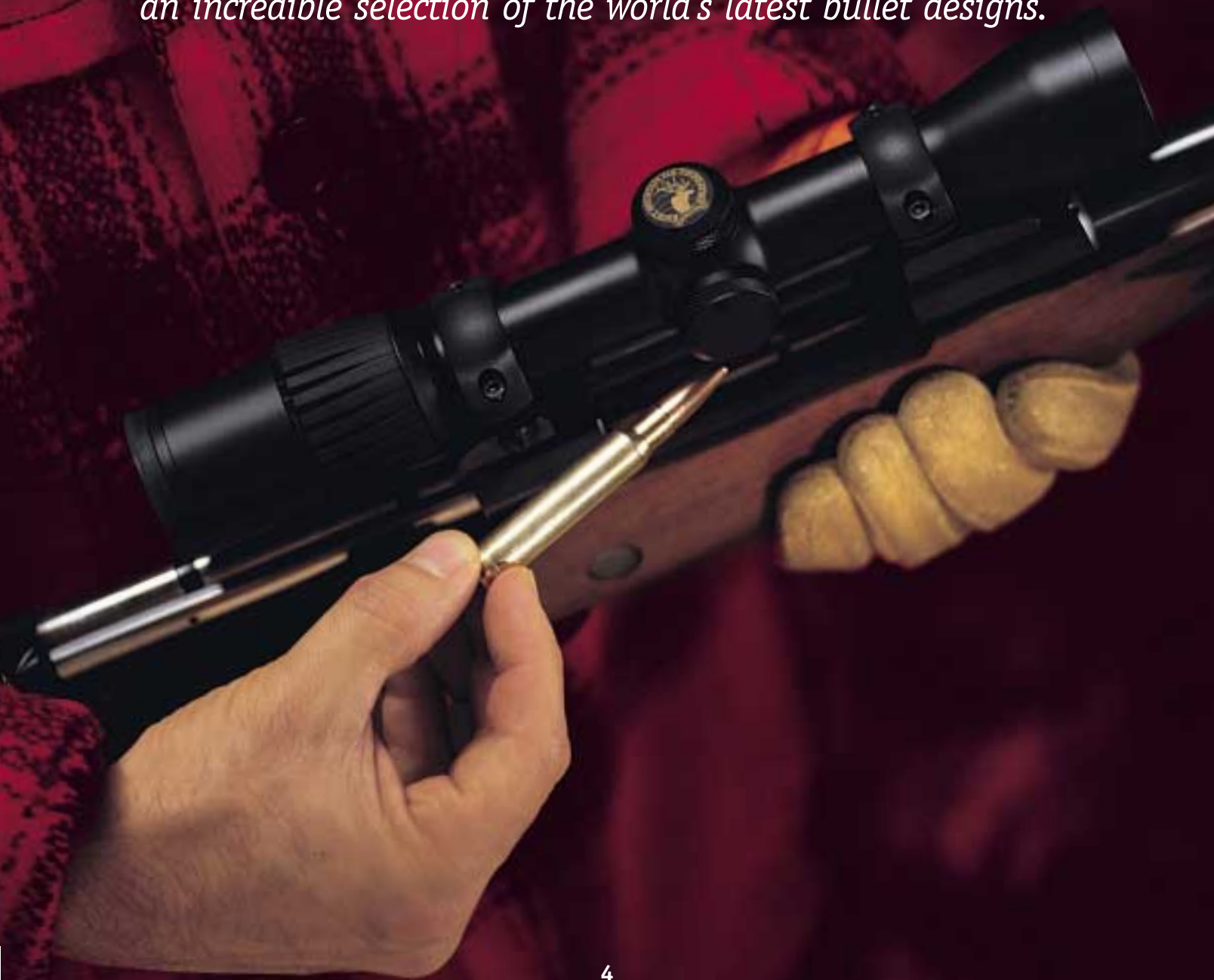
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# ***PREMIUM<sup>®</sup> CENTERFIRE***

*It's almost unfair to call our Premium line of ammunition one single line. It's actually four different lines of ammunition, each specialized for a specific type of shooting. Premium is also more like custom ammunition. Each cartridge is built with better brass, hotter primers, a more precise powder measure, tighter specs and an incredible selection of the world's latest bullet designs.*



# PREMIUM® CENTERFIRE RIFLE LOADS

## Premium® High Energy Rifle

Improve your rifle's performance with Premium High Energy. You get higher velocity, higher energy, flatter trajectory with less bullet drift — plus, of course, top performing bullets like Trophy Bonded Bear Claw, Sierra GameKing or Nosler Partition. Premium High Energy cartridges are a great choice for hunting in wide open terrain, or for larger game that requires additional stopping power. See what these loads can do for your favorite hunting rifle!

Available in 10 Calibers, 17 Individual Loads and 3 Bullet Styles:

- Trophy Bonded Bear Claw
- Sierra Game King Boat-Tail
- Nosler Partition

## Premium® Safari Rifle

When you're after large or dangerous game, you need a cartridge that's made without compromise. Premium Safari loads are nickel-plated for better feeding, ejection and corrosion resistance. Each primer is lacquer-sealed to protect against moisture and assure instant ignition. And the cartridges boast heavy hitting Trophy Bonded Sledgehammer Solid, Trophy Bonded Bear Claw, Nosler Partition, and Woodleigh Weldcore bullets. The ultimate loads for the ultimate hunting experience.

Available in 12 Calibers, 33 Individual Loads and 5 Bullet Styles:

- Trophy Bonded Bear Claw
- Trophy Bonded Sledgehammer
- Nosler Partition
- Woodleigh Soft Point
- Woodleigh Solid

## Premium® Hunting Rifle

You wait a whole year for hunting season and spend days or weeks looking for the right spot to sit. Spend a little more and get a cartridge that makes the wait and the work worthwhile. Premium hunting rounds allow you to choose the best bullet for the job — Trophy Bonded Bear Claws produce incredible stopping power for all game hunting situations. Sierra GameKing bullets have a boat-tail design for flat shooting, greater power and less wind drift down range. Barnes XLC Coated X-Bullets offer virtually 100% weight retention in the latest 4-petal expansion design. Nosler Partition bullets drive deep when you need penetration. And Nosler Ballistic Tips are extremely flat shooting bullets that work exceptionally well on thin-skinned game.

Available in 26 Calibers, 75 Individual Loads and 5 Bullet Styles:

- Trophy Bonded Bear Claw
- Sierra Game King Boat-Tail
- Barnes XLC Coated X-Bullet
- Nosler Partition
- Nosler Ballistic Tip

## Premium® Varmint Rifle

Speed and accuracy are the keys to great varmint cartridges. Premium Varmint Rifle choices are the fastest, flattest-shooting, fastest-expanding loads we make in calibers 223 to 25-06, with muzzle velocities ranging from 3240 to 4000 feet per second. Top performing bullets from Speer, Sierra and Nosler combined with Federal brass, primers and selected powders create superior varmint loads.

Available in 5 Calibers, 10 Individual Loads and 5 Bullet Styles:

- Nosler Ballistic Tip
- Sierra Blitz King
- Sierra MatchKing
- Speer TNT HP
- Sierra Varminter HP



# PREMIUM® RIFLE BULLET CHOICES



## Trophy Bonded Bear Claw®

This legendary Jack Carter design is ideal for medium to large dangerous game and is loaded exclusively by Federal. The jacket and core are 100% fusion-bonded to create the most reliable bullet expansion from 25 yards to extreme ranges. The bullet retains 95% of its weight assuring deep penetration. The bullet jacket features a hard solid, copper base tapering to a soft, copper nose section for controlled expansion.



### H I G H E N E R G Y Trophy Bonded Bear Claw Bullet

| FEDERAL LOAD NO. | CALIBER                  | GRAINS | VELOCITY | MUZZLE ENERGY |
|------------------|--------------------------|--------|----------|---------------|
| P270T3           | 270 Win.                 | 140    | 3100     | 2990          |
| P708T1           | 7mm-08 Rem.              | 140    | 2950     | 2705          |
| P280T2           | 280 Rem.                 | 140    | 3150     | 3085          |
| P308T2           | 308 Win. (7.62x51mm)     | 165    | 2870     | 3020          |
| P3006T3          | 30-06 Spring (7.62x63mm) | 180    | 2880     | 3315          |
| P3006T4          | 30-06 Spring (7.62x63mm) | 165    | 3000     | 3300          |
| P300WT3          | 300 Win. Mag.            | 180    | 3100     | 3840          |
| P300WBT3         | 300 Weatherby Magnum     | 180    | 3250     | 4220          |
| P338T2           | 338 Win. Mag.            | 225    | 2940     | 4320          |
| P375T3           | 375 H & H Magnum         | 300    | 2600     | 4500          |

### S A F A R I Trophy Bonded Bear Claw Bullet

| FEDERAL LOAD NO. | CALIBER               | GRAINS | VELOCITY | MUZZLE ENERGY |
|------------------|-----------------------|--------|----------|---------------|
| P300WT1          | 300 Win. Magnum       | 200    | 2800     | 3480          |
| P300WT2          | 300 Win. Magnum       | 180    | 2960     | 3500          |
| P300WBT1         | 300 Weatherby Magnum  | 180    | 3100     | 3840          |
| P300WBT2         | 300 Weatherby Magnum  | 200    | 2900     | 3735          |
| P300RUMT1        | 300 Rem. Ultra Magnum | 180    | 3250     | 4220          |
| P338T1           | 338 Win. Magnum       | 225    | 2800     | 3815          |
| P338RUMT1        | 338 Rem Ultra Magnum  | 250    | 2860     | 4540          |
| P340WBT1         | 340 Weatherby Magnum  | 225    | 2900     | 4200          |
| P375T1           | 375 H&H Magnum        | 300    | 2450     | 4000          |
| P375T4           | 375 H&H Magnum        | 250    | 2670     | 3955          |
| P458T1           | 458 Win. Magnum       | 400    | 2380     | 5030          |
| P458T2           | 458 Win. Magnum       | 500    | 2090     | 4850          |
| P416T1           | 416 Rigby             | 400    | 2370     | 4990          |
| P470T1           | 470 Nitro Express     | 500    | 2150     | 5130          |

### H U N T I N G Trophy Bonded Bear Claw Bullet

| FEDERAL LOAD NO. | CALIBER                  | GRAINS | VELOCITY | MUZZLE ENERGY |
|------------------|--------------------------|--------|----------|---------------|
| P223T2           | 223 Rem.                 | 55     | 3100     | 1175          |
| P22250T1         | 22-250 Rem.              | 55     | 3080     | 1585          |
| P220T1           | 220 Swift                | 55     | 3700     | 1670          |
| P2506T1          | 25-06 Rem.               | 115    | 2990     | 2285          |
| P6555T2          | 6.5X55 Swedish           | 140    | 2550     | 2020          |
| P260T1           | 260 Rem.                 | 140    | 2750     | 2350          |
| P270T1           | 270 Win.                 | 140    | 2940     | 2685          |
| P270T2           | 270 Win.                 | 130    | 3060     | 2705          |
| P270WBT1         | 270 Weatherby Magnum     | 140    | 3100     | 2990          |
| P280T1           | 280 Rem.                 | 140    | 2990     | 2770          |
| P280T3           | 280 Rem.                 | 160    | 2800     | 2785          |
| P7RT1            | 7mm Rem. Magnum          | 175    | 2860     | 3180          |
| P7RT2            | 7mm Rem. Magnum          | 160    | 2940     | 3070          |
| P7RT3            | 7mm Rem. Magnum          | 140    | 3150     | 3085          |
| P7WBT1           | 7mm Weatherby Magnum     | 160    | 3050     | 3305          |
| P7STWT1          | 7mm STW                  | 150    | 3250     | 3520          |
| P308T1           | 308 Win. (7.62x51mm)     | 165    | 2700     | 2670          |
| P3006T1          | 30-06 Spring (7.62x63mm) | 165    | 2800     | 2870          |
| P3006T2          | 30-06 Spring (7.62x63mm) | 180    | 2700     | 2915          |
| P300WT4          | 300 Win. Magnum          | 150    | 3280     | 3570          |
| P35WT1           | 35 Whelen                | 225    | 2600     | 3375          |



# PREMIUM® RIFLE BULLET CHOICES



## Sierra GameKing® Boat-Tail

Long ranges are its specialty. Depending on the caliber, it's an excellent choice for varmints to big game animals. The GameKing's tapered, boat-tail design provides extremely flat trajectories. The design also gives it a higher downrange velocity, so there's more energy at the point of impact. Reduced wind drift makes it a good choice for long-range shots.



### H I G H E N E R G Y Sierra GameKing Boat-Tail Bullet

| FEDERAL<br>LOAD<br>NO. | CALIBER                  | GRAINS | VELOCITY | MUZZLE<br>ENERGY |
|------------------------|--------------------------|--------|----------|------------------|
| P270C                  | 270 Win.                 | 150    | 3000     | 2995             |
| P300GY                 | 30-06 Spring (7.62x63mm) | 165    | 3000     | 3300             |

### H U N T I N G Sierra GameKing Boat-Tail Bullet

| FEDERAL<br>LOAD<br>NO. | CALIBER                  | GRAINS | VELOCITY | MUZZLE<br>ENERGY |
|------------------------|--------------------------|--------|----------|------------------|
| P223E                  | 223 Rem. (5.56x45mm)     | 55     | 3240     | 1280             |
| P22250B                | 22-250 Rem.              | 55     | 3680     | 1655             |
| P243C                  | 243 Win. (6.16x51mm)     | 100    | 2960     | 1950             |
| P243D                  | 243 Win. (6.16x51mm)     | 85     | 3320     | 2080             |
| P2506C                 | 25-06 Rem.               | 117    | 2990     | 2320             |
| P260A                  | 260 Rem.                 | 140    | 2750     | 2350             |
| P270C                  | 270 Win.                 | 150    | 2950     | 2705             |
| P270D                  | 270 Win.                 | 130    | 3060     | 2700             |
| P270WBB                | 270 Weatherby Magnum     | 130    | 3200     | 2955             |
| P730A                  | 7-30 Waters              | 120    | 2700     | 1940             |
| P7RD                   | 7mm Rem. Magnum          | 150    | 3110     | 3220             |
| P7RE                   | 7mm Rem. Magnum          | 165    | 2950     | 3190             |
| P7WBB                  | 7mm Weatherby Magnum     | 160    | 3050     | 3305             |
| P7STWA                 | 7mm STW                  | 160    | 3200     | 3640             |
| P7STWB                 | 7mm STW                  | 140    | 3300     | 3435             |
| P308C                  | 308 Win. (7.62x51mm)     | 165    | 2700     | 2670             |
| P3006D                 | 30-06 Spring (7.62x63mm) | 165    | 2800     | 2870             |
| P3006G                 | 30-06 Spring (7.62x63mm) | 150    | 2910     | 2820             |
| P3006L                 | 30-06 Spring (7.62x63mm) | 180    | 2700     | 2815             |
| P300WC                 | 300 Win. Magnum          | 200    | 2830     | 3560             |
| P300WBC                | 300 Weatherby Magnum     | 180    | 3190     | 4065             |



## Barnes® XLC™ Coated X-Bullet™

Recommended for medium to large game. It's a solid copper bullet that provides reliable four-petal expansion and 100% weight retention for deep penetration. The outer heat-cured, dry film coating prevents copper-fouling in your barrel, reduces bore friction and won't rub off on your hands.



### H U N T I N G Barnes XLC Coated X-Bullet

| FEDERAL<br>LOAD<br>NO. | CALIBER                  | GRAINS | VELOCITY | MUZZLE<br>ENERGY |
|------------------------|--------------------------|--------|----------|------------------|
| P2506F                 | 25-06 Rem.               | 100    | 3210     | 2290             |
| P270H                  | 270 Win.                 | 130    | 3060     | 2705             |
| P7RK                   | 7mm Rem. Magnum          | 160    | 2940     | 3070             |
| P308R                  | 308 Win. (7.62x51mm)     | 150    | 2820     | 2650             |
| P3006Z                 | 30-06 Spring (7.62x63mm) | 180    | 2700     | 2815             |
| P300WJ                 | 300 Win. Magnum          | 180    | 2980     | 3500             |
| P338H                  | 338 Win. Magnum          | 225    | 2800     | 3915             |

# PREMIUM® RIFLE BULLET CHOICES



## Trophy Bonded Sledgehammer®

Use it on the largest, most dangerous game in the world. It's a bonded bronze solid with a flat nose that minimizes deflection off bone and muscle, for a deep, straight wound channel. This Jack Carter design maximizes stopping power and your confidence.



| S A F A R I<br>Trophy Bonded Sledgehammer Bullet |                   |        |          |        |        |
|--------------------------------------------------|-------------------|--------|----------|--------|--------|
| FEDERAL<br>LOAD<br>NO.                           | CALIBER           | GRAINS | VELOCITY | MUZZLE | ENERGY |
| P375T2                                           | 375 H&H Magnum    | 300    | 2530     |        | 4265   |
| P458T3                                           | 458 Win. Magnum   | 500    | 2090     |        | 4850   |
| P416T2                                           | 416 Rigby         | 400    | 2370     |        | 4990   |
| P416RT2                                          | 416 Rem. Magnum   | 400    | 2400     |        | 5115   |
| P470T2                                           | 470 Nitro Express | 500    | 2150     |        | 5130   |



## Woodleigh® Weldcore

Safari hunters have long respected this bonded Australian bullet for its superb accuracy and excellent stopping power. Its special heavy jacket provides 80-85% weight retention. These calibers are favored for large or dangerous game.



| S A F A R I<br>Woodleigh Weldcore Bullet |                   |        |          |        |        |
|------------------------------------------|-------------------|--------|----------|--------|--------|
| FEDERAL<br>LOAD<br>NO.                   | CALIBER           | GRAINS | VELOCITY | MUZZLE | ENERGY |
| P470A                                    | 470 Nitro Express | 500    | 2150     |        | 5130   |
| P470B                                    | 470 Nitro Express | 500    | 2150     |        | 5130   |
| P416A                                    | 416 Rigby         | 410    | 2370     |        | 5115   |





# PREMIUM® RIFLE BULLET CHOICES



## Nosler® Partition®

The Nosler design is a proven choice for medium to large game animals. Its partitioned copper jacket allows the front half of the bullet to mushroom, while the rear core remains intact, driving forward for deep penetration and stopping power.



### H I G H E N E R G Y Nosler Partition Bullet

| FEDERAL LOAD NO. | CALIBER                  | GRAINS | VELOCITY | MUZZLE ENERGY |
|------------------|--------------------------|--------|----------|---------------|
| P308G            | 308 Win. (7.62x51mm)     | 180    | 2740     | 3000          |
| P300GR           | 30-06 Spring (7.62x63mm) | 180    | 2880     | 3135          |
| P300WE           | 300 Win. Mag.            | 200    | 2930     | 3810          |
| P338D            | 338 Win. Mag.            | 250    | 2800     | 4350          |

### S A F A R I Nosler Partition Bullet

| FEDERAL LOAD NO. | CALIBER              | GRAINS | VELOCITY | MUZZLE ENERGY |
|------------------|----------------------|--------|----------|---------------|
| P300HA           | 300 H&N Magnum       | 180    | 2880     | 3315          |
| P300WD2          | 300 Win. Magnum      | 180    | 2960     | 3500          |
| P300WBA          | 300 Weatherby Magnum | 180    | 3180     | 4055          |
| P338A2           | 338 Win. Magnum      | 210    | 2830     | 3735          |
| P338B2           | 338 Win. Magnum      | 250    | 2660     | 3825          |
| P375F            | 375 H&N Magnum       | 300    | 2530     | 4265          |

### H U N T I N G Nosler Partition Bullet

| FEDERAL LOAD NO. | CALIBER                       | GRAINS | VELOCITY | MUZZLE ENERGY |
|------------------|-------------------------------|--------|----------|---------------|
| P243E            | 243 Win. (6.16x51mm)          | 100    | 2960     | 1945          |
| P6C              | 6mm Rem.                      | 100    | 3100     | 2135          |
| P257B            | 257 Roberts (High-Velocity+P) | 120    | 2780     | 2060          |
| P250E            | 25-06 Rem.                    | 115    | 2890     | 2285          |
| P257WBA          | 257 Weatherby Magnum          | 115    | 3150     | 2535          |
| P270E            | 270 Win.                      | 150    | 2850     | 2705          |
| P270WBA          | 270 Weatherby Magnum          | 130    | 3200     | 2955          |
| P7C              | 7mm Mauser (7x57mm Mauser)    | 140    | 2660     | 2200          |
| P708A            | 7mm-08 Rem.                   | 140    | 2800     | 2435          |
| P764A            | 7x64 Brenneke                 | 160    | 2650     | 2495          |
| P280A            | 280 Rem.                      | 150    | 2890     | 2780          |
| P7RF             | 7mm Rem. Magnum               | 160    | 2950     | 3090          |
| P7RC             | 7mm Rem. Magnum               | 140    | 3150     | 3085          |
| P7WBA            | 7mm Weatherby Magnum          | 160    | 3050     | 3305          |
| P303DD           | 30-30 Win.                    | 170    | 2200     | 1830          |
| P308E            | 308 Win. (7.62x51mm)          | 180    | 2620     | 2745          |
| P300GF           | 30-06 Spring (7.62x63mm)      | 180    | 2700     | 2815          |



## Nosler Ballistic Tip®

Especially designed for long-range shots at varmints, predators and small to medium game. Proven fast, flat-shooting wind-defying performance. Color-coded polycarbonate tip provides easy identification, prevents deformation in the magazine and drives back on impact for explosive expansion and immediate energy transfer.



### H U N T I N G Nosler Ballistic Tip Bullet

| FEDERAL LOAD NO. | CALIBER                  | GRAINS | VELOCITY | MUZZLE ENERGY |
|------------------|--------------------------|--------|----------|---------------|
| P243F            | 243 Win. (6.16x51mm)     | 70     | 3400     | 1795          |
| P250GD           | 25-06 Rem.               | 100    | 3210     | 2290          |
| P270F            | 270 Win.                 | 130    | 3060     | 2700          |
| P708B            | 7mm-08 Rem.              | 140    | 2800     | 2440          |
| P7RH             | 7mm Rem. Magnum          | 150    | 3110     | 3220          |
| P308F            | 308 Win. (7.62x51mm)     | 150    | 2820     | 2650          |
| P300GP           | 30-06 Spring (7.62x63mm) | 150    | 2910     | 2870          |
| P300GQ           | 30-06 Spring (7.62x63mm) | 165    | 2800     | 2870          |

# PREMIUM CENTERFIRE RIFLE BALLISTICS

| PREMIUM® RIFLE BALLISTICS |                        |                                 |                                |       |                            |                          |        |                                                    |          |          |          |          |                                                     |          |          |          |          |          |
|---------------------------|------------------------|---------------------------------|--------------------------------|-------|----------------------------|--------------------------|--------|----------------------------------------------------|----------|----------|----------|----------|-----------------------------------------------------|----------|----------|----------|----------|----------|
| USAGE                     | FEDERAL<br>LOAD<br>NO. | CALIBER                         | BULLET WGT. IN<br>GRAINS GRAMS |       | BULLET STYLE*              | FACTORY<br>PRIMER<br>NO. | MUZZLE | VELOCITY IN FEET PER SECOND<br>(TO NEAREST 10 FPS) |          |          |          |          | ENERGY IN FOOT-POUNDS<br>(TO NEAREST 5 FOOT-POUNDS) |          |          |          |          |          |
|                           |                        |                                 |                                |       |                            |                          |        | 100 YDS.                                           | 200 YDS. | 300 YDS. | 400 YDS. | 500 YDS. | MUZZLE                                              | 100 YDS. | 200 YDS. | 300 YDS. | 400 YDS. | 500 YDS. |
| 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      |
| 2                         | P223T2                 | 223 Rem.                        | 55                             | 3.56  | Trophy Bonded Bear Claw**  | 205                      | 3100   | 2630                                               | 2210     | 1830     | 1500     | 1240     | 1175                                                | 845      | 595      | 410      | 275      | 185      |
| 1                         | P223F                  | 223 Rem. (5.56x45mm)            | 55                             | 3.56  | Nosler Ballistic Tip       | 205                      | 3240   | 2870                                               | 2530     | 2220     | 1920     | 1660     | 1280                                                | 1005     | 780      | 600      | 450      | 335      |
| 1                         | P223J                  | 223 Rem.                        | 55                             | 3.56  | Sierra BlitzKing           | 205                      | 3240   | 2870                                               | 2520     | 2200     | 1910     | 1640     | 1280                                                | 1005     | 775      | 580      | 445      | 330      |
| 1                         | P223K                  | 223 Rem.                        | 52                             | 3.37  | Sierra MatchKing BTHP      | 205                      | 3300   | 2860                                               | 2460     | 2090     | 1760     | 1470     | 1255                                                | 945      | 700      | 505      | 360      | 250      |
| 1                         | P223V1                 | 223 Rem.                        | 50                             | 3.24  | Speer TNT HP               | 205                      | 3300   | 2860                                               | 2450     | 2080     | 1750     | 1460     | 1210                                                | 905      | 670      | 480      | 340      | 235      |
| 1                         | P22250B                | 22-250 Rem.                     | 55                             | 3.56  | Sierra GameKing BTHP       | 210                      | 3680   | 3280                                               | 2920     | 2590     | 2280     | 1990     | 1655                                                | 1315     | 1040     | 815      | 630      | 480      |
| 2                         | P22250T1               | 22-250 Rem.                     | 55                             | 3.56  | Trophy Bonded Bear Claw**  | 210                      | 3600   | 3080                                               | 2610     | 2190     | 1810     | 1490     | 1585                                                | 1155     | 835      | 580      | 400      | 270      |
| 1                         | P22250C                | 22-250 Rem.                     | 55                             | 3.56  | Sierra BlitzKing           | 210                      | 3680   | 3270                                               | 2890     | 2540     | 2220     | 1920     | 1655                                                | 1300     | 1020     | 790      | 605      | 450      |
| 1                         | P22250V                | 22-250 Rem.                     | 40                             | 2.59  | Sierra Varminter HP        | 210                      | 4000   | 3320                                               | 2720     | 2200     | 1740     | 1360     | 1420                                                | 980      | 660      | 430      | 285      | 165      |
| 2                         | P220T1                 | 220 Swift                       | 55                             | 3.56  | Trophy Bonded Bear Claw**  | 210                      | 3700   | 3170                                               | 2690     | 2270     | 1880     | 1540     | 1670                                                | 1225     | 895      | 625      | 430      | 290      |
| 1                         | P220A                  | 220 Swift                       | 50                             | 3.24  | Sierra BlitzKing           | 210                      | 3830   | 3380                                               | 2970     | 2600     | 2250     | 1930     | 1630                                                | 1285     | 980      | 750      | 565      | 415      |
| 1                         | P220V                  | 220 Swift                       | 52                             | 3.37  | Sierra MatchKing BTHP      | 210                      | 3830   | 3370                                               | 2960     | 2600     | 2230     | 1910     | 1690                                                | 1310     | 1010     | 770      | 575      | 420      |
| 2                         | P243C                  | 243 Win. (6.16x51mm)            | 100                            | 6.48  | Sierra GameKing BTSP       | 210                      | 2960   | 2760                                               | 2570     | 2380     | 2210     | 2040     | 1950                                                | 1690     | 1460     | 1260     | 1080     | 925      |
| 1                         | P243D                  | 243 Win. (6.16x51mm)            | 85                             | 5.50  | Sierra GameKing BTHP       | 210                      | 3320   | 3070                                               | 2830     | 2600     | 2380     | 2180     | 2080                                                | 1770     | 1510     | 1280     | 1070     | 890      |
| 2                         | P243E                  | 243 Win. (6.16x51mm)            | 100                            | 6.48  | Nosler Partition**         | 210                      | 2960   | 2730                                               | 2510     | 2300     | 2100     | 1910     | 1945                                                | 1650     | 1395     | 1170     | 975      | 805      |
| 1                         | P243F                  | 243 Win. (6.16x51mm)            | 70                             | 4.54  | Nosler Ballistic Tip       | 210                      | 3400   | 3070                                               | 2780     | 2470     | 2200     | 1950     | 1795                                                | 1485     | 1185     | 950      | 755      | 590      |
| 1                         | P243V1                 | 243 Win. (6.16x51mm)            | 70                             | 4.54  | Speer TNT HP               | 210                      | 3400   | 3040                                               | 2700     | 2390     | 2100     | 1830     | 1795                                                | 1435     | 1135     | 890      | 685      | 520      |
| 1                         | P2506V                 | 25-06 Rem.                      | 90                             | 5.83  | Sierra Varminter HP        | 210                      | 3440   | 3040                                               | 2680     | 2340     | 2030     | 1750     | 2365                                                | 1850     | 1435     | 1100     | 825      | 610      |
| 2                         | P6C                    | 6mm Rem.                        | 100                            | 6.48  | Nosler Partition           | 210                      | 3100   | 2860                                               | 2640     | 2420     | 2220     | 2020     | 2135                                                | 1820     | 1545     | 1300     | 1090     | 910      |
| 2                         | P257B                  | 257 Roberts (High-Velocity + P) | 120                            | 7.77  | Nosler Partition           | 210                      | 2780   | 2560                                               | 2360     | 2160     | 1970     | 1790     | 2060                                                | 1750     | 1480     | 1240     | 1030     | 855      |
| 2                         | P2506C                 | 25-06 Rem.                      | 117                            | 7.58  | Sierra GameKing BTSP       | 210                      | 2990   | 2770                                               | 2570     | 2370     | 2180     | 2000     | 2320                                                | 2000     | 1715     | 1465     | 1240     | 1045     |
| 2                         | P2506D                 | 25-06 Rem.                      | 100                            | 6.48  | Nosler Ballistic Tip       | 210                      | 3210   | 2960                                               | 2720     | 2490     | 2280     | 2070     | 2290                                                | 1940     | 1640     | 1380     | 1150     | 955      |
| 2                         | P2506E                 | 25-06 Rem.                      | 115                            | 7.45  | Nosler Partition           | 210                      | 2990   | 2750                                               | 2520     | 2300     | 2100     | 1900     | 2285                                                | 1930     | 1620     | 1350     | 1120     | 915      |
| 2                         | P2506F                 | 25-06 Rem.                      | 100                            | 6.48  | Barnes XLC Coated X-Bullet | 210                      | 3210   | 2970                                               | 2750     | 2540     | 2330     | 2140     | 2290                                                | 1965     | 1680     | 1430     | 1205     | 1015     |
| 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      |
| 2                         | P655T2                 | 6.5x55 Swedish                  | 140                            | 9.07  | Trophy Bonded Bear Claw**  | 210                      | 2550   | 2350                                               | 2160     | 1980     | 1810     | 1650     | 2020                                                | 1720     | 1450     | 1220     | 1015     | 845      |
| 2                         | P260A                  | 260 Rem.                        | 140                            | 9.07  | Sierra GameKing BTSP       | 210                      | 2750   | 2570                                               | 2390     | 2220     | 2060     | 1900     | 2350                                                | 2045     | 1775     | 1535     | 1315     | 1125     |
| 2                         | P260T1                 | 260 Rem.                        | 140                            | 9.07  | Trophy Bonded Bear Claw    | 210                      | 2750   | 2540                                               | 2340     | 2150     | 1970     | 1800     | 2350                                                | 2010     | 1705     | 1440     | 1210     | 1010     |
| 2                         | P270T3                 | 270 Win.                        | 140                            | 9.07  | Trophy Bonded Bear Claw    | 210                      | 3100   | 2860                                               | 2620     | 2400     | 2200     | 2000     | 2990                                                | 2535     | 2140     | 1795     | 1500     | 1240     |
| 2                         | P270G                  | 270 Win.                        | 150                            | 9.72  | Sierra GameKing BTSP       | 210                      | 3000   | 2800                                               | 2620     | 2430     | 2260     | 2090     | 2985                                                | 2615     | 2275     | 1975     | 1700     | 1460     |
| 2                         | P270C                  | 270 Win.                        | 150                            | 9.72  | Sierra GameKing BTSP       | 210                      | 2850   | 2660                                               | 2480     | 2300     | 2130     | 1970     | 2705                                                | 2355     | 2040     | 1760     | 1510     | 1290     |
| 2                         | P270D                  | 270 Win.                        | 130                            | 8.42  | Sierra GameKing BTSP       | 210                      | 3060   | 2830                                               | 2620     | 2410     | 2220     | 2030     | 2700                                                | 2320     | 1980     | 1680     | 1420     | 1190     |
| 2                         | P270E                  | 270 Win.                        | 150                            | 9.72  | Nosler Partition           | 210                      | 2850   | 2590                                               | 2340     | 2100     | 1880     | 1670     | 2705                                                | 2225     | 1815     | 1470     | 1175     | 930      |
| 2                         | P270F                  | 270 Win.                        | 130                            | 8.42  | Nosler Ballistic Tip       | 210                      | 3060   | 2840                                               | 2630     | 2430     | 2230     | 2050     | 2700                                                | 2325     | 1990     | 1700     | 1440     | 1210     |
| 2                         | P270H                  | 270 Win.                        | 130                            | 8.42  | Barnes XLC Coated X-Bullet | 210                      | 3060   | 2840                                               | 2620     | 2420     | 2220     | 2040     | 2705                                                | 2320     | 1985     | 1690     | 1425     | 1200     |
| 2                         | P270T1                 | 270 Win.                        | 140                            | 9.07  | Trophy Bonded Bear Claw    | 210                      | 2940   | 2700                                               | 2480     | 2260     | 2060     | 1860     | 2685                                                | 2270     | 1905     | 1590     | 1315     | 1080     |
| 2                         | P270T2                 | 270 Win.                        | 130                            | 8.42  | Trophy Bonded Bear Claw    | 210                      | 3060   | 2810                                               | 2570     | 2340     | 2130     | 1930     | 2705                                                | 2275     | 1905     | 1585     | 1310     | 1070     |
| 2                         | P270WBA                | 270 Weatherby Magnum            | 130                            | 8.42  | Nosler Partition           | 210                      | 3200   | 2960                                               | 2740     | 2520     | 2320     | 2120     | 2955                                                | 2530     | 2160     | 1835     | 1550     | 1300     |
| 2                         | P270WBB                | 270 Weatherby Magnum            | 130                            | 8.42  | Sierra GameKing BTSP       | 210                      | 3200   | 2980                                               | 2780     | 2580     | 2400     | 2210     | 2955                                                | 2570     | 2230     | 1925     | 1655     | 1415     |
| 2                         | P270WBT1               | 270 Weatherby Magnum            | 140                            | 9.07  | Trophy Bonded Bear Claw    | 210                      | 3100   | 2840                                               | 2600     | 2370     | 2150     | 1950     | 2990                                                | 2510     | 2100     | 1745     | 1440     | 1175     |
| 2                         | P730A                  | 7-30 Waters                     | 120                            | 7.77  | Sierra GameKing BTSP       | 210                      | 2700   | 2300                                               | 1930     | 1600     | 1330     | 1140     | 1940                                                | 1405     | 990      | 685      | 470      | 345      |
| 2                         | P7C                    | 7mm Mauser (7x57mm Mauser)      | 140                            | 9.07  | Nosler Partition           | 210                      | 2660   | 2450                                               | 2260     | 2070     | 1890     | 1730     | 2200                                                | 1865     | 1585     | 1330     | 1110     | 930      |
| 2                         | P708T1                 | 7mm-08 Rem.                     | 140                            | 9.07  | Trophy Bonded Bear Claw    | 210                      | 2950   | 2660                                               | 2390     | 2140     | 1900     | 1680     | 2705                                                | 2205     | 1780     | 1420     | 1120     | 875      |
| 2                         | P708A                  | 7mm-08 Rem.                     | 140                            | 9.07  | Nosler Partition           | 210                      | 2800   | 2590                                               | 2390     | 2200     | 2020     | 1840     | 2435                                                | 2085     | 1775     | 1500     | 1285     | 1060     |
| 2                         | P708B                  | 7mm-08 Rem.                     | 140                            | 9.07  | Nosler Ballistic Tip       | 210                      | 2800   | 2610                                               | 2430     | 2260     | 2100     | 1940     | 2440                                                | 2135     | 1840     | 1580     | 1360     | 1165     |
| 2                         | P764A                  | 7x64 Brenneke                   | 160                            | 10.37 | Nosler Partition           | 210                      | 2650   | 2480                                               | 2310     | 2150     | 2000     | 1850     | 2485                                                | 2180     | 1895     | 1640     | 1415     | 1215     |
| 2                         | P280A                  | 280 Rem.                        | 150                            | 9.72  | Nosler Partition           | 210                      | 2890   | 2690                                               | 2490     | 2310     | 2130     | 1960     | 2780                                                | 2405     | 2070     | 1770     | 1510     | 1275     |
| 2                         | P280T1                 | 280 Rem.                        | 140                            | 9.07  | Trophy Bonded Bear Claw    | 210                      | 2990   | 2630                                               | 2310     | 2040     | 1730     | 1480     | 2770                                                | 2155     | 1655     | 1250     | 925      | 680      |
| 2                         | P280T2                 | 280 Rem.                        | 140                            | 9.07  | Trophy Bonded Bear Claw    | 210                      | 3150   | 2850                                               | 2570     | 2300     | 2050     | 1820     | 3085                                                | 2520     | 2050     | 1650     | 1310     | 1030     |
| 2                         | P280T3                 | 280 Rem. (7mm Exp Rem)          | 160                            | 10.37 | Trophy Bonded Bear Claw    | 210                      | 2800   | 2580                                               | 2370     | 2170     | 1980     | 1810     | 2785                                                | 2365     | 2000     | 1675     | 1395     | 1160     |
| 2                         | P7R0                   | 7mm Rem. Magnum                 | 150                            | 9.72  | Sierra GameKing BTSP       | 215                      | 3110   | 2920                                               | 2750     | 2580     | 2410     | 2250     | 3220                                                | 2850     | 2510     | 2210     | 1930     | 1690     |
| 3                         | P7RE                   | 7mm Rem. Magnum                 | 165                            | 10.69 | Sierra GameKing BTSP       | 215                      | 2950   | 2800                                               | 2650     | 2510     | 2370     | 2230     | 3190                                                | 2865     | 2570     | 2300     | 2050     | 1825     |
| 3                         | P7RF                   | 7mm Rem. Magnum                 | 160                            | 10.37 | Nosler Partition           | 215                      | 2950   | 2770                                               | 2580     | 2420     | 2250     | 2090     | 3090                                                | 2715     | 2375     | 2075     | 1800     | 1555     |
| 2                         | P7RG                   | 7mm Rem. Magnum                 | 140                            | 9.07  | Nosler Partition           | 215                      | 3150   | 2930                                               | 2710     | 2510     | 2320     | 2130     | 3085                                                | 2680     | 2290     | 1960     | 1670     | 1415     |
| NEW                       | P7RH                   | 7mm Rem. Magnum                 | 150                            | 9.72  | Nosler Ballistic Tip       | 215                      | 3110   | 2910                                               | 2720     | 2540     | 2370     | 2200     | 3220                                                | 2825     | 2470     | 2150     | 1865     | 1610     |
| 3                         | P7RK                   | 7mm Rem. Magnum                 | 160                            | 10.37 | Barnes XLC Coated X-Bullet | 215                      | 2940   | 2760                                               | 2580     | 2410     | 2240     | 2090     | 3070                                                | 2695     | 2360     | 2060     | 1785     | 1545     |
| 3                         | P7RT1                  | 7mm Rem. Magnum                 | 175                            | 11.34 | Trophy Bonded Bear Claw    | 215                      | 2860   | 2600                                               | 2350     | 2120     | 1900     | 1700     | 3180                                                | 2625     | 2150     | 1745     | 1400     | 1120     |
| 3                         | P7RT2                  | 7mm Rem. Magnum                 | 160                            | 10.37 | Trophy Bonded Bear Claw    | 215                      | 2940   | 2710                                               | 2500     | 2290     | 2100     | 1900     | 3070                                                | 2615     | 2215     | 1870     | 1565     | 1300     |
| 3                         | P7RT3                  | 7mm Rem. Magnum                 | 140                            | 9.07  | Trophy Bonded Bear Claw    | 215                      | 3150   |                                                    |          |          |          |          |                                                     |          |          |          |          |          |

+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 SP = Soft Point \*\*Moly-Coat = New, Molybdenum disulfide dry film lubricant  
Usage Key: 1 = Varmints, predators, small game 2 = Medium game 3 = Large, heavy game 4 = Dangerous game 5 = target shooting, training, practice 6 = Self defense

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| WIND DRIFT IN INCHES<br>10 MPH CROSSWIND |          |          |          |          | HEIGHT OF BULLET TRAJECTORY IN INCHES ABOVE OR BELOW LINE OF SIGHT IF ZEROED AT 0 YARDS, SIGHTS 1.5 INCHES ABOVE BORE LINE<br>AVERAGE RANGE |          |          |          |         |          |          |          |          |          | TEST BARREL<br>LENGTH<br>INCHES | FEDERAL<br>LOAD<br>NO. |
|------------------------------------------|----------|----------|----------|----------|---------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|---------|----------|----------|----------|----------|----------|---------------------------------|------------------------|
| 100 YDS.                                 | 200 YDS. | 300 YDS. | 400 YDS. | 500 YDS. | 50 YDS.                                                                                                                                     | 100 YDS. | 200 YDS. | 300 YDS. | 50 YDS. | 100 YDS. | 200 YDS. | 300 YDS. | 400 YDS. | 500 YDS. |                                 |                        |
| 1.3                                      | 5.8      | 14.2     | 27.7     | 47.6     | -0.3                                                                                                                                        | ⊕        | -2.7     | -10.8    | +0.4    | +1.5     | ⊕        | -8.0     | -25.3    | -56.6    | 24                              | P223E                  |
| 1.5                                      | 6.3      | 15.5     | 30.4     | 52.3     | -0.2                                                                                                                                        | ⊕        | -3.6     | -14.3    | +0.7    | +1.8     | ⊕        | -8.9     | -28.7    | -64.5    | 24                              | P223T2                 |
| 1.0                                      | 4.3      | 10.3     | 19.6     | 32.9     | -0.3                                                                                                                                        | ⊕        | -2.7     | -10.9    | +0.4    | +1.4     | ⊕        | -8.8     | -20.8    | -44.2    | 24                              | P223F                  |
| 1.0                                      | 4.4      | 10.5     | 19.9     | 33.7     | -0.3                                                                                                                                        | ⊕        | -2.8     | -11.0    | +0.4    | +1.4     | ⊕        | -8.9     | -20.9    | -45.0    | 24                              | P223J                  |
| 1.2                                      | 5.1      | 12.4     | 23.9     | 40.7     | -0.3                                                                                                                                        | ⊕        | -2.8     | -11.4    | +0.4    | +1.4     | ⊕        | -7.2     | -22.4    | -49.2    | 24                              | P223K                  |
| 1.2                                      | 5.2      | 12.5     | 24.2     | 41.2     | -0.3                                                                                                                                        | ⊕        | -2.8     | -11.4    | +0.4    | +1.4     | ⊕        | -7.3     | -22.6    | -49.7    | 24                              | P223V1                 |
| 0.8                                      | 3.6      | 8.4      | 15.8     | 26.3     | -0.4                                                                                                                                        | ⊕        | -1.7     | -7.6     | 0.0     | +0.9     | ⊕        | -5.0     | -15.1    | -32.0    | 24                              | P22250B                |
| 1.2                                      | 5.2      | 12.5     | 24.3     | 41.9     | -0.4                                                                                                                                        | ⊕        | -2.2     | -9.5     | +0.2    | +1.1     | ⊕        | -6.2     | -19.8    | -44.5    | 24                              | P22250T1               |
| 0.9                                      | 3.7      | 8.9      | 16.8     | 27.9     | -0.4                                                                                                                                        | ⊕        | -1.8     | -7.7     | +0.1    | +0.9     | ⊕        | -5.1     | -15.6    | -33.1    | 24                              | P22250C                |
| 1.3                                      | 5.7      | 14.0     | 27.9     | 49.2     | -0.4                                                                                                                                        | ⊕        | -1.7     | -8.1     | 0.0     | +0.8     | ⊕        | -5.6     | -18.4    | -42.8    | 24                              | P22250V                |
| 1.2                                      | 5.0      | 12.1     | 23.4     | 40.3     | -0.4                                                                                                                                        | ⊕        | -2.0     | -8.8     | +0.1    | +1.0     | ⊕        | -5.8     | -18.5    | -41.6    | 24                              | P220T1                 |
| 0.9                                      | 3.8      | 9.0      | 17.1     | 28.5     | -0.4                                                                                                                                        | ⊕        | -1.6     | -7.1     | 0.0     | +0.8     | ⊕        | -4.8     | -14.7    | -31.5    | 24                              | P220A                  |
| 0.9                                      | 3.9      | 9.2      | 17.4     | 29.1     | -0.4                                                                                                                                        | ⊕        | -1.6     | -7.2     | 0.0     | +0.8     | ⊕        | -4.8     | -14.9    | -31.9    | 24                              | P220V                  |
| 0.6                                      | 2.6      | 6.1      | 11.3     | 18.4     | -0.2                                                                                                                                        | ⊕        | -3.1     | -11.4    | +0.6    | +1.5     | ⊕        | -6.8     | -19.8    | -39.9    | 24                              | P243C                  |
| 0.7                                      | 2.7      | 6.3      | 11.6     | 18.8     | -0.3                                                                                                                                        | ⊕        | -2.2     | -8.8     | +0.2    | +1.1     | ⊕        | -5.5     | -16.1    | -32.8    | 24                              | P243D                  |
| 0.7                                      | 3.1      | 7.3      | 13.5     | 22.1     | -0.2                                                                                                                                        | ⊕        | -3.2     | -11.9    | +0.6    | +1.6     | ⊕        | -7.1     | -20.9    | -42.5    | 24                              | P243E                  |
| 0.8                                      | 3.3      | 7.7      | 14.5     | 23.6     | -0.3                                                                                                                                        | ⊕        | -2.9     | -10.9    | +0.5    | +1.4     | ⊕        | -6.6     | -19.7    | -40.4    | 24                              | P243G                  |
| 0.9                                      | 3.8      | 9.0      | 17.1     | 28.4     | -0.3                                                                                                                                        | ⊕        | -2.3     | -9.3     | +0.2    | +1.1     | ⊕        | -5.9     | -18.0    | -37.9    | 24                              | P243V1                 |
| 1.0                                      | 4.1      | 9.8      | 18.7     | 31.3     | -0.3                                                                                                                                        | ⊕        | -2.3     | -9.4     | +0.2    | +1.1     | ⊕        | -6.0     | -18.3    | -39.2    | 24                              | P2506V                 |
| 0.7                                      | 2.9      | 6.7      | 12.5     | 20.4     | -0.3                                                                                                                                        | ⊕        | -2.8     | -10.5    | +0.4    | +1.4     | ⊕        | -6.3     | -18.7    | -38.1    | 24                              | P6C                    |
| 0.8                                      | 3.3      | 7.7      | 14.3     | 23.5     | -0.1                                                                                                                                        | ⊕        | -3.8     | -14.0    | +0.8    | +1.9     | ⊕        | -8.2     | -24.0    | -48.9    | 24                              | P257B                  |
| 0.7                                      | 2.8      | 6.5      | 12.0     | 19.6     | -0.2                                                                                                                                        | ⊕        | -3.0     | -11.4    | +0.5    | +1.5     | ⊕        | -6.8     | -19.9    | -40.4    | 24                              | P2506C                 |
| 0.7                                      | 2.9      | 6.7      | 12.4     | 20.2     | -0.3                                                                                                                                        | ⊕        | -2.5     | -9.7     | +0.3    | +1.2     | ⊕        | -6.0     | -17.5    | -35.8    | 24                              | P2506D                 |
| 0.8                                      | 3.2      | 7.4      | 13.9     | 22.6     | -0.2                                                                                                                                        | ⊕        | -3.1     | -11.7    | +0.6    | +1.6     | ⊕        | -7.0     | -20.8    | -42.2    | 24                              | P2506E                 |
| 0.6                                      | 2.7      | 6.2      | 11.4     | 18.7     | -0.3                                                                                                                                        | ⊕        | -2.4     | -9.4     | +0.3    | +1.2     | ⊕        | -5.8     | -17.0    | -34.8    | 24                              | P2506F                 |
| 0.8                                      | 3.4      | 7.9      | 14.8     | 21.4     | -0.2                                                                                                                                        | ⊕        | -3.2     | -11.9    | +0.6    | +1.6     | ⊕        | -7.2     | -21.1    | -43.2    | 24                              | P2506T1                |
| 0.8                                      | 3.6      | 8.4      | 15.5     | 25.6     | 0.0                                                                                                                                         | ⊕        | -4.9     | -17.1    | +1.2    | +2.4     | ⊕        | -9.8     | -28.4    | -58.2    | 24                              | P655T2                 |
| 0.7                                      | 2.7      | 6.5      | 12.1     | 19.3     | -0.1                                                                                                                                        | ⊕        | -3.7     | -13.7    | +0.8    | +1.9     | ⊕        | -8.0     | -23.1    | -46.1    | 24                              | P260A                  |
| 0.8                                      | 3.2      | 7.6      | 13.9     | 22.7     | -0.1                                                                                                                                        | ⊕        | -3.9     | -14.2    | +0.8    | +1.9     | ⊕        | -8.4     | -24.1    | -48.8    | 24                              | P260T1                 |
| 0.7                                      | 3.0      | 6.9      | 12.9     | 21.2     | -0.3                                                                                                                                        | ⊕        | -2.8     | -10.6    | +0.4    | +1.4     | ⊕        | -6.4     | -18.9    | -38.7    | 24                              | P270T3                 |
| 0.6                                      | 2.6      | 5.8      | 10.8     | 17.5     | -0.2                                                                                                                                        | ⊕        | -3.0     | -10.9    | +0.5    | +1.5     | ⊕        | -6.5     | -18.9    | -38.3    | 24                              | P270G                  |
| 0.7                                      | 2.7      | 6.3      | 11.6     | 18.9     | -0.2                                                                                                                                        | ⊕        | -3.4     | -12.5    | +0.7    | +1.7     | ⊕        | -7.4     | -21.4    | -43.0    | 24                              | P270C                  |
| 0.7                                      | 2.8      | 6.6      | 12.1     | 19.7     | -0.2                                                                                                                                        | ⊕        | -2.8     | -10.7    | +0.5    | +1.4     | ⊕        | -6.5     | -19.0    | -38.5    | 24                              | P270D                  |
| 0.9                                      | 3.9      | 9.2      | 17.3     | 28.5     | -0.2                                                                                                                                        | ⊕        | -3.7     | -13.8    | +0.8    | +1.9     | ⊕        | -8.3     | -24.4    | -50.5    | 24                              | P270E                  |
| 0.6                                      | 2.8      | 6.4      | 11.9     | 19.4     | -0.3                                                                                                                                        | ⊕        | -2.8     | -10.7    | +0.5    | +1.4     | ⊕        | -6.4     | -18.8    | -38.3    | 24                              | P270F                  |
| 0.7                                      | 2.8      | 6.4      | 11.8     | 19.0     | -0.2                                                                                                                                        | ⊕        | -3.4     | -12.4    | +0.7    | +1.7     | ⊕        | -7.4     | -21.5    | -43.1    | 24                              | P270H                  |
| 0.8                                      | 3.2      | 7.8      | 14.2     | 23.0     | -0.2                                                                                                                                        | ⊕        | -3.3     | -12.2    | +0.6    | +1.6     | ⊕        | -7.3     | -21.5    | -43.7    | 24                              | P270T1                 |
| 0.7                                      | 3.2      | 7.4      | 13.9     | 22.5     | -0.2                                                                                                                                        | ⊕        | -2.9     | -11.1    | +0.5    | +1.5     | ⊕        | -6.7     | -19.8    | -40.5    | 24                              | P270T2                 |
| 0.7                                      | 2.7      | 6.3      | 11.7     | 19.0     | -0.3                                                                                                                                        | ⊕        | -2.5     | -9.6     | +0.3    | +1.2     | ⊕        | -5.9     | -17.3    | -35.1    | 24                              | P270W6A                |
| 0.6                                      | 2.4      | 5.7      | 10.3     | 16.8     | -0.3                                                                                                                                        | ⊕        | -2.4     | -9.3     | +0.3    | +1.2     | ⊕        | -5.7     | -16.6    | -33.7    | 24                              | P270W6B                |
| 0.8                                      | 3.1      | 7.4      | 13.7     | 22.5     | -0.3                                                                                                                                        | ⊕        | -2.8     | -10.8    | +0.4    | +1.4     | ⊕        | -6.6     | -19.3    | -39.6    | 24                              | P270W6T1               |
| 1.6                                      | 7.2      | 17.7     | 34.5     | 58.1     | 0.0                                                                                                                                         | ⊕        | -5.2     | -19.8    | +1.2    | +2.6     | ⊕        | -12.0    | -37.6    | -81.7    | 24                              | P730A                  |
| 1.3                                      | 3.2      | 8.2      | 15.4     | 23.4     | -0.1                                                                                                                                        | ⊕        | -4.3     | -15.4    | +1.0    | +2.1     | ⊕        | -9.0     | -26.1    | -52.9    | 24                              | P7C                    |
| 1.0                                      | 3.9      | 9.5      | 17.6     | 29.5     | -0.2                                                                                                                                        | ⊕        | -3.4     | -13.0    | +0.7    | +1.7     | ⊕        | -7.9     | -23.2    | -48.6    | 24                              | P708T1                 |
| 0.8                                      | 3.1      | 7.3      | 13.5     | 21.8     | -0.2                                                                                                                                        | ⊕        | -3.7     | -13.5    | +0.8    | +1.8     | ⊕        | -8.0     | -23.1    | -48.6    | 24                              | P708A                  |
| 0.7                                      | 2.7      | 6.4      | 11.9     | 19.1     | -0.2                                                                                                                                        | ⊕        | -3.6     | -13.1    | +0.7    | +1.8     | ⊕        | -7.7     | -22.3    | -44.5    | 24                              | P708B                  |
| 0.7                                      | 2.8      | 6.6      | 12.3     | 19.5     | -0.1                                                                                                                                        | ⊕        | -4.2     | -14.9    | +0.9    | +2.1     | ⊕        | -8.7     | -24.9    | -49.4    | 24                              | P764A                  |
| 0.8                                      | 2.9      | 6.8      | 12.2     | 19.7     | -0.2                                                                                                                                        | ⊕        | -3.3     | -12.2    | +0.6    | +1.7     | ⊕        | -7.2     | -21.1    | -42.5    | 24                              | P280A                  |
| 1.2                                      | 4.9      | 11.8     | 22.5     | 37.8     | -0.2                                                                                                                                        | ⊕        | -3.5     | -13.7    | +0.7    | +1.6     | ⊕        | -8.4     | -25.4    | -54.3    | 24                              | P280T1                 |
| 0.8                                      | 3.6      | 8.6      | 16.1     | 26.5     | -0.3                                                                                                                                        | ⊕        | -2.8     | -10.9    | +0.4    | +1.4     | ⊕        | -6.7     | -20.0    | -41.4    | 24                              | P280T2                 |
| 0.9                                      | 3.3      | 7.7      | 14.3     | 22.9     | -0.1                                                                                                                                        | ⊕        | -3.7     | -13.7    | +0.8    | +1.9     | ⊕        | -8.1     | -23.5    | -46.9    | 24                              | P280T3                 |
| 0.5                                      | 2.2      | 5.1      | 9.3      | 15.0     | -0.3                                                                                                                                        | ⊕        | -2.6     | -9.8     | +0.4    | +1.3     | ⊕        | -5.9     | -17.0    | -34.2    | 24                              | P7RD                   |
| 0.5                                      | 2.0      | 4.6      | 8.4      | 13.5     | -0.2                                                                                                                                        | ⊕        | -3.0     | -10.9    | +0.5    | +1.5     | ⊕        | -6.4     | -18.4    | -36.6    | 24                              | P7RE                   |
| 0.6                                      | 2.5      | 5.6      | 10.4     | 16.9     | -0.2                                                                                                                                        | ⊕        | -3.1     | -11.3    | +0.6    | +1.5     | ⊕        | -6.7     | -19.4    | -39.0    | 24                              | P7RF                   |
| 0.6                                      | 2.6      | 6.0      | 11.1     | 18.2     | -0.3                                                                                                                                        | ⊕        | -2.6     | -9.9     | +0.4    | +1.3     | ⊕        | -6.0     | -17.5    | -35.6    | 24                              | P7RG                   |
| 0.5                                      | 2.3      | 5.4      | 9.9      | 16.2     | -0.3                                                                                                                                        | ⊕        | -2.6     | -9.9     | +0.4    | +1.3     | ⊕        | -6.0     | -17.4    | -35.0    | 24                              | P7RH                   |
| 0.6                                      | 2.4      | 5.7      | 10.4     | 16.9     | -0.2                                                                                                                                        | ⊕        | -3.1     | -11.4    | +0.6    | +1.5     | ⊕        | -6.8     | -19.6    | -39.3    | 24                              | P7RK                   |
| 1.0                                      | 3.8      | 9.1      | 16.7     | 27.9     | -0.2                                                                                                                                        | ⊕        | -3.6     | -13.6    | +0.7    | +1.8     | ⊕        | -8.2     | -24.0    | -49.8    | 24                              | P7RT1                  |
| 0.7                                      | 3.1      | 7.2      | 13.3     | 21.7     | -0.2                                                                                                                                        | ⊕        | -3.2     | -12.0    | +0.6    | +1.6     | ⊕        | -7.2     | -21.0    | -42.8    | 24                              | P7RT2                  |
| 0.7                                      | 2.9      | 6.8      | 12.3     | 20.1     | -0.3                                                                                                                                        | ⊕        | -2.6     | -10.1    | +0.4    | +1.3     | ⊕        | -6.1     | -18.1    | -36.9    | 24                              | P7RT3                  |
| 0.6                                      | 2.5      | 5.8      | 10.7     | 17.3     | -0.2                                                                                                                                        | ⊕        | -2.8     | -10.5    | +0.4    | +1.4     | ⊕        | -6.3     | -18.4    | -37.1    | 24                              | P7W6A                  |
| 0.5                                      | 2.1      | 4.8      | 8.8      | 14.2     | -0.3                                                                                                                                        | ⊕        | -2.7     | -10.2    | +0.4    | +1.4     | ⊕        | -6.1     | -17.4    | -34.9    | 24                              | P7W6B                  |
| 1.0                                      | 4.2      | 10.1     | 19.1     | 31.9     | -0.2                                                                                                                                        | ⊕        | -3.2     | -12.4    | +0.6    | +1.6     | ⊕        | -7.6     | -22.7    | -47.8    | 24                              | P7W6T1                 |
| 0.5                                      | 1.9      | 4.5      | 8.3      | 13.2     | -0.3                                                                                                                                        | ⊕        | -2.3     | -8.9     | +0.3    | +1.1     | ⊕        | -5.5     | -15.7    | -31.3    | 24                              | P75TWA                 |
| 0.7                                      | 2.6      | 6.0      | 11.0     | 18.0     | -0.2                                                                                                                                        | ⊕        | -2.2     | -8.6     | +0.2    | +1.1     | ⊕        | -5.4     | -15.8    | -32.2    | 24                              | P75TWB                 |
| 0.6                                      | 2.7      | 6.3      | 11.6     | 19.0     | -0.3                                                                                                                                        | ⊕        | -2.4     | -9.2     | +0.3    | +1.2     | ⊕        | -5.7     | -16.7    | -34.2    | 24                              | P75TWT1                |
| 0.9                                      | 8.0      | 19.4     | 36.7     | 59.8     | +0.3                                                                                                                                        | ⊕        | -8.3     | -29.8    | +2.4    | +4.1     | ⊕        | -17.4    | -52.4    | -109.4   | 24                              | P3030D                 |

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.



# PREMIUM CENTERFIRE RIFLE BALLISTICS

| PREMIUM® RIFLE BALLISTICS |                        |                          |                          |       |                            |                          |        |                                                    |          |          |          |          |                                                     |          |          |          |          |          |
|---------------------------|------------------------|--------------------------|--------------------------|-------|----------------------------|--------------------------|--------|----------------------------------------------------|----------|----------|----------|----------|-----------------------------------------------------|----------|----------|----------|----------|----------|
| USAGE                     | FEDERAL<br>LOAD<br>NO. | CALIBER                  | BULLET WGT. IN<br>GRAINS | GRAMS | BULLET STYLE*              | FACTORY<br>PRIMER<br>NO. | MUZZLE | VELOCITY IN FEET PER SECOND<br>(TO NEAREST 10 FPS) |          |          |          |          | ENERGY IN FOOT-POUNDS<br>(TO NEAREST 5 FOOT-POUNDS) |          |          |          |          |          |
|                           |                        |                          |                          |       |                            |                          |        | 100 YDS.                                           | 200 YDS. | 300 YDS. | 400 YDS. | 500 YDS. | MUZZLE                                              | 100 YDS. | 200 YDS. | 300 YDS. | 400 YDS. | 500 YDS. |
| 3                         | P308T2                 | 308 Win. (7.62x51mm)     | 165                      | 10.69 | Trophy Bonded Bear Claw    | 210                      | 2870   | 2600                                               | 2350     | 2120     | 1890     | 1690     | 3020                                                | 2485     | 2030     | 1640     | 1310     | 1040     |
| 3                         | P308G                  | 308 Win. (7.62x51mm)     | 180                      | 11.66 | Nosler Partition           | 210                      | 2740   | 2550                                               | 2370     | 2200     | 2030     | 1870     | 3000                                                | 2600     | 2245     | 1925     | 1645     | 1395     |
| 2                         | P308C                  | 308 Win. (7.62x51mm)     | 165                      | 10.69 | Sierra GameKing BTSP       | 210                      | 2700   | 2520                                               | 2330     | 2160     | 1990     | 1830     | 2670                                                | 2310     | 1990     | 1700     | 1450     | 1230     |
| 3                         | P308E                  | 308 Win. (7.62x51mm)     | 180                      | 11.66 | Nosler Partition           | 210                      | 2620   | 2430                                               | 2240     | 2060     | 1890     | 1730     | 2745                                                | 2355     | 2005     | 1700     | 1430     | 1200     |
| 2                         | P308F                  | 308 Win. (7.62x51mm)     | 150                      | 9.72  | Nosler Ballistic Tip       | 210                      | 2820   | 2610                                               | 2410     | 2220     | 2040     | 1860     | 2650                                                | 2270     | 1935     | 1640     | 1380     | 1155     |
| 3                         | P308R                  | 308 Win. (7.62x51mm)     | 150                      | 9.72  | Barnes XLC Coated X-Bullet | 210                      | 2820   | 2610                                               | 2400     | 2210     | 2030     | 1850     | 2650                                                | 2265     | 1925     | 1630     | 1370     | 1140     |
| 3                         | 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      |
| 3                         | P300GT3                | 30-06 Spring (7.62x63mm) | 180                      | 11.66 | Trophy Bonded Bear Claw    | 210                      | 2880   | 2630                                               | 2380     | 2160     | 1940     | 1740     | 3315                                                | 2755     | 2270     | 1855     | 1505     | 1210     |
| 3                         | P300GT4                | 30-06 Spring (7.62x63mm) | 165                      | 10.69 | Trophy Bonded Bear Claw    | 210                      | 3000   | 2730                                               | 2470     | 2230     | 2000     | 1780     | 3300                                                | 2720     | 2230     | 1815     | 1460     | 1160     |
| 3                         | P300GR                 | 30-06 Spring (7.62x63mm) | 180                      | 11.66 | Nosler Partition           | 210                      | 2880   | 2690                                               | 2500     | 2320     | 2150     | 1980     | 3315                                                | 2880     | 2495     | 2150     | 1845     | 1570     |
| 3                         | P300GY                 | 30-06 Spring (7.62x63mm) | 165                      | 10.69 | Sierra GameKing BTSP       | 210                      | 3000   | 2770                                               | 2540     | 2330     | 2130     | 1940     | 3300                                                | 2800     | 2370     | 1990     | 1660     | 1375     |
| 2                         | P300GD                 | 30-06 Spring (7.62x63mm) | 165                      | 10.69 | Sierra GameKing BTSP       | 210                      | 2800   | 2610                                               | 2420     | 2240     | 2070     | 1910     | 2870                                                | 2490     | 2150     | 1840     | 1580     | 1340     |
| 3                         | P300GF                 | 30-06 Spring (7.62x63mm) | 180                      | 11.66 | Nosler Partition           | 210                      | 2700   | 2500                                               | 2320     | 2140     | 1970     | 1810     | 2915                                                | 2510     | 2150     | 1830     | 1550     | 1350     |
| 2                         | P300GG                 | 30-06 Spring (7.62x63mm) | 150                      | 9.72  | Sierra GameKing BTSP       | 210                      | 2910   | 2690                                               | 2480     | 2270     | 2070     | 1880     | 2820                                                | 2420     | 2040     | 1710     | 1430     | 1180     |
| 3                         | P300GL                 | 30-06 Spring (7.62x63mm) | 180                      | 11.66 | Sierra GameKing BTSP       | 210                      | 2700   | 2540                                               | 2380     | 2220     | 2080     | 1930     | 2915                                                | 2570     | 2260     | 1975     | 1720     | 1495     |
| 2                         | P300GP                 | 30-06 Spring (7.62x63mm) | 150                      | 9.72  | Nosler Ballistic Tip       | 210                      | 2910   | 2700                                               | 2490     | 2300     | 2110     | 1940     | 2820                                                | 2420     | 2070     | 1760     | 1485     | 1245     |
| 2                         | P300GQ                 | 30-06 Spring (7.62x63mm) | 165                      | 10.69 | Nosler Ballistic Tip       | 210                      | 2800   | 2610                                               | 2430     | 2250     | 2080     | 1920     | 2870                                                | 2495     | 2155     | 1855     | 1585     | 1350     |
| 3                         | P300GZ                 | 30-06 Spring (7.62x63mm) | 180                      | 11.66 | Barnes XLC Coated X-Bullet | 210                      | 2700   | 2530                                               | 2360     | 2200     | 2040     | 1890     | 2915                                                | 2550     | 2220     | 1930     | 1670     | 1430     |
| 3                         | P300GT1                | 30-06 Spring (7.62x63mm) | 165                      | 10.69 | Trophy Bonded Bear Claw    | 210                      | 2800   | 2540                                               | 2290     | 2050     | 1830     | 1630     | 2870                                                | 2360     | 1915     | 1545     | 1230     | 975      |
| 3                         | P300GT2                | 30-06 Spring (7.62x63mm) | 180                      | 11.66 | Trophy Bonded Bear Claw    | 210                      | 2700   | 2460                                               | 2220     | 2000     | 1800     | 1610     | 2915                                                | 2410     | 1975     | 1605     | 1290     | 1035     |
| 3                         | P300HA                 | 300 H&H Magnum           | 180                      | 11.66 | Nosler Partition           | 215                      | 2880   | 2620                                               | 2380     | 2150     | 1930     | 1730     | 3315                                                | 2750     | 2260     | 1840     | 1480     | 1190     |
| 3                         | P300WT3                | 300 Win. Magnum          | 180                      | 11.66 | Trophy Bonded Bear Claw    | 215                      | 3100   | 2830                                               | 2580     | 2340     | 2110     | 1900     | 3840                                                | 3205     | 2660     | 2190     | 1790     | 1445     |
| 3                         | P300WE                 | 300 Win. Magnum          | 180                      | 12.96 | Nosler Partition           | 215                      | 2930   | 2700                                               | 2480     | 2280     | 2090     | 1900     | 3430                                                | 2920     | 2470     | 2080     | 1740     | 1440     |
| 3                         | P300WD2                | 300 Win. Magnum          | 180                      | 11.66 | Nosler Partition           | 215                      | 2960   | 2700                                               | 2450     | 2210     | 1990     | 1780     | 3500                                                | 2905     | 2395     | 1955     | 1585     | 1270     |
| 3                         | P300WT1                | 300 Win. Magnum          | 200                      | 12.96 | Trophy Bonded Bear Claw    | 215                      | 2800   | 2570                                               | 2350     | 2150     | 1950     | 1770     | 3480                                                | 2935     | 2460     | 2050     | 1690     | 1385     |
| 3                         | P300WT2                | 300 Win. Magnum          | 180                      | 11.66 | Trophy Bonded Bear Claw    | 215                      | 2960   | 2700                                               | 2460     | 2220     | 2000     | 1800     | 3500                                                | 2915     | 2410     | 1975     | 1605     | 1290     |
| 3                         | P300WC                 | 300 Win. Magnum          | 200                      | 12.96 | Sierra GameKing BTSP       | 215                      | 2830   | 2680                                               | 2530     | 2380     | 2240     | 2110     | 3560                                                | 3180     | 2830     | 2520     | 2230     | 1970     |
| 3                         | P300WJ                 | 300 Win. Magnum          | 180                      | 11.66 | Barnes XLC Coated X-Bullet | 215                      | 2960   | 2780                                               | 2600     | 2430     | 2260     | 2110     | 3500                                                | 3080     | 2700     | 2355     | 2050     | 1775     |
| 3                         | P300WT4                | 300 Win. Magnum          | 150                      | 9.72  | Trophy Bonded Bear Claw    | 215                      | 3280   | 2980                                               | 2700     | 2430     | 2190     | 1950     | 3570                                                | 2957     | 2420     | 1970     | 1590     | 1270     |
| 3                         | P300WB3                | 300 Weatherby Magnum     | 180                      | 11.66 | Trophy Bonded Bear Claw**  | 215                      | 3250   | 3005                                               | 2774     | 2555     | 2345     | 2146     | 4220                                                | 3610     | 3075     | 2608     | 2198     | 1840     |
| 3                         | P300WBA                | 300 Weatherby Magnum     | 180                      | 11.66 | Nosler Partition           | 215                      | 3190   | 2980                                               | 2780     | 2590     | 2400     | 2230     | 4055                                                | 3540     | 3080     | 2670     | 2305     | 1985     |
| 3                         | P300WB1                | 300 Weatherby Magnum     | 180                      | 11.66 | Trophy Bonded Bear Claw    | 215                      | 3100   | 2860                                               | 2640     | 2430     | 2220     | 2029     | 3840                                                | 3277     | 2785     | 2355     | 1975     | 1645     |
| 3                         | P300WB2                | 300 Weatherby Magnum     | 200                      | 12.96 | Trophy Bonded Bear Claw    | 215                      | 2900   | 2670                                               | 2440     | 2230     | 2030     | 1830     | 3735                                                | 3150     | 2645     | 2200     | 1820     | 1490     |
| 3                         | P300WBC                | 300 Weatherby Magnum     | 180                      | 11.66 | Sierra GameKing BTSP       | 215                      | 3190   | 3010                                               | 2830     | 2660     | 2490     | 2330     | 4065                                                | 3610     | 3195     | 2820     | 2480     | 2175     |
| 3                         | P300RUM1               | 300 Rem. Ultra Magnum    | 180                      | 11.66 | Trophy Bonded Bear Claw**  | 215                      | 3250   | 3000                                               | 2770     | 2550     | 2340     | 2130     | 4220                                                | 3605     | 3065     | 2590     | 2180     | 1820     |
| 3                         | P338T2                 | 338 Win. Magnum          | 225                      | 14.58 | Trophy Bonded Bear Claw    | 215                      | 2940   | 2690                                               | 2450     | 2230     | 2010     | 1810     | 4320                                                | 3610     | 3000     | 2475     | 2025     | 1640     |
| 3                         | P338D                  | 338 Win. Magnum          | 250                      | 16.20 | Nosler Partition           | 215                      | 2800   | 2610                                               | 2420     | 2250     | 2080     | 1920     | 4350                                                | 3775     | 3260     | 2805     | 2395     | 2035     |
| 3                         | P338A2                 | 338 Win. Magnum          | 210                      | 13.60 | Nosler Partition           | 215                      | 2830   | 2600                                               | 2390     | 2180     | 1980     | 1800     | 3735                                                | 3160     | 2655     | 2215     | 1835     | 1505     |
| 3                         | P338B2                 | 338 Win. Magnum          | 250                      | 16.20 | Nosler Partition           | 215                      | 2660   | 2470                                               | 2300     | 2120     | 1960     | 1800     | 3925                                                | 3395     | 2925     | 2505     | 2130     | 1805     |
| NEW                       | P338H                  | 338 Win. Magnum          | 225                      | 14.58 | Barnes XLC Coated          | 215                      | 2800   | 2610                                               | 2430     | 2260     | 2090     | 1930     | 3815                                                | 3405     | 2950     | 2545     | 2180     | 1860     |
| 3                         | P338T1                 | 338 Win. Magnum          | 225                      | 14.58 | Trophy Bonded Bear Claw    | 215                      | 2800   | 2560                                               | 2330     | 2110     | 1900     | 1710     | 3815                                                | 3265     | 2700     | 2220     | 1800     | 1455     |
| NEW                       | P338RUM1               | 338 RemUltra Magnum      | 250                      | 16.20 | Trophy Bonded Bear Claw    | 216                      | 2860   | 2630                                               | 2420     | 2210     | 2020     | 1830     | 4540                                                | 3850     | 3245     | 2715     | 2260     | 1865     |
| 3                         | P340WB1                | 340 Weatherby Magnum     | 225                      | 14.58 | Trophy Bonded Bear Claw    | 215                      | 2900   | 2650                                               | 2420     | 2200     | 1990     | 1790     | 4200                                                | 3520     | 2930     | 2420     | 1980     | 1605     |
| 3                         | P35WT1                 | 35 Whelen                | 225                      | 14.58 | Trophy Bonded Bear Claw    | 210                      | 2860   | 2400                                               | 2200     | 2020     | 1840     | 1670     | 3375                                                | 2865     | 2420     | 2030     | 1690     | 1400     |
| 4                         | P375F                  | 375 H&H Magnum           | 300                      | 19.44 | Nosler Partition           | 215                      | 2530   | 2320                                               | 2120     | 1930     | 1750     | 1590     | 4265                                                | 3585     | 2995     | 2475     | 2040     | 1675     |
| 4                         | P375T1                 | 375 H&H Magnum           | 300                      | 19.44 | Trophy Bonded Bear Claw    | 215                      | 2450   | 2200                                               | 1970     | 1750     | 1550     | 1380     | 4000                                                | 3230     | 2580     | 2040     | 1605     | 1260     |
| 4                         | P375T2                 | 375 H&H Magnum           | 300                      | 19.44 | Trophy Bonded Sledgehammer | 215                      | 2530   | 2160                                               | 1820     | 1520     | 1280     | 1100     | 4265                                                | 3105     | 2210     | 1550     | 1090     | 810      |
| 4                         | P375T3                 | 375 H & H Magnum         | 300                      | 19.44 | Trophy Bonded Bear Claw    | 215                      | 2600   | 2340                                               | 2100     | 1870     | 1660     | 1480     | 4500                                                | 3660     | 2940     | 2340     | 1845     | 1450     |
| 2                         | P375T4                 | 375 H&H Magnum           | 250                      | 16.2  | Trophy Bonded Bear Claw    | 210                      | 2670   | 2360                                               | 2080     | 1820     | 1580     | 1370     | 3955                                                | 3100     | 2400     | 1830     | 1380     | 1040     |
| 2                         | P458A                  | 458 Win. Magnum          | 350                      | 22.68 | Soft Point                 | 215                      | 2470   | 1990                                               | 1570     | 1250     | 1060     | 950      | 4740                                                | 3065     | 1915     | 1205     | 870      | 705      |
| 4                         | P458B                  | 458 Win. Magnum          | 510                      | 33.04 | Soft Point                 | 215                      | 2090   | 1820                                               | 1570     | 1360     | 1190     | 1080     | 4945                                                | 3730     | 2790     | 2080     | 1605     | 1320     |
| 4                         | P458C                  | 458 Win. Magnum          | 500                      | 32.40 | Woodleigh Solid            | 215                      | 2090   | 1870                                               | 1670     | 1480     | 1320     | 1190     | 4850                                                | 3880     | 3085     | 2440     | 1945     | 1585     |
| 4                         | P458T1                 | 458 Win. Magnum          | 400                      | 25.92 | Trophy Bonded Bear Claw    | 215                      | 2380   | 2170                                               | 1960     | 1770     | 1590     | 1430     | 5030                                                | 4165     | 3415     | 2785     | 2255     | 1825     |
| 4                         | P458T2                 | 458 Win. Magnum          | 500                      | 32.40 | Trophy Bonded Bear Claw    | 215                      | 2090   | 1870                                               | 1660     | 1480     | 1310     | 1180     | 4850                                                | 3870     | 3065     | 2420     | 1915     | 1550     |
| 4                         | P458T3                 | 458 Win. Magnum          | 500                      | 32.40 | Trophy Bonded Sledgehammer | 215                      | 2090   | 1860                                               | 1650     | 1460     | 1300     | 1170     | 4850                                                | 3845     | 3025     | 2385     | 1865     | 1505     |
| 4                         | P416A                  | 416 Rigby                | 410                      | 26.57 | Woodleigh Weldcore SP      | 216                      | 2370   | 2110                                               | 1870     | 1640     | 1440     | 1280     | 5115                                                | 4050     | 3165     | 2455     | 1895     | 1485     |
| 4                         | P416B                  | 416 Rigby                | 410                      | 26.57 | Woodleigh Solid            | 216                      | 2370   | 2110                                               | 1870     | 1640     | 1440     | 1280     | 5115                                                | 4050     | 3165     | 2455     | 1895     | 1485     |
| 4                         | P416T1                 | 416 Rigby                | 400                      | 25.92 | Trophy Bonded Bear Claw    | 216                      | 2370   | 2150                                               | 1940     | 1750     | 1570     | 1410     | 4990                                                | 4110     | 3350     | 271      |          |          |

+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 SP = Soft Point \*\*Moly-Coat = New, Molybdenum disulfide dry film lubricant

Usage Key: 1 =Varminits, predators, small game 2 =Medium game 3 =Large, heavy game 4 = Dangerous game 5 = Target shooting, training, practice 6 = Self defense

TNT is a trademark of Speer.Partition



| WIND DRIFT IN INCHES<br>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<br>AVERAGE RANGE |          |          |         |          |          |          |          |          |    | TEST BARREL<br>LENGTH<br>INCHES | FEDERAL<br>LOAD<br>NO. |
|------------------------------------------|----------|----------|----------|----------|---------|---------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|---------|----------|----------|----------|----------|----------|----|---------------------------------|------------------------|
| 100 YDS.                                 | 200 YDS. | 300 YDS. | 400 YDS. | 500 YDS. | 50 YDS. | 100 YDS.                                                                                                                                    | 200 YDS. | 300 YDS. | 50 YDS. | 100 YDS. | 200 YDS. | 300 YDS. | 400 YDS. | 500 YDS. |    |                                 |                        |
| 1.0                                      | 3.8      | 9.2      | 17.0     | 28.4     | -0.2    | ⊕                                                                                                                                           | -3.6     | -13.6    | +0.7    | +1.8     | ⊕        | -8.2     | -24.0    | -49.9    | 24 | P308T2                          |                        |
| 0.7                                      | 2.9      | 6.8      | 12.6     | 20.2     | -0.1    | ⊕                                                                                                                                           | -3.8     | -13.9    | +0.8    | +1.9     | ⊕        | -8.2     | -23.5    | -47.1    | 24 | P308G                           |                        |
| 0.7                                      | 3.0      | 7.0      | 13.0     | 21.1     | -0.1    | ⊕                                                                                                                                           | -4.0     | -14.4    | +0.9    | +2.0     | ⊕        | -8.4     | -24.3    | -49.0    | 24 | P308C                           |                        |
| 0.9                                      | 3.5      | 8.4      | 15.5     | 25.7     | -0.1    | ⊕                                                                                                                                           | -4.2     | -15.1    | +0.9    | +2.1     | ⊕        | -8.9     | -25.7    | -52.9    | 24 | P308P                           |                        |
| 0.6                                      | 2.8      | 6.6      | 12.2     | 19.5     | -0.1    | ⊕                                                                                                                                           | -4.3     | -15.3    | +1.0    | +2.1     | ⊕        | -8.9     | -25.3    | -50.4    | 24 | P308Q                           |                        |
| 0.8                                      | 3.1      | 7.3      | 13.6     | 22.0     | -0.2    | ⊕                                                                                                                                           | -3.6     | -13.3    | +0.7    | +1.8     | ⊕        | -7.9     | -22.9    | -46.1    | 24 | P308R                           |                        |
| 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                          |                        |
| 0.9                                      | 3.8      | 9.7      | 18.1     | 28.6     | -0.2    | ⊕                                                                                                                                           | -3.5     | -13.3    | +0.7    | +1.8     | ⊕        | -8.0     | -23.3    | -48.2    | 24 | P3006T3                         |                        |
| 0.9                                      | 3.6      | 9.0      | 16.1     | 26.4     | -0.2    | ⊕                                                                                                                                           | -3.2     | -12.1    | +0.6    | +1.4     | ⊕        | -7.3     | -21.8    | -44.8    | 24 | P3006T4                         |                        |
| 0.7                                      | 2.8      | 6.3      | 11.7     | 18.0     | -0.2    | ⊕                                                                                                                                           | -3.3     | -12.2    | +0.7    | +1.7     | ⊕        | -7.2     | -21.0    | -42.2    | 24 | P3006R                          |                        |
| 0.7                                      | 3.9      | 7.0      | 13.3     | 21.5     | -0.2    | ⊕                                                                                                                                           | -3.1     | -11.5    | +0.5    | +1.5     | ⊕        | -6.9     | -20.3    | -41.1    | 24 | P3006Y                          |                        |
| 0.7                                      | 2.8      | 6.6      | 12.3     | 19.9     | -0.2    | ⊕                                                                                                                                           | -3.6     | -13.2    | +0.8    | +1.8     | ⊕        | -7.8     | -22.4    | -45.2    | 24 | P3006D                          |                        |
| 0.7                                      | 3.0      | 7.3      | 13.4     | 27.7     | -0.1    | ⊕                                                                                                                                           | -4.0     | -14.6    | +0.9    | +2.0     | ⊕        | -8.6     | -24.6    | -49.6    | 24 | P3006F                          |                        |
| 0.7                                      | 3.0      | 7.1      | 13.4     | 22.0     | -0.2    | ⊕                                                                                                                                           | -3.3     | -12.4    | +0.6    | +1.7     | ⊕        | -7.4     | -21.5    | -43.7    | 24 | P3006G                          |                        |
| 0.6                                      | 2.6      | 6.0      | 11.0     | 17.8     | -0.1    | ⊕                                                                                                                                           | -3.9     | -13.9    | +0.9    | +1.9     | ⊕        | -8.1     | -23.1    | -46.1    | 24 | P3006L                          |                        |
| 0.7                                      | 2.9      | 6.8      | 12.7     | 20.7     | -0.2    | ⊕                                                                                                                                           | -3.3     | -12.2    | +0.6    | +1.6     | ⊕        | -7.3     | -21.1    | -42.8    | 24 | P3006P                          |                        |
| 0.7                                      | 2.8      | 6.6      | 12.1     | 19.7     | -0.2    | ⊕                                                                                                                                           | -3.6     | -13.2    | +0.7    | +1.8     | ⊕        | -7.7     | -22.3    | -45.0    | 24 | P3006Q                          |                        |
| 0.7                                      | 2.7      | 6.4      | 11.8     | 18.9     | -0.1    | ⊕                                                                                                                                           | -3.9     | -14.2    | +0.9    | +2.0     | ⊕        | -8.3     | -23.8    | -47.3    | 24 | P3006X                          |                        |
| 1.0                                      | 4.0      | 9.6      | 17.8     | 28.7     | -0.1    | ⊕                                                                                                                                           | -3.9     | -14.5    | +0.8    | +2.0     | ⊕        | -8.7     | -25.4    | -53.1    | 24 | P3006T1                         |                        |
| 0.9                                      | 4.0      | 9.4      | 17.7     | 29.4     | -0.1    | ⊕                                                                                                                                           | -4.3     | -15.6    | +1.0    | +2.2     | ⊕        | -9.2     | -27.0    | -56.1    | 24 | P3006T2                         |                        |
| 0.9                                      | 3.7      | 8.8      | 16.3     | 27.1     | -0.3    | ⊕                                                                                                                                           | -3.5     | -13.3    | +0.7    | +1.8     | ⊕        | -8.0     | -23.4    | -48.6    | 24 | P300HA                          |                        |
| 0.8                                      | 3.3      | 7.7      | 14.5     | 23.6     | -0.3    | ⊕                                                                                                                                           | -2.9     | -10.9    | +0.5    | +1.4     | ⊕        | -6.6     | -19.7    | -40.4    | 24 | P300WT3                         |                        |
| 0.7                                      | 3.1      | 7.2      | 13.4     | 21.9     | 0.2     | ⊕                                                                                                                                           | -3.3     | -12.2    | +0.6    | +1.6     | ⊕        | -7.3     | -21.2    | -43.2    | 24 | P300WE                          |                        |
| 0.9                                      | 3.5      | 8.4      | 15.8     | 25.9     | -0.2    | ⊕                                                                                                                                           | -3.3     | -12.4    | +0.6    | +1.6     | ⊕        | -7.5     | -22.1    | -45.4    | 24 | P300WD2                         |                        |
| 0.9                                      | 3.4      | 8.1      | 14.9     | 24.5     | -0.1    | ⊕                                                                                                                                           | -3.7     | -13.8    | +0.8    | +1.9     | ⊕        | -8.2     | -23.9    | -48.8    | 24 | P300WT1                         |                        |
| 0.9                                      | 3.5      | 8.3      | 15.4     | 25.4     | -0.2    | ⊕                                                                                                                                           | -3.3     | -12.3    | +0.6    | +1.6     | ⊕        | -7.4     | -21.9    | -45.0    | 24 | P300WT2                         |                        |
| 0.5                                      | 2.2      | 5.0      | 9.2      | 14.9     | -0.2    | ⊕                                                                                                                                           | -3.4     | -12.2    | +0.7    | +1.7     | ⊕        | -7.1     | -20.4    | -40.5    | 24 | P300WC                          |                        |
| 0.6                                      | 2.5      | 5.6      | 10.3     | 16.7     | -0.2    | ⊕                                                                                                                                           | -3.0     | -11.2    | +0.5    | +1.5     | ⊕        | -6.6     | -19.2    | -38.6    | 24 | P300WJ                          |                        |
| 0.8                                      | 3.3      | 7.8      | 14.6     | 24.0     | -0.3    | ⊕                                                                                                                                           | -2.4     | -9.6     | +0.3    | +1.2     | ⊕        | -6.0     | -17.9    | -37.1    | 24 | P300WT4                         |                        |
| 0.6                                      | 2.7      | 6.3      | 11.6     | 18.9     | -0.3    | ⊕                                                                                                                                           | -2.4     | -9.2     | +0.3    | +1.2     | ⊕        | -5.7     | -16.7    | -34.1    | 24 | P300WB3                         |                        |
| 0.6                                      | 2.4      | 5.5      | 10.1     | 16.3     | -0.3    | ⊕                                                                                                                                           | -2.4     | -9.4     | +0.3    | +1.2     | ⊕        | -5.7     | -16.7    | -33.6    | 24 | P300WBA                         |                        |
| 0.7                                      | 2.9      | 6.7      | 12.4     | 20.2     | -0.3    | ⊕                                                                                                                                           | -2.7     | -10.5    | +0.4    | +1.4     | ⊕        | -6.4     | -18.7    | -38.0    | 24 | P300WB1                         |                        |
| 0.8                                      | 3.3      | 7.8      | 14.4     | 23.5     | -0.2    | ⊕                                                                                                                                           | -3.4     | -12.7    | +0.7    | +1.7     | ⊕        | -7.6     | -22.2    | -45.1    | 24 | P300WB2                         |                        |
| 0.5                                      | 2.0      | 4.8      | 8.8      | 14.0     | -0.3    | ⊕                                                                                                                                           | -2.3     | -8.1     | +0.3    | +1.2     | ⊕        | -5.6     | -16.0    | -32.0    | 24 | P300WBC                         |                        |
| 0.7                                      | 2.7      | 6.4      | 11.7     | 18.2     | -0.3    | ⊕                                                                                                                                           | -2.4     | -9.3     | 0.3     | 1.2      | ⊕        | -5.7     | -16.8    | -34.4    | 24 | P300RUMT1                       |                        |
| 0.9                                      | 3.4      | 8.1      | 15.1     | 24.7     | -0.2    | ⊕                                                                                                                                           | -3.3     | -12.4    | +0.6    | +1.7     | ⊕        | -7.5     | -22.0    | -45.0    | 24 | P338T2                          |                        |
| 0.7                                      | 2.8      | 6.6      | 12.3     | 19.7     | -0.2    | ⊕                                                                                                                                           | -3.6     | -13.1    | +0.7    | +1.8     | ⊕        | -7.8     | -22.5    | -44.9    | 24 | P338D                           |                        |
| 0.9                                      | 3.3      | 7.9      | 14.6     | 23.8     | -0.2    | ⊕                                                                                                                                           | -3.6     | -13.4    | +0.7    | +1.8     | ⊕        | -8.0     | -23.3    | -47.3    | 24 | P338A2                          |                        |
| 0.7                                      | 3.0      | 7.1      | 13.1     | 21.2     | -0.1    | ⊕                                                                                                                                           | -4.2     | -15.0    | +1.0    | +2.1     | ⊕        | -8.8     | -25.1    | -50.5    | 24 | P338B2                          |                        |
| 0.7                                      | 2.8      | 6.5      | 11.9     | 19.4     | -0.2    | ⊕                                                                                                                                           | -3.6     | -13.1    | +0.7    | +1.8     | ⊕        | -7.7     | -22.2    | -44.7    | 24 | P338H                           |                        |
| 0.9                                      | 3.7      | 8.7      | 16.1     | 26.7     | -0.2    | ⊕                                                                                                                                           | -3.8     | -14.1    | +0.8    | +1.9     | ⊕        | -8.4     | -24.5    | -50.6    | 24 | P338T1                          |                        |
| 0.8                                      | 3.2      | 7.6      | 14.1     | 23.2     | -0.2    | ⊕                                                                                                                                           | -3.5     | -13.0    | +0.7    | +0.8     | ⊕        | -7.7     | -22.6    | -46.0    | 24 | P338RUMT1                       |                        |
| 0.9                                      | 3.4      | 8.2      | 15.2     | 24.8     | -0.2    | ⊕                                                                                                                                           | -3.4     | -12.8    | +0.7    | +1.7     | ⊕        | -7.7     | -22.6    | -46.2    | 24 | P340WB1                         |                        |
| 0.8                                      | 3.5      | 8.3      | 15.3     | 25.3     | -0.1    | ⊕                                                                                                                                           | -4.6     | -16.4    | +1.1    | +2.3     | ⊕        | -9.4     | -27.3    | -56.0    | 24 | P35WT1                          |                        |
| 0.9                                      | 3.9      | 9.1      | 17.0     | 27.8     | 0.0     | ⊕                                                                                                                                           | -5.0     | -17.7    | +1.2    | +2.5     | ⊕        | -10.3    | -29.9    | -60.8    | 24 | P375F                           |                        |
| 1.2                                      | 5.0      | 11.9     | 22.4     | 37.0     | -0.1    | ⊕                                                                                                                                           | -5.7     | -20.4    | +1.5    | +2.9     | ⊕        | -11.9    | -35.1    | -72.9    | 24 | P375T1                          |                        |
| 1.7                                      | 7.4      | 18.3     | 35.4     | 58.1     | ⊕       | -0.1                                                                                                                                        | -6.2     | -23.0    | +0.1    | ⊕        | -6.0     | -22.7    | -54.6    | -108.4   | 24 | P375T2                          |                        |
| 1.1                                      | 4.6      | 10.9     | 20.5     | 33.9     | ⊕       | ⊕                                                                                                                                           | -4.9     | -17.6    | +1.2    | +2.4     | ⊕        | -10.3    | -30.6    | -63.5    | 24 | P375T3                          |                        |
| 1.2                                      | 5.3      | 12.6     | 24.2     | 40.4     | -0.1    | ⊕                                                                                                                                           | -4.8     | -17.6    | 1.1     | 2.4      | ⊕        | -10.4    | -31.7    | -67.0    | 24 | P375T4                          |                        |
| 2.5                                      | 11.0     | 27.6     | 52.6     | 83.9     | ⊕       | -1.5                                                                                                                                        | -11.0    | -34.9    | +0.1    | ⊕        | -7.5     | -29.1    | -71.1    | -138.0   | 24 | P458A                           |                        |
| 1.9                                      | 7.9      | 18.9     | 35.3     | 56.8     | ⊕       | -1.8                                                                                                                                        | -13.7    | -38.7    | +0.4    | ⊕        | -9.1     | -32.3    | -73.9    | -136.0   | 24 | P458B                           |                        |
| 1.5                                      | 6.1      | 14.5     | 26.9     | 43.7     | ⊕       | -1.7                                                                                                                                        | -12.9    | -36.7    | +0.4    | ⊕        | -8.5     | -29.5    | -66.2    | -122.0   | 24 | P458C                           |                        |
| 1.1                                      | 4.5      | 10.7     | 19.9     | 32.7     | ⊕       | -0.2                                                                                                                                        | -6.3     | -21.5    | +0.1    | ⊕        | -5.9     | -20.9    | -47.1    | -87.0    | 24 | P458T1                          |                        |
| 1.5                                      | 6.2      | 14.6     | 27.3     | 44.5     | ⊕       | -0.7                                                                                                                                        | -10.0    | -31.8    | +0.4    | ⊕        | -8.5     | -29.7    | -66.8    | -124.2   | 24 | P458T2                          |                        |
| 1.5                                      | 6.4      | 15.2     | 28.3     | 46.1     | ⊕       | -0.7                                                                                                                                        | -10.1    | -32.2    | +0.4    | ⊕        | -8.6     | -30.0    | -67.8    | -126.3   | 24 | P458T3                          |                        |
| 1.3                                      | 5.7      | 13.6     | 25.6     | 42.3     | ⊕       | -1.2                                                                                                                                        | -9.8     | -28.5    | +0.6    | ⊕        | -7.4     | -24.8    | -55.0    | -101.6   | 24 | P416A                           |                        |
| 1.3                                      | 5.7      | 13.6     | 25.6     | 42.3     | ⊕       | -1.2                                                                                                                                        | -9.8     | -28.5    | +0.6    | ⊕        | -7.4     | -24.8    | -55.0    | -101.6   | 24 | P416B                           |                        |
| 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                          |                        |
| 1.3                                      | 5.5      | 13.2     | 24.8     | 41.0     | ⊕       | -0.2                                                                                                                                        | -6.8     | -23.2    | +0.1    | ⊕        | -6.3     | -22.5    | -51.5    | -96.7    | 24 | P416T2                          |                        |
| 1.3                                      | 5.2      | 12.6     | 23.6     | 39.0     | ⊕       | -0.2                                                                                                                                        | -6.4     | -22.2    | +0.1    | ⊕        | -6.0     | -21.6    | -49.2    | -92.6    | 24 | P416R2                          |                        |
| 1.2                                      | 4.6      | 10.9     | 20.6     | 33.5     | ⊕       | -0.2                                                                                                                                        | -6.2     | -21.2    | +0.1    | ⊕        | -5.8     | -20.6    | -46.9    | -86.5    | 24 | P416R1                          |                        |
| 1.6                                      | 7.0      | 16.6     | 31.1     | 50.6     | ⊕       | -1.6                                                                                                                                        | -12.6    | -36.2    | +0.8    | ⊕        | -9.3     | -31.3    | -69.7    | -128.6   | 24 | P470A                           |                        |
| 1.6                                      | 7.0      | 16.6     | 31.1     | 50.6     | ⊕       | -1.6                                                                                                                                        | -12.6    | -36.2    | +0.8    | ⊕        | -9.3     | -31.3    | -69.7    | -128.6   | 24 | P470B                           |                        |
| 1.3                                      | 5.5      | 13.0     | 24.3     | 39.7     | ⊕       | -0.6                                                                                                                                        | -9.0     | -28.9    | +0.3    | ⊕        | -7.8     | -27.1    | -60.8    | -112.4   | 24 | P470T1                          |                        |
| 1.3                                      | 5.5      | 13.0     | 24.3     | 39.7     | ⊕       | -0.6                                                                                                                                        | -9.0     | -28.9    | +0.3    | ⊕        | -7.8     | -27.1    | -60.8    | -112.4   | 24 | P470T2                          |                        |

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.

# CLASSIC® CENTERFIRE RIFLE

Tested, tried and true, Federal Classic Rifle loads have delivered consistent accuracy and performance for decades. They feature Federal Hi-Shok or Sierra Pro-Hunter bullets, both with expansion up to 200 percent. Federal's Classic centerfire powders are customized to each load and tested to rigid standards. Our brass is specially formulated to meet precise dimensional tolerances. And primers are a basic lead styphnate mixture – exclusive to Federal. Keep the tradition alive with Federal Classic Centerfire.

## Sierra Pro-Hunter® Bullets

The Pro-Hunter bullet makes our reliable Classic Rifle cartridges even better. The bullet quality is considered among the best in the business. Sierra's copper jackets are extremely uniform and their specifications are 3 times better than are found in standard jackets. Sierra's core has a weight tolerance of just three-tenths of a grain for consistent performance from shot to shot. Pro-Hunters are made under the eye of trained inspectors and every single production run is tested before it hits the shelf. Combine Pro-Hunter's quality with Federal's dedication to reliable powders, primers and brass, and you've just put an outstanding cartridge in your chamber.

## Hi-Shok® Bullets

Federal Hi-Shok bullets hit hard and expand reliably for effective game-getting performance. The tapered jacket is designed to provide good initial penetration plus controlled expansion. Rigid manufacturing controls ensure consistency; generations of hunters swear by their reliability.



*Classic Soft Point*

### Soft Point

It's a proven performer on small game and thin-skinned medium game. It has an aerodynamic tip for a flat trajectory. The exposed soft point expands rapidly for hard hits, even as velocity slows at longer ranges.



*Soft Point Round Nose*

### Soft Point Round Nose

For generations, hunters have made this bullet the choice for deer and bear in heavy cover. Its large exposed tip, good weight retention and specially tapered jacket provide controlled expansion for deep penetration.



*Soft Point Flat Nose*

### Soft Point Flat Nose

Got a tubular magazine? This is the bullet hunters traditionally choose when they're headed into thick cover. It expands reliably and penetrates deeply on light to medium game. The flat nose prevents accidental discharge.

# AMERICAN EAGLE® CENTERFIRE RIFLE

American Eagle rifle ammunition is made for sportsmen who like to shoot a lot, don't want to pay a lot, and don't want to sacrifice performance. It's available in the most popular military calibers. You'll be pleasantly surprised when you shoot it – and when you take it to the cash register.



*Full Metal  
Jacket Boat-Tail*

## **Full Metal Jacket Boat-Tail**

These accurate non-expanding bullets give you a flat-shooting trajectory, leave a small exit hole in game, and put clean holes in paper – great for sharpening your shooting eye. And they're famous for smooth, reliable feeding in semi-automatics, too.





# CLASSIC CENTERFIRE RIFLE BALLISTICS

| CLASSIC® CENTERFIRE RIFLE BALLISTICS |                        |                               |                |       |                         |                          |        |                                                    |          |          |          |          |                                                     |          |          |          |          |          |
|--------------------------------------|------------------------|-------------------------------|----------------|-------|-------------------------|--------------------------|--------|----------------------------------------------------|----------|----------|----------|----------|-----------------------------------------------------|----------|----------|----------|----------|----------|
| USAGE                                | FEDERAL<br>LOAD<br>NO. | CALIBER                       | BULLET WGT. IN |       | BULLET STYLE**          | FACTORY<br>PRIMER<br>NO. | MUZZLE | VELOCITY IN FEET PER SECOND<br>(TO NEAREST 10 FPS) |          |          |          |          | ENERGY IN FOOT-POUNDS<br>(TO NEAREST 5 FOOT-POUNDS) |          |          |          |          |          |
|                                      |                        |                               | GRAINS         | GRAMS |                         |                          |        | 100 YDS.                                           | 200 YDS. | 300 YDS. | 400 YDS. | 500 YDS. | MUZZLE                                              | 100 YDS. | 200 YDS. | 300 YDS. | 400 YDS. | 500 YDS. |
| 1                                    | 222A                   | 222 Rem. (5.56x43mm)          | 50             | 3.24  | Hi-Shok Soft Point      | 205                      | 3140   | 2600                                               | 2120     | 1700     | 1350     | 1110     | 1095                                                | 750      | 500      | 320      | 200      | 135      |
| 5                                    | 222B                   | 222 Rem. (5.56x43mm)          | 55             | 3.56  | FMJ Boat-Tail           | 205                      | 3020   | 2740                                               | 2480     | 2230     | 1990     | 1780     | 1115                                                | 915      | 750      | 610      | 485      | 385      |
| 1                                    | 223A                   | 223 Rem. (5.56x45mm)          | 55             | 3.56  | Hi-Shok Soft Point      | 205                      | 3240   | 2750                                               | 2300     | 1910     | 1550     | 1270     | 1280                                                | 920      | 650      | 445      | 295      | 195      |
| 5                                    | 223B                   | 223 Rem. (5.56x45mm)          | 55             | 3.56  | FMJ Boat-Tail           | 205                      | 3240   | 2950                                               | 2670     | 2410     | 2170     | 1940     | 1280                                                | 1060     | 875      | 710      | 575      | 460      |
| 1                                    | 22250A                 | 22-250 Rem.                   | 55             | 3.56  | Hi-Shok Soft Point      | 210                      | 3680   | 3140                                               | 2660     | 2220     | 1830     | 1490     | 1655                                                | 1200     | 860      | 605      | 410      | 270      |
| 1                                    | 243AS                  | 243 Win. (8.16x51mm)          | 80             | 5.18  | Sierra Pro-Hunter SP    | 210                      | 3350   | 2960                                               | 2590     | 2260     | 1950     | 1670     | 1995                                                | 1550     | 1195     | 905      | 675      | 495      |
| 2                                    | 243B                   | 243 Win. (8.16x51mm)          | 100            | 6.48  | Hi-Shok Soft Point      | 210                      | 2960   | 2700                                               | 2450     | 2220     | 1990     | 1790     | 1945                                                | 1615     | 1330     | 1090     | 880      | 710      |
| 1                                    | 6AS                    | 6mm Rem.                      | 80             | 5.18  | Sierra Pro-Hunter SP    | 210                      | 3470   | 3060                                               | 2690     | 2350     | 2040     | 1750     | 2140                                                | 1665     | 1290     | 980      | 735      | 540      |
| 2                                    | 6B                     | 6mm Rem.                      | 100            | 6.48  | Hi-Shok Soft Point      | 210                      | 3100   | 2830                                               | 2570     | 2330     | 2100     | 1890     | 2135                                                | 1775     | 1470     | 1205     | 985      | 790      |
| 2                                    | 2506BS                 | 25-06 Rem.                    | 117            | 7.58  | Sierra Pro-Hunter SP    | 210                      | 2990   | 2730                                               | 2480     | 2250     | 2030     | 1830     | 2320                                                | 1985     | 1645     | 1350     | 1100     | 885      |
| 2                                    | 270A                   | 270 Win.                      | 130            | 8.42  | Hi-Shok Soft Point      | 210                      | 3060   | 2800                                               | 2560     | 2330     | 2110     | 1900     | 2700                                                | 2265     | 1890     | 1565     | 1285     | 1045     |
| 2                                    | 270B                   | 270 Win.                      | 150            | 9.72  | Hi-Shok Soft Point RN   | 210                      | 2850   | 2500                                               | 2180     | 1890     | 1620     | 1390     | 2705                                                | 2085     | 1585     | 1185     | 870      | 640      |
| 2                                    | 270GS                  | 270 Win.                      | 130            | 8.42  | Sierra Pro-Hunter SP    | 210                      | 3060   | 2830                                               | 2600     | 2390     | 2190     | 2000     | 2705                                                | 2305     | 1960     | 1655     | 1390     | 1155     |
| 2                                    | 6555B                  | 6.5x55 Swedish                | 140            | 9.07  | Hi-Shok Soft Point      | 210                      | 2600   | 2400                                               | 2220     | 2040     | 1860     | 1700     | 2100                                                | 1795     | 1525     | 1285     | 1080     | 900      |
| 2                                    | 7A                     | 7mm Mauser (7x57mm Mauser)    | 175            | 11.34 | Hi-Shok Soft Point RN   | 210                      | 2440   | 2140                                               | 1860     | 1600     | 1380     | 1200     | 2315                                                | 1775     | 1340     | 1000     | 740      | 565      |
| 2                                    | 7B                     | 7mm Mauser (7x57mm Mauser)    | 140            | 9.07  | Sierra Pro-Hunter SP    | 210                      | 2660   | 2450                                               | 2260     | 2070     | 1890     | 1730     | 2200                                                | 1865     | 1585     | 1330     | 1110     | 930      |
| 2                                    | 708CS                  | 7mm-08 Rem.                   | 150            | 9.72  | Sierra Pro-Hunter SP    | 210                      | 2650   | 2440                                               | 2230     | 2040     | 1860     | 1690     | 2340                                                | 1980     | 1660     | 1390     | 1150     | 950      |
| 2                                    | 280B                   | 280 Rem.                      | 150            | 9.72  | Hi-Shok Soft Point      | 210                      | 2890   | 2670                                               | 2460     | 2260     | 2060     | 1880     | 2780                                                | 2370     | 2015     | 1695     | 1420     | 1180     |
| 2                                    | 280CS                  | 280 Rem.                      | 140            | 9.07  | Sierra Pro-Hunter SP    | 210                      | 2990   | 2740                                               | 2500     | 2270     | 2060     | 1860     | 2770                                                | 2325     | 1940     | 1605     | 1320     | 1070     |
| 2                                    | 7RA                    | 7mm Rem. Magnum               | 150            | 9.72  | Hi-Shok Soft Point      | 215                      | 3110   | 2830                                               | 2570     | 2320     | 2090     | 1870     | 3220                                                | 2670     | 2200     | 1790     | 1450     | 1160     |
| 3                                    | 7RB                    | 7mm Rem. Magnum               | 175            | 11.34 | Hi-Shok Soft Point      | 215                      | 2860   | 2650                                               | 2440     | 2240     | 2060     | 1880     | 3180                                                | 2720     | 2310     | 1960     | 1640     | 1370     |
| 3                                    | 7RJ5                   | 7mm Rem. Magnum               | 180            | 10.37 | Sierra Pro-Hunter SP    | 215                      | 2940   | 2730                                               | 2520     | 2320     | 2140     | 1960     | 3070                                                | 2640     | 2260     | 1920     | 1620     | 1360     |
| 1                                    | 30CA                   | 30 Carbine (7.62x33mm)        | 110            | 7.13  | Hi-Shok Soft Point RN   | 205                      | 1990   | 1570                                               | 1240     | 1040     | 920      | 840      | 965                                                 | 600      | 375      | 260      | 210      | 175      |
| 2                                    | 76239B                 | 7.62x39mm Soviet              | 123            | 7.97  | Hi-Shok Soft Point      | 210                      | 2300   | 2030                                               | 1780     | 1550     | 1350     | 1200     | 1445                                                | 1125     | 860      | 655      | 500      | 395      |
| 2                                    | 3030A                  | 30-30 Win.                    | 150            | 9.72  | Hi-Shok Soft Point FN   | 210                      | 2390   | 2020                                               | 1680     | 1400     | 1180     | 1040     | 1900                                                | 1355     | 945      | 650      | 460      | 355      |
| 2                                    | 3030B                  | 30-30 Win.                    | 170            | 11.01 | Hi-Shok Soft Point RN   | 210                      | 2200   | 1900                                               | 1620     | 1380     | 1190     | 1060     | 1830                                                | 1355     | 990      | 720      | 535      | 425      |
| 1                                    | 3030C                  | 30-30 Win.                    | 125            | 8.10  | Hi-Shok Hollow Point    | 210                      | 2570   | 2090                                               | 1660     | 1320     | 1080     | 960      | 1830                                                | 1210     | 770      | 480      | 320      | 260      |
| 2                                    | 3030FS                 | 30-30 Win.                    | 170            | 11.01 | Sierra Pro-Hunter SP    | 210                      | 2200   | 1820                                               | 1500     | 1240     | 1060     | 960      | 1830                                                | 1255     | 845      | 575      | 425      | 345      |
| 2                                    | 300A                   | 300 Savage                    | 150            | 9.72  | Hi-Shok Soft Point      | 210                      | 2630   | 2350                                               | 2100     | 1850     | 1630     | 1430     | 2305                                                | 1845     | 1460     | 1145     | 885      | 685      |
| 2                                    | 300B                   | 300 Savage                    | 180            | 11.66 | Hi-Shok Soft Point      | 210                      | 2350   | 2140                                               | 1940     | 1750     | 1570     | 1410     | 2205                                                | 1825     | 1495     | 1215     | 985      | 800      |
| 2                                    | 308A                   | 308 Win. (7.62x51mm)          | 150            | 9.72  | Hi-Shok Soft Point      | 210                      | 2820   | 2530                                               | 2260     | 2010     | 1770     | 1560     | 2650                                                | 2140     | 1705     | 1345     | 1050     | 810      |
| 2                                    | 308B                   | 308 Win. (7.62x51mm)          | 180            | 11.66 | Hi-Shok Soft Point      | 210                      | 2620   | 2390                                               | 2180     | 1970     | 1780     | 1600     | 2745                                                | 2290     | 1895     | 1555     | 1270     | 1030     |
| 2                                    | 308HS                  | 308 Win. (7.62x51mm)          | 180            | 11.66 | Sierra Pro-Hunter SP    | 210                      | 2620   | 2410                                               | 2200     | 2010     | 1820     | 1650     | 2745                                                | 2315     | 1940     | 1610     | 1330     | 1090     |
| 2                                    | 3006A                  | 30-06 Springfield (7.62x63mm) | 150            | 9.72  | Hi-Shok Soft Point      | 210                      | 2910   | 2620                                               | 2340     | 2080     | 1840     | 1620     | 2820                                                | 2280     | 1825     | 1445     | 1130     | 875      |
| 3                                    | 3006B                  | 30-06 Springfield (7.62x63mm) | 180            | 11.66 | Hi-Shok Soft Point      | 210                      | 2700   | 2470                                               | 2250     | 2040     | 1850     | 1660     | 2915                                                | 2435     | 2025     | 1665     | 1360     | 1105     |
| 1                                    | 3006CS                 | 30-06 Springfield (7.62x63mm) | 125            | 8.10  | Sierra Pro-Hunter SP    | 210                      | 3140   | 2780                                               | 2450     | 2140     | 1850     | 1600     | 2735                                                | 2145     | 1660     | 1270     | 955      | 705      |
| 3                                    | 3006HS                 | 30-06 Springfield (7.62x63mm) | 220            | 14.25 | Sierra Pro-Hunter SP RN | 210                      | 2410   | 2130                                               | 1870     | 1630     | 1420     | 1250     | 2835                                                | 2215     | 1705     | 1300     | 985      | 760      |
| 3                                    | 3006JS                 | 30-06 Springfield (7.62x63mm) | 180            | 11.66 | Sierra Pro-Hunter SP RN | 210                      | 2700   | 2350                                               | 2020     | 1730     | 1470     | 1250     | 2915                                                | 2200     | 1630     | 1190     | 860      | 620      |
| 2                                    | 3006SS                 | 30-06 Springfield (7.62x63mm) | 150            | 9.72  | Sierra Pro-Hunter SP    | 210                      | 2810   | 2640                                               | 2380     | 2130     | 1900     | 1690     | 2820                                                | 2315     | 1880     | 1515     | 1205     | 950      |
| 2                                    | 3006TS                 | 30-06 Springfield (7.62x63mm) | 165            | 10.69 | Sierra Pro-Hunter SP    | 210                      | 2800   | 2560                                               | 2340     | 2130     | 1920     | 1730     | 2875                                                | 2410     | 2005     | 1655     | 1360     | 1100     |
| 3                                    | 300WBS                 | 300 Win. Magnum               | 180            | 11.66 | Sierra Pro-Hunter SP    | 215                      | 2960   | 2750                                               | 2540     | 2340     | 2160     | 1980     | 3500                                                | 3010     | 2580     | 2195     | 1860     | 1565     |
| 2                                    | 300WGS                 | 300 Win. Magnum               | 150            | 9.72  | Sierra Pro-Hunter SP    | 215                      | 3280   | 3030                                               | 2800     | 2570     | 2360     | 2160     | 3570                                                | 3055     | 2600     | 2205     | 1860     | 1560     |
| 2                                    | 303AS                  | 303 British                   | 180            | 11.66 | Sierra Pro-Hunter SP    | 210                      | 2460   | 2230                                               | 2020     | 1820     | 1630     | 1460     | 2420                                                | 1995     | 1625     | 1315     | 1060     | 850      |
| 2                                    | 303B                   | 303 British                   | 150            | 9.72  | Hi-Shok Soft Point      | 210                      | 2690   | 2440                                               | 2210     | 1980     | 1780     | 1590     | 2400                                                | 1980     | 1620     | 1310     | 1055     | 840      |
| 2                                    | 32A                    | 32 Win. Special               | 170            | 11.01 | Hi-Shok Soft Point      | 210                      | 2250   | 1920                                               | 1630     | 1370     | 1180     | 1040     | 1910                                                | 1395     | 1000     | 710      | 520      | 410      |
| 2                                    | 8A*                    | 8mm Mauser (8x57mm JS Mauser) | 170            | 11.01 | Hi-Shok Soft Point      | 210                      | 2360   | 1970                                               | 1620     | 1330     | 1120     | 1000     | 2100                                                | 1465     | 995      | 670      | 475      | 375      |
| 3                                    | 338ES                  | 338 Win. Magnum               | 225            | 14.58 | Sierra Pro-Hunter SP    | 215                      | 2780   | 2570                                               | 2360     | 2170     | 1980     | 1800     | 3860                                                | 3290     | 2780     | 2340     | 1960     | 1630     |
| 2                                    | C357G                  | 357 Magnum                    | 180            | 11.66 | Hi-Shok Hollow Point    | 100                      | 1550   | 1160                                               | 980      | 860      | 770      | 680      | 960                                                 | 535      | 385      | 295      | 235      | 185      |
| 2                                    | 35A                    | 35 Rem.                       | 200            | 12.96 | Hi-Shok Soft Point      | 210                      | 2080   | 1700                                               | 1380     | 1140     | 1000     | 910      | 1920                                                | 1280     | 840      | 575      | 445      | 370      |
| 3                                    | 375A                   | 375 H&H Magnum                | 270            | 17.50 | Hi-Shok Soft Point      | 215                      | 2690   | 2420                                               | 2170     | 1920     | 1700     | 1500     | 4340                                                | 3510     | 2810     | 2220     | 1740     | 1355     |
| 4                                    | 375B                   | 375 H&H Magnum                | 300            | 19.44 | Hi-Shok Soft Point      | 215                      | 2530   | 2270                                               | 2020     | 1790     | 1580     | 1400     | 4265                                                | 3425     | 2720     | 2135     | 1665     | 1295     |
| 2                                    | C44A                   | 44 Rem. Magnum                | 240            | 15.55 | Hi-Shok Hollow Point    | 150                      | 1760   | 1380                                               | 1090     | 950      | 860      | 790      | 1650                                                | 1015     | 640      | 485      | 395      | 330      |
| 2                                    | 4570AS                 | 45-70 Government              | 300            | 19.44 | Sierra Pro-Hunter HP FN | 210                      | 1880   | 1650                                               | 1430     | 1240     | 1110     | 1010     | 2355                                                | 1815     | 1355     | 1015     | 810      | 680      |

\*Only for use in barrels intended for .323 inch diameter bullets. Do not use in 8x57mm J Commission Rifles (M1888) or in sporting or other military arms of .318 inch bore diameter. \*\*RN = Round Nose SP = Soft Point FN = Flat Nose FMJ = Full Metal Jacket HP = Hollow Point Sierra Pro-Hunter is a registered trademark of Sierra Rifle Company.

# AMERICAN EAGLE CENTERFIRE RIFLE BALLISTICS

| A M E R I C A N   E A G L E ®   C E N T E R F I R E   R I F L E   B A L L I S T I C S |                        |                      |                |       |                             |                          |                                                    |          |          |          |          |          |                                                     |          |          |          |          |          |
|---------------------------------------------------------------------------------------|------------------------|----------------------|----------------|-------|-----------------------------|--------------------------|----------------------------------------------------|----------|----------|----------|----------|----------|-----------------------------------------------------|----------|----------|----------|----------|----------|
| USAGE                                                                                 | FEDERAL<br>LOAD<br>NO. | CALIBER              | BULLET WGT. IN |       | BULLET STYLE                | FACTORY<br>PRIMER<br>NO. | VELOCITY IN FEET PER SECOND<br>(TO NEAREST 10 FPS) |          |          |          |          |          | ENERGY IN FOOT-POUNDS<br>(TO NEAREST 5 FOOT-POUNDS) |          |          |          |          |          |
|                                                                                       |                        |                      | GRAINS         | GRAMS |                             |                          | MUZZLE                                             | 100 YDS. | 200 YDS. | 300 YDS. | 400 YDS. | 500 YDS. | MUZZLE                                              | 100 YDS. | 200 YDS. | 300 YDS. | 400 YDS. | 500 YDS. |
| 5                                                                                     | AE223                  | 223 Rem. (5.56x45mm) | 55             | 3.56  | Full Metal Jacket Boat-Tail | 205                      | 3240                                               | 2950     | 2670     | 2410     | 2170     | 1940     | 1280                                                | 1060     | 875      | 710      | 575      | 460      |
| 5                                                                                     | AE223G                 | 223 Rem. (5.56x45mm) | 50             | 3.24  | Jacketed Hollow Point       | 205                      | 3400                                               | 2910     | 2460     | 2060     | 1700     | 1390     | 1285                                                | 940      | 675      | 470      | 320      | 215      |
| 5                                                                                     | AE223N                 | 223 Rem. (5.56x45mm) | 62             | 4.02  | Full Metal Jacket           | 205                      | 3020                                               | 2650     | 2310     | 2000     | 1710     | 1460     | 1225                                                | 970      | 735      | 550      | 405      | 290      |
| 5                                                                                     | AE30CB                 | 30 Carbine           | 110            | 7.13  | Full Metal Jacket           | 205                      | 1990                                               | 1570     | 1240     | 1040     | 920      | 840      | 965                                                 | 600      | 375      | 260      | 210      | 175      |
| 5                                                                                     | AE76239A               | 7.62x39mm Soviet     | 124            | 8.03  | Full Metal Jacket           | 210                      | 2300                                               | 2030     | 1780     | 1560     | 1360     | 1200     | 1455                                                | 1135     | 875      | 670      | 510      | 400      |
| 5                                                                                     | AE308B                 | 308 Win.             | 150            | 9.72  | Full Metal Jacket Boat-Tail | 210                      | 2820                                               | 2620     | 2430     | 2250     | 2070     | 1900     | 2650                                                | 2285     | 1865     | 1680     | 1430     | 1205     |
| 5                                                                                     | AE3006N                | 30-06 Spring         | 150            | 9.72  | Full Metal Jacket Boat-Tail | 210                      | 2910                                               | 2710     | 2510     | 2320     | 2150     | 1970     | 2820                                                | 2440     | 2100     | 1800     | 1535     | 1300     |

Usage Key: 1 = Varminis, predators, small game 2 = Medium game 3 = Large, heavy game 4 = Dangerous game 5 = Target shooting, training, practice 6 = Self defense



| WIND DRIFT IN INCHES<br>10 MPH CROSSWIND |          |          |          |          | HEIGHT OF BULLET TRAJECTORY IN INCHES ABOVE OR BELOW LINE OF SIGHT IF ZEROED AT ⊕ YARDS. SIGHTS 1.5 INCHES ABOVE BORE LINE |          |          |          |         |          |          |          |          |          | TEST BARREL<br>LENGTH<br>INCHES | FEDERAL<br>LOAD<br>NO. |
|------------------------------------------|----------|----------|----------|----------|----------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|---------|----------|----------|----------|----------|----------|---------------------------------|------------------------|
| 100 YDS.                                 | 200 YDS. | 300 YDS. | 400 YDS. | 500 YDS. | 50 YDS.                                                                                                                    | 100 YDS. | 200 YDS. | 300 YDS. | 50 YDS. | 100 YDS. | 200 YDS. | 300 YDS. | 400 YDS. | 500 YDS. |                                 |                        |
| 1.7                                      | 7.3      | 18.3     | 36.4     | 63.1     | -0.2                                                                                                                       | ⊕        | -3.7     | -15.3    | +0.7    | +1.9     | ⊕        | -9.7     | -31.6    | -71.3    | 24                              | 222A                   |
| 0.9                                      | 3.4      | 8.5      | 16.8     | 26.3     | -0.2                                                                                                                       | ⊕        | -3.1     | -12.0    | +0.6    | +1.6     | ⊕        | -7.3     | -21.5    | -44.6    | 24                              | 222B                   |
| 1.4                                      | 6.1      | 15.0     | 29.4     | 50.8     | -0.3                                                                                                                       | ⊕        | -3.2     | -12.9    | +0.5    | +1.6     | ⊕        | -8.2     | -26.1    | -58.3    | 24                              | 223A                   |
| 0.8                                      | 3.3      | 7.8      | 14.5     | 24.0     | -0.3                                                                                                                       | ⊕        | -2.5     | -9.9     | +0.3    | +1.3     | ⊕        | -6.1     | -18.3    | -37.8    | 24                              | 223B                   |
| 1.2                                      | 5.2      | 12.5     | 24.4     | 42.0     | -0.4                                                                                                                       | ⊕        | -2.1     | -9.1     | +0.1    | +1.0     | ⊕        | -6.0     | -19.1    | -42.6    | 24                              | 22250A                 |
| 1.0                                      | 4.3      | 10.4     | 19.8     | 33.3     | -0.3                                                                                                                       | ⊕        | -2.5     | -10.2    | +0.3    | +1.3     | ⊕        | -6.4     | -19.7    | -42.2    | 24                              | 243AS                  |
| 0.9                                      | 3.6      | 8.4      | 15.7     | 25.8     | -0.2                                                                                                                       | ⊕        | -3.3     | -12.4    | +0.6    | +1.6     | ⊕        | -7.5     | -22.0    | -45.4    | 24                              | 243B                   |
| 1.0                                      | 4.1      | 9.9      | 18.8     | 31.6     | -0.3                                                                                                                       | ⊕        | -2.2     | -9.3     | +0.2    | +1.1     | ⊕        | -5.9     | -18.2    | -39.0    | 24                              | 6AS                    |
| 0.8                                      | 3.3      | 7.9      | 14.7     | 24.1     | -0.3                                                                                                                       | ⊕        | -2.9     | -11.0    | +0.5    | +1.4     | ⊕        | -6.7     | -19.8    | -40.6    | 24                              | 6B                     |
| 0.8                                      | 3.4      | 8.1      | 15.1     | 24.9     | -0.2                                                                                                                       | ⊕        | -3.2     | -12.0    | +0.6    | +1.6     | ⊕        | -7.2     | -21.4    | -44.0    | 24                              | 2506BS                 |
| 0.8                                      | 3.2      | 7.6      | 14.2     | 23.3     | -0.2                                                                                                                       | ⊕        | -2.9     | -11.2    | +0.5    | +1.5     | ⊕        | -6.8     | -20.0    | -41.1    | 24                              | 270A                   |
| 1.2                                      | 5.3      | 12.8     | 24.5     | 41.3     | -0.1                                                                                                                       | ⊕        | -4.1     | -15.5    | +0.9    | +2.0     | ⊕        | -8.4     | -26.6    | -61.0    | 24                              | 270B                   |
| 0.8                                      | 3.0      | 6.9      | 12.8     | 20.7     | +0.3                                                                                                                       | ⊕        | -2.8     | -10.7    | +0.5    | +1.4     | ⊕        | -6.4     | -18.0    | -38.5    | 24                              | 270CS                  |
| 0.8                                      | 3.4      | 8.0      | 14.8     | 24.1     | -0.1                                                                                                                       | ⊕        | -4.5     | -16.2    | +1.1    | +2.3     | ⊕        | -8.4     | -27.2    | -55.0    | 24                              | 6555B                  |
| 1.5                                      | 6.2      | 15.0     | 28.7     | 47.8     | -0.1                                                                                                                       | ⊕        | -6.2     | -22.6    | +1.6    | +3.1     | ⊕        | -13.3    | -40.1    | -84.6    | 24                              | 7A                     |
| 1.3                                      | 3.2      | 8.2      | 15.4     | 23.4     | -0.1                                                                                                                       | ⊕        | -4.3     | -15.4    | +1.0    | +2.1     | ⊕        | -8.0     | -26.1    | -52.9    | 24                              | 7B                     |
| 0.9                                      | 3.6      | 8.4      | 15.6     | 25.5     | -0.1                                                                                                                       | ⊕        | -4.4     | -15.7    | +1.0    | +2.2     | ⊕        | -8.2     | -26.7    | -54.4    | 24                              | 708CS                  |
| 0.7                                      | 3.1      | 7.2      | 13.4     | 21.9     | -0.2                                                                                                                       | ⊕        | -3.4     | -12.6    | +0.7    | +1.7     | ⊕        | -7.5     | -21.8    | -44.3    | 24                              | 280B                   |
| 0.9                                      | 3.4      | 7.9      | 14.7     | 23.9     | -0.2                                                                                                                       | ⊕        | -3.1     | -11.7    | +0.6    | +1.6     | ⊕        | -7.0     | -20.8    | -42.6    | 24                              | 280CS                  |
| 0.8                                      | 3.4      | 8.1      | 15.1     | 24.9     | -0.3                                                                                                                       | ⊕        | -2.9     | -11.0    | +0.5    | +1.4     | ⊕        | -6.7     | -19.9    | -41.0    | 24                              | 7RA                    |
| 0.7                                      | 3.1      | 7.2      | 13.3     | 21.7     | -0.2                                                                                                                       | ⊕        | -3.5     | -12.8    | +0.7    | +1.7     | ⊕        | -7.6     | -22.1    | -44.9    | 24                              | 7RB                    |
| 0.7                                      | 2.9      | 6.8      | 12.5     | 20.4     | -0.2                                                                                                                       | ⊕        | -3.2     | -11.9    | +0.6    | +1.6     | ⊕        | -7.1     | -20.8    | -42.2    | 24                              | 7RJS                   |
| 3.4                                      | 15.0     | 35.5     | 63.2     | 96.7     | +0.6                                                                                                                       | ⊕        | -12.8    | -46.9    | +3.9    | +6.4     | ⊕        | -27.7    | -81.8    | -167.8   | 18                              | 30CA                   |
| 1.5                                      | 6.4      | 15.2     | 28.7     | 47.3     | +0.2                                                                                                                       | ⊕        | -7.0     | -25.1    | +1.9    | +3.5     | ⊕        | -14.5    | -43.4    | -90.6    | 20                              | 76239B                 |
| 2.0                                      | 8.5      | 20.9     | 40.1     | 66.1     | +0.2                                                                                                                       | ⊕        | -7.2     | -26.7    | +1.9    | +3.6     | ⊕        | -15.9    | -49.1    | -104.5   | 24                              | 3030A                  |
| 1.9                                      | 8.0      | 19.4     | 36.7     | 59.8     | +0.3                                                                                                                       | ⊕        | -8.3     | -29.8    | +2.4    | +4.1     | ⊕        | -17.4    | -52.4    | -109.4   | 24                              | 3030B                  |
| 2.2                                      | 10.1     | 25.4     | 49.4     | 81.6     | +0.1                                                                                                                       | ⊕        | -6.6     | -26.0    | +1.7    | +3.3     | ⊕        | -16.0    | -50.9    | -109.5   | 24                              | 3030C                  |
| 2.7                                      | 10.9     | 25.9     | 48.3     | 76.5     | +0.3                                                                                                                       | ⊕        | -9.1     | -33.6    | +2.6    | +4.5     | ⊕        | -20.0    | -63.5    | -137.4   | 24                              | 3030FS                 |
| 1.1                                      | 4.8      | 11.6     | 21.9     | 36.3     | 0.0                                                                                                                        | ⊕        | -4.8     | -17.6    | +1.2    | +2.4     | ⊕        | -10.4    | -30.9    | -64.4    | 24                              | 300A                   |
| 1.1                                      | 4.6      | 10.9     | 20.3     | 33.3     | +0.1                                                                                                                       | ⊕        | -6.1     | -21.6    | +1.7    | +3.1     | ⊕        | -12.4    | -36.1    | -73.8    | 24                              | 300B                   |
| 1.0                                      | 4.4      | 10.4     | 19.7     | 32.7     | -0.1                                                                                                                       | ⊕        | -3.9     | -14.7    | +0.8    | +2.0     | ⊕        | -8.8     | -26.3    | -54.8    | 24                              | 308A                   |
| 0.9                                      | 3.9      | 9.2      | 17.2     | 28.3     | -0.1                                                                                                                       | ⊕        | -4.6     | -16.5    | +1.1    | +2.3     | ⊕        | -8.7     | -26.3    | -57.8    | 24                              | 308B                   |
| 1.0                                      | 3.9      | 8.9      | 16.4     | 26.8     | -0.1                                                                                                                       | ⊕        | -4.5     | -16.0    | +1.1    | +2.3     | ⊕        | -9.3     | -27.1    | -55.8    | 24                              | 308HS                  |
| 1.0                                      | 4.2      | 9.9      | 18.7     | 31.2     | -0.2                                                                                                                       | ⊕        | -3.6     | -13.6    | +0.7    | +1.8     | ⊕        | -8.2     | -24.4    | -50.9    | 24                              | 3006A                  |
| 0.9                                      | 3.7      | 8.8      | 16.5     | 27.1     | -0.1                                                                                                                       | ⊕        | -4.2     | -15.3    | +1.0    | +2.1     | ⊕        | -9.0     | -26.4    | -54.0    | 24                              | 3006B                  |
| 1.1                                      | 4.5      | 10.8     | 20.5     | 34.4     | -0.3                                                                                                                       | ⊕        | -3.0     | -11.9    | +0.5    | +1.5     | ⊕        | -7.3     | -22.3    | -47.5    | 24                              | 3006CS                 |
| 1.4                                      | 6.0      | 14.3     | 27.2     | 45.0     | -0.1                                                                                                                       | ⊕        | -6.2     | -22.4    | +1.7    | +3.1     | ⊕        | -13.1    | -39.3    | -82.2    | 24                              | 3006HS                 |
| 1.5                                      | 6.4      | 15.7     | 30.4     | 51.2     | -0.1                                                                                                                       | ⊕        | -4.9     | -18.3    | +1.1    | +2.4     | ⊕        | -11.0    | -33.6    | -71.9    | 24                              | 3006JS                 |
| 1.1                                      | 4.0      | 9.5      | 17.5     | 29.0     | -0.2                                                                                                                       | ⊕        | -3.4     | -13.1    | +0.7    | +1.7     | ⊕        | -7.9     | -23.3    | -48.7    | 24                              | 3006SS                 |
| 0.9                                      | 3.6      | 8.4      | 15.7     | 25.7     | -0.1                                                                                                                       | ⊕        | -3.8     | -14.0    | +0.8    | +1.9     | ⊕        | -8.3     | -24.3    | -49.8    | 24                              | 3006TS                 |
| 0.7                                      | 2.8      | 6.6      | 12.3     | 20.0     | -0.2                                                                                                                       | ⊕        | -3.1     | -11.7    | +0.6    | +1.6     | ⊕        | -7.0     | -20.3    | -41.1    | 24                              | 300WBS                 |
| 0.7                                      | 2.7      | 6.3      | 11.5     | 18.9     | -0.3                                                                                                                       | ⊕        | -2.3     | -9.1     | +0.3    | +1.1     | ⊕        | -5.6     | -16.4    | -33.6    | 24                              | 300WCS                 |
| 1.1                                      | 4.5      | 10.6     | 19.9     | 32.7     | 0.0                                                                                                                        | ⊕        | -5.5     | -19.6    | +1.4    | +2.8     | ⊕        | -11.3    | -33.2    | -68.1    | 24                              | 303AS                  |
| 1.0                                      | 4.1      | 9.6      | 18.1     | 29.9     | -0.1                                                                                                                       | ⊕        | -4.4     | -15.9    | +1.0    | +2.2     | ⊕        | -8.4     | -27.6    | -56.8    | 24                              | 303B                   |
| 1.9                                      | 8.4      | 20.3     | 38.6     | 63.0     | +0.3                                                                                                                       | ⊕        | -8.0     | -29.2    | +2.3    | +4.0     | ⊕        | -17.2    | -52.3    | -109.8   | 24                              | 32A                    |
| 2.1                                      | 9.3      | 22.9     | 43.9     | 71.7     | +0.2                                                                                                                       | ⊕        | -7.6     | -28.5    | +2.1    | +3.8     | ⊕        | -17.1    | -52.9    | -111.9   | 24                              | *8A                    |
| 0.8                                      | 3.3      | 7.6      | 14.1     | 23.1     | -0.1                                                                                                                       | ⊕        | -3.8     | -13.8    | +0.8    | +1.9     | ⊕        | -8.2     | -23.7    | -48.2    | 24                              | 339ES                  |
| 5.8                                      | 21.7     | 45.2     | 76.1     | NA       | ⊕                                                                                                                          | -3.4     | -29.7    | -88.2    | +1.7    | ⊕        | -22.8    | -77.9    | -173.8   | -321.4   | 18                              | 357B                   |
| 2.7                                      | 12.0     | 29.0     | 53.3     | 83.3     | +0.5                                                                                                                       | ⊕        | -10.7    | -39.3    | +3.2    | +5.4     | ⊕        | -23.3    | -70.0    | -144.0   | 24                              | 35A                    |
| 1.1                                      | 4.5      | 10.8     | 20.3     | 33.7     | -0.4                                                                                                                       | ⊕        | -5.5     | -18.4    | +1.0    | +2.4     | ⊕        | -10.9    | -33.3    | -71.2    | 24                              | 375A                   |
| 1.2                                      | 5.0      | 11.9     | 22.4     | 37.1     | +0.5                                                                                                                       | ⊕        | -6.3     | -21.2    | +1.3    | +2.6     | ⊕        | -11.2    | -33.3    | -69.1    | 24                              | 375B                   |
| 4.2                                      | 17.8     | 39.8     | 68.3     | 102.5    | ⊕                                                                                                                          | -2.2     | -21.7    | -67.2    | +1.1    | ⊕        | -17.4    | -60.7    | -136.0   | -250.2   | 20                              | 44A                    |
| 1.7                                      | 7.6      | 18.6     | 35.7     | NA       | ⊕                                                                                                                          | -1.3     | -14.1    | -43.7    | +0.7    | ⊕        | -11.5    | -39.7    | -89.1    | -163.1   | 24                              | 4570AS                 |

Registered trademark of Sierra Bullets, Inc.

| WIND DRIFT IN INCHES<br>10 MPH CROSSWIND |          |          |          |          | HEIGHT OF BULLET TRAJECTORY IN INCHES ABOVE OR BELOW LINE OF SIGHT IF ZEROED AT ⊕ YARDS. SIGHTS 1.5 INCHES ABOVE BORE LINE |          |          |          |         |          |          |          |          |          | TEST BARREL<br>LENGTH<br>INCHES | FEDERAL<br>LOAD<br>NO. |
|------------------------------------------|----------|----------|----------|----------|----------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|---------|----------|----------|----------|----------|----------|---------------------------------|------------------------|
| 100 YDS.                                 | 200 YDS. | 300 YDS. | 400 YDS. | 500 YDS. | 50 YDS.                                                                                                                    | 100 YDS. | 200 YDS. | 300 YDS. | 50 YDS. | 100 YDS. | 200 YDS. | 300 YDS. | 400 YDS. | 500 YDS. |                                 |                        |
| 0.8                                      | 3.3      | 7.8      | 14.5     | 24.0     | -0.3                                                                                                                       | ⊕        | -2.5     | -9.9     | +0.3    | +1.3     | ⊕        | -6.1     | -18.3    | -37.8    | 24                              | AE223                  |
| 1.3                                      | 5.5      | 13.4     | 26.1     | 44.9     | -0.3                                                                                                                       | ⊕        | -2.7     | -11.1    | +0.4    | +1.3     | ⊕        | -7.1     | -22.7    | -50.7    | 24                              | AE223G                 |
| 1.2                                      | 5.0      | 12.2     | 23.3     | 39.2     | -0.2                                                                                                                       | ⊕        | -3.5     | -13.5    | 0.7     | 1.7      | ⊕        | -8.4     | -25.5    | -54.7    | 24                              | AE223N                 |
| 3.4                                      | 15.0     | 35.5     | 63.2     | 96.7     | +0.6                                                                                                                       | ⊕        | -12.8    | -46.9    | +3.9    | +6.4     | ⊕        | -27.7    | -81.8    | -167.8   | 18                              | AE30CB                 |
| 1.5                                      | 6.2      | 15.1     | 28.3     | 46.8     | +0.2                                                                                                                       | ⊕        | -6.9     | -25.0    | +1.9    | +3.5     | ⊕        | -14.6    | -43.5    | -91.5    | 20                              | AE76239A               |
| 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                              | AE308B                 |
| 0.7                                      | 2.8      | 6.5      | 12.1     | 19.5     | -0.2                                                                                                                       | ⊕        | -3.2     | -12.0    | +0.6    | +1.6     | ⊕        | -7.1     | -20.8    | -41.9    | 24                              | AE306N                 |

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 (58°F temperature; barometric pressure of 29.53 inches; altitude at sea level). Shooters are cautioned that actual trajectories may differ due to variations in altitude, atmospheric conditions, guns, sights, and ammunition.

# PREMIUM® HANDGUN



Premium Handgun ammunition increasingly has become the choice of law enforcement personnel, and of knowledgeable shooters buying ammunition for personal defense or handgun hunting. Power, accuracy, reliability – these are the hallmarks of Premium Handgun cartridges. And the exclusive bullet choices ensure the right load for the task. When you have to be sure . . . be sure you're shooting Federal.

## Premium Bullet Choices



### Hydra-Shok®

The choice of many law enforcement agencies nationwide. Federal's unique center-post design delivers controlled expansion, and the notched jacket provides efficient energy transfer to penetrate barriers while retaining sufficient stopping power. The deep penetration of this jacketed bullet satisfies even the FBI's stringent testing requirements.



### Premium Personal Defense®

We hope you'll never have to use our Premium Personal Defense ammunition in a critical situation. But if you do, you'll appreciate the increased muzzle velocity and energy compared to standard loads, and the rapid bullet expansion that delivers instant stopping power. You'll also appreciate that recoil is significantly reduced. In addition, our unique clear packaging lets you see the ammo before you even open the box.



### Premium Expanding Full Metal Jacket

This revolutionary design combines a scored full metal nose over an internal rubber tip that collapses on impact. It assures expansion on every shot. A base lead core assures weight retention.



### Premium Nyclad®

This unique load protects you, your handgun and the environment all at the same time. The patented nylon-clad bullet eliminates bore leading, reduces airborne lead and provides the accuracy and stopping power favored by many law enforcement officials.

## Premium Handgun Hunting

Hunting with a handgun puts everything to the test: patience, hunting skills, and nerve . . . not to mention the ammunition. You want ammo you can depend on, that's why so many handgun hunters count on Federal Premium to deliver the power and accuracy they need.



### CastCore™

Premium CastCore gives you a heavyweight, flat-nosed, hard cast-lead bullet that smashes through bone, without breaking apart. Its high velocity and heavy bullet weight delivers more downrange stopping power and nickel-plated cases help prevent corrosion.



### Trophy Bonded Bear Claw®

Federal is introducing a new powerful .454 Casull load that features the Trophy Bonded bullet. It has a fusion-bonded jacket and core for up to 95% weight retention, better penetration and more knockdown power.

# HANDGUN BALLISTICS

## PREMIUM® HYDRA-SHOK®

| USAGE | FEDERAL LOAD NO. | 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) |         |         |         |          | MID-RANGE TRAJECTORY |         |         |          | TEST BARREL LENGTH INCHES |
|-------|------------------|-------------------------------|-----------------------------|-------|-----------------------|--------------------|-------------------------------------------------|---------|---------|---------|----------|--------------------------------------------------|---------|---------|---------|----------|----------------------|---------|---------|----------|---------------------------|
|       |                  |                               |                             |       |                       |                    | MUZZLE                                          | 25 YDS. | 50 YDS. | 75 YDS. | 100 YDS. | MUZZLE                                           | 25 YDS. | 50 YDS. | 75 YDS. | 100 YDS. | 25 YDS.              | 50 YDS. | 75 YDS. | 100 YDS. |                           |
| 6     | P32HS1           | 32 Auto (7.65mm Browning)     | 65                          | 4.21  | Hydra-Shok JHP        | 100                | 950                                             | 920     | 890     | 860     | 830      | 130                                              | 120     | 115     | 105     | 100      | 0.3                  | 1.3     | 3.0     | 5.6      | 4                         |
| 6     | P9HS1            | 9mm Luger (9x19mm Parabellum) | 124                         | 8.03  | Hydra-Shok JHP        | 200                | 1120                                            | 1070    | 1030    | 990     | 960      | 345                                              | 315     | 290     | 270     | 255      | 0.2                  | 0.9     | 2.2     | 4.1      | 4                         |
| 6     | P9HS2            | 9mm Luger (9x19mm Parabellum) | 147                         | 9.52  | Hydra-Shok JHP        | 200                | 1000                                            | 960     | 920     | 890     | 860      | 325                                              | 300     | 275     | 260     | 240      | 0.3                  | 1.2     | 2.8     | 5.1      | 4                         |
| 6     | P38HS1           | 38 Special (High Velocity +P) | 129                         | 8.36  | Hydra-Shok JHP        | 100                | 950                                             | 930     | 910     | 890     | 870      | 255                                              | 245     | 235     | 225     | 215      | 0.3                  | 1.3     | 2.9     | 5.3      | 4-V                       |
| 6     | P357S1           | 357 Sig                       | 125                         | 8.10  | Jacketed Hollow Point | 200                | 1350                                            | 1270    | 1190    | 1130    | 1080     | 510                                              | 445     | 395     | 355     | 325      | 0.2                  | 0.7     | 1.6     | 3.1      | 4                         |
| 6     | P357S3           | 357 Sig                       | 150                         | 9.72  | Jacketed Hollow Point | 200                | 1130                                            | 1080    | 1030    | 1000    | 970      | 420                                              | 385     | 355     | 330     | 310      | 0.2                  | 0.9     | 2.1     | 4.0      | 4                         |
| 6     | P357HS1          | 357 Magnum                    | 158                         | 10.23 | Hydra-Shok JHP        | 100                | 1240                                            | 1160    | 1100    | 1060    | 1020     | 535                                              | 475     | 430     | 395     | 365      | 0.2                  | 0.8     | 1.9     | 3.5      | 4-V                       |
| 6     | P40HS1           | 40 S&W                        | 180                         | 11.66 | Hydra-Shok JHP        | 100                | 990                                             | 960     | 930     | 910     | 890      | 390                                              | 365     | 345     | 330     | 315      | 0.3                  | 1.2     | 2.8     | 5.0      | 4                         |
| 6     | P40HS2           | 40 S&W                        | 155                         | 10.04 | Hydra-Shok JHP        | 100                | 1140                                            | 1080    | 1030    | 990     | 950      | 445                                              | 400     | 365     | 335     | 315      | 0.2                  | 0.9     | 2.2     | 4.1      | 4                         |
| 6     | P40HS3           | 40 S&W                        | 165                         | 10.66 | Hydra-Shok JHP        | 100                | 980                                             | 950     | 930     | 910     | 890      | 350                                              | 330     | 315     | 300     | 290      | 0.3                  | 1.2     | 2.7     | 5.1      | 4                         |
| 6     | P10HS1           | 10mm Auto                     | 180                         | 11.66 | Hydra-Shok JHP        | 150                | 1030                                            | 1000    | 970     | 950     | 920      | 425                                              | 400     | 375     | 355     | 340      | 0.3                  | 1.1     | 2.5     | 4.7      | 5                         |
| 6     | P45HS1           | 45 Auto                       | 230                         | 14.90 | Hydra-Shok JHP        | 150                | 850                                             | 830     | 810     | 790     | 770      | 370                                              | 350     | 335     | 320     | 305      | 0.4                  | 1.6     | 3.6     | 6.6      | 5                         |
| 6     | P44HS1           | 44 Rem. Magnum                | 240                         | 15.55 | Hydra-Shok JHP        | 150                | 1180                                            | 1130    | 1080    | 1050    | 1010     | 740                                              | 675     | 625     | 580     | 550      | 0.2                  | 0.9     | 2.0     | 3.7      | 6½-V                      |

+ P ammunition is loaded to a higher pressure. Use only in firearms recommended by the gun manufacturer. \*JHP = Jacketed Hollow Point "V" indicates vented barrel to simulate service conditions.

## PREMIUM® PERSONAL DEFENSE®

| USAGE | FEDERAL LOAD NO. | 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) |         |         |         |          | MID-RANGE TRAJECTORY |         |         |          | TEST BARREL LENGTH INCHES |
|-------|------------------|-------------------------------|-----------------------------|-------|----------------|--------------------|-------------------------------------------------|---------|---------|---------|----------|--------------------------------------------------|---------|---------|---------|----------|----------------------|---------|---------|----------|---------------------------|
|       |                  |                               |                             |       |                |                    | MUZZLE                                          | 25 YDS. | 50 YDS. | 75 YDS. | 100 YDS. | MUZZLE                                           | 25 YDS. | 50 YDS. | 75 YDS. | 100 YDS. | 25 YDS.              | 50 YDS. | 75 YDS. | 100 YDS. |                           |
| 6     | PD30HS3          | 38 Special                    | 110                         | 7.10  | Hydra-Shok JHP | 100                | 1000                                            | 970     | 930     | 910     | 880      | 245                                              | 225     | 215     | 200     | 190      | 0.3                  | 1.2     | 2.7     | 5.0      | 4-V                       |
| 6     | PD357HS2         | 357 Magnum                    | 130                         | 8.42  | Hydra-Shok JHP | 100                | 1300                                            | 1210    | 1130    | 1070    | 1020     | 490                                              | 420     | 370     | 330     | 300      | 0.2                  | 0.7     | 1.8     | 3.4      | 4-V                       |
| 6     | PD380HS1         | 380 Auto (9x17mm Short)       | 90                          | 5.83  | Hydra-Shok JHP | 100                | 1000                                            | 940     | 890     | 840     | 800      | 200                                              | 175     | 160     | 140     | 130      | 0.3                  | 1.2     | 2.9     | 5.5      | 3¼                        |
| 6     | PD9HS5           | 9mm Luger (9x19mm Parabellum) | 135                         | 8.75  | Hydra-Shok JHP | 100                | 1050                                            | 1030    | 1010    | 980     | 970      | 330                                              | 315     | 300     | 290     | 280      | 0.4                  | 1.2     | 2.4     | 4.3      | 4                         |
| 6     | PD40HS4          | 40 S&W                        | 135                         | 8.75  | Hydra-Shok JHP | 100                | 1180                                            | 1050    | 970     | 900     | 850      | 420                                              | 330     | 280     | 245     | 215      | 0.2                  | 1.0     | 2.4     | 4.6      | 4                         |
| 6     | PD45HS3          | 45 Auto                       | 165                         | 10.66 | Hydra-Shok JHP | 150                | 1080                                            | 1020    | 980     | 950     | 920      | 410                                              | 375     | 350     | 330     | 310      | 0.2                  | 1.1     | 2.5     | 4.5      | 5                         |

\*JHP = Jacketed Hollow Point "V" indicates vented barrel to simulate service conditions.

## PREMIUM® EXPANDING FULL METAL JACKET

|     | USAGE | FEDERAL<br>LOAD<br>NO. | CALIBER | BULLET WGT. IN<br>GRAINS      GRAMS |        | BULLET STYLE*     | FACTORY<br>PRIMER<br>NO. | VELOCITY IN FEET PER SECOND<br>(TO NEAREST 10 FPS) |         |         |         |          | ENERGY IN FOOT-POUNDS<br>(TO NEAREST 5 FOOT-POUNDS) |         |         |         |          | MID-RANGE TRAJECTORY |         |         |          | TEST<br>BARREL<br>LENGTH<br>INCHES |
|-----|-------|------------------------|---------|-------------------------------------|--------|-------------------|--------------------------|----------------------------------------------------|---------|---------|---------|----------|-----------------------------------------------------|---------|---------|---------|----------|----------------------|---------|---------|----------|------------------------------------|
|     |       |                        |         |                                     |        |                   |                          | MUZZLE                                             | 25 YDS. | 50 YDS. | 75 YDS. | 100 YDS. | MUZZLE                                              | 25 YDS. | 50 YDS. | 75 YDS. | 100 YDS. | 25 YDS.              | 50 YDS. | 75 YDS. | 100 YDS. |                                    |
| NEW | 6     | P9CSP1                 | 9mm+P   | 124                                 | 8.03   | Full Metal Jacket | 200                      | 1120                                               | 1070    | 1030    | 990     | 960      | 345                                                 | 315     | 290     | 270     | 255      | 0.2                  | 0.9     | 2.2     | 4.1      | 4                                  |
| NEW | 6     | P40CSP1                | 40 S&W  | 165                                 | 10.667 | Full Metal Jacket | 100                      | 1050                                               | 1020    | 990     | 960     | 935      | 405                                                 | 380     | 355     | 335     | 320      | 0.3                  | 1.2     | 2.7     | 4.8      | 4                                  |

\*JHP = Jacketed Hollow Point "V" indicates vented barrel to simulate service conditions.

## PREMIUM® NYCLAD®

| USAGE | FEDERAL LOAD NO. | 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) |         |         |         |          | MID-RANGE TRAJECTORY |         |         |          | TEST BARREL LENGTH INCHES |
|-------|------------------|-------------------------------|-----------------------------|-------|---------------------|--------------------|-------------------------------------------------|---------|---------|---------|----------|--------------------------------------------------|---------|---------|---------|----------|----------------------|---------|---------|----------|---------------------------|
|       |                  |                               |                             |       |                     |                    | MUZZLE                                          | 25 YDS. | 50 YDS. | 75 YDS. | 100 YDS. | MUZZLE                                           | 25 YDS. | 50 YDS. | 75 YDS. | 100 YDS. | 25 YDS.              | 50 YDS. | 75 YDS. | 100 YDS. |                           |
| 6     | P9BP             | 9mm Luger (9x19mm Parabellum) | 124                         | 8.03  | Nyclad Hollow Point | 200                | 1120                                            | 1070    | 1030    | 990     | 960      | 345                                              | 315     | 290     | 270     | 255      | 0.2                  | 0.9     | 2.2     | 4.1      | 4                         |
| 5     | P38B             | 38 Special                    | 158                         | 10.23 | Nyclad Round Nose   | 100                | 760                                             | 740     | 720     | 710     | 690      | 200                                              | 190     | 185     | 175     | 170      | 0.5                  | 2.0     | 4.6     | 8.3      | 4-V                       |
| 1,6   | P38G             | 38 Special (High Velocity +P) | 158                         | 10.23 | Nyclad SWC-HP       | 100                | 890                                             | 870     | 860     | 840     | 820      | 270                                              | 265     | 260     | 245     | 235      | 0.3                  | 1.4     | 3.3     | 5.9      | 4-V                       |
| 6     | P38M             | 38 Special                    | 125                         | 8.10  | Nyclad Hollow Point | 100                | 830                                             | 780     | 730     | 690     | 650      | 190                                              | 170     | 150     | 130     | 115      | 0.4                  | 1.8     | 4.3     | 8.1      | 2-V                       |
| 1,6   | P38N             | 38 Special (High Velocity +P) | 125                         | 8.10  | Nyclad Hollow Point | 100                | 950                                             | 920     | 900     | 880     | 860      | 250                                              | 235     | 225     | 215     | 205      | 0.3                  | 1.3     | 2.9     | 5.4      | 4-V                       |

+ P ammunition is loaded to a higher pressure. Use only in firearms recommended by the gun manufacturer. \*SWC = Semi-wadcutter HP = Hollow Point \*\*TMF = Toxic-Metal Free "V" indicates vented barrel to simulate service conditions.

## PREMIUM® HANDGUN HUNTING

| USAGE | FEDERAL LOAD NO. | 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) |         |         |         |          | MID-RANGE TRAJECTORY |         |         |          | TEST BARREL LENGTH INCHES |
|-------|------------------|----------------|-----------------------------|-------|-------------------------|--------------------|-------------------------------------------------|---------|---------|---------|----------|--------------------------------------------------|---------|---------|---------|----------|----------------------|---------|---------|----------|---------------------------|
|       |                  |                |                             |       |                         |                    | MUZZLE                                          | 25 YDS. | 50 YDS. | 75 YDS. | 100 YDS. | MUZZLE                                           | 25 YDS. | 50 YDS. | 75 YDS. | 100 YDS. | 25 YDS.              | 50 YDS. | 75 YDS. | 100 YDS. |                           |
| 2     | P357J            | 357 Magnum     | 180                         | 11.66 | CastCore                | 100                | 1250                                            | 1200    | 1160    | 1120    | 1080     | 625                                              | 575     | 535     | 495     | 465      | 0.5                  | 1.1     | 0.0     | -2.8     | 7½-V                      |
| 2     | P41B             | 41 Rem. Magnum | 250                         | 16.20 | CastCore                | 150                | 1250                                            | 1200    | 1150    | 1110    | 1080     | 865                                              | 795     | 735     | 685     | 645      | 0.6                  | 1.1     | 0.0     | -2.9     | 7½-V                      |
| 2     | P44E             | 44 Rem. Magnum | 300                         | 19.44 | CastCore                | 150                | 1250                                            | 1200    | 1160    | 1120    | 1080     | 1040                                             | 960     | 885     | 825     | 775      | 0.5                  | 1.1     | 0.0     | -2.8     | 7½-V                      |
| 2     | P454T1           | 454 Casull     | 300                         | 19.44 | Trophy Bonded Bear Claw | 205                | 1650                                            | 1540    | 1450    | 1380    | 1300     | 1760                                             | 1570    | 1405    | 1260    | 1130     | 0.0                  | 0.5     | 0.0     | -1.7     | 7½-V                      |

Usage Key: 1 =Varmints, predators, small game 2 =Medium game 3 =Large, heavy game 4 = Dangerous game 5 = Target shooting, training, practice 6 = Self defense

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



## CLASSIC® HANDGUN



Handgun ammunition is serious business. And we take it very seriously. There's a wide assortment of bullet profiles and weights, in a broad range of calibers, to assure a Classic load for every situation, from self-defense to hunting to target shooting. And our legendary dedication to quality ensures consistent performance, time after time.

### Classic Bullet Choices



#### **Lead Round Nose**

A great economical training round for practicing at the range. It dates back to the early part of this century. This bullet is 100% lead with no jacket. It provides excellent accuracy and is very economical.



#### **Full Metal Jacket**

A good choice for range practice and reducing lead fouling in the barrel. The jacket extends from the nose to the base, preventing bullet expansion and barrel leading. It is used primarily as military ammunition and for recreational shooting.



#### **Hi-Shok® Jacketed Soft Point**

It's a proven performer on small to medium-sized game.



#### **Lead Semi-Wadcutter**

The most popular all-around choice for target and personal defense. A versatile design which cuts clean holes in targets and efficiently transfers energy.



#### **Hi-Shok Jacketed Hollow Point**

It's an ideal personal defense round in revolvers and semi-autos. Creates quick, positive expansion with proven accuracy. Specially designed jacket ensures smooth feeding in autoloading firearms.



#### **Semi-Wadcutter Hollow Point**

A good combination for both small game and personal defense. Hollow point design promotes uniform expansion.

## AMERICAN EAGLE® HANDGUN



If you like punching a lot of holes in paper, you'll appreciate the value in our American Eagle line of ammunition. It's made to provide you with maximum fun at minimum cost. You'll find it in calibers from 25 Auto to 45 Auto, plus the most popular revolver calibers.

| C L A S S I C ® H A N D G U N B A L L I S T I C S |                        |                               |                  |                  |                     |                          |                                                    |         |         |          |        |                                                     |         |         |          |                                    |
|---------------------------------------------------|------------------------|-------------------------------|------------------|------------------|---------------------|--------------------------|----------------------------------------------------|---------|---------|----------|--------|-----------------------------------------------------|---------|---------|----------|------------------------------------|
| R E V O L V E R                                   |                        |                               |                  |                  |                     |                          |                                                    |         |         |          |        |                                                     |         |         |          |                                    |
| USAGE                                             | FEDERAL<br>LOAD<br>NO. | CALIBER                       | BULLET<br>GRAINS | WGT. IN<br>GRAMS | BULLET STYLE**      | FACTORY<br>PRIMER<br>NO. | VELOCITY IN FEET PER SECOND<br>(TO NEAREST 10 FPS) |         |         |          | MUZZLE | ENERGY IN FOOT-POUNDS<br>(TO NEAREST 5 FOOT-POUNDS) |         |         |          | TEST<br>BARREL<br>LENGTH<br>INCHES |
|                                                   |                        |                               |                  |                  |                     |                          | 25 YDS.                                            | 50 YDS. | 75 YDS. | 100 YDS. |        | 25 YDS.                                             | 50 YDS. | 75 YDS. | 100 YDS. |                                    |
| 5                                                 | C32LA                  | 32 S&W Long                   | 98               | 6.35             | Lead Wadcutter      | 100                      | 780                                                | 700     | 630     | 560      | 500    | 130                                                 | 105     | 85      | 70       | 55                                 |
| 5                                                 | C32LB                  | 32 S&W Long                   | 98               | 6.35             | Lead Round Nose     | 100                      | 710                                                | 690     | 670     | 650      | 640    | 115                                                 | 105     | 100     | 95       | 90                                 |
| 6                                                 | C32HRA                 | 32 H&R Magnum                 | 95               | 6.15             | Lead Semi-Wadcutter | 100                      | 1030                                               | 1000    | 940     | 930      | 900    | 225                                                 | 210     | 195     | 185      | 170                                |
| 6                                                 | C32HRB                 | 32 H&R Magnum                 | 85               | 5.50             | Hi-Shok JHP         | 100                      | 1100                                               | 1050    | 1020    | 970      | 930    | 230                                                 | 210     | 195     | 175      | 165                                |
| 5                                                 | C38B                   | 38 Special                    | 158              | 10.23            | Lead Round Nose     | 100                      | 780                                                | 740     | 720     | 710      | 690    | 200                                                 | 190     | 185     | 175      | 170                                |
| 5,6                                               | C38C                   | 38 Special                    | 158              | 10.23            | Lead Semi-Wadcutter | 100                      | 760                                                | 740     | 720     | 710      | 690    | 200                                                 | 190     | 185     | 175      | 170                                |
| 1,6                                               | C38E                   | 38 Special (High-Velocity+P)  | 125              | 8.10             | Hi-Shok JHP         | 100                      | 950                                                | 920     | 900     | 880      | 860    | 250                                                 | 235     | 225     | 215      | 205                                |
| 1,6                                               | C38F                   | 38 Special (High-Velocity+P)  | 110              | 7.13             | Hi-Shok JHP         | 100                      | 1000                                               | 960     | 930     | 900      | 870    | 240                                                 | 225     | 210     | 195      | 185                                |
| 1,6                                               | C38G                   | 38 Special (High-Velocity+P)  | 158              | 10.23            | Semi-Wadcutter HP   | 100                      | 890                                                | 870     | 860     | 840      | 820    | 280                                                 | 265     | 260     | 245      | 235                                |
| 5,6                                               | C38H                   | 38 Special (High-Velocity+P)  | 158              | 10.23            | Lead Semi-Wadcutter | 100                      | 890                                                | 870     | 860     | 840      | 820    | 270                                                 | 265     | 260     | 245      | 235                                |
| 1,6                                               | C38J                   | 38 Special (High-Velocity+P)  | 125              | 8.10             | Hi-Shok JSP         | 100                      | 950                                                | 920     | 900     | 880      | 860    | 250                                                 | 235     | 225     | 215      | 205                                |
| 2,6                                               | C357A                  | 357 Magnum                    | 158              | 10.23            | Hi-Shok JSP         | 100                      | 1240                                               | 1160    | 1100    | 1060     | 1020   | 535                                                 | 475     | 430     | 395      | 365                                |
| 1,6                                               | C357B                  | 357 Magnum                    | 125              | 8.10             | Hi-Shok JHP         | 100                      | 1450                                               | 1350    | 1240    | 1160     | 1100   | 580                                                 | 495     | 430     | 370      | 335                                |
| 5                                                 | C357C                  | 357 Magnum                    | 158              | 10.23            | Lead Semi-Wadcutter | 100                      | 1240                                               | 1160    | 1100    | 1060     | 1020   | 535                                                 | 475     | 430     | 395      | 365                                |
| 1,6                                               | C357D                  | 357 Magnum                    | 110              | 7.13             | Hi-Shok JHP         | 100                      | 1300                                               | 1180    | 1090    | 1040     | 990    | 410                                                 | 340     | 290     | 260      | 235                                |
| 2,6                                               | C357E                  | 357 Magnum                    | 158              | 10.23            | Hi-Shok JHP         | 100                      | 1240                                               | 1160    | 1100    | 1060     | 1020   | 535                                                 | 475     | 430     | 395      | 365                                |
| 2                                                 | C357G                  | 357 Magnum                    | 180              | 11.66            | Hi-Shok JHP         | 100                      | 1090                                               | 1030    | 980     | 930      | 890    | 475                                                 | 425     | 385     | 350      | 320                                |
| 1,6                                               | C41A                   | 41 Rem. Magnum                | 210              | 13.60            | Hi-Shok JHP         | 150                      | 1300                                               | 1210    | 1130    | 1070     | 1030   | 790                                                 | 680     | 595     | 540      | 495                                |
| 1,6                                               | C44SA                  | 44 S&W Special                | 200              | 12.96            | Semi-Wadcutter HP   | 150                      | 900                                                | 860     | 830     | 800      | 770    | 360                                                 | 330     | 305     | 285      | 260                                |
| 2,6                                               | C44A                   | 44 Rem. Magnum                | 240              | 15.55            | Hi-Shok JHP         | 150                      | 1180                                               | 1130    | 1080    | 1050     | 1010   | 740                                                 | 675     | 625     | 580      | 550                                |
| 1,2                                               | C44B                   | 44 Rem. Magnum                | 180              | 11.66            | Hi-Shok JHP         | 150                      | 1610                                               | 1480    | 1370    | 1270     | 1180   | 1035                                                | 875     | 750     | 640      | 555                                |
| 1,6                                               | C45LCA                 | 45 Colt                       | 225              | 14.58            | Semi-Wadcutter HP   | 150                      | 900                                                | 880     | 860     | 840      | 820    | 405                                                 | 385     | 370     | 355      | 340                                |
| P I S T O L                                       |                        |                               |                  |                  |                     |                          |                                                    |         |         |          |        |                                                     |         |         |          |                                    |
| 5,6                                               | B25AP**                | 25 Auto (6.35mm Browning)     | 50               | 3.24             | Full Metal Jacket   | 200                      | 760                                                | 750     | 730     | 720      | 700    | 85                                                  | 60      | 60      | 55       | 55                                 |
| 5,6                                               | B32AP**                | 32 Auto (7.65mm Browning)     | 71               | 4.60             | Full Metal Jacket   | 100                      | 910                                                | 880     | 860     | 830      | 810    | 130                                                 | 120     | 115     | 110      | 105                                |
| 5,6                                               | C380AP                 | 380 Auto (9x17mm Short)       | 95               | 6.15             | Full Metal Jacket   | 100                      | 960                                                | 910     | 870     | 830      | 790    | 190                                                 | 175     | 160     | 145      | 130                                |
| 6                                                 | C380BP                 | 380 Auto (9x17mm Short)       | 90               | 5.83             | Hi-Shok JHP         | 100                      | 1000                                               | 940     | 890     | 840      | 800    | 200                                                 | 175     | 160     | 140      | 130                                |
| 6                                                 | C9MMK                  | 9mm Makarov (9x18 Makarov)    | 90               | 5.83             | Hi-Shok JHP         | 100                      | 990                                                | 950     | 910     | 880      | 850    | 195                                                 | 180     | 165     | 155      | 145                                |
| 5,6                                               | C9AP                   | 9mm Luger (9x19mm Parabellum) | 124              | 8.03             | Full Metal Jacket   | 200                      | 1120                                               | 1070    | 1030    | 990      | 960    | 345                                                 | 315     | 290     | 270      | 255                                |
| 6                                                 | C9BP                   | 9mm Luger (9x19mm Parabellum) | 115              | 7.45             | Hi-Shok JHP         | 200                      | 1160                                               | 1100    | 1060    | 1020     | 990    | 345                                                 | 310     | 285     | 270      | 250                                |
| 6                                                 | C9MS                   | 9mm Luger (9x19mm Parabellum) | 147              | 9.52             | Hi-Shok JHP         | 200                      | 980                                                | 950     | 930     | 900      | 880    | 310                                                 | 295     | 285     | 265      | 255                                |
| 6                                                 | C957S2                 | 357 Sig                       | 125              | 8.10             | Full Metal Jacket   | 200                      | 1350                                               | 1270    | 1190    | 1130     | 1080   | 510                                                 | 445     | 395     | 355      | 325                                |
| 6                                                 | C40SWA                 | 40 S&W                        | 180              | 11.66            | Hi-Shok JHP         | 100                      | 990                                                | 960     | 930     | 910      | 890    | 390                                                 | 365     | 345     | 330      | 315                                |
| 6                                                 | C40SWB                 | 40 S&W                        | 155              | 10.04            | Hi-Shok JHP         | 100                      | 1140                                               | 1080    | 1030    | 990      | 950    | 445                                                 | 400     | 365     | 335      | 315                                |
| 6                                                 | C10C                   | 10mm Auto                     | 180              | 11.66            | Hi-Shok JHP         | 150                      | 1030                                               | 1000    | 970     | 950      | 920    | 425                                                 | 400     | 375     | 355      | 340                                |
| 6                                                 | C10E                   | 10mm Auto                     | 155              | 10.04            | Hi-Shok JHP         | 150                      | 1330                                               | 1230    | 1140    | 1080     | 1030   | 605                                                 | 515     | 450     | 400      | 360                                |
| 6                                                 | C45A                   | 45 Auto                       | 230              | 14.90            | Full Metal Jacket   | 150                      | 850                                                | 830     | 810     | 790      | 770    | 370                                                 | 350     | 335     | 320      | 305                                |
| 6                                                 | C45C                   | 45 Auto                       | 185              | 11.99            | Hi-Shok JHP         | 150                      | 950                                                | 920     | 900     | 880      | 860    | 370                                                 | 350     | 335     | 315      | 300                                |
| 6                                                 | C45D                   | 45 Auto                       | 230              | 14.90            | Hi-Shok JHP         | 150                      | 850                                                | 830     | 810     | 790      | 770    | 370                                                 | 350     | 335     | 320      | 300                                |

+ P ammunition is loaded to a higher pressure. Use only in firearms recommended by the gun manufacturer. "V" indicates vented barrel to simulate service conditions.

\*\*JHP = Jacketed Hollow Point HP = Hollow Point JSP = Jacketed Soft Point JHP = Jacketed Hollow Point \*\*50 Round Box

| A M E R I C A N E A G L E ® H A N D G U N |                        |                               |                  |                  |                            |                          |                                                    |         |         |          |        |                                                     |         |         |          |                                    |
|-------------------------------------------|------------------------|-------------------------------|------------------|------------------|----------------------------|--------------------------|----------------------------------------------------|---------|---------|----------|--------|-----------------------------------------------------|---------|---------|----------|------------------------------------|
| R E V O L V E R                           |                        |                               |                  |                  |                            |                          |                                                    |         |         |          |        |                                                     |         |         |          |                                    |
| USAGE                                     | FEDERAL<br>LOAD<br>NO. | CALIBER                       | BULLET<br>GRAINS | WGT. IN<br>GRAMS | BULLET STYLE               | FACTORY<br>PRIMER<br>NO. | VELOCITY IN FEET PER SECOND<br>(TO NEAREST 10 FPS) |         |         |          | MUZZLE | ENERGY IN FOOT-POUNDS<br>(TO NEAREST 5 FOOT-POUNDS) |         |         |          | TEST<br>BARREL<br>LENGTH<br>INCHES |
|                                           |                        |                               |                  |                  |                            |                          | 25 YDS.                                            | 50 YDS. | 75 YDS. | 100 YDS. |        | 25 YDS.                                             | 50 YDS. | 75 YDS. | 100 YDS. |                                    |
| 5                                         | AE38B                  | 38 Special                    | 158              | 10.23            | Lead Round Nose            | 100                      | 760                                                | 740     | 720     | 710      | 690    | 200                                                 | 190     | 185     | 175      | 170                                |
| 5                                         | AE38K                  | 38 Special                    | 130              | 8.43             | Full Metal Jacket          | 100                      | 950                                                | 920     | 890     | 870      | 840    | 260                                                 | 245     | 230     | 215      | 205                                |
| 2,6                                       | AE357A                 | 357 Magnum                    | 158              | 10.23            | Jacketed Soft Point        | 100                      | 1240                                               | 1160    | 1100    | 1060     | 1020   | 535                                                 | 475     | 430     | 395      | 365                                |
| 2,6                                       | AE44A                  | 44 Rem. Magnum                | 240              | 15.55            | Jacketed Hollow Point      | 150                      | 1180                                               | 1130    | 1080    | 1050     | 1010   | 740                                                 | 675     | 625     | 580      | 550                                |
| P I S T O L                               |                        |                               |                  |                  |                            |                          |                                                    |         |         |          |        |                                                     |         |         |          |                                    |
| 5                                         | AE25AP                 | 25 Auto (6.35mm Browning)     | 50               | 3.24             | Full Metal Jacket          | 200                      | 760                                                | 750     | 730     | 720      | 700    | 85                                                  | 60      | 60      | 55       | 55                                 |
| 5                                         | AE32AP                 | 32 Auto (7.65mm Browning)     | 71               | 4.60             | Full Metal Jacket          | 100                      | 910                                                | 880     | 860     | 830      | 810    | 130                                                 | 120     | 115     | 110      | 105                                |
| 5                                         | AE380AP                | 380 Auto (9 x 17 short)       | 95               | 6.15             | Full Metal Jacket          | 100                      | 960                                                | 910     | 870     | 830      | 790    | 190                                                 | 175     | 160     | 145      | 130                                |
| 5                                         | AE9AP                  | 9mm Luger (9 x 19 Parabellum) | 124              | 8.03             | Full Metal Jacket          | 200                      | 1120                                               | 1070    | 1030    | 990      | 960    | 345                                                 | 315     | 290     | 270      | 255                                |
| 5                                         | AE9BP                  | 9mm Luger (9 x 19 Parabellum) | 115              | 7.45             | Full Metal Jacket          | 200                      | 1160                                               | 1100    | 1060    | 1020     | 990    | 345                                                 | 310     | 285     | 270      | 250                                |
| 5                                         | AE9FP                  | 9mm Luger (9 x 19 Parabellum) | 147              | 9.52             | Full Metal Jacket Flat Pt. | 200                      | 960                                                | 930     | 910     | 890      | 870    | 295                                                 | 280     | 270     | 260      | 250                                |
| 5                                         | AE9N1                  | 9mm Luger (9 x 19 Parabellum) | 124              | 8.04             | TMJ TMF Primer*            | 205TMF                   | 1120                                               | 1070    | 1030    | 990      | 960    | 345                                                 | 315     | 290     | 270      | 255                                |
| 5                                         | AE9N2                  | 9mm Luger (9 x 19 Parabellum) | 147              | 9.53             | TMJ TMF Primer*            | 205TMF                   | 960                                                | 940     | 910     | 890      | 870    | 300                                                 | 285     | 270     | 260      | 245                                |
| 5                                         | AE9MK                  | 9mm Makarov (9 x 18 Makarov)  | 95               | 6.15             | Full Metal Jacket          | 100                      | 990                                                | 960     | 920     | 900      | 870    | 205                                                 | 190     | 180     | 170      | 160                                |
| 5                                         | AE38S1                 | 38 Super High Velocity +P     | 130              | 8.42             | Full Metal Jacket          | 200                      | 1200                                               | 1140    | 1100    | 1050     | 1020   | 415                                                 | 380     | 350     | 320      | 300                                |
| 5                                         | AE40                   | 40 S & W                      | 180              | 11.66            | High Antimony Lead         | 100                      | 990                                                | 960     | 930     | 910      | 890    | 390                                                 | 365     | 345     | 330      | 315                                |
| 5                                         | AE40N1                 | 40 S & W                      | 180              | 11.66            | TMJ TMF Primer*            | 205TMF                   | 990                                                | 960     | 940     | 910      | 890    | 390                                                 | 370     | 350     | 330      | 315                                |
| 5                                         | AE40R1                 | 40 S & W                      | 180              | 11.66            | Full Metal Jacket Ball     | 200                      | 990                                                | 960     | 940     | 910      | 890    | 390                                                 | 370     | 350     | 330      | 315                                |
| 5                                         | AE40R2                 | 40 S & W                      | 155              | 10.04            | Full Metal Jacket Ball     | 200                      | 1140                                               | 1080    | 1030    | 990      | 960    | 445                                                 | 400     | 365     | 335      | 315                                |
| 5                                         | AE40R3                 | 40 S & W                      | 165              | 10.66            | Full Metal Jacket Ball     | 200                      | 980                                                | 950     | 920     | 900      | 880    | 350                                                 | 330     | 310     | 295      | 280                                |
| 5                                         | AE10                   | 10mm Auto                     | 180              | 11.66            | High Antimony Lead         | 150                      | 1030                                               | 1000    | 970     | 950      | 920    | 425                                                 | 400     | 375     | 355      | 340                                |
| 5                                         | AE45A                  | 45 Auto                       | 230              | 14.90            | Full Metal Jacket          | 150                      | 850                                                | 830     | 810     | 790      | 770    | 370                                                 | 350     | 335     | 320      | 305                                |
| 5                                         | AE45N1                 | 45 Auto                       | 230              | 14.90            | TMJ TMF Primer*            | 205TMF                   | 850                                                | 830     | 810     | 790      | 770    | 370                                                 | 350     | 335     | 315      | 305                                |

+ P ammunition is loaded to a higher pressure. Use only in firearms recommended by the gun manufacturer. \* Total Metal Jacket, Toxic "Metal Free" Primer "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

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

# ***PREMIUM<sup>®</sup> WATERFOWL***

*Technology is exactly what makes the latest Federal shotshell the choices of waterfowlers, from their water-resistant triple-seal to the decomposable wad. You'll find a variety of shotshells, all of which fit your particular hunting situation better than lead ever did. So when the sky fills this year, you'll be ready to drop 'em.*

# PREMIUM® WATERFOWL LOADS



## Tungsten-Iron

It's big medicine for geese and larger ducks. Because, believe it or not, Tungsten-Iron actually has more downrange energy and knockdown power than lead. It also penetrates feathers extremely well. We recommend using the same size shot as lead, but with the same choke as steel.



## Tungsten-Polymer

If you and your shotgun really miss lead, this is your shell. You get the speed, downrange energies and consistent 40-yard (up to 90%) patterns of traditional lead shot, so you can use the same shot size as lead. Tungsten-Polymer is safe to use in all shotguns designed for smokeless powder.



## Tungsten-Iron & Steel

Get out your best recipe. We stack a layer of steel over a layer of Tungsten-Iron. You get a combined pattern for close-in work – like jump shooting or over decoys – and the Tungsten-Iron keeps it effective at longer ranges. Use it in any shotgun that's meant to handle steel shot.



## Premium Steel

Fast? Some Premium Steel loads move out at 1500 feet per second. That's less than  $\frac{1}{4}$  of a wing flap. And it delivers uniformed patterns - up to 90% at 40 yards. Choose two sizes larger than you would in lead.





# PREMIUM® WATERFOWL LOADS

## Premium Tungsten-Iron

Tungsten-Iron works better than lead ever did, because it's nearly as dense as lead and we load it to higher velocities. It has a patented six-petal wad to protect your barrel and the shot is buffered to keep your pattern more uniform at longer ranges. Look for it in 3 1/2, 3 and 2 3/4-inch shells.



Patented Six-Petal Wad in Tungsten-Iron & PPS

| PREMIUM® TUNGSTEN-IRON |       |                     |    |                 |                        |       |               |
|------------------------|-------|---------------------|----|-----------------|------------------------|-------|---------------|
| FEDERAL LOAD NO.       | GAUGE | SHELL LENGTH INCHES | MM | MUZZLE VELOCITY | SHOT CHARGE WT. OUNCES | GRAMS | SHOT SIZES    |
| PWT105                 | 10    | 3 1/2               | 89 | 1450            | 1 1/4                  | 38.88 | BBB, BB, 2, 4 |
| PWT106                 | 10    | 3 1/2               | 89 | 1300            | 1 1/4                  | 46.06 | BBB, BB, 2, 4 |
| PWT136                 | 12    | 3 1/2               | 89 | 1400            | 1 1/4                  | 38.88 | BBB, BB, 2, 4 |
| PWT181                 | 12    | 3                   | 76 | 1400            | 1 1/4                  | 31.89 | BBB, BB, 2, 4 |
| PWT185                 | 12    | 3                   | 76 | 1300            | 1 1/4                  | 38.88 | 4             |
| PWT220                 | 20    | 3                   | 76 | 1375            | 7/8                    | 24.80 | 2, 4          |

(10 round boxes)

## Premium Tungsten-Polymer

Premium Tungsten Polymer is a great choice for ducks of all sizes. You'll like the consistent patterns and the Tungsten-Polymer loads are safe for virtually all shotgun barrels. Available in shotshell loads.



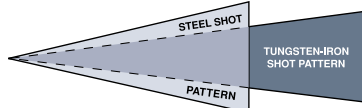
Two-Piece Wad in Tungsten-Polymer

| PREMIUM® TUNGSTEN-POLYMER |       |                     |    |                 |                        |       |            |
|---------------------------|-------|---------------------|----|-----------------|------------------------|-------|------------|
| FEDERAL LOAD NO.          | GAUGE | SHELL LENGTH INCHES | MM | MUZZLE VELOCITY | SHOT CHARGE WT. OUNCES | GRAMS | SHOT SIZES |
| PWT107                    | 10    | 3 1/2               | 89 | 1325            | 1 1/4                  | 49.61 | 4, 6       |
| PWT137                    | 12    | 3 1/2               | 89 | 1275            | 1 1/4                  | 49.61 | 4, 6       |
| PWT188                    | 12    | 3                   | 76 | 1375            | 1 1/4                  | 31.89 | 4, 6       |
| PWT189                    | 12    | 3                   | 76 | 1330            | 1 1/4                  | 38.88 | 4, 6       |
| PWT187                    | 12    | 2 3/4               | 70 | 1330            | 1 1/4                  | 35.44 | 4, 6       |
| PWT186                    | 12    | 2 3/4               | 70 | 1375            | 1                      | 28.35 | 4, 6       |
| PWT221                    | 20    | 3                   | 76 | 1185            | 1 1/4                  | 35.44 | 4, 6       |
| PWT226                    | 20    | 2 3/4               | 70 | 1175            | 1 1/4                  | 31.89 | 4, 6       |

(10 round boxes)

## Premium Tungsten Iron & Steel

Our Power Pattern System (PPS) stacks a layer of steel over a layer of Tungsten-Iron. At 40 yards, each shotshell delivers up to 85% of the pellets within a 30 inch circle. It's also buffered to keep the pattern uniform at longer ranges. You'll find it in 12 gauge 3", 3 1/2" and 10 gauge shells.



| PREMIUM® TUNGSTEN-IRON & STEEL |       |                     |    |                 |                        |       |            |
|--------------------------------|-------|---------------------|----|-----------------|------------------------|-------|------------|
| FEDERAL LOAD NO.               | GAUGE | SHELL LENGTH INCHES | MM | MUZZLE VELOCITY | SHOT CHARGE WT. OUNCES | GRAMS | SHOT SIZES |
| <b>NEW</b> PWT129              | 12    | 3                   | 76 | 1400            | 1 1/4                  | 35.44 | 4x2, 4x4   |
| <b>NEW</b> PWT132              | 12    | 3 1/2               | 89 | 1375            | 1 1/4                  | 38    | 2xBB       |
| <b>NEW</b> PWT100              | 10    | 3 1/2               | 89 | 1375            | 1 1/2                  | 42.52 | 2xBB       |

(10 round boxes)

## Premium Steel

Our steel loads deliver up to 90% pattern density at 40 yards and maximum velocities. These loads feature an environmentally friendly decomposable wad. Federal pioneered steel shot technology more than 25 years ago, and we're still making it better and faster.



Decomposable Wad in Premium Steel

| PREMIUM® STEEL                      |       |                     |    |                 |                        |       |                        |
|-------------------------------------|-------|---------------------|----|-----------------|------------------------|-------|------------------------|
| FEDERAL LOAD NO.                    | GAUGE | SHELL LENGTH INCHES | MM | MUZZLE VELOCITY | SHOT CHARGE WT. OUNCES | GRAMS | SHOT SIZES             |
| PREMIUM® MAGNUM HIGH VELOCITY STEEL |       |                     |    |                 |                        |       |                        |
| PW102                               | 10    | 3 1/2               | 89 | 1425            | 1 1/4                  | 38.88 | BBB, BB                |
| PW133                               | 12    | 3 1/2               | 89 | 1450            | 1 1/4                  | 38.88 | 1, BBB, BB, 2, 4       |
| PW143                               | 12    | 3                   | 76 | 1500*           | 1 1/4                  | 31.89 | 1, BBB, BB, 2, 3, 4, 6 |
| PREMIUM® MAGNUM STEEL               |       |                     |    |                 |                        |       |                        |
| PW148                               | 12    | 2 3/4               | 70 | 1275            | 1 1/4                  | 35.44 | BB, 2                  |
| PW209                               | 20    | 3                   | 76 | 1330            | 1                      | 28.35 | 4, 6                   |
| PREMIUM® HI-BRASS STEEL             |       |                     |    |                 |                        |       |                        |
| PW147                               | 12    | 2 3/4               | 70 | 1365            | 1 1/4                  | 31.89 | BB, 2                  |

\*Improved Higher Velocity

# CLASSIC® WATERFOWL LOADS

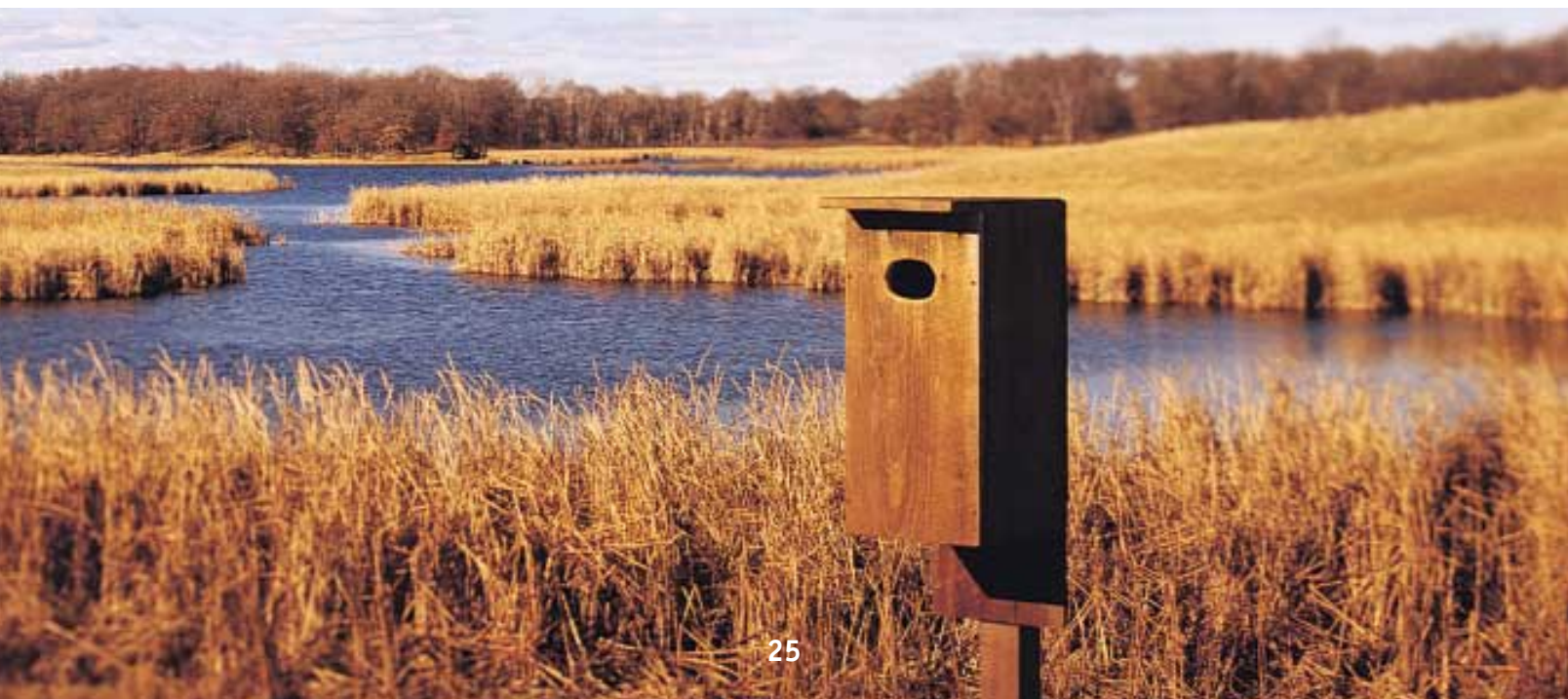


Here's the shell that puts duck and geese on the table, but leaves you with enough cash to buy a pie for dessert. Classic waterfowl loads are a classic value and have been for years. The pellets are uniform and throw tight patterns, while hot primers ensure ignition even under the worst conditions. Classic steel has three resistant seals at the wad, primer, and crimps to provide protection from water damage.

| C L A S S I C® S T E E L                   |       |                           |    |                    |                                 |       |                    |
|--------------------------------------------|-------|---------------------------|----|--------------------|---------------------------------|-------|--------------------|
| FEDERAL<br>LOAD<br>NO.                     | GAUGE | SHELL<br>LENGTH<br>INCHES | MM | MUZZLE<br>VELOCITY | SHOT<br>CHARGE WEIGHT<br>OUNCES | GRAMS | SHOT SIZES         |
| <b>CLASSIC® MAGNUM HIGH VELOCITY STEEL</b> |       |                           |    |                    |                                 |       |                    |
| W102                                       | 10    | 3½                        | 89 | 1425               | 1½                              | 38.98 | BBB,BB,2           |
| W133                                       | 12    | 3½                        | 89 | 1450               | 1½                              | 38.98 | T,BBB,BB,2,4       |
| W143                                       | 12    | 3                         | 76 | 1500*              | 1½                              | 38.89 | T,BBB,BB,2,4,6     |
| W144                                       | 12    | 2¾                        | 70 | 1425*              | 1½                              | 31.89 | BB,2,4,6           |
| W211                                       | 20    | 3                         | 76 | 1400               | 1                               | 28.35 | 2,3,4              |
| <b>CLASSIC® HIGH VELOCITY UPLAND STEEL</b> |       |                           |    |                    |                                 |       |                    |
| W141                                       | 12    | 2¾                        | 70 | 1500*              | 1                               | 28.35 | 3,4,6,7            |
| <b>CLASSIC® MAGNUM STEEL</b>               |       |                           |    |                    |                                 |       |                    |
| W104                                       | 10    | 3½                        | 89 | 1350               | 1½                              | 46.06 | F,T,BBB,BB,1,2     |
| W135                                       | 12    | 3½                        | 89 | 1300               | 1½                              | 44.30 | F,T,BBB,BB,1,2     |
| W149                                       | 12    | 3                         | 76 | 1265               | 1½                              | 38.98 | F,T,BBB,BB,1,2,3,4 |
| W140                                       | 12    | 3                         | 76 | 1375               | 1½                              | 35.44 | T,BBB,BB,1,2,3,4   |
| W148                                       | 12    | 2¾                        | 70 | 1275               | 1½                              | 35.44 | T,BBB,BB,1,2,3,4   |
| W168                                       | 16    | 2¾                        | 70 | 1300               | 1½                              | 26.58 | 2,4                |
| W209                                       | 20    | 3                         | 76 | 1330               | 1                               | 28.35 | 2,3,4              |
| <b>CLASSIC® HI-BRASS® STEEL</b>            |       |                           |    |                    |                                 |       |                    |
| W147                                       | 12    | 2¾                        | 70 | 1365               | 1½                              | 31.89 | 2,3,4,6            |
| W146                                       | 12    | 2¾                        | 70 | 1375               | 1                               | 28.35 | 2,4,6              |
| W146                                       | 12    | 2¾                        | 70 | 1300               | 1                               | 28.35 | 7                  |
| W208                                       | 20    | 2¾                        | 70 | 1425               | ¾                               | 21.25 | 4,6                |
| W208                                       | 20    | 2¾                        | 70 | 1300               | ¾                               | 21.25 | 7                  |

In F, T and some BBB loads, shot charge is determined by pellet count rather than weight. The approximate pellet counts are:  
W149 (F-50, T-62, BBB-74); W148 (F-55, BBB-69).

\* New Improved Velocity



# PREMIUM® SHOTGUN SLUGS

We bring you three of the most devastating slug loads. From our proven Premium Rifled and Sabot Slugs to the Barnes Expander Sabot Slug, the latest advancement in slug technology.



## Premium Barnes Expander Sabot Slug

The expansive hollow point of the Barnes Expander delivers expansion 150% greater than conventional sabot slugs and is capable of groups 2" or better at 100 yards with rifled shotgun barrels.



## Premium Rifled Slug

Federal Premium Rifled Slugs feature helix ribbing and the unique Hydra-Shok hollow point. Recommended for smooth bore shotguns.



## Premium Sabot Slug

In shotguns with rifled barrel, or rifled choke tubes Premium Sabot Slugs are capable of 2½" groups or better at 100 yards.

## PREMIUM® SLUGS BALLISTICS

| FEDERAL<br>LOAD<br>NO.               | GAUGE       | SHELL LENGTH<br>INCHES | MM | SLUG TYPE*    | SLUG WEIGHT<br>OUNCES | GRAINS | DRAM<br>EQUIV. | VELOCITY IN FEET PER SECOND<br>(TO NEAREST 10 FPS) |         |         |         |          |          | ENERGY IN FOOT-POUNDS<br>(TO NEAREST 5 FOOT-POUNDS) |         |         |         |          |          | HEIGHT OF SLUG TRAJECTORY IN INCHES<br>ABOVE OR BELOW LINE OF SIGHT IF ZEROED AT<br>YARDS. SIGHTS .5 INCHES ABOVE BORE LINE. |         |         |          |          | TEST<br>BARREL<br>LENGTH<br>INCHES |    |
|--------------------------------------|-------------|------------------------|----|---------------|-----------------------|--------|----------------|----------------------------------------------------|---------|---------|---------|----------|----------|-----------------------------------------------------|---------|---------|---------|----------|----------|------------------------------------------------------------------------------------------------------------------------------|---------|---------|----------|----------|------------------------------------|----|
|                                      |             |                        |    |               |                       |        |                | MUZZLE                                             | 25 YDS. | 50 YDS. | 75 YDS. | 100 YDS. | 125 YDS. | MUZZLE                                              | 25 YDS. | 50 YDS. | 75 YDS. | 100 YDS. | 125 YDS. | 25 YDS.                                                                                                                      | 50 YDS. | 75 YDS. | 100 YDS. | 125 YDS. |                                    |    |
| PREMIUM® BARNES EXPANDER SABOT SLUGS |             |                        |    |               |                       |        |                |                                                    |         |         |         |          |          |                                                     |         |         |         |          |          |                                                                                                                              |         |         |          |          |                                    |    |
|                                      | P151XS      | 12                     | 3  | 76            | Barnes Sabot          | 1      | 438            | Mag.                                               | 1525    | 1450    | 1390    | 1330     | 1270     | 1210                                                | 2260    | 2055    | 1870    | 1710     | 1560     | 1325                                                                                                                         | +1.3    | +2.0    | +1.6     | ⊕        | -3.0                               | 30 |
|                                      | P150XS      | 12                     | 2½ | 70            | Barnes Sabot          | 1      | 438            | Max.                                               | 1450    | 1380    | 1320    | 1260     | 1210     | 1160                                                | 2045    | 1860    | 1695    | 1545     | 1420     | 1310                                                                                                                         | +1.4    | +2.2    | +1.8     | ⊕        | -3.3                               | 30 |
| NEW                                  | P152XS      | 12                     | 2½ | 70            | Barnes Sabot          | ¾      | 325            | Mag.                                               | 1900    | 1810    | 1720    | 1640     | 1560     | 1480                                                | 2605    | 2370    | 2140    | 1940     | 1755     | 1585                                                                                                                         | +0.9    | +1.2    | +1.0     | ⊕        | -1.9                               | 30 |
|                                      | P207XS      | 20                     | 3  | 76            | Barnes Sabot          | ¾      | 325            | Mag.                                               | 1450    | 1380    | 1320    | 1260     | 1200     | 1150                                                | 1515    | 1375    | 1250    | 1140     | 1040     | 960                                                                                                                          | +1.5    | +2.3    | +1.8     | ⊕        | -3.3                               | 30 |
| PREMIUM® SABOT SLUGS                 |             |                        |    |               |                       |        |                |                                                    |         |         |         |          |          |                                                     |         |         |         |          |          |                                                                                                                              |         |         |          |          |                                    |    |
|                                      | P151SS      | 12                     | 3  | 76            | Hydra-Shok Sabot HP   | 1      | 438            | Mag.                                               | 1550    | 1440    | 1340    | 1250     | 1180     | 1110                                                | 2335    | 2020    | 1750    | 1530     | 1345     | 1205                                                                                                                         | +1.4    | +2.2    | +1.8     | ⊕        | -3.3                               | 30 |
|                                      | P154SS      | 12                     | 2½ | 70            | Hydra-Shok Sabot HP   | 1      | 438            | Max.                                               | 1450    | 1350    | 1260    | 1180     | 1120     | 1070                                                | 2045    | 1775    | 1545    | 1360     | 1215     | 1100                                                                                                                         | +1.6    | +2.5    | +2.0     | ⊕        | -3.8                               | 30 |
|                                      | P207SS      | 20                     | 3  | 76            | Hydra-Shok Sabot HP   | ¾      | 275            | Mag.                                               | 1450    | 1330    | 1230    | 1140     | 1070     | 1020                                                | 1285    | 1080    | 920     | 795      | 705      | 630                                                                                                                          | +1.7    | +2.6    | +2.2     | ⊕        | -4.0                               | 30 |
|                                      | P203SS      | 20                     | 2½ | 70            | Hydra-Shok Sabot HP   | ¾      | 275            | Max.                                               | 1400    | 1290    | 1190    | 1110     | 1050     | 1000                                                | 1200    | 1010    | 860     | 750      | 670      | 610                                                                                                                          | +1.8    | +2.8    | +2.3     | ⊕        | -4.3                               | 30 |
| PREMIUM® RIFLED SLUGS                |             |                        |    |               |                       |        |                |                                                    |         |         |         |          |          |                                                     |         |         |         |          |          |                                                                                                                              |         |         |          |          |                                    |    |
|                                      | P127LRS**12 | 2½                     | 70 | Hydra-Shok HP | 1                     | 438    | Max.           | 1300                                               | 1200    | 1110    | 1050    | 1000     | —        | —                                                   | 1845    | 1390    | 1205    | 1070     | 965      | —                                                                                                                            | +0.5    | ⊕       | -2.3     | -6.5     | —                                  | 30 |
|                                      | P127RS      | 12                     | 2½ | 70            | Hydra-Shok HP         | 1      | 438            | Max.                                               | 1610    | 1460    | 1330    | 1220     | 1140     | —                                                   | 2520    | 2075    | 1725    | 1455     | 1255     | —                                                                                                                            | +0.3    | ⊕       | -1.5     | -4.3     | —                                  | 30 |

\*HP = Hollow Point \*\*Low Recoil Slug. 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 (58°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.

# CLASSIC® SHOTGUN SLUGS



## Classic Sabot Slugs

For rifled barrels and rifled choke tubes, sabot hollow points offer maximum expansion and excellent accuracy.



## Classic Rifled Slugs

Our rifled slugs provide maximum knockdown power. A special, one-piece cushioned wad helps reduce felt recoil, while the hollow point gives it positive expansion.

## CLASSIC® RIFLED SLUGS BALLISTICS

| FEDERAL<br>LOAD<br>NO. | GAUGE | SHELL LENGTH<br>INCHES | MM   | SLUG TYPE    | SLUG WEIGHT<br>OUNCES | GRAINS | DRAM<br>EQUIV. | VELOCITY IN FEET PER SECOND<br>(TO NEAREST 10 FPS) |         |         |         |          | ENERGY IN FOOT-POUNDS<br>(TO NEAREST 5 FOOT-POUNDS) |         |         |         |          | HEIGHT OF SLUG TRAJECTORY IN INCHES<br>ABOVE OR BELOW LINE OF SIGHT IF ZEROED AT<br>YARDS. SIGHTS .5 INCHES ABOVE BORE LINE. |         |         |          |          | TEST<br>BARREL<br>LENGTH<br>INCHES |
|------------------------|-------|------------------------|------|--------------|-----------------------|--------|----------------|----------------------------------------------------|---------|---------|---------|----------|-----------------------------------------------------|---------|---------|---------|----------|------------------------------------------------------------------------------------------------------------------------------|---------|---------|----------|----------|------------------------------------|
|                        |       |                        |      |              |                       |        |                | MUZZLE                                             | 25 YDS. | 50 YDS. | 75 YDS. | 100 YDS. | MUZZLE                                              | 25 YDS. | 50 YDS. | 75 YDS. | 100 YDS. | 25 YDS.                                                                                                                      | 50 YDS. | 75 YDS. | 100 YDS. | 125 YDS. |                                    |
| F103RS                 | 10    | 3½                     | 89   | Hollow Point | 1¼                    | 766    | Mag.           | 1280                                               | 1160    | 1080    | 1020    | 970      | 2785                                                | 2295    | 1980    | 1775    | 1605     | +0.5                                                                                                                         | ⊕       | -2.3    | -6.7     | —        | 32                                 |
| F131RS                 | 12    | 3                      | 76   | Hollow Point | 1¼                    | 547    | Mag.           | 1600                                               | 1450    | 1320    | 1210    | 1130     | 3110                                                | 2555    | 2120    | 1785    | 1540     | +0.3                                                                                                                         | ⊕       | -1.5    | -4.4     | —        | 30                                 |
| F130RS                 | 12    | 2½                     | 70   | Hollow Point | 1¼                    | 547    | Mag.           | 1520                                               | 1380    | 1260    | 1160    | 1090     | 2805                                                | 2310    | 1930    | 1645    | 1450     | +0.3                                                                                                                         | ⊕       | -1.7    | -4.9     | —        | 30                                 |
| F127RS                 | 12    | 2½                     | 70   | Hollow Point | 1                     | 438    | Max.           | 1610                                               | 1460    | 1330    | 1220    | 1140     | 2520                                                | 2075    | 1725    | 1455    | 1255     | +0.3                                                                                                                         | ⊕       | -1.5    | -4.3     | —        | 30                                 |
| F164RS                 | 16    | 2½                     | 70   | Hollow Point | ¾                     | 350    | Max.           | 1600                                               | 1360    | 1180    | 1060    | 990      | 1990                                                | 1435    | 1075    | 875     | 755      | +0.3                                                                                                                         | ⊕       | -1.8    | -5.4     | —        | 28                                 |
| F207RS                 | 20    | 3                      | 76   | Hollow Point | ¾                     | 325    | Mag.           | 1680                                               | 1500    | 1340    | 1210    | 1110     | 2055                                                | 1640    | 1310    | 1065    | 890      | +0.2                                                                                                                         | ⊕       | -1.4    | -4.4     | —        | 30                                 |
| F203RS                 | 20    | 2½                     | 70   | Hollow Point | ¾                     | 328    | Max.           | 1600                                               | 1420    | 1270    | 1150    | 1070     | 1865                                                | 1465    | 1175    | 965     | 835      | +0.3                                                                                                                         | ⊕       | -1.6    | -4.8     | —        | 28                                 |
| F412RS                 | 410   | 2½                     | 63.5 | Hollow Point | ¾                     | 109    | Max.           | 1775                                               | 1540    | 1340    | 1180    | 1060     | 770                                                 | 580     | 435     | 335     | 275      | +0.2                                                                                                                         | ⊕       | -1.4    | -4.4     | —        | 26                                 |

## PREMIUM® BUCKSHOT



It delivers a staggering blow to deer. Our patented spiral stacking process, with plastic shot cup and buffering, ensures dense patterns. Copper-plated shot penetrates deep for harder hits. You'll find premium Buckshot in everything from 12 gauge 2 ¾" with #4 buckshot, to 10 gauge 3 ½" with 00 buckshot.

| PREMIUM® BUCKSHOT |       |                     |         |               |          |                       |
|-------------------|-------|---------------------|---------|---------------|----------|-----------------------|
| FEDERAL LOAD NO.  | GAUGE | SHELL LENGTH INCHES | DRAM MM | MUZZLE EQUIV. | VELOCITY | SHOT SIZES            |
| P108              | 10    | 3½                  | 89      | Magnum        | 1100     | 18 Pellets – 00 Buck  |
| P108              | 10    | 3½                  | 89      | Magnum        | 1100     | 24 Pellets – 1 Buck   |
| P135              | 12    | 3½                  | 89      | Magnum        | 1100     | 18 Pellets – 00 Buck  |
| P135              | 12    | 3½                  | 89      | Magnum        | 1100     | 24 Pellets – 1 Buck   |
| P158              | 12    | 3                   | 76      | Magnum        | 1225     | 10 Pellets – 000 Buck |
| P158              | 12    | 3                   | 76      | Magnum        | 1210     | 15 Pellets – 00 Buck  |
| P158              | 12    | 3                   | 76      | Magnum        | 1040     | 24 Pellets – 1 Buck   |
| P158              | 12    | 3                   | 76      | Magnum        | 1210     | 41 Pellets – 4 Buck   |
| P156              | 12    | 2¾                  | 70      | Magnum        | 1290     | 12 Pellets – 00 Buck  |
| P156              | 12    | 2¾                  | 70      | Magnum        | 1250     | 34 Pellets – 4 Buck   |
| P154              | 12    | 2¾                  | 70      | Max.          | 1325     | 9 Pellets – 00 Buck   |

## CLASSIC® BUCKSHOT

| CLASSIC® BUCKSHOT            |       |                     |         |               |          |                       |
|------------------------------|-------|---------------------|---------|---------------|----------|-----------------------|
| FEDERAL LOAD NO.             | GAUGE | SHELL LENGTH INCHES | DRAM MM | MUZZLE EQUIV. | VELOCITY | SHOT SIZES            |
| F131                         | 12    | 3                   | 76      | Magnum        | 1225     | 10 Pellets – 000 Buck |
| F131                         | 12    | 3                   | 76      | Magnum        | 1210     | 15 Pellets – 00 Buck  |
| F131                         | 12    | 3                   | 76      | Magnum        | 1210     | 41 Pellets – 4 Buck   |
| F130                         | 12    | 2¾                  | 70      | Magnum        | 1290     | 12 Pellets – 00 Buck  |
| F130                         | 12    | 2¾                  | 70      | Magnum        | 1075     | 20 Pellets – 1 Buck   |
| F130                         | 12    | 2¾                  | 70      | Magnum        | 1250     | 34 Pellets – 4 Buck   |
| F127                         | 12    | 2¾                  | 70      | Max.          | 1325     | 8 Pellets – 000 Buck  |
| F127                         | 12    | 2¾                  | 70      | Max.          | 1325     | 9 Pellets – 00 Buck   |
| F127                         | 12    | 2¾                  | 70      | Max.          | 1275     | 12 Pellets – 0 Buck   |
| F127                         | 12    | 2¾                  | 70      | Max.          | 1250     | 18 Pellets – 1 Buck   |
| F127                         | 12    | 2¾                  | 70      | Max.          | 1325     | 27 Pellets – 4 Buck   |
| F184                         | 16    | 2¾                  | 70      | Max.          | 1225     | 12 Pellets – 1 Buck   |
| F207                         | 20    | 3                   | 76      | Magnum        | 1200     | 18 Pellets – 2 Buck   |
| F203                         | 20    | 2¾                  | 70      | Max.          | 1200     | 20 Pellets – 3 Buck   |
| CLASSIC® LOW RECOIL BUCKSHOT |       |                     |         |               |          |                       |
| H132                         | 12    | 2¾                  | 70      | 3             | 1140     | 9 Pellets – 00 Buck   |
| H132                         | 12    | 2¾                  | 70      | 3             | 1140     | 27 Pellets – 4 Buck   |

It's the choice for Southern and Southeastern hunters. You'll find our buckshot in traditional loads, plus Low Recoil Buckshot. We offer a Triple Plus® wad system that gives you better shot alignment, with a granulated plastic buffer to keep shot pellets from deforming. You get tighter downrange patterns and better stopping power with Classic Buckshot.



## PREMIUM® PERSONAL DEFENSE

It does only one thing and does it very well. Premium Personal Defense shotshell ammunition gives you a fast-opening pattern, and reduced recoil for better firearm control. Its got confidence written all over it.

| PREMIUM® PERSONAL DEFENSE |       |                     |         |               |                         |       |            |
|---------------------------|-------|---------------------|---------|---------------|-------------------------|-------|------------|
| FEDERAL LOAD NO.          | GAUGE | SHELL LENGTH INCHES | DRAM MM | MUZZLE EQUIV. | SHOT CHARGE WGT. OUNCES | GRAMS | SHOT SIZES |
| PD12                      | 12    | 2¾                  | 70      | 3             | 1140                    | 1¼    | 35.44 2    |
| PD20                      | 20    | 2¾                  | 70      | 2½            | 1140                    | 1     | 28.35 2    |

(10 round boxes)





# PREMIUM® SHOTSHELL LOADS

## Premium Turkey

Bringing down a tough bird takes a tough load. Our Premium High Energy is the fastest turkey load anywhere, with a muzzle velocity of 1300 fps. Premium Magnum Lead gives you choices from a 20 gauge 3" 1¼ oz. load, to our powerful 10 gauge 3½" 2¼ oz. load. Buffering minimizes pellet deformation, for better pattern density and knockdown power.



| P R E M I U M® T U R K E Y       |       |                        |    |                |                    |                               |       |             |
|----------------------------------|-------|------------------------|----|----------------|--------------------|-------------------------------|-------|-------------|
| FEDERAL<br>LOAD<br>NO.           | GAUGE | SHELL LENGTH<br>INCHES | MM | DRAM<br>EQUIV. | MUZZLE<br>VELOCITY | SHOT<br>CHARGE WGT.<br>OUNCES | GRAMS | SHOT SIZES  |
| PREMIUM® HIGH ENERGY LEAD TURKEY |       |                        |    |                |                    |                               |       |             |
| PT101                            | 10    | 3½                     | 89 | Magnum         | 1300               | 2                             | 56.70 | 4, 5, 6     |
| PT139                            | 12    | 3½                     | 89 | Magnum         | 1275               | 2                             | 56.70 | 4, 5, 6     |
| PT157                            | 12    | 3                      | 76 | Max.           | 1300               | 1½                            | 49.81 | 4, 5, 6     |
| PREMIUM® MAGNUM LEAD TURKEY      |       |                        |    |                |                    |                               |       |             |
| PT109                            | 10    | 3½                     | 89 | 4½             | 1210               | 2¼                            | 63.78 | 4, 5, 6     |
| PT135                            | 12    | 3½                     | 89 | Max.           | 1150               | 2¼                            | 63.78 | 4, 5, 6     |
| PT159*                           | 12    | 3                      | 76 | 4              | 1175               | 2                             | 56.70 | 4, 5, 6, 7½ |
| PT155                            | 12    | 2½                     | 70 | 4              | 1250               | 1½                            | 46.06 | 4, 5, 6     |
| PT258                            | 20    | 3                      | 76 | 3              | 1185               | 1¼                            | 35.44 | 4, 5, 6     |

(10 round boxes)

\*Heavyweight

## Premium Lead

Each Premium lead shotshell has been designed specifically for the game you're after. When pheasants explode from cover, our Premium High Velocity hits them faster than ordinary shells. Premium Magnum Lead shotshells provide a denser shot pattern and extra range. Check out the variety of Federal Premium Lead loads, and select the right one for you.



| P R E M I U M® L E A D      |       |                        |    |                |                    |                               |       |             |
|-----------------------------|-------|------------------------|----|----------------|--------------------|-------------------------------|-------|-------------|
| FEDERAL<br>LOAD<br>NO.      | GAUGE | SHELL LENGTH<br>INCHES | MM | DRAM<br>EQUIV. | MUZZLE<br>VELOCITY | SHOT<br>CHARGE WGT.<br>OUNCES | GRAMS | SHOT SIZES  |
| PREMIUM® HIGH VELOCITY LEAD |       |                        |    |                |                    |                               |       |             |
| P128                        | 12    | 2¾                     | 70 | Max.           | 1400               | 1½                            | 31.89 | 4, 6, 7½, 8 |
| P204                        | 20    | 2¾                     | 70 | Max.           | 1240               | 1                             | 28.35 | 6, 7½, 8    |
| NEW P138                    | 12    | 2¾                     | 70 | Max.           | 1400               | 1½                            | 38.98 | 4,5,8       |
| PREMIUM® MAGNUM LEAD        |       |                        |    |                |                    |                               |       |             |
| P109                        | 10    | 3½                     | 89 | 4½             | 1210               | 2½                            | 63.78 | BB, 4, 6    |
| P159                        | 12    | 3                      | 76 | 4              | 1175               | 2                             | 56.70 | BB, 2, 4, 6 |
| P158                        | 12    | 3                      | 76 | 4              | 1210               | 1½                            | 53.15 | BB, 2, 4, 6 |
| P156                        | 12    | 2¾                     | 70 | 4              | 1315               | 1½                            | 42.52 | BB, 2, 4, 6 |
| P185                        | 16    | 2¾                     | 70 | 3½             | 1260               | 1½                            | 35.44 | 4, 6        |
| P258                        | 20    | 3                      | 76 | 3              | 1185               | 1¼                            | 35.44 | 4, 6        |
| P256                        | 20    | 2¾                     | 70 | 2½             | 1175               | 1½                            | 31.89 | 4, 6        |
| PREMIUM® HI-BRASS® LEAD     |       |                        |    |                |                    |                               |       |             |
| P154                        | 12    | 2¾                     | 70 | 3½             | 1330               | 1½                            | 35.44 | 4, 6, 7½, 8 |
| P254                        | 20    | 2¾                     | 70 | 2½             | 1220               | 1                             | 28.35 | 6           |
| P283                        | 28    | 2¾                     | 70 | 2½             | 1295               | ¾                             | 21.25 | 6, 7½, 8    |
| PREMIUM® FIELD LEAD         |       |                        |    |                |                    |                               |       |             |
| P153                        | 12    | 2¾                     | 70 | 3½             | 1220               | 1½                            | 35.44 | 7½, 8       |
| P252                        | 20    | 2¾                     | 70 | 2½             | 1165               | 1                             | 28.35 | 7½          |



# CLASSIC® SHOTSHELL LOADS

| C L A S S I C® L E A D         |       |                     |      |             |                 |                    |              |                      |
|--------------------------------|-------|---------------------|------|-------------|-----------------|--------------------|--------------|----------------------|
| FEDERAL LOAD NO.               | GAUGE | SHELL LENGTH INCHES | MM   | DRAM EQUIV. | MUZZLE VELOCITY | SHOT CHARGE OUNCES | WEIGHT GRAMS | SHOT SIZES           |
| <b>CLASSIC® MAGNUM LEAD</b>    |       |                     |      |             |                 |                    |              |                      |
| F131                           | 12    | 3                   | 76   | 4           | 1210            | 1½                 | 53.15        | BB, 2, 4             |
| F129                           | 12    | 3                   | 76   | 4           | 1280            | 1½                 | 48.06        | 2, 4, 6              |
| F130                           | 12    | 2¾                  | 70   | 3¾          | 1260            | 1½                 | 42.52        | BB, 2, 4, 5, 6       |
| F207                           | 20    | 3                   | 76   | 3           | 1185            | 1¼                 | 35.44        | 2, 4, 6, 7½          |
| F205                           | 20    | 2¾                  | 70   | 2¾          | 1175            | 1¼                 | 31.89        | 4, 6, 7½             |
| <b>CLASSIC® HI-BRASS® LEAD</b> |       |                     |      |             |                 |                    |              |                      |
| H126                           | 12    | 2¾                  | 70   | 3¾          | 1330            | 1¼                 | 35.44        | 2, 4, 5, 6, 7½, 8, 9 |
| H163                           | 16    | 2¾                  | 70   | 3¾          | 1295            | 1¼                 | 31.89        | 4, 6, 7½             |
| H204                           | 20    | 2¾                  | 70   | 2¾          | 1220            | 1                  | 28.35        | 4, 5, 6, 7½, 8       |
| H413                           | 410   | 3                   | 76   | Max.        | 1135            | ⅞                  | 18.49        | 4, 5, 6, 7½, 8       |
| H412                           | 410   | 2½                  | 63.5 | Max.        | 1200            | ½                  | 14.17        | 6, 7½                |
| <b>CLASSIC® FIELD LEAD</b>     |       |                     |      |             |                 |                    |              |                      |
| H125                           | 12    | 2¾                  | 70   | 3¾          | 1220            | 1¼                 | 35.44        | 6, 7½, 8, 9          |
| H123                           | 12    | 2¾                  | 70   | 3¾          | 1255            | 1¼                 | 31.89        | 4, 6, 7½, 8          |
| H162                           | 16    | 2¾                  | 70   | 2¾          | 1185            | 1¼                 | 31.89        | 6, 7½, 8             |
| H202                           | 20    | 2¾                  | 70   | 2½          | 1165            | 1                  | 28.35        | 6, 7½, 8             |

## Classic Lead

Generations have put meals on the table with Classic lead. Our Classic Magnum, Hi-Brass and Field Loads still give you a lot of choices for upland birds and small game. You'll find them in sizes from 9 to BB.



# HI-POWER® & GAME SHOTSHELL LOADS

| H I - P O W E R® S H O T G U N S H E L L S |       |                     |      |             |                 |                    |              |             |
|--------------------------------------------|-------|---------------------|------|-------------|-----------------|--------------------|--------------|-------------|
| FEDERAL LOAD NO.                           | GAUGE | SHELL LENGTH INCHES | MM   | DRAM EQUIV. | MUZZLE VELOCITY | SHOT CHARGE OUNCES | WEIGHT GRAMS | SHOT SIZES  |
| H120                                       | 12    | 2¾                  | 70   | 3¾          | 1220            | 1¼                 | 35.44        | 5, 6, 7½, 8 |
| H127                                       | 12    | 2¾                  | 70   | 3¾          | 1280            | 1¼                 | 35.44        | 4, 6, 7½    |
| H104                                       | 16    | 2¾                  | 70   | 3¾          | 1245            | 1¼                 | 31.89        | 6           |
| H203                                       | 20    | 2¾                  | 70   | 2¾          | 1170            | 1                  | 28.35        | 4, 6, 7½    |
| H415                                       | 410   | 3                   | 76   | Max.        | 1135            | ⅞                  | 18.49        | 4, 6, 7½    |
| H414                                       | 410   | 2½                  | 63.5 | Max.        | 1200            | ½                  | 14.17        | 6           |

## Hi-Power & Game

They're a powerful choice for hunters who know the value of knockdown power and a dollar. We offer popular choices from 12 to .410 gauge shotguns.



| H E A V Y G A M E L O A D S |       |                     |    |             |                 |                    |              |            |
|-----------------------------|-------|---------------------|----|-------------|-----------------|--------------------|--------------|------------|
| FEDERAL LOAD NO.            | GAUGE | SHELL LENGTH INCHES | MM | DRAM EQUIV. | MUZZLE VELOCITY | SHOT CHARGE OUNCES | WEIGHT GRAMS | SHOT SIZES |
| HGL12                       | 12    | 2¾                  | 70 | 3¾          | 1255            | 1¼                 | 31.89        | 6, 7½, 8   |
| HGL20                       | 20    | 2¾                  | 70 | 2¾          | 1165            | 1                  | 28.35        | 6, 7½, 8   |

| G A M E L O A D S |       |                     |    |             |                 |                    |              |            |
|-------------------|-------|---------------------|----|-------------|-----------------|--------------------|--------------|------------|
| FEDERAL LOAD NO.  | GAUGE | SHELL LENGTH INCHES | MM | DRAM EQUIV. | MUZZLE VELOCITY | SHOT CHARGE OUNCES | WEIGHT GRAMS | SHOT SIZES |
| H121              | 12    | 2¾                  | 70 | 3¾          | 1290            | 1                  | 28.35        | 6, 7½, 8   |
| H160              | 16    | 2¾                  | 70 | 2¾          | 1165            | 1                  | 28.35        | 6, 7½, 8   |
| H200              | 20    | 2¾                  | 70 | 2¾          | 1210            | ¾                  | 24.80        | 6, 7½, 8   |

| D O V E L O A D S |       |                     |    |             |                 |                    |              |            |
|-------------------|-------|---------------------|----|-------------|-----------------|--------------------|--------------|------------|
| FEDERAL LOAD NO.  | GAUGE | SHELL LENGTH INCHES | MM | DRAM EQUIV. | MUZZLE VELOCITY | SHOT CHARGE OUNCES | WEIGHT GRAMS | SHOT SIZES |
| FD12              | 12    | 2¾                  | 70 | 3¾          | 1290            | 1                  | 28.35        | 7½, 8      |
| FD20              | 20    | 2¾                  | 70 | 2¾          | 1210            | ¾                  | 24.80        | 7½, 8      |



# **Gold Medal<sup>®</sup>**

*When pride in your own shooting ability is on the line, that's one thing. When national pride rides on your shooting ability, that's Federal. Gold Medal is manufactured with extra care and selected components to maximum performance and tight tolerances to help make the most of America's competitive shooting talent. When you step up to the line, you can have confidence in Gold Medal cartridges or shotshells.*





# GOLD MEDAL COMPETITION LOADS



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



*Gold Medal Match Pistol's award-winning accuracy—5 shots at 25 yards.*



## Gold Medal Centerfire Rifle

It's a rifleman's dream. Gold Medal Centerfire Rifle is legendary for extreme accuracy and has become the choice of competition shooters and law enforcement sharpshooters alike. The aerodynamic design of the Sierra MatchKing® bullet helps overcome wind resistance, resulting in flatter trajectory, consistent accuracy and higher retained energy.

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## Gold Medal Match Pistol

Round after round, it delivers match-grade accuracy. Bullet styles are matched to each caliber, to optimize that caliber's potential. We also custom-blend the powders and use only Gold Medal brass and primers for maximum quality.

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## Gold Medal Ultramatch Rimfire

The .22 has never had so much respect. UltraMatch was developed specifically for the U.S. Shooting team as a competitive round. We started from scratch, establishing more than 400 quality control variables along the way. In return, UltraMatch established a new level of competitive shooting performance.

---

## Gold Medal Shotshell

We make each shell like it's about to decide the world championship, because some of them actually have. At the 1996 Olympics, they helped American shooters take home gold, silver and bronze medals. In the 2000 Olympics it won a bronze for international skeet. Skeet, trap and sporting clays shooters have their choice of paper or plastic hulls. All Gold Medal shotshells feature our exclusive high-antimony extra-hard shot, a patented wad system and the cleanest burning powders, as well as the most reliable primer available today – Federal's 209A.



# GOLD MEDAL® METALLIC LOADS



This is the round developed for international and Olympic competition. Federal's engineers spent years developing this "blueprint round," which delivers accuracy that is 10-15% better than any other match rimfire round.



## G O L D M E D A L R I M F I R E

|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

These ballistic specifications were derived from test barrels 24 inches in length.



When the target is reduced to the center ring, you know that both you and your ammunition have performed well. With its match-grade accuracy and consistent performance, Federal Gold Medal Pistol ammunition can help you achieve this pretty sight. That's why Gold Medal Match Pistol has been the choice of serious match shooters and military marksmen for more than two decades.



## G O L D M E D A L P I S T O L

| USAGE | FEDERAL LOAD NO. | CALIBER                       | BULLET GRAINS | WGT. IN GRAMS | BULLET STYLE*        | FACTORY PRIMER NO. | VELOCITY IN FEET PER SECOND (TO NEAREST 10 FPS) |         |         |         |          | ENERGY IN FOOT-POUNDS (TO NEAREST 5 FOOT-POUNDS) |         |         |         |          | MID-RANGE TRAJECTORY |         |         |          | TEST BARREL LENGTH INCHES |
|-------|------------------|-------------------------------|---------------|---------------|----------------------|--------------------|-------------------------------------------------|---------|---------|---------|----------|--------------------------------------------------|---------|---------|---------|----------|----------------------|---------|---------|----------|---------------------------|
|       |                  |                               |               |               |                      |                    | MUZZLE                                          | 25 YDS. | 50 YDS. | 75 YDS. | 100 YDS. | MUZZLE                                           | 25 YDS. | 50 YDS. | 75 YDS. | 100 YDS. | 25 YDS.              | 50 YDS. | 75 YDS. | 100 YDS. |                           |
| 5     | GM9MP            | 9mm Luger (8x19mm Parabellum) | 124           | 8.03          | Truncated FMJ Match  | GM100M             | 1120                                            | 1070    | 1030    | 990     | 960      | 345                                              | 315     | 290     | 270     | 255      | 0.2                  | 0.9     | 2.2     | 4.1      | 4                         |
| 5     | GM38A            | 38 Special                    | 148           | 9.59          | Lead Wadcutter Match | GM100M             | 710                                             | 670     | 630     | 600     | 560      | 165                                              | 150     | 130     | 115     | 105      | 0.6                  | 2.4     | 5.7     | 10.8     | 4-V                       |
| 5     | GM45B            | 45 Auto                       | 185           | 11.99         | FMJ-SWC Match        | GM150M             | 780                                             | 730     | 700     | 660     | 620      | 245                                              | 220     | 200     | 175     | 160      | 0.5                  | 2.0     | 4.8     | 9.0      | 5                         |

\*MC Profile Match = Metal Case Profile Match FMJ = Full Metal Jacket SWC = Semi-Wadcutter

"V" indicates vented barrel to simulate service conditions.



These extraordinary loads combine the legendary Sierra MatchKing Boat-Tail bullet with Federal's proprietary delivery system. Stringent manufacturing controls, give you what many experts consider the most accurate match round available in a factory load. World-class centerfire shooters, as well as military and law enforcement officials, choose Gold Medal Centerfire rounds when it counts the most.



## G O L D M E D A L C E N T E R F I R E R I F L E

| USAGE | FEDERAL<br>LOAD<br>NO. | CALIBER   | BULLET<br>GRAINS              | WGT. IN<br>GRAMS | BULLET STYLE* | FACTORY<br>PRIMER<br>NO. | VELOCITY IN FEET PER SECOND<br>(TO NEAREST 10 FPS) |          |          |          |          |          |          |          |          |          |           |      |
|-------|------------------------|-----------|-------------------------------|------------------|---------------|--------------------------|----------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|------|
|       |                        |           |                               |                  |               |                          | MUZZLE                                             | 100 YDS. | 200 YDS. | 300 YDS. | 400 YDS. | 500 YDS. | 600 YDS. | 700 YDS. | 800 YDS. | 900 YDS. | 1000 YDS. |      |
| NEW   | 5                      | GM223M    | 223 Rem. (5.56x45mm)          | 69               | 4.47          | Sierra MatchKing BTHP    | GM205M                                             | 3000     | 2720     | 2460     | 2210     | 1980     | 1760     | 1560     | 1390     | 1240     | 1130      | 1060 |
|       | 5                      | GM223M3   | 223 Rem. (5.6x45mm)           | 77               | 5.0           | Sierra MatchKing BTHP    | GM205M                                             | 2750     | 2500     | 2270     | 2050     | 1840     | 1650     | 1470     | 1320     | 1190     | 1090      | 1020 |
|       | 5                      | GM308M    | 308 Win. (7.62x51mm)          | 168              | 10.88         | Sierra MatchKing BTHP    | GM210M                                             | 2600     | 2410     | 2230     | 2060     | 1890     | 1740     | 1590     | 1460     | 1340     | 1230      | 1150 |
|       | 5                      | GM308M2   | 308 Win. (7.62x51mm)          | 175              | 11.34         | Sierra MatchKing BTHP    | GM210M                                             | 2600     | 2420     | 2260     | 2090     | 1940     | 1790     | 1650     | 1520     | 1400     | 1300      | 1200 |
|       | 5                      | GM308M3** | 308 Win. (7.62x51mm)          | 155              | 10.04         | Sierra MatchKing BTHP    | GM210M                                             | 2950     | 2740     | 2540     | 2350     | 2170     | 2000     | 1830     | 1670     | 1530     | 1400      | 1280 |
|       | 5                      | GM3006M   | 30-06 Springfield (7.62x63mm) | 168              | 10.88         | Sierra MatchKing BTHP    | GM210M                                             | 2700     | 2510     | 2320     | 2150     | 1980     | 1820     | 1670     | 1530     | 1400     | 1290      | 1190 |
|       | 5                      | GM300WM   | 300 Win. Magnum               | 190              | 12.31         | Sierra MatchKing BTHP    | GM215M                                             | 2900     | 2730     | 2560     | 2400     | 2240     | 2090     | 1940     | 1810     | 1680     | 1550      | 1440 |

\*BTHP = Boat-Tail Hollow Point \*\*Palma Load in 30" Barrel These trajectory tables were calculated by computer using the best available data for each load. Trajectories are representative of the nominal behavior of each load at standard conditions (59°F temperature; barometric pressure of 29.53 inches; altitude at sea level). Shooters are cautioned that actual trajectories may differ due to variations in altitude, atmospheric conditions, guns, sights and ammunition.

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

# GOLD MEDAL® TARGET LOADS

## Gold Medal® Target

At the 1996 Olympics, Gold Medal International Paper shotshells helped American shooters take home gold, silver and bronze medals. In the 2000 Olympics it won a bronze for international skeet. Whether you shoot trap, skeet or sporting clays, this same technology and craftsmanship will help you improve your scores – and your trophy collection. There's a gauge, shot size and charge that's perfect for you, in plastic or paper. And from our reduced recoil Extra-Lite® to our powerful Handicap loads, every shell is designed for winning.



| GOLD MEDAL® TARGET                                   |       |                     |      |             |                 |                    |       |              |
|------------------------------------------------------|-------|---------------------|------|-------------|-----------------|--------------------|-------|--------------|
| FEDERAL LOAD NO.                                     | GAUGE | SHELL LENGTH INCHES | MM   | DRAM EQUIV. | MUZZLE VELOCITY | SHOT CHARGE OUNCES | GRAMS | SHOT SIZES   |
| <b>GOLD MEDAL® PLASTIC</b>                           |       |                     |      |             |                 |                    |       |              |
| T113                                                 | 12    | 2½                  | 70   | 2½          | 1180            | 1                  | 28.35 | 7½, 8, 8½, 9 |
| T115                                                 | 12    | 2½                  | 70   | 2½          | 1145            | 1½                 | 31.89 | 7½, 8, 9     |
| T176                                                 | 12    | 2½                  | 70   | 2½          | 1200            | ¾                  | 24.00 | 8            |
| T116                                                 | 12    | 2½                  | 70   | 3           | 1200            | 1½                 | 31.89 | 7½, 8, 9     |
| <b>GOLD MEDAL® SPREADER PLASTIC</b>                  |       |                     |      |             |                 |                    |       |              |
| T177                                                 | 12    | 2½                  | 70   | 2½          | 1450            | 1½                 | 31.89 | 8, 8½        |
| <b>GOLD MEDAL® PAPER</b>                             |       |                     |      |             |                 |                    |       |              |
| T175                                                 | 12    | 2½                  | 70   | 2½          | 1145            | 1                  | 28.35 | 7½, 8, 8½, 9 |
| T117                                                 | 12    | 2½                  | 70   | 2½          | 1145            | 1½                 | 31.89 | 7½, 8, 9     |
| T118                                                 | 12    | 2½                  | 70   | 3           | 1200            | 1½                 | 31.89 | 7½, 8, 9     |
| <b>GOLD MEDAL® EXTRA-LITE® PLASTIC (SOFT RECOIL)</b> |       |                     |      |             |                 |                    |       |              |
| T114                                                 | 12    | 2½                  | 70   | Extra-Lite  | 1100            | 1½                 | 31.89 | 7½, 8, 8½, 9 |
| <b>GOLD MEDAL® EXTRA-LITE® PAPER (SOFT RECOIL)</b>   |       |                     |      |             |                 |                    |       |              |
| T172                                                 | 12    | 2½                  | 70   | Extra-Lite  | 1100            | 1½                 | 31.89 | 7½, 8, 8½    |
| <b>GOLD MEDAL® HANDICAP PLASTIC (HIGH VELOCITY)</b>  |       |                     |      |             |                 |                    |       |              |
| <b>NEW</b> T178                                      | 12    | 2½                  | 70   | HDCP        | 1235            | 1½                 | 31.89 | 7½, 8        |
| <b>GOLD MEDAL® HANDICAP PAPER (HIGH VELOCITY)</b>    |       |                     |      |             |                 |                    |       |              |
| T171                                                 | 12    | 2½                  | 70   | HDCP        | 1235            | 1½                 | 31.89 | 7½, 8        |
| <b>GOLD MEDAL® PLASTIC (SMALL GAUGE)</b>             |       |                     |      |             |                 |                    |       |              |
| T206                                                 | 20    | 2½                  | 70   | 2½          | 1200            | ¾                  | 24.80 | 8, 8½, 9     |
| T280                                                 | 28    | 2½                  | 70   | 2           | 1230            | ¾                  | 21.25 | 8½, 9        |
| T412                                                 | 410   | 2½                  | 63.5 | Max.        | 1230            | ½                  | 14.17 | 8½, 9        |

| GOLD MEDAL® INTERNATIONAL  |       |                     |    |             |                 |                    |       |                                          |
|----------------------------|-------|---------------------|----|-------------|-----------------|--------------------|-------|------------------------------------------|
| FEDERAL LOAD NO.           | GAUGE | SHELL LENGTH INCHES | MM | DRAM EQUIV. | MUZZLE VELOCITY | SHOT CHARGE OUNCES | GRAMS | SHOT SIZES                               |
| <b>GOLD MEDAL® PLASTIC</b> |       |                     |    |             |                 |                    |       |                                          |
| N110                       | 12    | 2½                  | 70 | 3½          | 1325            | 24.00              |       | 7½ (2.4mm) Copper Plated<br>8½ (2.16 mm) |
| <b>GOLD MEDAL® PAPER</b>   |       |                     |    |             |                 |                    |       |                                          |
| N119                       | 12    | 2½                  | 70 | 3½          | 1325            | 24.00              |       | 7½ (2.4mm) Copper Plated<br>8½ (2.16 mm) |

### TRAP:

#### Men

8 out of the 12 All-American 1999-2000 Team Shoot Federal Ammunition

#### Women

5 out of the 8 All-American 1999-2000 Team Shoot Federal Ammunition

### SKEET:

Top 3 All-Around Open Class Shoot Federal Ammunition, Including the #1 Skeet Shooter in the NSSA.

| ENERGY IN FOOT-POUNDS<br>(TO NEAREST 5 FOOT-POUNDS) |             |             |             |             |             |             |             |             |             |              | WIND DRIFT IN INCHES<br>10 MPH CROSSWIND |             |             |             |             |             |             |             |             |              | HEIGHT OF BULLET TRAJECTORY IN INCHES ABOVE OR BELOW<br>LINE OF SIGHT IF ZEROED AT 100 YARDS.<br>SIGHTS 1.5 INCHES ABOVE BORE LINE. |             |             |             |             |             |             |             |             |              | FEDERAL<br>LOAD<br>NO. |
|-----------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|------------------------|
| MUZZLE                                              | 100<br>YDS. | 200<br>YDS. | 300<br>YDS. | 400<br>YDS. | 500<br>YDS. | 600<br>YDS. | 700<br>YDS. | 800<br>YDS. | 900<br>YDS. | 1000<br>YDS. | 100<br>YDS.                              | 200<br>YDS. | 300<br>YDS. | 400<br>YDS. | 500<br>YDS. | 600<br>YDS. | 700<br>YDS. | 800<br>YDS. | 900<br>YDS. | 1000<br>YDS. | 100<br>YDS.                                                                                                                         | 200<br>YDS. | 300<br>YDS. | 400<br>YDS. | 500<br>YDS. | 600<br>YDS. | 700<br>YDS. | 800<br>YDS. | 900<br>YDS. | 1000<br>YDS. |                        |
| 1380                                                | 1135        | 925         | 750         | 600         | 475         | 375         | 295         | 235         | 195         | 170          | 0.9                                      | 3.7         | 8.7         | 16.3        | 27.0        | 41.3        | 59.5        | 82.2        | 109.2       | 140.0        | +1.6                                                                                                                                | ⊕           | -7.4        | -21.9       | -45.3       | -79.8       | -128.7      | -194.1      | -280.2      | -388.7       | GM223M                 |
| 1295                                                | 1070        | 880         | 715         | 580         | 465         | 370         | 295         | 240         | 205         | 180          | 0.9                                      | 3.9         | 9.2         | 17.2        | 28.4        | 43.2        | 61.9        | 85.0        | 112.2       | 143.1        | +17.7                                                                                                                               | +31.3       | +38.1       | +36.6       | +24.7       | ⊕           | -40.9       | -101.9      | -187.4      | -302.1       | GM223M3                |
| 2520                                                | 2170        | 1855        | 1580        | 1340        | 1130        | 970         | 795         | 670         | 565         | 490          | 0.7                                      | 3.2         | 7.6         | 13.8        | 22.8        | 34.3        | 48.4        | 66.1        | 88.9        | 111.0        | +17.7                                                                                                                               | +31.0       | +37.2       | +35.4       | +23.5       | ⊕           | -36.7       | -90.8       | -164.3      | -261.7       | GM308M                 |
| 2625                                                | 2285        | 1975        | 1705        | 1460        | 1245        | 1060        | 900         | 765         | 650         | 560          | 0.6                                      | 3.0         | 7.0         | 12.7        | 20.8        | 31.4        | 44.3        | 60.1        | 79.1        | 101.0        | +17.2                                                                                                                               | +29.9       | +35.8       | +33.9       | +22.6       | ⊕           | -34.8       | -84.9       | -153.7      | -243.1       | GM308M2                |
| 2995                                                | 2585        | 2225        | 1905        | 1620        | 1370        | 1150        | 985         | 805         | 670         | 565          | 0.7                                      | 2.8         | 6.4         | 12.0        | 19.5        | 28.0        | 41.6        | 56.6        | 74.8        | 98.4         | +13.2                                                                                                                               | +23.3       | +28.1       | +26.5       | +17.4       | ⊕           | -28.7       | -69.4       | -125.4      | -200.3       | GM308M3                |
| 2720                                                | 2350        | 2010        | 1720        | 1460        | 1230        | 1040        | 870         | 730         | 620         | 530          | 0.7                                      | 3.0         | 7.2         | 13.2        | 21.4        | 32.4        | 45.9        | 62.4        | 82.4        | 105.5        | +16.2                                                                                                                               | +28.4       | +34.1       | +32.3       | +21.7       | ⊕           | -33.8       | -82.8       | -150.6      | -239.7       | GM306M                 |
| 3550                                                | 3135        | 2760        | 2420        | 2115        | 1840        | 1595        | 1375        | 1185        | 1015        | 870          | 0.6                                      | 2.4         | 5.5         | 10.1        | 16.4        | 24.2        | 34.2        | 46.6        | 61.1        | 78.0         | +12.9                                                                                                                               | +22.5       | +26.9       | +25.1       | +16.4       | ⊕           | -25.8       | -63.0       | -112.2      | -175.6       | GM300WM                |

# FEDERAL RIMFIRE SELECTIONS

It's a time tested equation. A favorite .22, a few old tin cans and a lot of lecturing on safety and etiquette. Plinking is how most of us got introduced to hunting and shooting, and many of us never lost the desire to "pop" a few cans every now and again. Some of us still drag out that same old lever-action .22, others have moved on to plinking with handguns and bigger calibers. The one thing that remains the same, however, is the satisfaction that comes with the sound of a squarely hit tin can. Pick up a box of Federal .22's and you'll see exactly what we mean.



## Premium® Rimfire

We've found that you have to put more effort into small calibers, not less. Serious shooters appreciate the performance of the .22 Win Mag cartridge. It has extraordinary velocity, flat trajectory and deadly accuracy. The Sierra jacketed hollow point delivers explosive expansion on all varmints, predators and small game. That's a lot to ask from a small caliber.



## Classic® Rimfire

A .22 is one of the most fun, most versatile inventions. Our Classic Rimfire selection covers just about everything you can think of. We offer copper-plated solids and hollow points as well as bird shot... and all of them carry the reliability Classic ammunition is known for.



## Federal Rimfire

A selection of .22 magnum and conventional high velocity rifle cartridges.



## American Eagle® Rimfire

American Eagle is a brand known for value. It won't break you, even if you pick up a whole summer's worth at one time. Each round delivers true Federal performance and quality—in a value-priced product.





| P R E M I U M <sup>®</sup> R I M F I R E B A L L I S T I C S |        |                        |                      |                |                             |               |                                                    |            |             |             |                                                     |            |             |             |                                          |             |             |                                                                                                                                     |             |             |            |             |             |
|--------------------------------------------------------------|--------|------------------------|----------------------|----------------|-----------------------------|---------------|----------------------------------------------------|------------|-------------|-------------|-----------------------------------------------------|------------|-------------|-------------|------------------------------------------|-------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|------------|-------------|-------------|
| USAGE                                                        | TYPE   | FEDERAL<br>LOAD<br>NO. | CARTRIDGE<br>PER BOX | CALIBER        | BULLET<br>WGT. IN<br>GRAINS | BULLET STYLE* | VELOCITY IN FEET PER SECOND<br>(TO NEAREST 10 FPS) |            |             |             | ENERGY IN FOOT-POUNDS<br>(TO NEAREST 5 FOOT-POUNDS) |            |             |             | WIND DRIFT IN INCHES<br>10 MPH CROSSWIND |             |             | HEIGHT OF BULLET TRAJECTORY IN INCHES ABOVE<br>OR BELOW LINE OF SIGHT IF ZEROED AT 100 YARDS.<br>SIGHTS 1.5 INCHES ABOVE BORE LINE. |             |             |            |             |             |
|                                                              |        |                        |                      |                |                             |               | MUZZLE                                             | 50<br>YDS. | 100<br>YDS. | 150<br>YDS. | MUZZLE                                              | 50<br>YDS. | 100<br>YDS. | 150<br>YDS. | 50<br>YDS.                               | 100<br>YDS. | 150<br>YDS. | 50<br>YDS.                                                                                                                          | 100<br>YDS. | 150<br>YDS. | 50<br>YDS. | 100<br>YDS. | 150<br>YDS. |
|                                                              |        |                        |                      |                |                             |               |                                                    |            |             |             |                                                     |            |             |             |                                          |             |             |                                                                                                                                     |             |             |            |             |             |
| 1                                                            | Magnum | P765                   | 50                   | 22 Win. Magnum | 30                          | TNT JHP       | 2200                                               | 1720       | 1340        | 1080        | 325                                                 | 200        | 120         | 80          | 1.6                                      | 7.2         | 17.5        | ⊕                                                                                                                                   | -1.5        | -8.1        | +0.8       | ⊕           | -5.8        |

\*JHP = Jacketed Hollow Point



| C L A S S I C <sup>®</sup> R I M F I R E B A L L I S T I C S |                        |                       |                         |                             |                      |                                                    |            |             |             |                                                     |            |             |             |                                          |             |             |                                                                                                                                     |             |             |            |             |             |
|--------------------------------------------------------------|------------------------|-----------------------|-------------------------|-----------------------------|----------------------|----------------------------------------------------|------------|-------------|-------------|-----------------------------------------------------|------------|-------------|-------------|------------------------------------------|-------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|------------|-------------|-------------|
| USAGE                                                        | FEDERAL<br>LOAD<br>NO. | CARTRIDGES<br>PER BOX | CALIBER*                | BULLET<br>WGT. IN<br>GRAINS | BULLET STYLE**       | VELOCITY IN FEET PER SECOND<br>(TO NEAREST 10 FPS) |            |             |             | ENERGY IN FOOT-POUNDS<br>(TO NEAREST 5 FOOT-POUNDS) |            |             |             | WIND DRIFT IN INCHES<br>10 MPH CROSSWIND |             |             | HEIGHT OF BULLET TRAJECTORY IN INCHES ABOVE<br>OR BELOW LINE OF SIGHT IF ZEROED AT 100 YARDS.<br>SIGHTS 1.5 INCHES ABOVE BORE LINE. |             |             |            |             |             |
|                                                              |                        |                       |                         |                             |                      | MUZZLE                                             | 50<br>YDS. | 100<br>YDS. | 150<br>YDS. | MUZZLE                                              | 50<br>YDS. | 100<br>YDS. | 150<br>YDS. | 50<br>YDS.                               | 100<br>YDS. | 150<br>YDS. | 50<br>YDS.                                                                                                                          | 100<br>YDS. | 150<br>YDS. | 50<br>YDS. | 100<br>YDS. | 150<br>YDS. |
| 1, 5                                                         | 710                    | 50                    | 22 Long Rifle HV        | 40                          | Solid, Copper Plated | 1260                                               | 1100       | 1020        | 940         | 140                                                 | 110        | 90          | 80          | 1.5                                      | 5.5         | 11.4        | ⊕                                                                                                                                   | -6.5        | -21.0       | +2.7       | ⊕           | -10.8       |
| 1, 5                                                         | 810                    | 100                   | 22 Long Rifle HV        | 40                          | Solid, Copper Plated | 1260                                               | 1100       | 1020        | 940         | 140                                                 | 110        | 90          | 80          | 1.5                                      | 5.5         | 11.4        | ⊕                                                                                                                                   | -6.5        | -21.0       | +2.7       | ⊕           | -10.8       |
| 1, 5                                                         | 712                    | 50                    | 22 Long Rifle HV        | 38                          | HP Copper Plated     | 1280                                               | 1120       | 1020        | 950         | 140                                                 | 105        | 90          | 75          | 1.6                                      | 5.8         | 12.1        | ⊕                                                                                                                                   | -6.3        | -20.6       | +2.7       | ⊕           | -10.6       |
| 1, 5                                                         | 724                    | 50                    | 22 Long Rifle HV+       | 31                          | HP Copper Plated     | 1550                                               | 1280       | 1100        | 980         | 165                                                 | 115        | 85          | 65          | 1.7                                      | 7.0         | 15.5        | ⊕                                                                                                                                   | -3.8        | -14.7       | +1.9       | ⊕           | -9.0        |
| 1                                                            | 716                    | 50                    | 22 Long Rifle Bird Shot | 25                          | No. 10 Lead Shot     | —                                                  | —          | —           | —           | —                                                   | —          | —           | —           | —                                        | —           | —           | —                                                                                                                                   | —           | —           | —          | —           | —           |

\*HV = High Velocity HV+ = Hyper-Velocity \*\*HP = Hollow Point These ballistic specifications were derived from test barrels 24 inches in length.



| F E D E R A L R I M F I R E . 2 2 B A L L I S T I C S |                        |                       |                  |                             |                   |                                                    |            |             |             |                                                     |            |             |             |                                          |             |             |                                                                                                                                     |             |             |            |             |             |
|-------------------------------------------------------|------------------------|-----------------------|------------------|-----------------------------|-------------------|----------------------------------------------------|------------|-------------|-------------|-----------------------------------------------------|------------|-------------|-------------|------------------------------------------|-------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|------------|-------------|-------------|
| TYPE                                                  | FEDERAL<br>LOAD<br>NO. | CARTRIDGES<br>PER BOX | CALIBER          | BULLET<br>WGT. IN<br>GRAINS | BULLET STYLE      | VELOCITY IN FEET PER SECOND<br>(TO NEAREST 10 FPS) |            |             |             | ENERGY IN FOOT-POUNDS<br>(TO NEAREST 5 FOOT-POUNDS) |            |             |             | WIND DRIFT IN INCHES<br>10 MPH CROSSWIND |             |             | HEIGHT OF BULLET TRAJECTORY IN INCHES ABOVE<br>OR BELOW LINE OF SIGHT IF ZEROED AT 100 YARDS.<br>SIGHTS 1.5 INCHES ABOVE BORE LINE. |             |             |            |             |             |
|                                                       |                        |                       |                  |                             |                   | MUZZLE                                             | 50<br>YDS. | 100<br>YDS. | 150<br>YDS. | MUZZLE                                              | 50<br>YDS. | 100<br>YDS. | 150<br>YDS. | 50<br>YDS.                               | 100<br>YDS. | 150<br>YDS. | 50<br>YDS.                                                                                                                          | 100<br>YDS. | 150<br>YDS. | 50<br>YDS. | 100<br>YDS. | 150<br>YDS. |
| High Velocity                                         | 510                    | 50                    | 22 Long Rifle HV | 40                          | Solid             | 1260                                               | 1100       | 1020        | 940         | 140                                                 | 110        | 90          | 80          | 1.5                                      | 5.5         | 11.4        | ⊕                                                                                                                                   | -6.5        | -21.0       | +2.7       | ⊕           | -10.8       |
| High Velocity                                         | 730                    | 325                   | 22 Long Rifle HV | 36                          | Hollow Point      | 1255                                               | 1100       | 1000        | 930         | 125                                                 | 95         | 80          | 70          | 1.5                                      | 5.7         | 12.1        | ⊕                                                                                                                                   | -5.6        | -19.9       | +2.8       | ⊕           | -11.4       |
| USAGE                                                 |                        |                       |                  |                             |                   |                                                    |            |             |             |                                                     |            |             |             |                                          |             |             |                                                                                                                                     |             |             |            |             |             |
| 1, 5                                                  | 757                    | 50                    | 22 Win. Magnum   | 50                          | Jacketed HP       | 1650                                               | 1450       | 1280        | 1150        | 300                                                 | 235        | 180         | 145         | 1.1                                      | 4.5         | 10.3        | ⊕                                                                                                                                   | -3.6        | -12.5       | +1.3       | ⊕           | -6.5        |
| 1, 5                                                  | 737                    | 50                    | 22 Win. Magnum   | 40                          | Full Metal Jacket | 1910                                               | 1600       | 1330        | 1140        | 325                                                 | 225        | 155         | 115         | 1.3                                      | 5.7         | 13.4        | ⊕                                                                                                                                   | -2.9        | -10.7       | +1.0       | ⊕           | -5.8        |
| 1, 5                                                  | 767                    | 50                    | 22 Win. Magnum   | 30                          | Jacketed HP       | 2200                                               | 1760       | 1400        | 1130        | 325                                                 | 205        | 130         | 85          | 1.4                                      | 6.3         | 15.4        | ⊕                                                                                                                                   | -1.3        | -7.3        | +0.7       | ⊕           | -5.2        |

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



| A M E R I C A N E A G L E <sup>®</sup> R I M F I R E B A L L I S T I C S |                        |                       |                             |                             |                  |                                                    |            |             |             |                                                     |            |             |             |                                          |             |             |                                                                                                                                     |             |             |            |             |             |
|--------------------------------------------------------------------------|------------------------|-----------------------|-----------------------------|-----------------------------|------------------|----------------------------------------------------|------------|-------------|-------------|-----------------------------------------------------|------------|-------------|-------------|------------------------------------------|-------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|------------|-------------|-------------|
| USAGE                                                                    | FEDERAL<br>LOAD<br>NO. | CARTRIDGES<br>PER BOX | CALIBER                     | BULLET<br>WGT. IN<br>GRAINS | BULLET STYLE*    | VELOCITY IN FEET PER SECOND<br>(TO NEAREST 10 FPS) |            |             |             | ENERGY IN FOOT-POUNDS<br>(TO NEAREST 5 FOOT-POUNDS) |            |             |             | WIND DRIFT IN INCHES<br>10 MPH CROSSWIND |             |             | HEIGHT OF BULLET TRAJECTORY IN INCHES ABOVE<br>OR BELOW LINE OF SIGHT IF ZEROED AT 100 YARDS.<br>SIGHTS 1.5 INCHES ABOVE BORE LINE. |             |             |            |             |             |
|                                                                          |                        |                       |                             |                             |                  | MUZZLE                                             | 50<br>YDS. | 100<br>YDS. | 150<br>YDS. | MUZZLE                                              | 50<br>YDS. | 100<br>YDS. | 150<br>YDS. | 50<br>YDS.                               | 100<br>YDS. | 150<br>YDS. | 50<br>YDS.                                                                                                                          | 100<br>YDS. | 150<br>YDS. | 50<br>YDS. | 100<br>YDS. | 150<br>YDS. |
| 1,5                                                                      | AE22                   | 40                    | 22 Long Rifle High Velocity | 38                          | HP Copper-Plated | 1280                                               | 1120       | 1020        | 950         | 140                                                 | 105        | 90          | 75          | 1.6                                      | 5.8         | 12.1        | ⊕                                                                                                                                   | -6.3        | -20.6       | +2.7       | ⊕           | -10.6       |
| 1,5                                                                      | AE5022                 | 50                    | 22 Long Rifle High Velocity | 40                          | Solid            | 1260                                               | 1100       | 1020        | 940         | 140                                                 | 110        | 90          | 80          | 1.5                                      | 5.5         | 11.4        | ⊕                                                                                                                                   | -6.5        | -21.0       | +2.7       | ⊕           | -10.8       |

\*HP = Hollow Point

Usage Key: 1 =Varmints, predators, small game 2 =Medium game 3 =Large, heavy game 4 = Dangerous game 5 = Target shooting, training, practice 6 = Self defense



# BALLISTICLEAN®

BallistiClean represents our dedication to the health of shooters at indoor ranges. Our pistol loads feature a Toxic Free™ primer and a solid copper-tin bullet designed to break up on a hard target. They eliminate airborne lead and help reduce barrel fouling. BallistiClean is also popular with range operators, because there are no hazardous waste disposal problems. It meets or exceeds all OSHA and EPA standards†. And because it's made to the same performance standards as all Federal ammunition, it's guaranteed to meet with your approval, too.



## Non-Toxic Pistol Loads

If you spend a lot of time at the indoor range, this is your load. BallistiClean is the world's first non-toxic ammunition. It totally eliminates airborne lead and barrel fouling. Combine that with its match-grade accuracy and you can see why it's creating such excitement.



You'll find BallistiClean in six popular pistol calibers.



| B A L L I S T I C L E A N® P I S T O L |                        |           |                                   |         |               |                            |                                                    |         |         |                                                     |         |         |                      |         |                                    |     |   |
|----------------------------------------|------------------------|-----------|-----------------------------------|---------|---------------|----------------------------|----------------------------------------------------|---------|---------|-----------------------------------------------------|---------|---------|----------------------|---------|------------------------------------|-----|---|
| USAGE                                  | FEDERAL<br>LOAD<br>NO. | CALIBER   | BULLET WGT. IN<br>GRAINS    GRAMS |         | BULLET STYLE* | FACTORY<br>PRIMER<br>NO.** | VELOCITY IN FEET PER SECOND<br>(TO NEAREST 10 FPS) |         |         | ENERGY IN FOOT-POUNDS<br>(TO NEAREST 5 FOOT-POUNDS) |         |         | MID-RANGE TRAJECTORY |         | TEST<br>BARREL<br>LENGTH<br>INCHES |     |   |
|                                        |                        |           |                                   |         |               |                            | MUZZLE                                             | 25 YDS. | 50 YDS. | MUZZLE                                              | 25 YDS. | 50 YDS. | 25 YDS.              | 50 YDS. |                                    |     |   |
| NEW                                    | 5                      | BC38NT3   | 38                                | Special | 125           | 8.10                       | Close Quarter Training                             | 205TMF  | 800     | 770                                                 | 740     | 175     | 165                  | 150     | 0.3                                | 1.3 | 4 |
| NEW                                    | 5                      | BC9NT3    | 9                                 | MMI     | 100           | 6.48                       | Close Quarter Training                             | 205TMF  | 1230    | 1160                                                | 1110    | 335     | 300                  | 275     | 0.2                                | 0.8 | 4 |
| NEW                                    | 5                      | BC40NT3   | 40                                | S&W     | 135           | 8.75                       | Close Quarter Training                             | 205TMF  | 1190    | 1150                                                | 1110    | 425     | 395                  | 370     | 0.2                                | 0.8 | 4 |
| NEW                                    | 5                      | BC45NT3   | 45                                | Auto    | 165           | 10.66                      | Close Quarter Training                             | 205TMF  | 1080    | 1010                                                | 960     | 425     | 375                  | 335     | 0.3                                | 1.1 | 5 |
| NEW                                    | 5                      | BC3575NT3 | 357                               | Sig     | 100           | 6.48                       | Close Quarter Training                             | 205TMF  | 1475    | 1360                                                | 1250    | 480     | 410                  | 345     | 0.1                                | 0.5 | 4 |

\*SP = Soft Point    \*\*TMF = Toxic-Metal Free    "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  
† State and local regulations may vary.

# QUALITY FEDERAL COMPONENTS

## Gold Medal Brass & Primers

The same quality brass that makes our Gold Medal line the choice of match shooters everywhere is also available to those who make their own. Gold Medal Brass is manufactured to exacting dimensional tolerances and annealed to precise hardness to ensure a long productive life for each cartridge. We put a little extra effort into them, so you get a little more performance out of them.



| GOLD MEDAL® BRASS |               |
|-------------------|---------------|
| FEDERAL LOAD NO.  | CALIBER       |
| GM223UP           | 223 Rem.      |
| GM308UP           | 308 Win.      |
| GM3006UP          | 30-06 Spring. |
| GM300WUP          | 300 Win. Mag. |

| GOLD MEDAL® 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 Mag. Rifle Match    | Magnum rifle                                 | .210             |

## Tungsten Polymer Shot

If you're a serious waterfowl hunter, now you can reload your own Tungsten Polymer. It has the same density and similar performance as lead. You can also use the same size as lead.

| TUNGSTEN POLYMERS |                  |         |
|-------------------|------------------|---------|
|                   | FEDERAL LOAD NO. | CALIBER |
| NEW               | TP4              | #4 Shot |
| NEW               | TP6              | #6 Shot |

## Federal Primers

When you're hot, you're hot. Only Federal makes these basic lead styphnate primers. They're the hottest-burning primers you can put in a handload.

| FEDERAL PRIMERS  |                     |                                              |                  |
|------------------|---------------------|----------------------------------------------|------------------|
| FEDERAL LOAD NO. | TYPE                | USE                                          | NOMINAL DIAMETER |
| 209A             | Shotshell           | 10, 12, 16, 20, 28 and 410 gauge             | .243             |
| 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 Mag. Rifle    | Magnum rifle                                 | .210             |

## Sabot Muzzleload Slugs

Federal continues to bring high performance to serious black powder shooters. These sabot slugs give you excellent down-range ballistics. The Trophy Bonded copper jacket is fusion bonded to the core for outstanding penetration, even on big game. You'll find them in .50 and .54 caliber. They're exclusively for rifled barrels with a twist of 1 turn in 48 inches, or faster. New this year is the Barnes Expander MZ in .50 and .54 caliber sabots. These sabots feature solid copper projectile with large hollow point cartridges which provide reliable expansion and 100% weight retention.

| MUZZLE LOADER SABOT BULLETS |               |                                     |             |
|-----------------------------|---------------|-------------------------------------|-------------|
| PART NO.                    | BULLET WEIGHT |                                     | SABOT SIZE  |
| PML1                        | 250 grain     | .45 caliber Trophy Bonded Bear Claw | .50 caliber |
| PML2                        | 250 grain     | .45 caliber Trophy Bonded Bear Claw | .54 caliber |
| PML3                        | 300 grain     | .45 caliber Trophy Bonded Bear Claw | .50 caliber |
| PML4                        | 300 grain     | .45 caliber Trophy Bonded Bear Claw | .54 caliber |
| NEW PML5                    | 250 grain     | .45 caliber Barnes Expander         | .50 caliber |
| NEW PML6                    | 325 grain     | .50 caliber Barnes Expander         | .54 caliber |

# Shot Sizes Lead and Steel

| Pellet Diameter | F    | T    | BBB  | BB   | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 7½   | 8    | 8½   | 9    |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Inches          | .22  | .20  | .19  | .18  | .16  | .15  | .14  | .13  | .12  | .11  | .10  | .095 | .09  | .085 | .08  |
| mm              | 5.59 | 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 |

| AVERAGE PELLET COUNT—LEAD SHOT                 |         |         |         |         |         |         |         |         |         |         |         |         |         |
|------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Weight of Shot in Ounces (Grams) (3% ANTIMONY) |         |         |         |         |         |         |         |         |         |         |         |         |         |
| SHOT SIZE                                      | 1/2     | 11/16   | 3/4     | 7/8     | 1       | 1-1/8   | 1-1/4   | 1-3/8   | 1-1/2   | 1-5/8   | 1-7/8   | 2       | 2-1/4   |
|                                                | (14.17) | (19.49) | (21.25) | (24.90) | (28.35) | (31.89) | (35.44) | (38.98) | (42.52) | (46.06) | (53.15) | (56.70) | (63.78) |
| 9                                              | 292     | 402     | 439     | 512     | 585     | 658     | 731     | 804     | 877     | 951     | 1097    | 1170    | 1316    |
| 8½                                             | 249     | 342     | 373     | 435     | 497     | 559     | 621     | 683     | 745     | 808     | 932     | 994     | 1118    |
| 8                                              | 205     | 282     | 307     | 359     | 410     | 461     | 512     | 564     | 615     | 666     | 769     | 820     | 922     |
| 7½                                             | 175     | 241     | 262     | 306     | 350     | 394     | 437     | 481     | 525     | 569     | 656     | 700     | 787     |
| 6                                              | 112     | 155     | 169     | 197     | 225     | 253     | 281     | 309     | 337     | 366     | 422     | 450     | 506     |
| 5                                              | 85      | 117     | 127     | 149     | 170     | 191     | 212     | 234     | 255     | 276     | 319     | 340     | 382     |
| 4                                              | 67      | 93      | 101     | 118     | 135     | 152     | 169     | 186     | 202     | 219     | 253     | 270     | 304     |
| 2                                              | 43      | 60      | 65      | 76      | 87      | 98      | 109     | 120     | 130     | 141     | 163     | 174     | 196     |
| BB                                             | 25      | 34      | 37      | 44      | 50      | 56      | 62      | 69      | 75      | 81      | 94      | 100     | 112     |

| AVERAGE PELLET COUNT—STEEL SHOT  |         |         |         |         |         |         |         |         |         |
|----------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Weight of Shot in Ounces (Grams) |         |         |         |         |         |         |         |         |         |
| SHOT SIZE                        | 3/4     | 15/16   | 1       | 1-1/8   | 1-1/4   | 1-3/8   | 1-1/2   | 1-5/8   | 1-7/8   |
|                                  | (21.25) | (26.58) | (28.35) | (31.89) | (35.44) | (38.98) | (42.52) | (46.06) | (53.15) |
| 7                                | 316     | 395     | 422     | 475     | 527     | 580     | 633     | 659     | 695     |
| 6                                | 236     | 295     | 315     | 354     | 394     | 433     | 472     | 492     | 512     |
| 5                                | 182     | 228     | 243     | 273     | 304     | 334     | 364     | 380     | 395     |
| 4                                | 144     | 180     | 192     | 216     | 240     | 264     | 288     | 300     | 312     |
| 3                                | 118     | 143     | 158     | 178     | 197     | 217     | 237     | 247     | 257     |
| 2                                | 94      | 117     | 125     | 141     | 156     | 172     | 187     | 195     | 203     |
| 1                                | 77      | 97      | 103     | 116     | 129     | 142     | 154     | 161     | 167     |
| BB                               | 54      | 67      | 72      | 81      | 90      | 99      | 108     | 112     | 117     |
| BBB                              | 46      | 58      | 62      | 70      | 77      | 85      | 93      | 97      | 101     |
| T                                | 39      | 49      | 52      | 58      | 65      | 71      | 78      | 81      | 84      |
| F                                | 30      | 37      | 40      | 45      | 50      | 55      | 60      | 62      | 65      |

## Density and Pellet Count, Demystified

High density pellets provide better downrange energy and penetration. Federal's tungsten-iron pellets are 94% as dense as lead and 10% denser than bismuth. Federal steel is about 75% the density of tungsten.

A given shot size is always a specific diameter, regardless of material; a #2 steel pellet is .15"/3.81mm, as is a #2 lead or a #2 tungsten. But, because of differences in density, there are 125 steel #2 pellets in an ounce, compared to 94 tungsten #2 pellets or 87 lead #2 pellets.

Keep in mind that both steel and tungsten pellets retain their shape better than lead pellets when fired, so they provide greater velocity and tighter patterns for better payload delivery.

| PELLETS PER OUNCE |      |                  |               |       |
|-------------------|------|------------------|---------------|-------|
| Pellet Size       | Lead | Tungsten-Polymer | Tungsten-Iron | Steel |
| F                 |      |                  |               | 40    |
| T                 |      |                  |               | 52    |
| BBB               |      |                  |               | 62    |
| BB                | 50   |                  | 54            | 72    |
| 1                 |      |                  |               | 103   |
| 2                 | 87   |                  | 94            | 125   |
| 3                 |      |                  |               | 158   |
| 4                 | 135  | 135              | 140           | 192   |
| 5                 | 170  |                  |               | 243   |
| 6                 | 225  | 225              |               | 315   |
| 7                 |      |                  |               | 422   |

| PELLET DENSITY   |            |
|------------------|------------|
| Tungsten-Polymer | 11.1 gm/cc |
| Lead             | 11.1 gm/cc |
| Tungsten-Iron    | 10.4 gm/cc |
| Bismuth          | 9.4 gm/cc  |
| Steel            | 7.9 gm/cc  |

## Side-by-Side Tungsten Comparison

|                    | Tungsten-Iron & Steel                                         | Tungsten-Polymer                                                  | Tungsten-Iron                                                      |
|--------------------|---------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------------|
| Shot Sizes         | 4 x 2                                                         | 4, 6                                                              | BBB, BB, 2, 4                                                      |
| Application        | Jump, Decoys                                                  | Over Decoys                                                       | Pass Shooting                                                      |
| Favorite Targets   | Small, Medium and Large Ducks                                 | Small, Medium, Large Ducks<br>Upland Game                         | Large Ducks<br>Geese                                               |
| Shot Features      | High Velocity<br>80-85% Patterns<br>Tight Inner Tungsten Core | Same Velocity as Lead<br>80-85% Patterns<br>Pellet Energy of Lead | Fast Like Steel<br>90% Patterns<br>Pellet Energy Greater Than Lead |
| Shotgun Preference | Safe For Shotguns<br>Approved For Steel Shot                  | Safe For All Shotguns                                             | Safe For Shotguns<br>Approved For Steel Shot                       |

| SELECTING THE RIGHT SHOTSHELL                                                                                                                    |                     |          |         |                 |                  |                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------|---------|-----------------|------------------|---------------------|
| Game                                                                                                                                             | Gauge               | Distance | Choke*  | Lead Shot Sizes | Steel Shot Sizes | Tungsten Shot Sizes |
|  Turkey                                                         | 10, 12, 20          | 20–30 yd | F       | 4, 5, 6, 7½     |                  | 4, 6                |
|                                                                                                                                                  | 10, 12              | 30+      | F/EF    | 4, 5, 6         |                  | 4, 6                |
|  Pheasant<br>Prairie Grouse                                     | 12, 16, 20          | 20–30    | IC/M    | 5, 6, 7½        | 3, 4, 5, 6       | 4, 6                |
|                                                                                                                                                  | 12, 16              | 30+      | M/F     | 4, 5, 6         | 3, 4, 5          | 4, 6                |
|  Ruffed Grouse<br>Partridge                                     | 12, 16, 20, 28      | 20–30    | SK/IC/M | 6, 7½, 8        | 5, 6, 7          |                     |
|                                                                                                                                                  | 12, 16, 20          | 30+      | IC/M    | 5, 6, 7½        | 4, 5             |                     |
|  Quail                                                          | 12, 16, 20, 28      | 20–30    | SK/IC/M | 7½, 8, 9        | 6, 7             |                     |
|                                                                                                                                                  | 12, 16, 20          | 30+      | IC/M    | 7½, 8           | 5, 6             |                     |
|  Dove                                                           | 12, 16, 20, 28      | 20–30    | SK/IC/M | 7½, 8, 9        | 7                |                     |
|                                                                                                                                                  | 12, 16, 20          | 30+      | IC/M    | 7½, 8           | 7                |                     |
|  Woodcock<br>Rail Snipe                                         | 12, 16, 20, 28      | 20–30    | SK/IC/M | 7½, 8, 9        | 7                |                     |
|                                                                                                                                                  | 12, 16, 20          | 30+      | IC/M    | 7½, 8           | 7                |                     |
|  Rabbit<br>Squirrel                                             | 12, 16, 20, 28, 410 | 20–30    | IC/M    | 4, 5, 6, 7½     | 2, 4             |                     |
|                                                                                                                                                  | 12, 16, 20          | 30+      | IC/M/F  | 4, 5, 6         | 2                |                     |
|  Large Ducks<br>(Mallard, Pintail)                             | 10, 12, 16          | 20–30    | IC/M    |                 | 1, 2, 3, 4       | 2, 4, 6             |
|                                                                                                                                                  | 10, 12, 16          | 30+      | IC/M/F  |                 | BB, 1, 2, 3      | 2, 4                |
|  Medium Ducks<br>(Wood Duck, Widgeon)                         | 12, 16, 20          | 20–30    | IC/M    |                 | 2, 3, 4, 5, 6    | 4, 6                |
|                                                                                                                                                  | 12, 16, 20          | 30+      | IC/M/F  |                 | 1, 2, 3, 4, 5    | 4, 6                |
|  Small Ducks<br>(Teal, Bufflehead)                            | 12, 16, 20          | 20–30    | IC/M    |                 | 3, 4, 5, 6       | 4, 6                |
|                                                                                                                                                  | 12, 16, 20          | 30+      | IC/M/F  |                 | 3, 4, 5          | 4, 6                |
|  Large Geese<br>(Giant, Western Canada)                       | 10, 12              | 20–30    | IC/M    |                 | T, BBB, BB       | BBB, BB             |
|                                                                                                                                                  | 10, 12              | 30+      | IC/M/F  |                 | T, BBB, BB       | BBB, BB             |
|  Medium Geese<br>(Snow, Lesser Canada)                        | 10, 12              | 20–30    | IC/M    |                 | BBB, BB, 1       | BB, 2               |
|                                                                                                                                                  | 10, 12              | 30+      | IC/M/F  |                 | BBB, BB, 1       | BB, 2               |
| * Federal recommends patterning your gun to determine the optimum choke. EF = Extra Full F = Full M = Modified IC = Improved Cylinder SK = Skeet |                     |          |         |                 |                  |                     |

## Recommendations For Sighting In Your Rifle

- Make sure your rifle and scope are in good working order. Double-check action screws and scope mounts. Select an area that provides a safe backdrop; a rifle range is the safest and most controlled location. Always wear hearing protection and shooting glasses.
- Shoot from a solid rest, such as a benchrest or sandbags. Carefully squeeze off three shots at the center of the target. Start by shooting at close distance to get “on paper.” Evaluate the round before making any adjustments.
- The center of your three-shot group is the point of impact; adjust your sights to move the point of impact to the center point on the target. (Move open rear sights in the same direction you want the point of impact to move; adjust scopes following the instructions on the dials.)
- Increase the range until you are at the actual expected hunting distance. If you will be shooting at very long range, you may need to allow for bullet drop by sighting in at a higher zero point.
- Different ammunition brands and/or bullet weights may affect you groups. If your rifle gets bumped or dropped, be sure to verify your zero to ensure clean, accurate kills.



# BLOUNT

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