

HODGDON®



2022 BASIC RELOADING MANUAL





Winchester® StaBALL™ 6.5 Precision Rifle Propellant

- World's first temperature-insensitive BALL Powder®, stable in extreme hot or cold conditions
- Precise metering produces small velocity and pressure standard deviations
- Increased velocity
- Reduced copper fouling
- Environmentally "green"
- Available in 1-LB and 8-LB canisters

Ideal for 6 Creedmoor, 6 GT, 6.5 Creedmoor, 7MM-08, 270 Winchester and many more

winchesterpowder.com

Five Powder Reloading Manuals in One

Reloading data from FIVE – Hodgdon®, IMR®, Winchester®, RAMSHOT®, and Accurate® Smokeless Propellant – powder brands are included in this one reloading manual. Data is listed for many popular RIFLE, PISTOL and SHOTSHELL loads.

For the most comprehensive, up-to-date reloading data, including many new caliber introductions, please visit the Hodgdon Reloading Data Center at www.HodgdonReloading.com or call 913-362-9455 for technical service.



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Mission Statement

Hodgdon Powder Company operates following Biblical principles to honor God. Our mission is to provide quality products and services in a manner which enhances the lives of our employees, families, customers, suppliers, and our communities. In doing so, we will deal with integrity and honesty, reflecting that people are more important than dollars and that our purpose is to bring credit to our Lord Jesus Christ.

Shooters!

Guarantee the future of shooting by educating tomorrow's handloaders. Hodgdon Powder, Co. supports the NRA Foundation's Handloading Education Endowment Fund – you can too! Contact; Executive Director, The NRA Foundation, 11250 Waples Mill Road, Fairfax, VA 22030

About the Cover

The cover for our 75th Anniversary edition of our Basic Manual is a re-creation of a cover that was originally featured on the Hodgdon Shooters & Reloaders Catalog No. 10, published in 1969. This cover depicts our three founders – elder son J.B., father Bruce and younger son Bob – in our original ballistics lab located at 7710 West 50 Highway in Shawnee, KS.



NRA



Pistol & Shotgun Powders

In Order of Approximate Burning Rate

TITEWAD® Through advanced technology, Hodgdon Powder Co. has produced a superior flattened spherical shotgun powder. Unlike spherical propellants in the past, TITEWAD features low charge weights, mild muzzle report, minimum recoil and reduced residue for optimum ballistic performance. This outstanding propellant, designed for 12 gauge only, meters superbly and is ideal for 7/8, 1 and 1-1/8 ounce loads. As the name implies, "a little goes a long way!"

Hi-Skor 700-X® This extruded flake powder is ideally suited for shotshells in 12 and 16 gauge where clay target and light field loads are the norm. It doubles as an excellent pistol target powder for such cartridges as the 38 Special and 45 ACP and many more.

TRAIL BOSS® TRAIL BOSS was designed specifically for low velocity lead bullets suitable for Cowboy Action shooting. It is primarily a pistol powder but has some application in rifles. It is based on a whole new technology that allows very high loading density, good flow through powder measures, stability in severe temperature variation, and, most importantly, additional safety to the handloader.

CLAYS Introduced in January 1992, CLAYS has "taken the clay target world by storm." It is the most clean burning, consistent 12 gauge 7/8 oz., 1 oz. and 1-1/8 oz. powder available today. The superb burning characteristics of this powder produce soft, smooth recoil, ultra clean burning, mild muzzle report, and excellent patterns. These features transfer directly to handgun applications where target shooting is the main goal. 45 ACP and 38 Special are only two of the cartridges in which CLAYS provides "tack driving" target accuracy with flawless functioning.

INTERNATIONAL® INTERNATIONAL is the second in the "CLAYS" series of powders. Its burning speed accommodates 12 gauge, 2-3/4" light, medium and heavy 1-1/8 oz. loads, with some very nice 1 oz. listings. Also, it works splendidly in 20 gauge, 7/8 oz. target and light field loads. As with CLAYS, clean burning and flawless functioning is the rule.

TITEGROUP® As the name implies, this spherical propellant was designed for accuracy. Because of the unique design, this powder provides flawless ignition with all types of primers including the lead-free versions. Unlike pistol powders of the past, powder position in large cases (45 Colt, 357 Magnum and others) has virtually no effect on velocity and performance. Cowboy Action, Bullseye and Combat Shooters should love this one! TITEGROUP has it all!

HP38® HP38 is a spherical pistol powder that is great for low velocity and mid-range target loads in 38 Special, 44 Special and 45 ACP. This high energy powder provides economy in loading.

UNIVERSAL® UNIVERSAL handles the broadest spectrum of cartridges for both pistol and shotgun. From the 25 ACP to the 44 Magnum, UNIVERSAL provides outstanding performance. In shotgun, it produces excellent loads in 28 gauge 3/4 oz., 20 gauge 7/8 oz., 16 gauge 1 oz., and even 12 gauge.

CFE®PISTOL New for 2014, this excellent spherical pistol propellant utilizes our CFE formula, Copper Fouling Eraser, virtually eliminating copper fouling, plus providing top velocities with clean burning and minimal muzzle flash. For competitive shooters and handloaders seeking the perfect powder for target or self-defense loads, CFE Pistol provides optimum performance in cartridges like the 9mm Luger, 38 Super, 40 S&W, the venerable 45 ACP and many more.

HS-6® HS-6 is a fine spherical propellant that has wide application in pistol and shotshell.

In pistol, 9mm, 38 Super, 40 S&W and 10mm Auto are some of the cartridges where HS-6 provides top performance. In shotshell HS-6 yields excellent heavy field loadings in 10 gauge, 12 gauge, 16 gauge, 20 gauge, and even the efficient and effective 28 gauge. HS-6 is truly an outstanding spherical propellant.

LONGSHOT® This new spherical shotshell powder is the most versatile heavy field propellant Hodgdon has ever produced. Great field loads in 10 gauge, 12 gauge, 16 gauge, 20 gauge, and 28 gauge are shown herein. This propellant provides true magnum velocities with superb patterns. In addition, LONGSHOT is the best choice for those competitors shooting "race" games such as "Buddy" shoots, "Annie Oakleys" and more.

H110® H110 is the spherical powder that screams "no wimps, please!" It delivers top velocities with top accuracy in the 44 Magnum, 454 Casull and 475 Linebaugh. Silhouette shooters claim it is the most accurate 44 powder they have ever used. In addition, H110 is "the" choice for the minuscule 410 bore shotgun. It handles all 2-1/2", 1/2 oz. loads as well as all 11/16 oz. loads for the 3" version.

LIL' GUN® The 410 bore has long been difficult to load due to shortcomings in powder fit, metering, along with poor burning characteristics. Not any more! LIL' GUN was designed to fit, meter and perform flawlessly in the 410 bore. No more spilled shot or bulged cases. In addition LIL' GUN has many magnum pistol applications and is superb in the 22 Hornet.

Rifle Powders

In Order of Approximate Burning Rate

CFE BLK® This new spherical propellant was designed expressly for the 300 Remington AAC Blackout cartridge. It provides full function of AR type rifles throughout the range of bullet weights, and is perfect for those sub-sonic reduced loads. In addition to being outstanding in the 300 Blackout, it performs beautifully in many smaller capacity cartridges, in particular, varmint specials such as the 17 Hornet, 17 Ackley Hornet, 218 Bee, 221 Fireball and many more. It also yields top performance in the 6.8 Remington SPC and the 7.62X39 MM Russian cartridge. This fine powder meters like a dream, and leaves no copper residue, extending accuracy for longer shooting periods, and making clean-up quick and easy. It is truly a remarkable new propellant!

H4198® This Extreme Extruded propellant has gone through some changes since its inception, all the time maintaining the same important burning speed of the past. The kernels were shortened for improved metering and necessary elements were added to make it extremely insensitive to hot/cold temperatures. H4198 is outstanding in cartridges like the 222 Remington, 444 Marlin and 7.62 x 39.

H322® This extreme powder has won more benchrest matches than all other propellants combined. It provides match grade accuracy in small and medium capacity cartridges like the 223 Remington, 6mm PPC and the 7mm TCU. As a fine extruded powder, it flows through powder measures with superb accuracy.

BENCHMARK® As the name implies, this Extreme Extruded propellant was developed for precision cartridges, such as benchrest and small varmint cartridges like the 6mm PPC, 22 PPC, 6mm BR, 22 BR, 223 Remington and 222 Remington. Additionally, it performs superbly in the 308 Winchester with light match bullets like the 147 gr. and 155 gr. versions. With small, easy metering granules, competitors will love how it flows through progressive presses.

H335® H335 originated as a military powder for the 5.56 NATO, or 223 Remington, as handloaders know it. Obviously, it sees endless use in the 222 Remington, 223 Remington and other small cartridges. In particular, prairie dog shooters will find this a favorite, as J.B. Hodgdon has for years!

H4895® H4895 is a most versatile rifle powder. This member of the Extreme Extruded line is great for 17 Remington, 250-3000 Savage, 308 Winchester and 458 Winchester, to name

just a few. It is amazingly accurate in every cartridge where it is listed in our data. It had its origin in the 30-06 as a military powder and was the first powder Bruce Hodgdon sold to the loading public.

VARGET® The first of Hodgdon's revolutionary Extreme Extruded Powders, VARGET features small extruded grains for uniform metering, insensitivity to hot/cold temperatures and higher energy for improved velocities over other powders in its burning speed class. Easy ignition and clean burning translate into superb accuracy, higher scores and more clean, one shot kills. Outstanding performance and velocity can be obtained in popular cartridges such as the 223 Remington, 22-250 Remington, 308 Winchester, 30-06, 375 H&H and many more.

BL-C(2) BL-C(2) is a spherical powder that began as a military powder used in the 7.62 NATO, commonly known as the 308 Winchester. When it was first introduced to the handloader, benchrest shooters and other target shooters made it an instant success. BL-C(2) works extremely well in the 223 Remington, 17 Remington, 22 PPC and or course, the 308 Winchester, plus many more.

CFE®223 Introduced in January 2012, this versatile, spherical rifle propellant incorporates in its formula CFE, Copper Fouling Eraser. This ingredient, originally used in military propellant, greatly deters copper fouling. It contributes to longer periods of top accuracy with less barrel cleaning time. Being a spherical powder, metering is superbly accurate. CFE 223 yields top velocities in many cartridges such as the 204 Ruger, 223 Remington/5.56mm NATO, 22-250 Remington and the 308 Winchester/7.62mm NATO, plus many, many more. Match, Varmint and AR shooters will love this one!

LEVEREVOLUTION® Hodgdon Powder Company and Hornady® Manufacturing have teamed together to answer the frequently asked reloading question; "Can I buy the powder used in Hornady LEVERevolution factory ammunition?" Yes, this is the same spherical propellant used in Hornady's innovative and award winning high performance factory ammunition. This fabulous propellant meters flawlessly and makes lever action cartridges like the 30-30 Winchester yield velocities in excess of 100 fps over any published handloads, with even greater gains over factory ammunition. Other cartridges include the 35 Remington, 308 Marlin Express, 338 Marlin Express and the 25-35 Winchester. The list of cartridges and bullets is limited with this highly specialized powder, but where it works, it really works!

H380® H380 was an unnamed spherical rifle propellant when the late Bruce Hodgdon first used it. When a 38.0 grain charge behind a 52 grain bullet gave one hole groups from his 22 caliber Wildcat (now called 22-250), he appropriately named the powder H380. H380 is also a superb performer in the 220 Swift, 243, 257 Roberts and other fine varmint cartridges.

H4350 The burning speed of this Extreme Extruded propellant has been known to shooters for decades. Over time, Hodgdon has modernized H4350 by shortening the grains for improved metering and making it insensitive to hot/cold temperatures. H4350 is great in cartridges such as the 243 Winchester, 6mm Remington, 270 Winchester, 338 Winchester Magnum and many more. For magnums with light to moderate weight bullets, it can't be beat!

HYBRID 100V This excellent new product is the result of combining the technologies of spherical powders and extruded propellants. The chemistry of a spherical powder is combined with the geometry of an extruded propellant, creating a smooth-metering, super short granule extruded shaped propellant with high energy. HYBRID 100V has a burn speed between H4350 and H4831, yielding superb performance in such popular calibers as 270 Winchester, 243 Winchester Super Short Magnum, 7mm Remington Magnum, 300 Winchester Magnum and dozens more.

H4831® It is probably safe to say more big game has been taken with H4831 than any other powder. Bruce Hodgdon was the first supplier to introduce this popular burning rate in 1950. Since that time, it has become a favorite for cartridges like the 270 Winchester, 25-06 Remington, 280 Remington and 300 Winchester Magnum. As an Extreme Extruded propellant it shares the fine quality of insensitivity to hot/cold temperatures, as well as superb

uniformity from lot to lot.

H4831SC® Ballistically, this Extreme Extruded powder is the exact copy of H4831. Physically, it has a shorter grain size, therefore, the designation SC, or short cut. The shorter, more compact kernels allow the powder to flow through powder measures more smoothly, helping to alleviate the constant cutting of granules. With the smoother flow characteristics comes more uniform charge weights while the individual grains orient more compactly, creating better loading density.

SUPERFORMANCE® This is another of the spherical powders Hodgdon® Powder Company and Hornady® Manufacturing introduced to answer the frequently asked reloading question: "Can I buy the powder used in Hornady Superformance factory ammunition?" Superformance delivers striking velocities in cartridges like the 22-250 Remington, 243 Winchester and 300 Winchester Short Magnum. Velocities well in excess of 100 fps over the best published handloads and even larger gains over factory ammunition! Because this propellant is tailored for specific applications, the number of cartridges and bullets is limited, but where it works, it really works!

H1000® This very slow-burning Extreme Extruded powder is perfect for highly over-bored magnums like the 7mm Remington Magnum, 7mm STW and the 30-378 Weatherby. In addition, with heavy bullets, H1000 gives top velocity and performance in such cartridges as the 6mm-284, 257 Weatherby, 270 Winchester, and 300 Winchester Magnum. In a short period of time this powder has achieved considerable notoriety among long range match shooters.

RETUMBO® This magnum powder was designed expressly for the really large over-bored cartridges such as the 7mm Remington Ultra Magnum, 300 Remington Ultra Magnum, 30-378 Weatherby Magnum, etc. RETUMBO adds 40-100 fps more velocity to these cartridges when compared with other normal magnum powders. In addition, it is an Extreme Powder, making it perfect for big game hunting under all types of conditions.

US869® This spherical powder is superb with heavy bullets in big, over-bore, magnum rifle cartridges. Because it is very dense, it allows the shooter to use enough powder to create true magnum loads. US869 is also used in the 50 caliber BMG, where it yields high velocity and great accuracy with 750 and 800 grain projectiles. A truly great 1000-yard competition propellant.



In the shooting world there are two kinds of people. Those who like to plink around, with little or no regard to accuracy and consistency. And then there are those who take the discipline of shooting to a whole new extreme. Shooters, not unlike yourself, who sense changes in performance with changes in the weather. People who recognize lot differences in certain powders with a single pull of the trigger. For those discriminating few, Hodgdon is proud to offer the Extreme Series. This exclusive line of extruded powders was developed with extreme conditions in mind. They're manufactured so you can't tell the difference in performance from one lot to the next. And whether you're hunting deer in the dead of winter or prairie dogs in the middle of July, you'll get the same consistent performance, load after load. Some would say our obsession with performance is a bit extreme. We couldn't agree more.

TEMPERATURE EXTREMES

You live in the "real" world, where 12-point bucks are rare and it's never 70° when you decide to fire your rifle. Where you shoot it's either freezing cold or burning hot. Not exactly ideal conditions for your rifle, or you for that matter. Fortunately, Hodgdon's Extreme powders perform just as well at 125° as they do at 0°. Using an exclusive extrusion process and exacting quality standards, Hodgdon has created a line of propellants that performs better at hot and cold temperatures than any other powder on the market. So when you sight in your rifle this summer, you can count on unbeatable accuracy this winter.

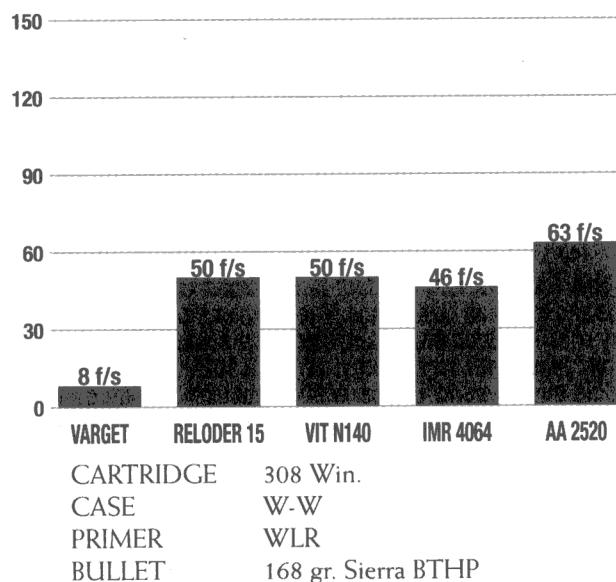
LOT CONSISTENCY

Hodgdon goes through painstaking measures to ensure that all powder is consistent from lot to lot. And while the casual user may never notice, you certainly will. No matter when you purchase Hodgdon powder, you can feel confident that the performance you receive from one lot will match that of another.

SHORT GRAIN METERING

With Hodgdon Extreme powders you get the best of both worlds. On one hand you get extruded performance that outperforms the best long grain powders on the market in any kind of weather. On the other, the shorter grains produced in the extrusion process meter extremely well. That means you can use Extreme powders in progressive loaders for high volume loading. Whether you're loading for targets, big game, plinking or varmints, Hodgdon has an extruded powder that will work for you.

EXTREME VELOCITY SPREAD FOR TEMPERATURES BETWEEN 0°-125°





Rifle Usage

| | TARGET | SILHOUETTE | LIGHT | MEDIUM | MAGNUM | 50 CAL. |
|----------------|--------|------------|-------|--------|--------|---------|
| TRAIL BOSS | X | | X | | | |
| Lil' Gun | | | X | | | |
| CFE BLK | X | | X | | | |
| H4198 | X | | X | | | |
| H322 | X | X | X | X | | |
| BENCHMARK | X | X | X | X | | |
| H335 | X | X | X | X | | |
| H4895 | X | X | X | X | | |
| VARGET | X | X | X | X | | |
| BL-C(2) | X | X | X | X | | |
| CFE 223 | X | X | X | X | | |
| LEVEREVOLUTION | X | X | X | X | | |
| H380 | | X | | | | |
| H4350 | | X | | X | X | |
| HYBRID 100V | | X | | X | X | |
| H4831 | | | | X | X | |
| H4831 SC | | | | X | X | |
| SUPERFORMANCE | | | | X | X | |
| H1000 | | | | X | X | |
| RETUMBO | | | | | X | |
| US869 | | | | | X | X |

Shotgun Usage

| | TARGET | | | | LIGHT FIELD | | | | HEAVY FIELD | | | | | | |
|---------------|--------|-------|-------|----------|-------------|-------|-------|-------|-------------|-------|-------|-------|-------|-------|----------|
| | 12 GA | 20 GA | 28 GA | 410 BORE | 12 GA | 16 GA | 20 GA | 28 GA | 410 BORE | 10 GA | 12 GA | 16 GA | 20 GA | 28 GA | 410 BORE |
| Clays | X | | | | X | | | | | | | | | | |
| TITEWAD | X | | | | X | | | | | | | | | | |
| Hi-Skor 700X | X | | | | X | X | | | | | | | | | |
| INTERNATIONAL | X | X | | | X | X | | | | | | | | | |
| TITEGROUP | X | | | | X | | | | | | | | | | |
| UNIVERSAL | X | X | X | | X | X | X | X | | | | | | | |
| HS-6 | | X | | | X | X | X | X | X | | X | | | | |
| LONGSHOT | X | X | X | | | | | | | | X | X | X | X | X |
| Lil'Gun | | | X | | | | | | | X | | | X | X | X |
| H110 | | | | X | | | | | X | | | X | | | X |

Pistol Usage

| | TARGET | LIGHT DUTY | MEDIUM DUTY | MAGNUM |
|--------------|--------|------------|-------------|--------|
| Clays | X | X | | |
| Hi-Skor 700X | X | X | | |
| TITEGROUP | X | X | | |
| TRAIL BOSS | X | X | | |
| UNIVERSAL | X | X | X | |
| HP-38 | X | X | X | |
| HS-6 | | X | X | |
| CFE PISTOL | X | X | X | X |
| Lil'Gun | | | X | X |
| H110 | | | X | X |



Pistol & Shotgun Powders

In Order of Approximate Burning Rate

IMR 4227 This is the Magnum Pistol Powder in the IMR lineup. If it says Magnum, IMR 4227 is the choice for true magnum velocities and performance. In rifles this powder delivers excellent velocity and accuracy in such cartridges as the 22 Hornet and 221 Fireball.

Rifle Powders

In Order of Approximate Burning Rate

IMR 4198 This fast burning rifle powder gives outstanding performance in cartridges like the 222 Remington, 221 Fireball, 45-70, and 450 Marlin. Varmint shooters with small-bore cartridges love it.

IMR 3031 A propellant with many uses, IMR 3031 has long been a favorite of 308 Match shooters using 168-grain match bullets. It is equally effective in small-capacity varmint cartridges from 223 Remington to 22-250 Remington, and it's a great 30-30 Winchester powder.

IMR 8208 XBR® The latest in the versatile IMR line of fine propellants, this accurate metering, super short grained rifle powder was designed expressly for match, varmint, and AR sniper cartridges. Ideally suited for cartridges like the 223 Remington/5.56mm, 308 Winchester/7.62mm NATO and the 6mm PPC, shooters will find IMR 8208 XBR totally insensitive to changes in temperature, while yielding max velocities and "tack driving" accuracy. Clearly, the competitor's "choice" and the Varmint Hunter's "dream powder".

IMR 4895® Originally a military powder featured in the 30-06, IMR 4895 is extremely versatile. From the 17 Remington to the 243 Winchester to the 375 H&H Magnum, accuracy and performance are excellent. In addition, it is a longtime favorite of Match shooters.

IMR 4166 This fine, extruded propellant is the first in the series of Enduron Technology powders. The main features of the Enduron Technology series are copper fouling reducer, insensitivity to temperature changes, ideal loading density and being environmentally friendly. IMR 4166 is the perfect burn speed for cartridges like the 308 Win/7.62mm NATO, 22-250 Remington, 257 Roberts and dozens more. Positively, a versatile, match grade propellant.

IMR 4064® The most versatile propellant in the IMR line, used for 223 Remington, 22-250 Remington, 220 Swift, 6mm Remington, 243 Winchester Super Short Magnum, 308 Winchester, 338 Winchester Magnum, and the list goes on and on. Versatility with uniformity and accuracy.

IMR 4350 The number one choice for the new short magnums, both Remington and Winchester versions. For magnums with light to medium bullet weights, IMR 4350 is the best choice.

IMR 4451 Another new Enduron Technology extruded powder, IMR 4451, gives top performance in the venerable 30-06, 270 Winchester and 300 Winchester Short Magnum, to name just a few. This propellant is ideally suited for many, many mid-range burn speed cartridges. Simply scroll through the list of cartridges on the Hodgdon Reloading Data Center, and see how many of your favorite cartridges are covered with this fine powder. Once the shooter tries this one in that favorite cartridge, his search is over!

IMR 4831® Slightly slower in burn speed than IMR 4350, IMR 4831 gives top velocities and performance with heavier bullets in medium-sized magnums.

IMR 4955 This new Enduron extruded powder is a top PERFORMER with such great cartridges as the 270 Winchester, 25-06 Remington, 280 Remington and 300 Winchester Magnum, and many, many more. It falls directly between IMR 4451 and IMR 7977 in burn speed, providing top performance for all cartridges used for big game. As with all Enduron powders, it is temperature insensitive, clean burning, minimizes copper fouling and is totally safe for the environment. Adding this propellant to the Enduron line filled in an important place in the chart. IMR 4955, plus the original three, provides top loading for cartridges from 223

Remington to the massive 500 Nitro Express Magnum.

IMR 7828 SSC® This magnum rifle powder has exactly the same burn rate as standard IMR 7828 and uses the same data. However, due to the super short kernels, the grain is virtually as good as a spherical powder. This allows up to 4% more powder space in the case and in many loads yields more velocity than standard 7828. Such loads are marked with an asterisk in the data to show where standard 7828 will not fit.

IMR 7977 The slowest burn rate Enduron Technology extruded powder and a true magnum cartridge propellant. Yields outstanding performance in such cartridges as the 300 Winchester Magnum, 7mm Remington Magnum, 338 Lapua and a host of others. Loading density is perfect for magnums, nicely filling the case at maximum charges, contributing to superb uniformity and accuracy.

IMR 8133 The latest IMR Legendary Powder, IMR 8133, is an Enduron Technology powder. It was designed to provide optimum performance in the large overbored cartridges like the 300 Remington Ultra Magnum, 6.5mm-300 Weatherby Magnum, 28 Nosler and a host of other fine magnum cartridges. It provides excellent loading density, copper fouling eliminator, insensitivity to extreme temperature changes and is environmentally friendly. It is, without equal, the consummate big game cartridge propellant.



Rifle Usage

| | TARGET | SILHOUETTE | LIGHT | MEDIUM | MAGNUM | 50 CAL. |
|--------------|--------|------------|-------|--------|--------|---------|
| IMR 4227 | | | X | | | |
| IMR 4198 | X | | X | | | |
| IMR 3031 | X | X | X | X | | |
| IMR 8208 XBR | X | X | X | X | | |
| IMR 4895 | X | X | X | X | | |
| IMR 4166 | X | X | X | X | | |
| IMR 4064 | X | X | X | X | | |
| IMR 4350 | | X | | X | X | |
| IMR 4451 | | X | | X | X | |
| IMR 4831 | | | | X | X | |
| IMR 4955 | | | | X | X | |
| IMR 7828 SSC | | | | X | X | |
| IMR 7977 | | | | X | X | |
| IMR 8133 | | | | | X | |

Shotgun Usage

| | TARGET | LIGHT FIELD | | | | HEAVY FIELD | | | | | | | | | | |
|----------|--------|-------------|-------|-------|----------|-------------|-------|-------|-------|----------|-------|-------|-------|-------|-------|----------|
| | | 12 GA | 20 GA | 28 GA | 410 BORE | 12 GA | 16 GA | 20 GA | 28 GA | 410 BORE | 10 GA | 12 GA | 16 GA | 20 GA | 28 GA | 410 BORE |
| IMR 4227 | | | | X | | | | | X | | | | | | | X |

Pistol Usage

| | TARGET | LIGHT DUTY | MEDIUM DUTY | MAGNUM | |
|----------|--------|------------|-------------|--------|---|
| IMR 4227 | | | | X | X |

WINCHESTER®

SMOKELESS PROPELLANTS

FOR LOADING PROFESSIONALS

Pistol & Shotgun Powders

In Order of Approximate Burning Rate

WST® The choice for 12 gauge AA duplicate handloads and standard velocity handgun loads. Ideal for use in 45 Auto match applications. Consistent, clean, low flash and smoke are benefits to the shooter.

244™ This new Winchester pistol powder has all the latest features for a mid-range, burn speed, propellant. Winchester 244 BALL Powder® Propellant is a WINCLEAN® product with a host of attributes, including reduced copper fouling, clean burning and precise metering. The versatility of this fine powder can be found in 9mm Luger, 45 ACP, 38 Special and many, many more pistol cartridges. From plinking rounds to top competitive target loads, 244 is a "Clean" winner!

231® One of the most popular reloading propellants, 231 is a pistol powder ideally suited to the 38 Special, 45 Auto, and 9mm standard loads. Consistency, clean burning, low flash, and a broad range of applications make this a powder of choice for any pistol cartridge reloader.

SUPER HANDICAP™ Super Handicap is the same propellant used in Winchester's Super Handicap ammunition. This slow-burning, high energy propellant gives the shooter great handicap or long range sporting clays loads at up to 1250 fps with a 1-1/8 ounce shot charge. Great velocity with excellent patterns!

AUTOCOMP™ AutoComp is a new high performance powder optimized for semi-auto pistol competition and self defense. It yields faster split times with improved compensator gas volume in calibers like 9mm Luger, 40 S&W, 38 Super and 45 ACP. All this with less muzzle flash and clean burning!

WSF® Super-Field propellant is the propellant of choice for Winchester 20 gauge AA Target loads. WSF is an ideal choice to maximize velocities in 12 gauge 1-1/8 ounce and 1-1/4 ounce loads. Super-Field also performs well in 38 Super, 9mm, and 40 S&W pistol loads. Excellent propellant for action pistol applications.

572™ This new Winchester powder is strategically designed to do a myriad of jobs. First it has the correct burn rate to create the famous 3-3/4 dram equivalent, 1-1/4 oz, 1330 fps 12 gauge load, originated by Winchester. And, it does it with any brand case! Back Fence competitors and pheasant hunters will be delighted. Now, that is just one application, and it goes on to provide clay target loads superb in 20 gauge and 28 gauge, top field loads in both, and, outstanding field loads for the wonderful 16 gauge. It even is used to duplicate the always popular 28 gauge WAAHS target load. In addition, 572 has a vast number of pistol applications, ranging from the 25 ACP to the 45 ACP, and all popular calibers in between. This is one positively versatile and useful propellant.

296® This propellant was developed for Winchester factory-loaded ammunition for 357 Magnum, 44 Magnum, and 410 bore. Its high loading density provides optimal velocity. 296 is recommended by Winchester for 410 bore AA loads.

Rifle Powders

In Order of Approximate Burning Rate

748® 748 is the powder of choice for 223 Remington ammunition. The low flame temperature of 748 extends barrel life compared to other similar speed powders. It is ideal for a wide variety of centerfire rifle loads, including 222 Remington, 30-30 Winchester, 308 Winchester, and up to 485 Winchester Magnum.

760® Combine Winchester components with 760 to duplicate 30-06 Springfield factory load ballistics. 760 has ideal flow characteristics that give it an advantage over other propellants with similar burn rates. 760 is recommended as an excellent choice for 22-250 Remington, 300 Winchester Magnum, as well as 300 WSM.

StaBall™ 6.5 Never before, has a BALL Powder propellant been temperature insensitive, but now, StaBALL 6.5 is stable in all conditions, hot or cold! Case fill/loading density is 93-100% in all cartridges appropriate for the burn speed, creating the perfect condition for small standard deviations in velocity and pressure, a key element in achieving bench rest accuracy. Like all spherical powders, it meters precisely. It provides speed that eclipses all powders in its burn speed class, (30-200 fps), along with a copper fouling reducing additive. Stability, precision and speed makes Winchester's new StaBALL 6.5 powder the "Best of the Best"!

Top performance is achieved in these cartridges, 6 Creedmoor, 6.5 Creedmoor, 270 Win., 7mm-08 Rem., 375 H&H, plus many, many more. Long Range competitive shooters and hunters will find this is THE powder for top performance at all ranges, and all conditions!

WINCHESTER.
SMOKELESS PROPELLANTS
FOR LOADING PROFESSIONALS

Rifle Usage

| | TARGET | SILHOUETTE | LIGHT | MEDIUM | MAGNUM | 50 CAL. |
|-------------|--------|------------|-------|--------|--------|---------|
| 748 | X | X | X | X | | |
| 760 | | X | X | X | X | |
| STABALL 6.5 | X | X | X | X | X | |

Shotgun Usage

| | TARGET | | | | LIGHT FIELD | | | | HEAVY FIELD | | | | | | | |
|----------------|--------|-------|-------|----------|-------------|-------|-------|-------|-------------|-------|-------|-------|-------|-------|----------|--|
| | 12 GA | 20 GA | 28 GA | 410 BORE | 12 GA | 16 GA | 20 GA | 28 GA | 410 BORE | 10 GA | 12 GA | 16 GA | 20 GA | 28 GA | 410 BORE | |
| WST | X | | | | X | | | | | | | | | | | |
| SUPER HANDICAP | X | | | | X | | | | | | | | | | | |
| WSF | X | X | | | X | X | | | | | X | | | | | |
| 572 | X | X | X | | X | X | X | X | | | X | X | X | X | | |
| 296 | | | | X | | | X | | | | | | | | X | |

Pistol Usage

| | TARGET | LIGHT DUTY | MEDIUM DUTY | MAGNUM |
|----------|--------|------------|-------------|--------|
| WST | X | X | | |
| 231 | X | X | X | |
| 244 | X | X | X | |
| AutoComp | X | X | X | |
| WSF | X | X | | |
| 572 | X | X | X | |
| 296 | | | X | X |



Pistol & Shotgun Powders

In Order of Approximate Burning Rate

RAMSHOT COMPETITION is an extremely clean burning powder for 12 gauge target shooters. A double-base modified (flattened) spherical propellant, it is designed for the 12 gauge competitive clay target shooter who demands a clean burning powder with low recoil and consistent performance. It is a low bulk density powder that is also well suited for many low pressure, low velocity Cowboy Action loads. Made in USA.

RAMSHOT SILHOUETTE is the choice for competitive shooters in IPSC, IDPA and USPSA. A double base high performance spherical powder, its an excellent choice for 9mm Luger, 38 Super, 40 S&W and 45 ACP. Silhouette's low flash, high velocity and clean burning characteristics make it a perfect choice for indoor ranges and law enforcement applications. Made in the USA.

RAMSHOT TRUE BLUE® is the perfect powder for classic calibers such as the 38 Special, 44 Special, and 45 Long Colt. It's a double-base, spherical powder with great metering properties that make it an ideal choice for consistent results using high volume, progressive reloading equipment. It works well with cast bullets and is also an excellent choice for 9mm law enforcement rounds. Made in Belgium.

RAMSHOT ZIP® is a clean burning, double-base propellant designed for a wide range of handgun calibers. Low charge weights make it the most economical and versatile choice for high volume shooters with the added benefit of low recoil, low flash and minimum residue. 9mm, 40 S&W, and 45 ACP are just a few of the cartridges that are well-matched with this powder. Made in Belgium.

RAMSHOT ENFORCER® is the best choice for high performance, full power loads in magnum handgun cartridges. It is ideally suited for the 44 Magnum, 454 Casull, 460 S&W, and the 500 S&W. It's a double-base spherical powder with excellent metering qualities that meets the performance expectations of serious magnum handgun shooters. Made in Belgium.

Rifle Powders

In Order of Approximate Burning Rate

X-TERMINATOR® is a double-base spherical powder designed for the high volume 223 varmint hunter who demands a clean burning, accurate powder. Excellent flow characteristics and small grain size allow trouble-free loading in small diameter case necks. It performs extremely well with light to medium weight bullets in the 223 Remington. It is also an excellent choice for 17 Remington, 20 caliber cartridges, 222 Remington and the 45-70 Government. Made in Belgium.

TAC® is a double-base spherical propellant that sets the standard for extreme accuracy and reliability with heavy bullets in the 223 Remington and match applications in 308 Winchester. Excellent flow characteristics ensure consistent metering and charge weights for repeatable results with progressive loading equipment. It is the choice for shooters who demand precision and accuracy. Made in Belgium.

RAMSHOT BIG GAME® is the ultimate 30-06 Springfield powder. Outstanding velocities and optimum case-fill result in excellent shot to shot consistency. These properties also allow it to outperform the competition in the popular 22-250 Remington and other calibers in this range.

It's an extremely clean burning, double-base spherical powder with outstanding metering properties. Made in Belgium.

RAMSHOT HUNTER is a double-base, clean burning, high performance propellant that is perfect for elk country cartridges such as the 270 Winchester, 300 WSM and 338 Win Mag. It's the only spherical powder in the popular 4350 burn range making it an ideal powder for a wide range of cartridges. The excellent flow characteristics allow accurate metering and consistent shot-to-shot results. Made in Belgium.

RAMSHOT MAGNUM is the ultimate high performance magnum rifle powder. It provides outstanding performance from the popular 7mm Rem Mag and 300 Win Mag through the Remington Ultra Mags and 338 Lapua. It is a double-base spherical propellant that is the number one choice for high performance "overbore" magnum cartridges. Made in Belgium.

RAMSHOT LRT® is one of the slowest spherical powders ever developed and was created for high performance at extreme ranges. Designed specifically for the 338 Lapua Magnum using heavy, high ballistic coefficient bullets. LRT offers high load densities and low standard deviations for superior accuracy. Hunters who prefer the advantages of overbore magnums like the 257 Weatherby or 30 Nosler will find that LRT meters more easily and produces flatter trajectories than rival propellants.



Rifle Usage

Shotgun Usage

Pistol Usage

| | TARGET | LIGHT DUTY | EDIUM DUTY | MAGNUM |
|------------|--------|------------|------------|--------|
| SILHOUETTE | X | X | | |
| TRUE BLUE | X | X | | |
| ZIP | X | X | X | |
| ENFORCER | | | X | X |



Pistol & Shotgun Powders

ACCURATE Nitro 100 NF® is a fast burning, flattened spherical, double-base shotshell powder that is a clean burning, cost-effective choice for all 12 gauge target applications.

ACCURATE No. 2® is an extremely fast burning, double-base, spherical handgun powder suitable for use in a wide range of handgun calibers. Low recoil and low flash make No. 2 well suited for use in short barrel, concealed carry applications. No. 2 is a non-position sensitive powder and low charge weights make it an economical and versatile choice for high volume handgun shooters. Made in the USA.

ACCURATE No. 5® is a fast burning, double-base, spherical handgun propellant. This powder is extremely versatile and can be used in many handgun calibers. No. 5 offers a wide performance range from target and Cowboy Action applications to full power defense loads. This powder meters well and strikes a good balance between ballistics and cost efficiency. Made in the USA.

ACCURATE No. 7® is an intermediate burning, double-base, spherical powder suitable for a wide range of handgun calibers. No. 7 is an excellent choice for high performance semi-auto handguns such as the 357 Sig, 38 Super, and 40 S&W. No. 7 is also a cost effective solution in larger magnum handgun calibers. Made in the USA.

ACCURATE TCM® was created in 2017, when Western Powders partnered with Armscor International to provide a canister-grade propellant for their innovative .22 TCM cartridge. Producing 2,000 fps at the muzzle with virtually no recoil, this accurate and fun little cartridge brings handgun performance to a new level for small game hunting and plinking. Accurate TCM also has a place with old favorites, with data for hunting loads in .357 Magnum, .41 Magnum and high-pressure .45 Colt cartridges. Made in the USA.

ACCURATE No. 9® is a double-base, spherical powder that is ideal for high power loads in traditional magnums such as the 357 Mag, 41 Rem Mag and 44 Rem Mag. It is particularly well suited to the 357 Sig and 10mm Auto, providing high velocities and excellent case-fill. No. 9 can also be used with large magnums such as the 460 S&W and 500 S&W for economical target loads. Made in the USA.

ACCURATE 4100 is a double-base, slow burning spherical powder with exceptional metering characteristics. 4100 is an excellent choice for high performance, full power loads in magnum handgun cartridges. It is ideally suited for the 357 Mag, 41 Mag, 44 Mag, 454 Casull, 460 S&W and the 500 S&W. Made in Belgium.

Rifle Powders

ACCURATE 5744® is an extremely fast burning, double-base, extruded powder. This unique powder can be used in a wide range of rifle calibers and magnum handguns. 5744 is characterized by excellent ignition and consistency over a very wide performance range. Low bulk density and superior ignition characteristics make 5744 an excellent choice for reduced loads in many rifle calibers and in large capacity black powder cartridges such as the 45-70 through 45-120 and 50-90 through 50-120. Made in Canada.

ACCURATE 1680 is an extremely fast burning, double-base, spherical rifle powder that is well suited for large capacity, high performance handgun cartridges such as the 454 Casull, 460 S&W and 500 S&W. 1680 is also an excellent choice for the 22 Hornet and 7.62 x 39, as well as other low-capacity rifle cartridges. Made in the USA.

ACCURATE LT-30 is the second powder in Accurate's line of benchrest-grade Light Target powders and is optimized for use in the .30 BR cartridge. While still in its development phase, LT-30 was used to win numerous matches, even claiming a world record along the way. With a burn rate similar to 4198, this single-base fine grained powder is at home in many smaller capacity cartridges from the 6.5 Grendel to the .222 Remington.

ACCURATE 2200, a varmint hunting favorite, is an excellent choice for many cartridges including the .223 Remington, 6.5 Grendel and 6.8 SPC. Spherical granules allow precise metering and easy flow through small cartridge necks, making Accurate 2200® ideal for use in progressive loaders.

ACCURATE LT-32® is a fine-grained extruded powder that was developed for 6mm PPC benchrest competitors. Already a proven match winner, LT-32's excellent shot-to-shot consistency and low standard deviations provide the ultimate competitive edge. Due to its small grain size, LT-32 flows like a spherical powder and allows for very precise handloading. It also offers outstanding accuracy in varmint and tactical cartridges, including the .223 Rem and .308 Win. LT-32 is the perfect choice for extreme accuracy.

ACCURATE 2015® is a fast burning, single-base, extruded rifle powder that performs very well in small to medium varmint calibers (223 Rem, 204 Ruger). 2015 is a popular choice for first-class performance in benchrest calibers and is also recommended for use in large bore straight wall cartridges (45-70, 458 Win Mag). 2015 offers excellent ignition characteristics and shot-to-shot consistency. Made in Canada.

ACCURATE 2230® is a fast burning, double-base, spherical rifle propellant. This versatile powder was designed around the 223 Remington, but can be used in many small and medium caliber cartridges including the 308 Winchester. 2230 also works well in big bore straight wall cartridges such as the 458 Winchester. The excellent flow characteristics and grain size of 2230 make it ideal for progressive loading. Made in Belgium.

ACCURATE 2460 is a fast burning, double-base, spherical rifle powder that is a slower derivative of the AA2230 powder. It is suitable for small and medium sized caliber applications but with slightly higher loading densities than AA2230. It provides an additional option for shooters to fine tune and optimize loads and combinations with calibers ranging from the 223 Rem, 308 Win and for light bullets in the 30-06 Springfield. 2460 is within the threshold limit for M14 systems. Made in the USA.

ACCURATE 2495 is a single-base, extruded rifle powder that was developed for the 308 Win and can be used over a wide range of rifle calibers. It is a very popular powder for 308 Win. NRA High Power shooting disciplines, as well as heavy bullet 223 Rem target applications. 2495 is a versatile powder with excellent ignition characteristics that provides excellent shot-to-shot consistency. Made in Canada.

ACCURATE 4064® is an intermediate burning, single-base, short cut extruded rifle powder designed around the 30-06 Springfield. This versatile powder works extremely well in calibers such as 22-250, 220 Swift, 243 WSM, 7x57 Mauser and the 325 WSM. 4064 is a popular choice for High Power shooters using the M1 Garand. Made in Canada.

ACCURATE 2520 is a medium burning, double-base, spherical rifle propellant designed around the 308 Winchester. 2520 is our "Camp Perry" powder and is extremely popular with many service shooters. 2520 also performs extremely well in 223 Remington with heavy match bullets (62 to 80 grain). This versatile powder has superb flow characteristics and is well within the threshold limit for the M14 systems. Made in Belgium.

ACCURATE 2700 is a medium burning, double-base, spherical rifle powder that is ideally suited for the 30-06 Springfield and other medium capacity calibers such as the 22-250 Remington, 220 Swift, and the 243 Winchester. 2700 provides excellent velocities and performance in the Winchester Super Short Magnum cartridges. Made in the USA.

ACCURATE 4350® is a short cut, single-base, extruded rifle powder in the extremely popular 4350 burn range. A highly versatile powder, 4350 can be used in a wide range of cartridges from the popular 243 Win to the 338 Win Mag with excellent results. Accurate 4350® is an exceptional choice for the 6mm Rem, 270 Win, 280 Rem and 300 WSM. This short cut extruded powder meters accurately, resulting in excellent shot-to-shot consistency. Made in Canada.

ACCURATE MAGPRO is a slow burning, double-base, spherical rifle powder developed specifically for the Short magnums of both Winchester (WSM) and Remington (SAUM). This powder excels in the 6.5 x 284, 270 WSM and the 7mm WSM. MAGPRO is an excellent choice for belted cartridges such as the 300 Win Mag. Consistent performance can be expected from the excellent metering properties of MAGPRO. Made in the USA.



Rifle Usage

| | TARGET | SILHOUETTE | LIGHT | EDIUM | MAGNUM | 50 CAL. |
|-----------------|--------|------------|-------|-------|--------|---------|
| ACCURATE 5744 | X | | X | X | | |
| ACCURATE 1680 | X | | X | | | |
| ACCURATE LT-30 | X | X | X | | | |
| Accurate 2200 | X | | X | | | |
| ACCURATE LT-32 | X | X | X | | | |
| ACCURATE 2015 | X | X | X | X | | |
| Accurate 2230 | X | X | X | X | | |
| ACCURATE 2460 | X | X | X | X | | |
| ACCURATE 2495 | X | X | X | X | | |
| ACCURATE 4064 | X | X | X | X | | |
| ACCURATE 2520 | X | X | X | X | | |
| Accurate 2700 | | X | | X | X | |
| Accurate 4350 | | X | | X | X | |
| Accurate MagPro | | | | X | X | |

Shotgun Usage

| | TARGET | | | LIGHT FIELD | | | HEAVY FIELD | | | | | | | | |
|--------------|--------|-------|-------|-------------|-------|-------|-------------|-------|----------|-------|-------|-------|-------|-------|----------|
| | 12 GA | 20 GA | 28 GA | 410 BORE | 12 GA | 16 GA | 20 GA | 28 GA | 410 BORE | 10 GA | 12 GA | 16 GA | 20 GA | 28 GA | 410 BORE |
| NITRO 100 NF | X | | | | | | | | | | | | | | |

Pistol Usage

| | TARGET | LIGHT DUTY | MEDIUM DUTY | MAGNUM |
|-------------------|--------|------------|-------------|--------|
| ACCURATE NO.2 | X | X | X | |
| ACCURATE NO.5 | | X | X | |
| ACCURATE NO.7 | X | X | X | |
| ACCURATE TCM | | X | X | X |
| ACCURATE NO.9 | | | X | X |
| ACCURATE NO.11 FS | | | X | X |

Smokeless Propellant Properties

Smokeless powders, or propellants, are essentially mixtures of chemicals designed to burn under controlled conditions at the proper rate to propel a projectile from a gun.

Smokeless powders are made in three forms:

1. Thin, circular flakes or wafers
2. Small cylinders
3. Small spheres

Single-base smokeless powders derive their main source of energy from nitrocellulose.

The energy released from double-base smokeless powders is derived from both nitrocellulose and nitroglycerin.

All smokeless powders are extremely flammable; by design, they are intended to burn rapidly and vigorously when ignited.

Oxygen from the air is not necessary for the combustion of smokeless powders since they contain sufficient built-in oxygen to burn completely, even in an enclosed space such as the chamber of a firearm.

In effect, ignition occurs when the powder granules are heated above their ignition temperature. This can occur by exposing powder to:

1. A flame such as a match or primer flash.
2. An electrical spark or the sparks from welding, grinding, etc.
3. Heat from an electric hot plate or a fire directed against or near a closed container even if the powder itself is not exposed to the flame.

When smokeless powder burns, a great deal of gas at high temperature is formed. If the powder is confined, this gas will create pressure in the surrounding structure. The rate of gas generation is such, however, that the pressure can be kept at a low level if sufficient space is available or if the gas can escape.

In this respect smokeless powder differs from blasting agents or high explosives such as dynamite or blasting gelatin, although smokeless powder may contain chemical ingredients common to some of these products.

High explosives such as dynamite are made to detonate, that is, to change from solid state to gaseous state with evolution of intense heat at such a rapid rate that shock waves are propagated through any medium in contact with them. Such shock waves exert pressure on anything they contact, and, as a matter of practical consideration, it is almost impossible to satisfactorily vent away the effects of a detonation involving any appreciable quantity of dynamite.

Smokeless powder differs considerably in its burning characteristics from common "black powder."

Black powder burns essentially at the same rate out in the open (unconfined) as when in a gun.

When ignited in an unconfined state, smokeless powder burns inefficiently with an orange-colored flame. It produces a considerable amount of light brown noxious smelling smoke. It leaves a residue of ash and partially burned powder. The flame is hot enough to cause severe burns.

The opposite is true when it burns under pressure as in a cartridge fired in a gun. Then it produces very little smoke, a small glow, and leaves very little or no residue. The burning rate of smokeless powder increases with increased pressure.

If burning smokeless powder is confined, gas pressure will rise and eventually can cause the container to burst. Under such circumstances, the bursting of a strong container creates effects similar to an explosion.

How to Check for Deterioration

Although modern smokeless powders are basically free from deterioration under proper storage conditions, safe practices require a recognition of the signs of deterioration and its possible effects.

Powder deterioration can be checked by opening the cap on the container and smelling the contents. Powder undergoing deterioration has an irritating acidic odor. (Don't confuse this with common solvent odors such as alcohol, ether and acetone.)

Check to make certain that powder is not exposed to extreme heat as this may cause deterioration. Such exposure produces an acidity which accelerates further reaction and has been known, because of the heat generated by the reaction, to cause spontaneous combustion.

Never salvage powder from old cartridges and do not attempt to blend salvaged powder with new powder. Don't accumulate old powder stocks.

The best way to dispose of deteriorated smokeless powder is to burn it out in the open at an isolated location in small shallow piles (not over 1" deep). The quantity burned in any one pile should never exceed one pound. Use an ignition train of slow burning combustible material so that the person may retreat to a safe distance before powder is ignited. For more instructions call Hodgdon Powder.

Consideration for Storage

Smokeless powder is intended to function by burning, so it must be protected against accidental exposure to flame, sparks or high temperatures.

For these reasons, it is desirable that storage enclosures be made of insulating materials to protect the powder from external heat sources.

Once smokeless powder begins to burn, it will normally continue to burn (and generate gas pressure) until it is consumed.

D.O.T. approved containers are constructed to open up at low internal pressures to avoid the effects normally produced by the rupture or bursting of a strong container.

Storage enclosures for smokeless powder should be constructed in a similar manner:

1. Of fire-resistant and heat-insulating materials to protect contents from external heat.
2. Sufficiently large to satisfactorily vent the gaseous products of combustion which would result if the quantity of smokeless powder within the enclosure accidentally ignited.

If a small, tightly enclosed storage enclosure is loaded to capacity with containers of smokeless powder, the walls of the enclosure will expand or move outwards to release the gas pressure – if the powder in storage is accidentally ignited.

Under such conditions, the effects of the release of gas pressure are similar or identical to the effects produced by an explosion.

Hence only the smallest practical quantities of smokeless powder should be kept in storage, and then in strict compliance with all applicable regulations and recommendations of the National Fire Protection Association.

Shipping and Storage of Smokeless Propellants

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14.3 Smokeless Propellants

14.3.1 Quantities of smokeless propellants not exceeding 11.3 kg (25 lb) in shipping containers approved by the U.S. Department of Transportation shall be permitted to be transported in a private vehicle.

14.3.2 Quantities of smokeless propellants exceeding 11.3 kg (25 lb), but not exceeding 22.7 kg (50 lb), transported in a private vehicle shall be transported in a portable magazine having wood walls of at least 25.4 mm (1 in.) nominal thickness.

14.3.3 Transportation of more than 22.7 kg (50 lb) of smokeless propellants in a private vehicle shall be prohibited.

14.3.4 Commercial shipments of smokeless propellants for small arms that has been classed in Division 1.3 shall be permitted to be re-classed as Division 4.1 flammable solid for transportation purposes for shipment by motor vehicle, rail car, vessel, or cargo-only aircraft, subject to the conditions stated in the U.S. Department of Transportation 49 CFR 173.171.

14.3.5 Commercial shipments of smokeless propellants exceeding 45.4 kg (100 lb) or not packaged in accordance with the regulations cited in 14.3.4 shall be transported in accordance with the U.S. Department of Transportation regulations for Division 1.1 or 1.3 explosives.

14.3.6 Smokeless propellants shall be stored in shipping containers specified by U.S. Department of Transportation "Hazardous Materials Regulations."

14.3.7 Quan

14.3.7.1 Smokeless propellants intended for personal use in quantities not exceeding 9.1 kg (20 lb) shall be permitted to be stored in original containers in residences.

14.3.7.2 Quantities exceeding 9.1 kg (20 lb), but not exceeding 22.7 kg (50 lb), shall be permitted to be stored in residences where kept in a wooden box or cabinet having walls of at least 25.4 mm (1 in.) nominal thickness.

14.3.8 Not more than 22.7 kg (50 lb) of smokeless propellants, in containers of a 0.45 kg (1 lb) maximum capacity, shall be displayed in commercial establishments.

14.3.9 Commercial stocks of smokeless propellants shall be stored as follows:

- (1) Quantities exceeding 22.7 kg (50 lb), but not exceeding 45.4 kg (100 lb), shall be stored in portable wooden boxes having walls of at least a 25.4 mm (1 in) thickness.
- (2) Quantities exceeding 45.4 kg (100 lb), but not exceeding 363 kg (800 lb), shall be stored in non-portable storage cabinets having walls of at least 25.4 mm (1 in) thickness.
- (3) Not more than 181 kg (400 lb) shall be permitted to be stored in any one cabinet, and cabinets shall be separated by a distance of at least 7.63 m (25 ft) or by a fire partition having a fire resistance of at least 1 hour.
- (4) Quantities exceeding 363 kg (800 lb) but not exceeding 2268 kg (5000 lb) shall be permitted to be stored in a building, provided the following requirements are met:
 - (a) The warehouse or storage room shall not be accessible to unauthorized personnel.
 - (b) Smokeless propellants shall be stored in non-portable storage cabinets having wood walls of at least 25.4 mm (1 in.) thickness and having shelves with no more than 0.92 m (3 ft) of separation between shelves.
 - (c) No more than 181 kg (400 lb) shall be stored in any one cabinet.
 - (d) Cabinets shall be located against the walls of the storage room or warehouse with at least 12.2 m (40 ft) between cabinets.
 - (e) The separation between cabinets shall be permitted to be reduced to 6.1 m (20 ft) where barricades twice the height of the cabinets are attached to the wall, midway between each cabinet.
 - (f) The barricades shall extend at least 3 m (10 ft) outward, shall be firmly attached to the wall, and shall be constructed of 6.4 mm (1/4 in) boiler plate, 51 mm (2 in.) thick wood, brick, or concrete block.
 - (g) Smokeless propellants shall be separated from materials classified by the U.S. DOT as flammable liquids, flammable solids, and oxidizing materials by a distance of 7.63 m (25 ft) or by a fire partition having a fire resistance of at least 1 hour.
 - (h) The building shall be protected by an automatic sprinkler system installed in accordance with NFPA 13, Standard for the Installation of Sprinkler Systems.
- (5) Smokeless propellants not stored in accordance with 14.3.9(1) through 14.3.9(4) shall be stored in a Type 4 magazine constructed and located in accordance with Chapter 9.

Rifle and Pistol Data

All data for rifle and pistol is arranged with bullets from lightest to heaviest and powders listed with burning rates from slowest to fastest for quick and easy use. Each cartridge is conveniently indexed for rapid location.

Primarily, the data for this edition were developed through the use of pressure barrels. All loads for standard U.S. cartridges adhere to the guidelines provided by the Sporting Arms and Ammunition Manufacturer's Institute (S.A.A.M.I.). Maximum loads for wildcat cartridges and cartridges not covered by S.A.A.M.I., were obtained by visual case-head signs, such as flat or cratered primers, difficult extraction and measured case heads.

Pressures were gauge by one of two methods: mechanically with Copper Units of Pressure (CUP) or electronically with a transducer as Pounds per Square Inch (PSI). CUP is determined by using a copper slug called a "crusher". The crusher is placed in a fixture over the chamber where a hole passes through the barrel to the chamber. When the cartridge is fired, gases swell and cause the crusher to flatten. The results are compared to a Tarage Table and converted to pressure in CUP. The electronic method utilizes

force transducer, which rests against the cartridge in the chamber. When the cartridge is fired, the gases cause the brass to expand against the force transducer, and the results are measured in pounds per square inch (PSI). The two systems do not provide the same maximum number for each cartridge, so no correlation can be made between systems. However, each cartridge has a standard for both systems, and therefore, actual maximums are physically the same.

When working up a load, the reloader should always begin with the starting load, advance in small increments, watch for pressure signs and begin again if changing components. Generally, the best powder choice is the powder that most nearly fills the case for the intended velocity. Most cartridges have only a certain number of appropriate powders. Those cartridges that are more versatile can use a wider range of burning speeds. For others, lesser numbers of propellants will give optimum results.

Most often, slower-burning powders are more suitable with heavy bullets, while faster powders are better with lighter bullets. Of course, most reloaders like a powder that delivers near-maximum or maximum results throughout the range of bullets, but that is not always obtainable, since some cartridges (like the 30-06) have too wide a range of bullets for any one burning rate to be ideal.

The reloader who seriously loads for any given rifle/pistol will choose different components (primers, powders, bullets, cases) in varying combinations to obtain the best overall performance and accuracy. After all, the reloader reloads to save money, but also reloads to improve accuracy and performance, creating special loads he cannot find on the dealer's shelves.

Warnings - Rifle, Pistol

- Hodgdon® Powder, IMR® Powder and Winchester® Powder expressly disclaim any and all warranties with respect to any and all products sold or distributed by them, the safety or suitability thereof, or the results obtained including, without limitation, any implied warranty of merchantability or fitness for a particular purpose and/or any other warranty. Buyers and users assume all risk, responsibility and liability whatsoever for any and all injuries (including death), losses or damages to persons or property (including consequential damages), arising from the use of any product or data, whether or not occasioned by seller's negligence or based on strict liability or principles of indemnity or contribution. Hodgdon®, IMR® and Winchester® powders neither assume nor authorize any person to assume for it any liability in connection with the use of any product or data.
- For all powders, use only the components shown. If the reloader makes any changes in components or gets new lot numbers, he should begin again with the starting loads and work up to maximum cautiously. Never exceed maximum charges.
- For those loads listed where a starting load is not shown, start 10 percent below the suggested maximum load and then approach maximums carefully, watching for any sign of pressure (difficult extraction, crattered and flattened or blown primer, and unusual recoil).
- Never mix any two powders regardless of type, brand, or source. Never substitute any smokeless powder for Black Powder or any Black Powder substitute.
- Powder left in the reloader's powder measure hoppers for extended periods, overnight or several days, should be avoided. Powder needs to be stored in original containers ONLY when not in use. Numerous modern smokeless powders are double base in construction, containing both Nitrocellulose and Nitroglycerine. Many powder measures use plastics containing polystyrene, which Nitroglycerine adversely affects when contact is made for extended periods of time, resulting in etching or misshaping the plastic. Normal usage during the reloading process does not provide adequate time for this to occur, so simply draining hoppers into the original containers when the reloading is completed for the day, prevents damaging the hoppers.
- Trail Boss® was designed to work in specific charge weight ranges. Do not use charges less than the starting load shown, nor greater than the maximum shown.
- For plated bullets, such as the fine line of Berry's Bullets, use existing lead data for the same weight plated bullet.

- *When asterisk (*) appears in the title of the cartridge, or in the data, refer to the warning page. Those warnings are as follows:
 - *40 S&W: This data is intended for use in firearms with barrels that fully support the cartridge in the chamber. Use of this data in firearms that do not fully support the cartridge may result in bulged cases, ruptured cases, case-head separation or other condition that may result in damage to the firearm and /or result in injury or death of the shooter and/or bystanders.
 - *45 Colt: *45 Colt data is listed in two categories. The first is intended for original Colt revolvers and their replicas. Max pressure, is 14,000 CUP.
- The second category is *45 Colt (Ruger Blackhawk, Freedom Arms and Thompson/Center Contender/Encore handguns. Max pressure, 30,000 CUP. Do not use these data in any other make or model of firearm.
- *45-70 Government data usage: 45-70 data is listed in the following three divisions based on pressure levels for only the firearms intended:
 - *45-70 Government (Trapdoor Rifle): These data are intended for Springfield "Trapdoor", Rolling Block and Antique Replicas. Max pressure, 28,000 CUP.
 - *45-70 Government (Lever Action): These data are intended for the 1895 lever action Marlin, ONLY. Max pressure, 40,000 CUP. Do not use these data in any of the firearms listed in the Trapdoor section. Do not use pointed bullets in any rifle with a tubular magazine, unless that pointed bullet was designed with a collapsible tip, made for tubular magazines.
 - *45-70 Government (Modern Rifles): These data are only for Ruger No. 1 and No. 3 single-shot rifles, Browning 1885 single-shots and Siamese bolt-action rifles. Max pressure, 50,000 CUP. Do not use these data in either of the prior two sections of 45-70 data (Trapdoor and Lever Actions).
- *26 Nosler and *6.5mm-300 Weatherby Magnum: Do not reduce starting loads, as doing so can result in pressure spikes that may result in damage to the firearm or injury to the user and/or bystanders.
- ***Do not use pointed bullets in any rifle with a tubular magazine, unless that pointed bullet was designed with a collapsible tip, made for tubular magazines.
- *Max loads listed that show an asterisk (*) following the "C" for compressed loads with IMR 7828 SSC will not fit with the standard IMR 7828. Reduce by four percent.

Warnings - Shotshell

- No data shown in the lead shot data section should be used with steel, bismuth, or other non-toxic shot.
- Never substitute components (except where indicated) when loading shotshells using the data herein. Substitution of different components could cause excessive or dangerous pressures, which could damage or destroy your firearm, or cause serious personal injury, or even death to the user and/or bystanders.
- After choosing an appropriate load, be sure to weigh actual charges thrown by a bushing or charge bar. No bushing or charge bar throws the exact charge as listed in the bushing/charge bar charts. Such changes occur because of small tolerances in bushing sizes, tolerances in bulk density of powder, and the way each loader is mounted and operated. It is important to verify weights for safety and to insure getting the type load you want.

Glossary of Terms

Data

C - Compressed Powder Charge

Primers

| | |
|-----|-----------------------|
| LR | - Large Rifle |
| LRM | - Large Rifle Magnum |
| SR | - Small Rifle |
| SRM | - Small Rifle Magnum |
| LP | - Large Pistol |
| LPM | - Large Pistol Magnum |
| SP | - Small Pistol |
| SPM | - Small Pistol Magnum |

Brands

| | |
|-------|----------------------------|
| ACME | - Acme Bullets |
| BAR | - Barnes |
| BTB | - Beartooth Bullets |
| BERB | - Berry's Bullets |
| BER | - Berger |
| BLX | - Bull-X |
| CCEB | - Cutting Edge Bullets |
| CPB | - Cast Performance Bullets |
| FA | - Freedom Arms |
| HDY | - Hornady |
| JLK | - Jimmy Knox |
| LGH | - Lehigh Defense |
| LY | - Lyman |
| MEI | - Meister |
| NOS | - Nosler |
| PLCYS | - Polycase |
| REM | - Remington |
| SIE | - Sierra |
| SFIRE | - Sure Fire |
| SFT | - Swift |
| SPR | - Speer |
| WDLGH | - Woodleigh |
| WIN | - Winchester |

Bullets

| | |
|-------|--------------------------------|
| AB | - Accu-Bond |
| ABLR | - Accubond Long Range |
| AFSP | - A-Frame Semi Spitzer |
| A-Max | - Hornady Match |
| ARX | - Polycase Defense |
| BK | - Blitz King |
| BR | - Bench Rest |
| BT | - Ballistic Tip |
| BTLF | - Ballistic Tip Lead Free |
| BTSP | - Boat Tail Spire Point |
| CTD | - Coated |
| ELD-M | - Extremely Low Drag Match |
| ELD-X | - Extremely Low Drag Expanding |
| E-TIP | - Polymer Tipped Bullet |
| FBHP | - Flat Base Hollow Point |
| FBT | - Flat Base Tipped |
| FMC | - Full Metal Case |
| FMJ | - Full Metal Jacket |
| FMJBT | - Full Metal Jacket Boat Tail |
| FN | - Flat Nose |
| FP | - Flat Point |
| FPJ | - Full Plated Jacket |
| FS | - Fail Safe |
| FTX | - Flex Tip |
| GC | - Gas Check |
| GDHP | - Gold Dot Hollow Point |
| GDSP | - Gold Dot Soft Point |

| | |
|----------|------------------------------------|
| GMX | - Gilding Metal |
| GS | - Grand Slam |
| HAP | - Hornady Action Pistol |
| HB | - Hollow Base |
| HC | - Hollow Cavity |
| HP | - Hollow Point |
| HPBT | - Hollow Point Boat Tail |
| HSP | - Hollow Soft Point |
| IB | - Inter Bond |
| JFP | - Jacketed Flat Point |
| JHC | - Jacketed Hollow Cavity |
| JRN | - Jacketed Round Nose |
| JSP | - Jacketed Soft Point |
| JSWC | - Jacketed Semi-Wadcutter |
| LBBWC | - Lead Bevel Base Wadcutter |
| LCN | - Lead Conical Nose |
| LF | - Lead Free |
| LFN | - Lead Flat Nose |
| LFNPB | - Lead Flat Nose Plain Base |
| LFP | - Lead Flat Point |
| LHWBC | - Lead Hollow Base Wadcutter |
| LRN | - Lead Round Nose |
| LSWC | - Lead Semi-Wadcutter |
| MC | - Metal Case |
| MK | - Match King |
| MRX | - Maximum Range X Bullet |
| MT-SP | - Mag Tip Soft Point |
| NTX | - Non Toxic Expanding |
| PART | - Partition |
| PSPCL | - Pointed Soft Point "Core-Lokt" |
| RAPTOR | - CEB all Copper |
| RN | - Round Nose |
| SB | - Solid Base |
| SBP | - Spitzer Boat Tail |
| SCENAR | - Lapua Hollow Point |
| SCENARL | - Lapua Hollow Point Long Range |
| SCIR | - Scirocco |
| SJ | - Short Jacket |
| SMP | - Semi-Pointed |
| SP | - Soft Point, Spitzer, Spire Point |
| SPBT | - Soft Point Boat Tail |
| SSP | - Single Shot Pistol |
| SST | - Super Shock Tip |
| ST | - Silvertip |
| SX | - Super Explosive |
| TAC X-BT | - Tactical X Bullet Boat Tail |
| TAC-XP | - Tactical X Pistol |
| TMJ | - Totally Metal Jacket |
| TMK | - Tipped Match King |
| TNT | - Varmint Bullet |
| TSX | - Triple Shock X Bullet |
| VG | - Varmint Grenade |
| VLD | - Very Low Drag |
| V-MAX | - Varmint Express |
| VPRTRL | - Vapor Trail Bullets |

| | | |
|------|------|------------------------------|
| WC | - V | etter |
| W/GC | - V. | gas Check |
| X | - X | Bullet |
| XBT | - X | Boat Tail |
| XBTC | - X | Boat Tail Coated |
| XD | - | Extreme Defense |
| XFB | - X | Flat Base |
| XPB | - X | Pistol Bullet |
| XTP | - | Extreme Terminal Performance |

Relative Burn Rate From Fastest to Slowest

| | | | | | | | | | |
|----|---------------------------|----|--------------------------|-----|---------------------------|-----|-------------------------|-----|--------------------|
| 1 | NORMA R1 | 40 | VIHTAVUORI 3N37 | 79 | IMR 3031 | 118 | IMR 4451 | 157 | HODGDON US869 |
| 2 | VIHTAVUORI N310 | 41 | VIHTAVUORI N350 | 80 | VIHTAVUORI N133 | 119 | ALLIANT RELODER 16 | 158 | ALLIANT RELODER 50 |
| 3 | ACCURATE NITRO 100 | 42 | VIHTAVUORI 3N38 | 81 | HODGDON BENCHMARK | 120 | HODGDON H4350 | 159 | VIHTAVUORI 20N29 |
| 4 | ALLIANT e3 | 43 | WINCHESTER 572 | 82 | HODGDON H335 | 121 | ALLIANT RELODER 17 | | |
| 5 | HODGDON TITEWAD | 44 | ALLIANT BLUE DOT | 83 | RAMSHOT X-TERMINATOR | 122 | ACCURATE 4350 | | |
| 6 | RAMSHOT COMPETITION | 45 | ACCURATE NO. 7 | 84 | ACCURATE 2230 | 123 | NORMA 204 | | |
| 7 | ALLIANT RED DOT | 46 | ALLIANT PRO REACH | 85 | ACCURATE 2460 | 124 | HODGDON HYBRID 100V | | |
| 8 | ALLIANT PROMO | 47 | HODGDON LONGSHOT | 86 | IMR 8208 XBR | 125 | WINCHESTER StaBALL 6.5 | | |
| 9 | HODGDON CLAYS | 48 | ALLIANT 410 | 87 | ALLIANT AR COMP | 126 | VIHTAVUORI N550 | | |
| 10 | ALLIANT CLAY DOT | 49 | ACCURATE TCM | 88 | RAMSHOT TAC | 127 | ALLIANT RELODER 19 | | |
| 11 | HODGDON HI-SKOR 700-X | 50 | ALLIANT 2400 | 89 | ALLIANT POWER PRO VARMINT | 128 | IMR 4831 | | |
| 12 | ALLIANT BULLSEYE | 51 | RAMSHOT ENFORCER | 90 | HODGDON H4895 | 129 | RAMSHOT HUNTER | | |
| 13 | HODGDON TITEGROUP | 52 | VIHTAVUORI N105 | 91 | VIHTAVUORI N530 | 130 | ACCURATE 3100 | | |
| 14 | ALLIANT AMERICAN SELECT | 53 | ACCURATE NO. 9 | 92 | IMR 4895 | 131 | VIHTAVUORI N160 | | |
| 15 | RAMSHOT SILHOUETTE | 54 | ACCURATE 4100 | 93 | VIHTAVUORI N135 | 132 | NORMA 205 | | |
| 16 | ACCURATE SOLO 1000 | 55 | ALLIANT STEEL | 94 | ALLIANT RELODER 12 | 133 | HODGDON H4831 & H4831SC | | |
| 17 | ALLIANT GREEN DOT | 56 | NORMA R123 | 95 | ACCURATE 2495 | 134 | HODGDON SUPERFORMANCE | | |
| 18 | RAMSHOT TRUE BLUE | 57 | VIHTAVUORI N110 | 96 | IMR 4166 | 135 | IMR 4955 | | |
| 19 | WINCHESTER WST | 58 | HODGDON LIL' GUN | 97 | IMR 4064 | 136 | NORMA MRP | | |
| 20 | HODGDON TRAIL BOSS | 59 | HODGDON H110 | 98 | NORMA 202 | 137 | ALLIANT RELODER 22 | | |
| 21 | WINCHESTER SUPER HANDICAP | 60 | WINCHESTER 296 | 99 | ACCURATE 4064 | 138 | NORMA MRP2 | | |
| 22 | HODGDON INTERNATIONAL | 61 | IMR 4227 | 100 | ACCURATE 2520 | 139 | VIHTAVUORI N560 | | |
| 23 | VIHTAVUORI N320 | 62 | ALLIANT POWER PRO 300-MP | 101 | ALLIANT RELODER 15 | 140 | ALLIANT RELODER 23 | | |
| 24 | ACCURATE NO.2 | 63 | ACCURATE 5744 | 102 | NORMA 203B | 141 | VIHTAVUORI N165 | | |
| 25 | RAMSHOT ZIP | 64 | ACCURATE 1680 | 103 | VIHTAVUORI N140 | 142 | IMR 7828SC | | |
| 26 | WINCHESTER 231 | 65 | ACCURATE LT-30 | 104 | HODGDON VARGET | 143 | ALLIANT RELODER 25 | | |
| 27 | ALLIANT 20/28 | 66 | HODGDON CFE BLK | 105 | WINCHESTER 748 | 144 | VIHTAVUORI N170 | | |
| 28 | WINCHESTER 244 | 67 | NORMA 200 | 106 | HODGDON BL-C(2) | 145 | ACCURATE MAGPRO | | |
| 29 | ALLIANT UNIQUE | 68 | ACCURATE 2200 | 107 | HODGDON CFE 223 | 146 | IMR 7977 | | |
| 30 | HODGDON UNIVERSAL | 69 | ALLIANT RELODER 7 | 108 | ALLIANT POWER PRO 2000-MR | 147 | ALLIANT RELODER 26 | | |
| 31 | ALLIANT POWER PISTOL | 70 | ACCURATE LT-32 | 109 | HODGDON LEVEREVOLUTION | 148 | HODGDON H1000 | | |
| 32 | VIHTAVUORI N330 | 71 | IMR 4198 | 110 | HODGDON H380 | 149 | RAMSHOT MAGNUM | | |
| 33 | ALLIANT HERCO | 72 | HODGDON H4198 | 111 | RAMSHOT BIG GAME | 150 | HODGDON RETUMBO | | |
| 34 | WINCHESTER WSF | 73 | VIHTAVUORI N120 | 112 | VIHTAVUORI N540 | 151 | IMR 8133 | | |
| 35 | VIHTAVUORI N340 | 74 | ALLIANT POWER PRO 1200-R | 113 | ALLIANT POWER PRO 4000-MR | 152 | RAMSHOT LRT | | |
| 36 | ACCURATE NO. 5 | 75 | HODGDON H322 | 114 | WINCHESTER 760 | 153 | VIHTAVUORI N570 | | |
| 37 | HODGDON HS-6 | 76 | ACCURATE 2015BR | 115 | VIHTAVUORI N150 | 154 | ALLIANT RELODER 33 | | |
| 38 | WINCHESTER AUTOCOMP | 77 | ALLIANT RELODER 10X | 116 | ACCURATE 2700 | 155 | VIHTAVUORI 24N41 | | |
| 39 | HODGDON CFE PISTOL | 78 | VIHTAVUORI N130 | 117 | IMR 4350 | 156 | HODGDON H50BMG | | |

RIFLE data

BULLET POWDER GR VEL CUP

17 HORNET BBL: 24"

15.5 GR. HDY V-MAX COL: 1.715"
CASE: HORNADY PR: FED205M, SR MATCH
CFE BLK 13.2 4021 48,000 PSI
IMR 4227 11.1C 3680 47,300 PSI
H110 9.9 3797 47,800 PSI
LIL'GUN 9.8 3715 47,700 PSI

20 GR. HDY V-MAX COL: 1.715"
CASE: HORNADY PR: WIN SR

A-2200 13.0 3553 49,700 PSI
LT-30 12.0 3404 47,300 PSI
A-5744 11.2 3412 47,500 PSI
A-1680 11.2 3493 49,700 PSI

20 GR. HDY V-MAX COL: 1.715"
CASE: HORNADY PR: FED205M, SR MATCH

H4198 11.8C 3463 39,300 PSI
IMR 4227 10.1 3356 45,400 PSI
LIL'GUN 10 3629 48,200 PSI
H110 8.7 3301 45,100 PSI
W296 8.7 3301 45,100 PSI

25 GR. HDY V-MAX COL: 1.715"
CASE: HORNADY PR: WIN SR

A-2200 12.4 3223 48,700 PSI
LT-30 11.4 3093 49,900 PSI
A-5744 10.5 3070 49,300 PSI
A-1680 10.0 2983 49,000 PSI

25 GR. HDY V-MAX COL: 1.715"
CASE: HORNADY PR: FED205M, SR MATCH

H335 13.2C 3145 45,900 PSI
H322 12.8C 3283 36,200 PSI
H4198 11.1C 3187 42,500 PSI
LIL'GUN 8.9 3195 48,000 PSI
IMR 4227 9.3 3032 45,700 PSI

30 GR. BER HP COL: 1.715"
CASE: HORNADY PR: FED205M, SR MATCH

H335 12.5C 2866 44,000 PSI
H322 12.5C 3020 48,000 PSI
H4198 10.8C 3024 47,300 PSI

204 RUGER BBL: 24"

32 GR. HDY V-MAX COL: 2.250"
CASE: REMINGTON PR: WIN SR

A-2520 29.5 4089 59,000 PSI
A-2460 28.1 3968 57,500 PSI
A-2495 28.0 3867 57,200 PSI
X-TERMINATOR 27.5 3960 56,300 PSI
A-2230 27.5 3960 56,300 PSI
LT-32 23.9 3798 57,300 PSI
A-5744 23.4 3978 57,300 PSI

32 GR. HDY V-MAX COL: 2.250"
CASE: HORNADY PR: FED 205M, SR MATCH

CFE 223 30.9 4091 55,000 PSI
BL-C(2) 30.7 4081 55,500 PSI
VARGET 29.0C 3798 47,400 PSI
H4895 29.0C 3980 51,100 PSI

BULLET POWDER GR VEL CUP

IMR 4895 29.0C 3949 51,900 PSI
IMR 8208 XBR 29 4130 56,500 PSI
IMR 4166 28.5C 3881 57,400 PSI
H335 28.3 4044 54,800 PSI
BENCHMARK 28 4047 57,100 PSI
H322 27.5 4030 56,400 PSI
IMR 4198 23.5 4006 55,400 PSI

40 GR. HDY V-MAX COL: 2.250"
CASE: REMINGTON PR: WIN SR

A-2520 28.0 3762 59,900 PSI
TAC 27.0 3680 56,000 PSI
X-TERMINATOR 26.0 3633 56,300 PSI
A-2230 26.0 3633 56,300 PSI

40 GR. HDY V-MAX COL: 2.250"
CASE: HORNADY PR: FED 205M, SR MATCH

BL-C(2) 30 3774 56,200 PSI
CFE 223 29 3769 56,700 PSI
VARGET 28.1C 3647 55,100 PSI
IMR 4895 27.8C 3695 56,000 PSI
H4895 27.7C 3741 56,000 PSI
IMR 4064 27.5C 3616 52,000 PSI
IMR 3031 25.6C 3694 56,600 PSI
IMR 8208 XBR 27.3 3754 56,300 PSI
IMR 4166 26.9 3578 57,300 PSI
H335 26.8 3738 56,700 PSI
BENCHMARK 25.7 3646 55,400 PSI
H322 25.1 3639 55,900 PSI

22 HORNET BBL: 24"

35 GR. HDY V-MAX COL: 1.725"
CASE: WINCHESTER PR: REM 6 1/2, SR

A-1680 13.5 2860 41,900 PSI
NO. 11 FS 12.6 3101 46,900 PSI

35 GR. HDY V-MAX COL: 1.725"
CASE: WINCHESTER PR: WIN SR

CFE BLK 13.3C 2650 22,700 PSI
H4198 11.5C 2420 26,300 CUP
H4227 11.6C 2896 42,500 CUP
H110 12.3 3060 41,400 CUP
LIL'GUN 13.0 2842 24,000 CUP

45 GR. HDY SP COL: 1.750"
CASE: WINCHESTER PR: WIN SR

IMR 4198 10.5C 2010 20,100 CUP
CFE BLK 13.0C 2588 30,800 PSI
H4198 11.5C 2400 32,000 CUP
IMR 4227 9.8 2484 42,000 CUP
SR 4759 8.0C 2000 24,700 CUP
H110 10.4 2574 43,000 CUP
LIL' GUN 13.0 2787 31,600 CUP

40 GR. NOS BT COL: 2.130"
CASE: WINCHESTER PR: REM 7 1/2, SR MAG

X-TERMINATOR 25.0 3442 44,800 PSI
A-2460 25.0 3425 48,500 PSI
A-2230 24.7 3410 48,600 PSI
A-2200 23.1 3534 50,000 PSI
LT-32 23.0 3480 49,900 PSI

*Max loads that show an asterik following the "C" for compre.
load will not fit with standard 7828. Reduce by 4%.

BULLET POWDER GR VEL CUP

A-2015 23.0 3422 45,700 PSI
LT-30 21.6 3449 49,800 PSI
A-5744 20.4 3448 49,700 PSI

40 GR. SIE HP COL: 2.125"
CASE: WINCHESTER PR: WIN SR

H335 25.0 3371 44,600 CUP
IMR 8208 XBR 25.0C 3452 42,800 PSI
BENCHMARK 25.0 3303 40,700 CUP
H322 23.0 3313 44,000 CUP

IMR 4198 21.2C 3583 48,700 PSI
CFE BLK 20.4 3424 48,400 PSI
H4198 21.4 3480 45,700 CUP
IMR 4227 16.0 3240 45,200 PSI

50 GR. HDY V-MAX COL: 2.130"
CASE: WINCHESTER PR: REM 7 1/2, SR MAG

A-2200 21.8 3221 50,000 PSI
LT-32 21.5 3147 50,000 PSI
LT-30 20.1 3111 50,000 PSI
A-5744 19.0 3157 49,900 PSI

50 GR. HDY SP COL: 2.130"
CASE: WINCHESTER PR: WIN SR

CFE 223 26.2 3268 47,600 PSI
VARGET 25.0C 3114 40,600 CUP
IMR 4064 23.5C 3065 46,200 PSI
W748 24 2980 38,000 CUP
BL-C(2) 25 3000 38,600 CUP
IMR 4895 24.0C 3106 47,400 PSI
H335 23.6 3120 45,700 CUP
H4895 23.8C 3022 36,500 CUP
IMR 8208 XBR 23.3 3201 47,100 PSI
BENCHMARK 24 3168 45,800 CUP
H322 22.2 3079 43,200 CUP
IMR 4198 19.3 3152 49,000 PSI
CFE BLK 18.7 3026 49,400 PSI
H4198 20.5 3160 44,200 CUP

223 REMINGTON BBL: 24"

55 GR. HDY V-MAX COL: 2.260"
CASE: WINCHESTER PR: WIN SR

A-2520 25.6 3207 54,100 PSI
A-2495 25.0 3111 53,100 PSI
TAC 24.7 3179 52,700 PSI
A-2460 24.2 3185 55,000 PSI
X-TERMINATOR 23.5 3209 54,200 PSI
A-2230 23.5 3209 54,200 PSI
LT-32 23.1 3175 55,000 PSI
A-2015 22.5 3025 54,800 PSI
LT-30 21.5 3114 54,800 PSI

55 GR. SPR SP COL: 2.200"
CASE: WINCHESTER PR: WIN SR

CFE 223 27.8 3329 51,300 PSI
VARGET 27.5C 3384 49,700 CUP
IMR 4064 25.7C 3201 52,600 PSI
IMR 4166 26.2C 3195 53,200 PSI
W748 26.3 3150 39,000 CUP
BL-C(2) 27.5 3313 48,500 CUP
IMR 4895 26.2C 3219 53,200 PSI

BULLET POWDER GR VEL CUP

H335 25.3 3203 49,300 CUP
H4895 26.0 3315 49,000 CUP
IMR 8208 XBR 25.3 3268 53,100 PSI
IMR 3031 24.6C 3233 52,500 PSI

BENCHMARK 25.6 3264 50,000 CUP
H322 23.0 3106 48,900 CUP
IMR 4198 20.4 3122 53,600 PSI
H4198 21.0 3150 47,600 CUP

75 GR. JLK VLD COL: 2.260"
CASE: WINCHESTER PR: WIN SR

CFE 223 26 2858 49,500 CUP
VARGET 25 2876 54,400 PSI
IMR 4320 25.0C 2907 48,400 CUP
IMR 4064 24.5 2905 50,000 CUP
IMR 4166 24.2C 2766 53,200 PSI
BL-C(2) 24.0C 2827 53,400 PSI
IMR 4895 23.8C 2786 51,800 PSI
H335 23.5 2829 49,400 CUP
H4895 23 2733 53,000 PSI
IMR 8208 XBR 23 2814 50,000 CUP
IMR 3031 22.7 2804 53,900 PSI
BENCHMARK 22 2785 48,100 CUP
H322 21.8C 2740 53,500 PSI

77 GR. SIE HPBT COL: 2.260"
CASE: WINCHESTER PR: WIN SR

A-2520 24.1 2785 54,800 PSI
TAC 23.4 2759 54,500 PSI
A-2460 22.6 2743 54,100 PSI
A-2230 22.2 2731 54,300 PSI
X-TERMINATOR 22.2 2731 54,300 PSI
A-2495 21.8 2741 54,400 PSI
A-2015 20.5 2553 54,700 PSI
LT-32 19.9 2625 54,900 PSI
A-2200 19.6 2618 54,600 PSI
LT-30 18.3 2539 54,800 PSI

22-250 REMINGTON BBL: 24"

45 GR. BER FPV COL: 2.305"
CASE: REMINGTON PR: WIN LR

A-4064 39.0 3894 56,100 PSI
A-2520 37.5 3877 58,800 PSI
A-2460 36.0 3854 58,800 PSI

52 GR. HDY ELD-M COL: 2.350"
CASE: WINCHESTER PR: WIN LR

StaBALL 6.5 43.0 4001 62,400 PSI
H4350 42.0 3579 48,900 CUP
W760 40.0 3765 48,600 CUP
H380 41.0 3742 45,300 CUP
CFE 223 39.8 3968 62,600 PSI
VARGET 37.5 3834 50,400 CUP
IMR 4064 37.0 3866 61,900 PSI
IMR 4166 36.8C 3874 63,200 PSI
BL-C(2) 34.5 3740 48,400 CUP
IMR 4895 37.6 3862 61,500 PSI
H335 34.5 3753 48,700 CUP
H4895 36.5 3827 50,200 CUP
IMR 8208 XBR 36.0 3925 62,900 PSI
IMR 3031 35.0 3862 62,600 PSI

RIFLE data

| BULLET | POWDER | GR | VEL | CUP |
|-----------|--------|------|------|------------|
| BENCHMARK | | 36.0 | 3903 | 51,400 CUP |
| H322 | | 32.0 | 3628 | 50,300 CUP |

220 SWIFT BBL: 24"

COL: 2.680"
CASE: WINCHESTER PR: FED 210, LR

HUNTER 44.4 3813 61,400 PSI
A-2700 43.5 3832 57,000 PSI

55 GR. HDY SP COL: 2.680"
CASE: WINCHESTER PR: FED 210, LR

HYBRID 100V 42.0C 3627 52,600 CUP
H4350 42.0 3619 50,800 CUP
W760 44.0 3833 53,700 CUP
H380 42.5 3839 53,300 CUP
VARGET 36.0 3645 51,900 CUP
IMR 4064 37.5 3742 52,500 CUP
BL-C(2) 36.0 3682 49,900 CUP
IMR 4895 38.0 3739 53,000 CUP
H4895 37.0 3698 52,000 CUP
IMR 3031 35.2 3687 52,700 CUP

22 CREEDMOOR BBL: 24"

COL: 2.570"
62 GR. SFT SCR PR: WIN LR

MAGPRO 48.4 3543 60,500 PSI
H4831 44.6C 3551 60,500 PSI
IMR 7828SSC 44.3 3552 61,700 PSI
SUPRFORM 44.2 3656 60,900 PSI
IMR 4955 43.7 3595 61,900 PSI
HUNTER 43.6 3545 61,100 PSI
IMR 4831 42.6 3553 60,900 PSI

73 GR HDY ELD-X COL: 2.570"
CASE: ALPHA PR: WIN LR

MAGNUM 48.0C 3348 53,200 PSI
MAGPRO 47.4 3385 61,000 PSI
H1000 45.5C 3332 56,000 PSI
IMR 7977 45.0C 3326 59,200 PSI
IMR 7828SSC 44.0 3389 60,100 PSI
H4831 43.6 3398 61,200 PSI
SUPRFORM 43.5 3484 61,300 PSI
IMR 4955 42.8 3385 60,600 PSI
HUNTER 42.4 3409 61,800 PSI
IMR 4831 42.2 3382 62,300 PSI

90 GR HDY A-TIP COL: 2.700"
CASE: ALPHA PR: WIN LR

MAGNUM 46.2C 3107 59,900 PSI
RETUMBO 45.0C 3058 60,300 PSI
MAGPRO 43.9C 3041 60,000 PSI
H1000 43.0 3049 60,400 PSI
IMR 7977 42.8C 3013 61,500 PSI
IMR 7828SSC 40.8 3071 61,600 PSI
H4831 40.0 3048 61,500 PSI
IMR 4955 39.0 3008 61,400 PSI
SUPRFORM 39.0 3042 60,500 PSI
IMR 4831 38.0 2987 60,000 PSI
HUNTER 38.0 2961 60,600 PSI

6MM ARC BBL: 24"

| BULLET | POWDER | GR | VEL | CUP |
|---------------------|--------|----|------------------------|-----|
| 103 GR. VPRTRL VTAC | | | COL: 2.260" | |
| CASE: HORNADY | | | PR: FED 205M, SR MATCH | |

STA BALL 6.5 30.7C 2611 49,800 PSI
W760 29.5C 2656 50,100 PSI
A-2700 29.5C 2656 50,100 PSI
A-2520 29 2731 51,000 PSI
CFE 223 28.9 2727 50,600 PSI
LVR 28.5 2712 51,100 PSI
BL-C(2) 28.4 2654 50,900 PSI
W748 27.9 2674 50,500 PSI
TAC 26.8 2618 51,500 PSI
A-2460 26.4 2599 50,700 PSI
A-2495 26.3 2504 50,800 PSI
VARGET 26.2 2608 51,800 PSI

| BULLET | POWDER | GR | VEL | CUP |
|-------------------|--------|----|------------------------|-----|
| 110 GR. HDY A-TIP | | | COL: 2.260" | |
| CASE: HORNADY | | | PR: FED 205M, SR MATCH | |

STA BALL 6.5 30.0C 2555 50,400 PSI
A-2700 29.3C 2590 50,400 PSI
W760 29.3C 2590 50,400 PSI
A-2520 28.4 2656 51,400 PSI
LVR 28.2C 2660 51,200 PSI
CFE 223 28.2 2649 50,500 PSI
BL-C(2) 27.5 2568 50,300 PSI
W748 27.1 2604 50,000 PSI
TAC 26.4 2522 51,000 PSI
A-2495 26.0C 2451 51,100 PSI
A-2460 26 2530 51,400 PSI
VARGET 25.7C 2541 51,900 PSI

| BULLET | POWDER | GR | VEL | CUP |
|---------------|--------|----|------------------------|-----|
| 6 CREEDMOOR | | | BBL: 24" | |
| CASE: HORNADY | | | PR: FED 210M, LR MATCH | |

70 GR. NOS BT COL: 2.550"
CASE: HORNADY PR: FED 210M, LR MATCH

A-2700 47.1 3610 61,400 PSI
BIG GAME 45.2 3561 61,300 PSI
A-4064 42.7 3505 61,000 PSI

70 GR. SPR HP COL: 2.625"
CASE: HORNADY PR: WIN LR

STABALL 6.5 50.0 3763 59,700 PSI
H4350 48.0C 3590 56,900 PSI
IMR 4451 46.7C 3576 57,400 PSI
H380 47.5 3673 60,300 PSI
W760 47.7 3684 59,400 PSI
BL-C(2) 45.7 3675 60,500 PSI
CFE 223 45.6 3710 60,500 PSI
VARGET 43.2 3680 60,500 PSI
IMR 4166 43.1 3655 60,500 PSI
IMR 4895 42.9 3666 60,000 PSI
IMR 4064 42.8 3670 60,300 PSI
H4895 41.3 3652 60,200 PSI
IMR 8208 XBR 41.0 3628 59,100 PSI

95 GR. BER VLD TRGT COL: 2.650"
CASE: HORNADY PR: FED 210M, LR MATCH

A-4350 47.2C 3285 58,300 PSI
A-2700 46.7 3516 60,200 PSI
Magpro 46.6C 3348 57,600 PSI
Hunter 46.0C 3342 58,100 PSI

95 GR. BER VLD TRGT COL: 2.650"
CASE: HORNADY PR: WIN LR

*Max loads that show an asterik following the "C" for compressed load will not fit with standard 7828. Reduce by 4%.

| BULLET | POWDER | GR | VEL | CUP |
|---------------------|--------|----|------------------------|-----|
| 103 GR. VPRTRL VTAC | | | COL: 2.260" | |
| CASE: HORNADY | | | PR: FED 205M, SR MATCH | |

H4831 47.0C 3158 61,300 PSI
SUPRFORM 46.3 3314 61,300 PSI
IMR 4955 45.9 3224 59,700 PSI
STABALL 6.5 45.7 3342 61,300 PSI
IMR 4831 45.5 3222 60,900 PSI
IMR 4350 44.4 3255 60,300 PSI
H4350 44 3211 60,400 PSI
W760 43.4 3227 59,300 PSI
IMR 4451 43.2 3201 59,700 PSI
HYBRID 100V 43.1 3233 60,500 PSI
H380 42 3150 60,100 PSI
CFE 223 40.8 3174 60,000 PSI
BL-C(2) 40.4 3139 59,800 PSI
IMR 4064 39 3179 60,300 PSI
IMR 4895 38.9 3192 60,200 PSI
IMR 4166 38.5 3187 60,000 PSI
VARGET 37.9 3135 59,500 PSI
H4895 36.7 3128 60,200 PSI
IMR 8208 XBR 36.6 3117 59,500 PSI

108 GR. HDY ELD-M COL: 2.770"
CASE: HORNADY PR: WIN LR

H1000 48.2C 3042 59,700 PSI
IMR 7977 45.9C 3002 59,700 PSI
SUPRFORM 44.2 3078 60,200 PSI
H4831 44.1 2972 60,200 PSI
IMR 4955 43.5 2995 59,700 PSI
STABALL 6.5 43 3088 59,500 PSI
IMR 4831 43 3012 59,800 PSI
HYBRID 100V 41.7 3031 59,100 PSI
H4350 41.6 3006 60,100 PSI
IMR 4350 41.4 3004 59,200 PSI
IMR 4451 40.8 2980 59,800 PSI

112 GR. BAR BT-MB COL: 2.780"
CASE: HORNADY PR: FED 210M, LR MATCH

MAGNUM 50.8 3026 61,400 PSI
MAGPRO 47.5 2924 61,300 PSI
A-4350 42.2 2896 61,300 PSI

115 GR. BER VLD COL: 2.780"
CASE: HORNADY PR: WIN LR

H1000 48.0C 2944 59,500 PSI
IMR 7977 46.4C 2942 59,800 PSI
H4831 43.6 2889 59,500 PSI
SUPRFORM 43.4 2984 59,900 PSI
STABALL 6.5 43.2 3026 60,000 PSI
IMR 4955 43.1 2919 60,300 PSI
IMR 4831 42.2 2918 60,500 PSI
IMR 4350 40.6 2904 59,400 PSI
H4350 40.5 2895 58,900 PSI
HYBRID 100V 40.5 2909 59,600 PSI
IMR 4451 39.9 2886 59,600 PSI

243 WINCHESTER BBL: 24"

70 GR. SIE HPBT COL: 2.625"
CASE: WINCHESTER PR: REM 9 1/2, LR

HUNTER 51.2 3764 59,800 PSI
A-4350 49.0 3616 56,000 PSI
A-2700 48.4 3704 59,700 PSI
BIG GAME 45.9 3653 59,900 PSI

70 GR. SPR HP COL: 2.625"

| BULLET | POWDER | GR | VEL | CUP |
|------------------|--------|----|-------------------|-----|
| 95 GR. NOS BT | | | COL: 2.700" | |
| CASE: WINCHESTER | | | PR: REM 9 1/2, LR | |

SUPRFORM 51.0C 3661 57,900 PSI
W760 46.0 3568 49,800 CUP
H380 46.0 3567 48,900 CUP
CFE 223 41.5 3487 57,400 PSI
VARGET 40.5 3574 50,100 CUP
IMR 4064 42.5 3541 50,000 CUP
IMR 4166 41.9 3600 58,800 PSI
BL-C(2) 39.0 3384 50,400 CUP
IMR 4895 42.6 3558 50,000 CUP
H4895 39.5 3477 49,200 CUP
IMR 8208 XBR 38.6 3461 58,100 CUP
IMR 3031 39.0 3485 51,100 CUP
BENCHMARK 39.3 3491 50,300 PSI

100 GR. SPR BTSP COL: 2.650"
CASE: WINCHESTER PR: WIN LR

H1000 47.0C 3000 49,800 CUP
IMR 7977 49.1C 3122 58,100 PSI
IMR 7828 46.0C* 3009 51,100 CUP
IMR 4955 46.9C 3038 58,700 PSI
H4831 42.0 2924 50,100 CUP
HYBRID 100V 43.7C 3100 51,700 CUP
IMR 4831 43.0 2947 50,800 CUP
H4350 40.0 2973 51,000 CUP
IMR 4350 42.0 2958 50,100 CUP
IMR 4451 42.7 3090 58,400 PSI
W760 40.0 2963 50,600 CUP
H380 36.0 2770 50,100 CUP
VARGET 33.7 2838 50,400 CUP
IMR 4064 36.5 2902 51,100 CUP
IMR 4166 37.3 2984 58,100 PSI
IMR 4895 35.7 2862 50,100 CUP
H4895 33.0 2818 50,100 CUP
TRAIL BOSS 15.3 1603 39,100 CUP

25-06 REMINGTON BBL: 24"

100 GR. NOS PART COL: 3.170"
CASE: REMINGTON PR: WIN LR

MAGNUM 61.8 3263 58,000 PSI
MAGPRO 60.7 3296 62,200 PSI
A-4350 53.0 3245 62,200 PSI

100 GR. NOS PART COL: 3.200"

CASE: REMINGTON H1000 59.7C 3212 50,700 CUP
IMR 7977 61.0C 3372 61,300 PSI
IMR 7828 SSC 57.2C 3203 51,300 CUP
IMR 4955 56.5 3287 61,500 PSI
H4831 54.3 3172 51,400 CUP
HYBRID 100V 52.5 3295 51,800 CUP
IMR 4831 54.0 3233 51,400 CUP
H4350 50.0 3155 51,500 CUP
IMR 4451 51.9 3329 61,600 PSI

Loads listed are Maximum. Do NOT Exceed. Reduce by 10% to Start.

For complete reloading data, please visit our website at www.RifleData.com.

RIFLE data

BULLET POWDER GR VEL CUP

117 GR. HDY SPBT COL: 3.165"
CASE: REMINGTON PR: WIN LR

MAGNUM 60.5 3123 61,300 PSI
MAGPRO 57.0 3068 62,000 PSI
HUNTER 52.1 3019 61,400 PSI
A-4350 51.0 3043 62,700 PSI

120 GR. SFT SP COL: 3.150"
CASE: REMINGTON PR: REM 9 1/2, LR

IMR 8133 62.0C 3173 60,400 PSI
RETUMBO 60.0C 2991 50,300 CUP
H1000 55.5 2902 50,600 CUP
IMR 7977 57.2 3064 61,000 PSI
IMR 7828 SSC 54.0 2923 50,300 CUP
IMR 4955 53.5 2994 61,600 PSI
H4831 51.5 2856 51,200 CUP
HYBRID 100V 50.0 3009 51,200 CUP
IMR 4831 53.0C 3065 50,900 CUP
H4350 47.5 2816 50,900 CUP
IMR 4350 52.0C 3049 50,800 CUP
VARGET 41.0 2755 51,900 CUP
H4895 40.0 2694 51,700 CUP

6.5 CREEDMOOR BBL: 24"

120 GR. NOS BT COL: 2.710"
CASE: HORNADY PR: WIN, LR

Hunter 47.5 2997 58,300 PSI
A-2700 44.0 2921 58,400 PSI
BIG GAME 43.5 2950 59,000 PSI
A-4064 40.0 2832 59,200 PSI

120 GR. HDY ELD-M COL: 2.670"
CASE: HORNADY PR: FED 210M, LR MATCH

StaBALL 6.5 45.3 3004 60,500 PSI
H4350 45.0C 2965 60,800 PSI
IMR 4451 44.7 2929 61,400 PSI
W760 44.5 2960 61,500 PSI
BL-C(2) 41.3 2941 60,500 PSI
W748 40.4 2899 59,900 PSI
VARGET 40.2 2891 60,400 PSI
IMR 4895 39 2895 59,300 PSI
IMR 4064 38.9 2903 59,800 PSI
IMR 4166 38.5 2887 61,500 PSI
H4895 37.4 2858 60,400 PSI
IMR 8208 XBR 36 2818 60,300 PSI

142 GR. SIE HPBT COL: 2.800"
CASE: HORNADY PR: WIN LR

Hunter 45.7 2761 58,500 PSI
A-2700 42.0 2703 58,500 PSI
BIG GAME 40.6 2689 58,800 PSI
A-4064 38.0 2594 58,700 PSI

142 GR. SIE HPBT COL: 2.780"
CASE: HORNADY PR: FED 210M, LR MATCH

StaBALL 6.5 44.4 2814 61,300 PSI
HYBRID 100V 41.5 2737 58,900 PSI
H4350 41.5 2694 59,800 PSI
IMR 4451 41.4 2691 61,200 PSI
IMR 4350 41.7C 2687 58,600 PSI
W760 40.2 2634 58,300 PSI
H380 39.2 2618 59,100 PSI
VARGET 36.3 2598 60,100 PSI

BULLET POWDER GR VEL CUP

IMR 4064 36.8 2614 59,500 PSI
IMR 4166 35.5 2598 60,600 PSI
IMR 4895 36.0 2599 59,500 PSI
H4895 34.5 2551 58,000 PSI
IMR 8208 XBR 33.5 2518 58,000 PSI

6.5 PRC BBL: 24"

120 GR. BAR TSX BT COL: 2.780"
CASE: HORNADY PR: REM 9 1/2, LR

MAGNUM 64.6 3148 57,400 PSI
MAGPRO 62.9 3174 64,000 PSI
A-4350 54.7 3126 63,900 PSI

120 GR BAR TTSX BT COL: 2.875"
CASE: HORNADY FED 210M, LR MATCH

IMR 8133 61.7C 3162 60,800 PSI
RETUMBO 61.0C 3177 60,600 PSI
IMR 7977 58.4 3096 61,400 PSI
H1000 58.2 3113 61,500 PSI
IMR 4955 52.1 3020 60,800 PSI

147 GR. HDY ELD-M COL: 2.930"
CASE: HORNADY PR: REM 9 1/2, LR

LRT 63.5 2834 53,000 PSI
MAGNUM 61.3 2937 63,000 PSI
MAGPRO 58.5 2897 63,200 PSI
A-5744 34.5 2621 62,900 PSI

147 GR. HDY ELD-M COL: 2.945"
CASE: HORNADY FED 210M, LR MATCH

US 869 66.3 2872 59,900 PSI
IMR 8133 59.7 2869 59,900 PSI
RETUMBO 58.8 2896 59,900 PSI
H1000 56.5 2828 60,400 PSI
IMR 7977 56.3 2777 60,500 PSI

270 WINCHESTER BBL: 24"

130 GR. HDY SP COL: 3.180"
CASE: WINCHESTER PR: WIN LR

H1000 64.0C 3025 48,100 CUP
IMR 7977 62.0C 3038 55,100 PSI
IMR 7828 60.2 3085 50,300 CUP
IMR 4955 61.0C 3060 63,100 PSI
H4831 60.0C 3019 51,000 CUP
StaBALL 6.5 55.5 3121 61,900 PSI
HYBRID 100V 56.0C 3066 61,800 PSI
IMR 4831 55.8 3002 50,300 CUP

130 GR. HDY SP COL: 3.180"
CASE: WINCHESTER PR: WIN LR

H4350 54.3 3012 50,500 CUP
IMR 4350 55.0 3028 49,900 CUP
IMR 4451 56.0 3089 62,900 PSI
W760 53.5 3003 50,800 CUP
H380 49.8 2884 51,000 CUP
VARGET 46.0 2931 49,600 CUP

150 GR. SIE SBT COL: 3.250"
CASE: WINCHESTER PR: WIN LR

IMR 4064 47.5 2932 50,000 CUP
IMR 4895 46.9 2957 50,600 CUP
H4895 45.0 2922 51,000 CUP
IMR 8208 XBR 45.0 2934 62,800 PSI
TRAIL BOSS 19.7 1537 27,100 PSI
MAGPRO 61.1 2974 64,700 PSI

*Max loads that show an asterik following the "C" for compres
load will not fit with standard 7828. Reduce by 4%.

BULLET POWDER GR VEL CUP

MAGNUM 60.7 2922 64,600 PSI
A-4350 52.6 2912 64,700 PSI
HUNTER 52.2 2925 64,900 PSI
A-2700 51.0 2840 63,500 PSI

150 GR. HDY SP COL: 3.285"
CASE: WINCHESTER PR: WIN LR

H1000 59.0C 2831 51,000 CUP
IMR 7977 60.8C 2940 61,300 PSI
IMR 7828 56.8 2850 50,400 CUP
IMR 4955 56.6 2829 63,900 PSI

H4831 55.7 2804 51,200 CUP
StaBALL 6.5 52.4 2879 63,300 PSI
HYBRID 100V 52.0 2811 61,900 PSI
IMR 4831 53.0 2815 50,900 CUP

H4350 49.0 2724 51,000 CUP
IMR 4451 52.0 2815 62,000 PSI
IMR 4350 51.6 2809 50,900 CUP
W760 48.0 2706 51,200 CUP

IMR 4064 45.0 2719 50,700 CUP
IMR 4166 45.3 2766 63,800 PSI
IMR 4895 44.5 2704 50,600 CUP

BULLET POWDER GR VEL CUP

H4350 56.2 3036 63,300 PSI
IMR 4451 56.1 3033 63,100 PSI

165 GR. NOS ABLR COL: 2.900"
CASE: WINCHESTER PR: WIN LR MAG

Magnum 68.5 2956 63,300 PSI
MAGPRO 65.3 2943 63,000 PSI
Retumbo 63.7 2897 63,300 PSI
IMR 8133 62.5 2881 63,200 PSI

H1000 60.9 2870 63,300 PSI
IMR 7977 59.6 2800 63,200 PSI
A-4350 58.1 2838 63,000 PSI
IMR 7828 SSC 56.1 2797 62,800 PSI

H4831 55.8 2813 63,600 PSI
Suprform 55.6 2843 63,300 PSI
IMR 4955 55.3 2786 63,200 PSI
IMR 4831 55.2 2823 63,400 PSI

StaBALL 6.5 54.6 2813 62,900 PSI
Hybrid 100V 53.1 2830 63,200 PSI
IMR 4350 52.5 2788 63,100 PSI
H4350 52.0 2778 63,400 PSI

IMR 4451 51.8 2769 63,500 PSI

6.8 WESTERN BBL: 24"

130 GR. SFT SCR COL: 2.900"
CASE: WINCHESTER PR: WIN LR MAG

MAGPRO 70.7 3264 63,100 PSI
Retumbo 68.2C 3157 58,200 PSI

H1000 67.1C 3243 63,400 PSI
IMR 7977 66.4C 3211 63,300 PSI

IMR 8133 66.0C 3145 59,700 PSI
H4831 62.8 3205 63,300 PSI

IMR 7828 SSC 62.3 3196 63,300 PSI
A-4350 62.1 3211 63,400 PSI

Suprform 61.6 3249 63,100 PSI
Hunter 61.5 3198 63,500 PSI

IMR 4955 61.2 3213 63,600 PSI
StaBALL 6.5 61.2 3256 63,300 PSI

IMR 4831 60.4 3202 63,300 PSI
IMR 4350 59.1 3191 63,500 PSI

H4350 59.0 3171 63,300 PSI
Hybrid 100V 58.8 3252 63,400 PSI

IMR 4451 57.7 3157 63,300 PSI
Big Game 56.3 3117 62,900 PSI

A-2700 56.1 3137 62,900 PSI
W760 56.1 3137 62,900 PSI

145 GR. HDY ELD-X COL: 2.900"
CASE: WINCHESTER PR: WIN LR MAG

Retumbo 67.0C 3098 61,900 PSI
IMR 8133 65.0C 3060 62,100 PSI

H1000 63.9 3092 63,100 PSI
IMR 7977 63.2 3054 63,300 PSI

H4831 60.1 3061 63,300 PSI
IMR 7828 SSC 59.9 3042 63,000 PSI

Suprform 59.3 3090 63,500 PSI
IMR 4955 59.0 3044 63,100 PSI

StaBALL 6.5 58.4 3076 63,400 PSI
IMR 4831 58.2 3050 63,400 PSI

IMR 4350 56.5 3052 63,500 PSI
Hybrid 100V 56.5 3088 63,300 PSI

VARGET 42.2 2819 49,800 CUP
IMR 4064 40.5 2770 50,300 CUP

IMR 4166 42.3 2841 49,400 CUP

7MM-08 REM BBL: 24"

120 GR. NOS BT COL: 2.765"
CASE: REMINGTON PR: FED 210, LR

W760 45.0 3055 60,800 PSI
A-2520 43.3 3054 61,000 PSI

A-4064 43.0 2958 56,800 PSI
A-2460 43.0 3053 60,600 PSI

120 GR. NOS BT COL: 2.800"
CASE: REMINGTON PR: REM 9 1/2, LR

StaBALL 6.5 53.0 3201 54,800 PSI
H4350 50.0C 3039 44,600 CUP

W760 49.0 3023 47,600 CUP
H380 48.0 2977 43,400 CUP

CFE 223 49.5 3151 50,000 CUP
VARGET 45.0 3117 49,900 CUP

IMR 4166 43.9 3017 50,000 CUP
IMR 4064 43.9 3017 50,000 CUP

BL-C(2) 46.5 3109 50,100 CUP
IMR 4895 44.0 3022 49,800 CUP

H335 42.0 2984 49,400 CUP
H4895 43.7 3085 49,700 CUP

IMR 8208 XBR 42.7 2997 48,900 CUP
IMR 3031 41.0 2987 50,500 CUP

BENCHMARK 41.3 2968 49,000 CUP

140 GR. SFT SP COL: 2.750"
CASE: REMINGTON PR: REM 9 1/2, LR

StaBALL 6.5 48.5 2976 59,300 PSI
H4350 48.0C 2868 49,800 CUP

IMR 4451 45.5C 2798 59,100 PSI
IMR 4350 46.5C 2826 50,000 CUP

W760 46.0 2791 49,500 CUP
H380 45.7 2775 49,400 CUP

CFE 223 43.2 2796 48,800 CUP
VARGET 42.2 2819 49,800 CUP

IMR 4064 40.5 2770 50,300 CUP
IMR 4166 42.3 2841 49,400 CUP

RIFLE data

| BULLET | POWDER | GR | VEL | CUP |
|---------------------------|--------|------|------------|-----|
| BL-C(2) | 42.5 | 2796 | 49,700 CUP | |
| IMR 4895 | 41.0 | 2752 | 49,600 CUP | |
| H335 | 37.5 | 2647 | 49,800 CUP | |
| H4895 | 40.5 | 2769 | 49,700 CUP | |
| IMR 8208 XBR | 39.7 | 2732 | 48,800 CUP | |
| IMR 3031 | 38.3 | 2695 | 49,600 CUP | |
| BENCHMARK | 38.3 | 2688 | 49,300 CUP | |
| TRAIL BOSS | 16.0 | 1472 | 43,300 CUP | |
| 175 GR. NOS PART | | | | |
| COL: 2,800" | | | | |
| CASE: REMINGTON | | | | |
| PR: REM 9 1/2, LR | | | | |
| H4831 | 49.0C | 2516 | 49,400 CUP | |
| IMR 4955 | 46.8C | 2437 | 59,200 PSI | |
| IMR 4350 | 46.0C | 2556 | 48,500 CUP | |
| StaBALL 6.5 | 46.0 | 2669 | 59,000 PSI | |
| Hybrid 100V | 44.0C | 2568 | 48,300 CUP | |
| IMR 4451 | 43.8C | 2598 | 58,800 PSI | |
| W760 | 43.0 | 2495 | 50,100 CUP | |
| H380 | 42.7 | 2415 | 49,900 CUP | |
| H4350 | 42.4 | 2451 | 50,400 CUP | |
| IMR 4320 | 41.0 | 2464 | 49,700 CUP | |
| IMR 4895 | 40.5 | 2466 | 49,400 CUP | |
| IMR 4064 | 40.0C | 2433 | 49,700 CUP | |
| IMR 4166 | 38.2 | 2502 | 59,700 PSI | |
| IMR 3031 | 37.5 | 2381 | 49,700 CUP | |
| Varget | 37.5 | 2344 | 49,500 CUP | |
| H4895 | 37.5 | 2354 | 49,700 CUP | |
| BL-C(2) | 37.0 | 2298 | 49,500 CUP | |
| Benchmark | 36.5 | 2333 | 49,700 CUP | |
| H335 | 36.0 | 2276 | 49,800 CUP | |
| IMR 8208 XBR | 35.5 | 2372 | 48,200 CUP | |
| 175 GR. BAR TSX FB | | | | |
| COL: 2,735" | | | | |
| CASE: REMINGTON | | | | |
| PR: FED 210, LR | | | | |
| Hunter | 43.5 | 2400 | 52,800 PSI | |
| BIG GAME | 43.3 | 2510 | 60,800 PSI | |
| A-4064 | 39.5 | 2413 | 59,300 PSI | |
| A-2495 | 38.2 | 2393 | 60,800 PSI | |

| BULLET | POWDER | GR | VEL | CUP |
|-------------------------|--------|------|------------|-----|
| 7X57MM MAUSER | | | | |
| BBL: 24" | | | | |
| 120 GR. NOS BT | | | | |
| COL: 3,000" | | | | |
| CASE: WINCHESTER | | | | |
| H4831 | 52.5C | 2777 | 40,800 CUP | |
| IMR 4955 | 51.0C | 2823 | 44,800 CUP | |
| StaBALL 6.5 | 51.0 | 2964 | 45,700 CUP | |
| HYBRID 100V | 48.0C | 2806 | 41,700 CUP | |
| H4350 | 51.0C | 2945 | 45,800 CUP | |
| IMR 4451 | 47.5 | 2814 | 45,900 CUP | |
| W760 | 51.0 | 2938 | 45,600 CUP | |
| H380 | 47.5 | 2860 | 46,000 CUP | |
| VARGET | 44.0 | 2979 | 46,000 CUP | |
| H4895 | 42.0 | 2859 | 45,400 CUP | |
| BENCHMARK | 41.5 | 2863 | 46,000 CUP | |
| 140 GR. NOS BT | | | | |
| COL: 3,000" | | | | |
| CASE: WINCHESTER | | | | |
| H4831 | 49.5C | 2719 | 46,000 CUP | |
| IMR 4955 | 49.7C | 2695 | 45,400 CUP | |
| StaBALL 6.5 | 47.5 | 2714 | 45,700 CUP | |
| HYBRID 100V | 46.5C | 2654 | 43,300 CUP | |
| H4350 | 46.5 | 2682 | 46,000 CUP | |
| IMR 4451 | 45.0 | 2599 | 46,000 CUP | |

| BULLET | POWDER | GR | VEL | CUP |
|-----------|--------|------|------------|-----|
| W760 | 47.0 | 2715 | 46,000 CUP | |
| H380 | 44.0 | 2614 | 46,000 CUP | |
| VARGET | 37.7 | 2516 | 46,000 CUP | |
| H4895 | 37.5 | 2530 | 45,800 CUP | |
| BENCHMARK | 38.0 | 2571 | 45,700 CUP | |

7MM REM MAG BBL: 24"

| BULLET | POWDER | GR | VEL | CUP |
|------------------|--------|----|--------------------|-----|
| 140 GR. NOS PART | | | COL: 3,250" | |
| CASE: WINCHESTER | | | PR: WIN LR MAG | |

| BULLET | POWDER | GR | VEL | CUP |
|----------|--------|------|------------|-----|
| IMR 8133 | 78.0C | 3217 | 58,100 PSI | |
| RETUMBO | 75.0C | 3107 | 49,400 CUP | |

| BULLET | POWDER | GR | VEL | CUP |
|--------|--------|------|------------|-----|
| MAGNUM | 74.6 | 3116 | 60,100 PSI | |
| MAGPRO | 73.0 | 3118 | 59,200 PSI | |

| BULLET | POWDER | GR | VEL | CUP |
|----------|--------|------|------------|-----|
| IMR 7977 | 72 | 3175 | 59,900 PSI | |
| H1000 | 70 | 3036 | 50,600 CUP | |

| BULLET | POWDER | GR | VEL | CUP |
|----------|--------|------|------------|-----|
| IMR 7828 | 69 | 3095 | 59,200 PSI | |
| IMR 4955 | 67.4 | 3061 | 60,200 PSI | |

| BULLET | POWDER | GR | VEL | CUP |
|----------|--------|------|------------|-----|
| IMR 4831 | 65.4 | 3053 | 59,400 PSI | |
| H4831 | 64 | 2950 | 50,200 CUP | |

| BULLET | POWDER | GR | VEL | CUP |
|-------------|--------|------|------------|-----|
| HYBRID 100V | 63 | 3138 | 59,800 PSI | |
| IMR 4350 | 62.8 | 3045 | 58,600 PSI | |

| BULLET | POWDER | GR | VEL | CUP |
|----------|--------|------|------------|-----|
| IMR 4451 | 62 | 3136 | 58,800 PSI | |
| A-4350 | 60.7 | 3000 | 60,300 PSI | |

| BULLET | POWDER | GR | VEL | CUP |
|--------|--------|------|------------|-----|
| W760 | 60.2 | 2967 | 49,300 CUP | |
| H4350 | 59 | 2927 | 50,000 CUP | |

| BULLET | POWDER | GR | VEL | CUP |
|----------|--------|------|------------|-----|
| IMR 8133 | 72.8C | 2905 | 60,200 PSI | |
| RETUMBO | 70.8C | 2914 | 59,600 PSI | |

| BULLET | POWDER | GR | VEL | CUP |
|--------|--------|------|------------|-----|
| MAGNUM | 70.3 | 2886 | 60,600 PSI | |
| H1000 | 69.5C | 2884 | 60,000 PSI | |

| BULLET | POWDER | GR | VEL | CUP |
|----------|--------|------|------------|-----|
| MAGPRO | 68.3 | 2885 | 60,600 PSI | |
| IMR 7977 | 67.0C | 2793 | 59,200 PSI | |

| BULLET | POWDER | GR | VEL | CUP |
|----------|--------|------|------------|-----|
| IMR 7828 | 65.5 | 2874 | 58,900 PSI | |
| H4831 | 64.5 | 2830 | 60,200 PSI | |

| BULLET | POWDER | GR | VEL | CUP |
|----------|--------|------|------------|-----|
| IMR 4955 | 61.9 | 2716 | 60,200 PSI | |
| IMR 4831 | 62 | 2841 | 59,500 PSI | |

| BULLET | POWDER | GR | VEL | CUP |
|----------|--------|------|------------|-----|
| IMR 4350 | 61 | 2837 | 59,400 PSI | |
| A-4350 | 59.7 | 2750 | 60,200 PSI | |

| BULLET | POWDER | GR | VEL | CUP |
|-------------|--------|------|------------|-----|
| HYBRID 100V | 59 | 2810 | 59,700 PSI | |
| H4350 | 56 | 2752 | 59,000 PSI | |

| BULLET | POWDER | GR | VEL | CUP |
|----------|--------|------|------------|-----|
| IMR 4451 | 55.8 | 2757 | 59,600 PSI | |
| | | | | |

| BULLET | POWDER | GR | VEL | CUP |
|----------|--------|------|------------|-----|
| CFE BLK | 20.0C | 1945 | 26,500 PSI | |
| IMR 4227 | 17.5C | 1953 | 38,900 PSI | |

| BULLET | POWDER | GR | VEL | CUP |
|--------|--------|------|------------|-----|
| 296 | 18.5C | 2205 | 52,500 PSI | |
| H110 | 18.5C | 2205 | 52,500 PSI | |

| BULLET | POWDER | GR | VEL | CUP |
|------------|--------|------|------------|-----|
| LIL' GUN | 21.0C | 2402 | 48,800 PSI | |
| TRAIL BOSS | 6.1 | 1060 | 21,300 PSI | |

*Max loads that show an asterik following the "C" for compressed load will not fit with standard 7828. Reduce by 4%.

| BULLET | |
| --- | --- |

RIFLE data

* Max loads that show an asterik following the "C" for compress
load will not fit with standard 7828. Reduce by 4%.

| BULLET | POWDER | GR | VEL | CUP |
|-----------------------|--------|------|------------|------------------------------|
| 308 WINCHESTER | | | | BBL: 24" |
| 125 GR. SIE SPT | | | | COL: 2,700" |
| CASE: WINCHESTER | | | | PR: WIN LR |
| A-2520 | 51.7 | 3233 | 61,600 PSI | |
| TAC | 50.1 | 3198 | 61,400 PSI | |
| A-2460 | 48.5 | 3184 | 61,400 PSI | |
| X-TERMINATOR | 47.7 | 3195 | 61,500 PSI | |
| A-2230 | 47.7 | 3195 | 61,500 PSI | |
| A-2200 | 45.3 | 3166 | 61,300 PSI | |
| LT-30 | 42.5 | 3015 | 61,900 PSI | |
| 125 GR. SIE SPT | | | | COL: 2,700" |
| CASE: WINCHESTER | | | | PR: FED210M, LR MATCH |
| IMR 4320 | 53.0C | 3167 | 55,200 PSI | |
| BL-C(2) | 52.0 | 3069 | 42,600 CUP | |
| W748 | 52.0 | 3175 | 50,000 CUP | |
| IMR 4895 | 51.8C | 3185 | 55,200 PSI | |
| IMR 4166 | 50.7C | 3113 | 53,700 PSI | |
| IMR 4064 | 50.1C | 3119 | 52,100 PSI | |
| VARGET | 50.0C | 3135 | 45,700 CUP | |
| IMR 8208 XBR | 49.2C | 3174 | 60,100 PSI | |
| H4895 | 49.0C | 3127 | 48,400 CUP | |
| IMR 3031 | 48.0C | 3194 | 58,100 PSI | |
| H335 | 48.0 | 3080 | 48,200 CUP | |
| BENCHMARK | 47.5 | 3070 | 50,700 CUP | |
| H322 | 45.0 | 3052 | 51,400 CUP | |
| H4198 | 39.5 | 2988 | 49,800 CUP | |
| 150 GR. NOS E-TIP | | | | COL: 2,800" |
| CASE: WINCHESTER | | | | PR: WIN LR |
| A-2520 | 47.4 | 2899 | 61,600 PSI | |
| TAC | 45.3 | 2858 | 61,300 PSI | |
| A-2495 | 45.3 | 2805 | 60,900 PSI | |
| A-2460 | 44.3 | 2867 | 61,500 PSI | |
| X-TERMINATOR | 43.3 | 2830 | 61,300 PSI | |
| A-2230 | 43.3 | 2830 | 61,300 PSI | |
| A-2015 | 41.2 | 2690 | 61,600 PSI | |
| A-2200 | 39.2 | 2744 | 61,000 PSI | |
| LT-30 | 37.5 | 2632 | 61,800 PSI | |
| 150 GR. NOS E-TIP | | | | COL: 2,800" |
| CASE: WINCHESTER | | | | PR: FED210M, LR MATCH |
| IMR 4064 | 46.7C | 2883 | 59,800 PSI | |
| IMR 4895 | 46.5C | 2899 | 60,100 PSI | |
| VARGET | 46.5C | 2914 | 60,400 PSI | |
| IMR 4166 | 45.7C | 2839 | 61,400 PSI | |
| CFE 223 | 51.1 | 2990 | 60,400 PSI | |
| IMR 4320 | 47.6 | 2876 | 60,100 PSI | |
| W748 | 47.3 | 2923 | 59,600 PSI | |
| BL-C(2) | 47 | 2868 | 60,100 PSI | |
| H4895 | 45.6 | 2893 | 60,500 PSI | |
| IMR 8208 XBR | 44.3 | 2889 | 60,000 PSI | |
| H335 | 43.4 | 2790 | 59,100 PSI | |
| BENCHMARK | 43 | 2819 | 59,600 PSI | |
| IMR 3031 | 42.8 | 2839 | 60,100 PSI | |
| 168 GR. SIE HPBT | | | | COL: 2,800" |
| CASE: WINCHESTER | | | | PR: WIN LR |
| A-4064 | 46.5 | 2783 | 61,400 PSI | |
| A-2520 | 44.5 | 2741 | 61,500 PSI | |
| A-2495 | 44.2 | 2727 | 61,800 PSI | |

| BULLET | POWDER | GR | VEL | CUP |
|------------------|--------|------|------------|------------------------------|
| TAC | 43.7 | 2730 | 62,000 PSI | |
| A-2460 | 42.3 | 2705 | 61,700 PSI | |
| X-TERMINATOR | 41.6 | 2687 | 61,600 PSI | |
| A-2230 | 41.6 | 2687 | 61,600 PSI | |
| A-2015 | 39.8 | 2575 | 61,200 PSI | |
| A-2200 | 38.7 | 2634 | 61,600 PSI | |
| LT-30 | 37.7 | 2569 | 61,500 PSI | |
| LT-32 | 37.5 | 2555 | 61,500 PSI | |
| A-5744 | 35.8 | 2737 | 61,500 PSI | |
| 168 GR. SIE HPBT | | | | COL: 2,800" |
| CASE: WINCHESTER | | | | PR: FED210M, LR MATCH |
| CFE 223 | 49.0 | 2828 | 60,400 PSI | |
| VARGET | 46.0C | 2731 | 50,600 CUP | |
| IMR 4064 | 45.9C | 2766 | 58,800 PSI | |
| IMR 4166 | 43.5C | 2704 | 60,800 PSI | |
| BL-C(2) | 47.0 | 2754 | 50,200 CUP | |
| IMR 4895 | 45.4C | 2758 | 58,000 PSI | |
| H335 | 42.0 | 2631 | 49,300 CUP | |
| H4895 | 43.5 | 2703 | 49,500 CUP | |
| IMR 8208 XBR | 43.3 | 2707 | 61,500 PSI | |
| IMR 3031 | 42.0 | 2710 | 58,900 PSI | |
| BENCHMARK | 42.0 | 2630 | 49,300 CUP | |
| TITEGROUP | 8.0 | 1080 | 25,000 CUP | |
| CLAYS | 8.0 | 1060 | 26,800 CUP | |
| 175 GR. NOS HPBT | | | | COL: 2,810" |
| CASE: WINCHESTER | | | | PR: WIN LR |
| A-4064 | 46.2 | 2733 | 61,100 PSI | |
| A-2520 | 43.9 | 2669 | 61,200 PSI | |
| A-2495 | 43.3 | 2674 | 61,400 PSI | |
| TAC | 42.8 | 2673 | 61,000 PSI | |
| A-2460 | 41.6 | 2668 | 61,400 PSI | |
| A-2015 | 39.6 | 2510 | 61,600 PSI | |
| 175 GR. SIE HPBT | | | | COL: 2,800" |
| CASE: WINCHESTER | | | | PR: FED210M, LR MATCH |
| W760 | 49.0 | 2629 | 50,100 CUP | |
| CFE 223 | 47.5 | 2752 | 60,400 PSI | |
| VARGET | 45.0C | 2690 | 48,600 CUP | |
| IMR 4064 | 45.6C | 2728 | 59,500 PSI | |
| IMR 4166 | 43.1 | 2652 | 60,100 PSI | |
| BL-C(2) | 46.0 | 2706 | 50,300 CUP | |
| IMR 4895 | 45.0C | 2704 | 57,800 PSI | |
| H335 | 41.3 | 2592 | 50,100 CUP | |
| H4895 | 42.7 | 2647 | 49,000 CUP | |
| IMR 8208 XBR | 42.5 | 2664 | 61,800 PSI | |
| IMR 3031 | 41.3 | 2653 | 59,100 PSI | |
| BENCHMARK | 41.5 | 2590 | 50,800 CUP | |
| 30-06 SPRG | | | | BBL: 24" |
| 110 GR. HDY SP | | | | COL: 3,170" |
| CASE: WINCHESTER | | | | PR: WIN LR |
| W760 | 62.5 | 3268 | 46,900 CUP | |
| IMR 4320 | 60.5 | 3470 | 58,100 PSI | |
| BL-C(2) | 60.0 | 3396 | 45,000 CUP | |
| IMR 4895 | 59.8 | 3505 | 57,300 PSI | |
| CFE 223 | 59.0 | 3370 | 56,400 PSI | |
| VARGET | 59.0 | 3452 | 48,500 CUP | |
| IMR 4064 | 58.5 | 3453 | 56,400 PSI | |
| H4895 | 57.0 | 3431 | 49,300 CUP | |
| IMR 8208 XBR | 56.0 | 3415 | 57,500 PSI | |

| BULLET | POWDER | GR | VEL | CUP |
|---------------------|--------|------|------------|--------------------|
| H335 | 55.5 | 3367 | 48,100 CUP | |
| BENCHMARK | 55.0 | 3396 | 49,800 CUP | |
| IMR 3031 | 54.9 | 3471 | 57,800 PSI | |
| W748 | 52.7 | 3320 | 47,000 CUP | |
| 115 GR. BER FBT | | | | COL: 3,200" |
| CASE: REMINGTON | | | | PR: WIN LR |
| HUNTER | 68.6 | 3406 | 54,900 PSI | |
| BIG GAME | 66.0 | 3506 | 59,900 PSI | |
| A-2700 | 64.2 | 3318 | 52,200 PSI | |
| A-4064 | 59.9 | 3399 | 59,100 PSI | |
| A-2520 | 54.9 | 3365 | 59,300 PSI | |
| TAC | 54.0 | 3336 | 59,600 PSI | |
| 150 GR. NOS E-TIP | | | | COL: 3,300" |
| CASE: REMINGTON | | | | PR: WIN LR |
| HUNTER | 63.6 | 3082 | 59,000 PSI | |
| BIG GAME | 56.6 | 2995 | 59,800 PSI | |
| A-2700 | 56.6 | 2988 | 59,700 PSI | |
| A-4064 | 50.3 | 2897 | 59,300 PSI | |
| 150 GR. NOS E-TIP | | | | COL: 3,300" |
| CASE: WINCHESTER | | | | PR: WIN LR |
| H4350 | 57.8C | 2927 | 57,700 PSI | |
| IMR 4451 | 57.5C | 2947 | 58,900 PSI | |
| IMR 4350 | 57.5C | 2930 | 57,300 PSI | |
| W760 | 57.0 | 2945 | 57,100 PSI | |
| H380 | 57.0 | 2921 | 57,300 PSI | |
| BL-C(2) | 53.5 | 2915 | 57,900 PSI | |
| CFE 223 | 53.2 | 2927 | 58,600 PSI | |
| IMR 4320 | 52.0 | 2897 | 58,100 PSI | |
| W748 | 51.5 | 2859 | 55,400 PSI | |
| IMR 4064 | 51.0 | 2926 | 59,500 PSI | |
| IMR 4895 | 50.8 | 2900 | 58,700 PSI | |
| VARGET | 49.5 | 2860 | 58,000 PSI | |
| IMR 4166 | 49.3 | 2921 | 59,100 PSI | |
| H335 | 48.0 | 2842 | 59,200 PSI | |
| BENCHMARK | 48.0 | 2850 | 58,600 PSI | |
| IMR 8208 XBR | 47.7 | 2838 | 58,500 PSI | |
| H4895 | 47.5 | 2863 | 59,700 PSI | |
| IMR 3031 | 46.0 | 2811 | 56,600 PSI | |
| 165 GR. SIE SPBT | | | | COL: 3,300" |
| CASE: WINCHESTER | | | | PR: WIN LR |
| HYBRID 100V | 57.0C | 2801 | 52,800 PSI | |
| H4350 | 59 | 2938 | 49,400 CUP | |
| IMR 4350 | 60.0C | 2934 | 57,600 PSI | |
| IMR 4451 | 57.4C | 2858 | 59,200 PSI | |
| W760 | 56.5 | 2877 | 49,700 CUP | |
| H380 | 56.5 | 2892 | 50,000 CUP | |
| CFE 223 | 49.5 | 2731 | 58,700 PSI | |
| VARGET | 50.5 | 2873 | 49,700 CUP | |
| IMR 4064 | 52.5 | 2901 | 58,900 PSI | |
| IMR 4166 | 49.1 | 2832 | 58,900 PSI | |
| BL-C(2) | 51 | 2805 | 49,800 CUP | |
| IMR 4895 | 52 | 2888 | 57,200 PSI | |
| H335 | 47 | 2749 | 49,300 CUP | |
| H4895 | 47.5 | 2782 | 49,000 CUP | |
| IMR 8208 XBR | 46.5 | 2728 | 58,000 PSI | |
| IMR 3031 | 48 | 2825 | 57,500 PSI | |
| BENCHMARK | 47.7 | 2795 | 49,300 CUP | |
| 168 GR. BAR TTSS BT | | | | COL: 3,300" |
| CASE: REMINGTON | | | | PR: WIN LR |

| BULLET | POWDER | GR | VEL | CUP |
|-----------------------|--------|------|------------|-----------------------|
| HUNTER | 61.6 | 2902 | 56,300 PSI | |
| BIG GAME | 56.2 | 2870 | 59,700 PSI | |
| A-4350 | 55.1 | 2697 | 52,300 PSI | |
| A-2700 | 53.9 | 2817 | 59,500 PSI | |
| A-4064 | 51.0 | 2790 | 60,000 PSI | |
| 180 GR. HDY SST | | | | COL: 3,220" |
| CASE: REMINGTON | | | | PR: WIN LR |
| HUNTER | 60.5 | 2869 | 59,000 PSI | |
| A-4350 | 55.9 | 2678 | 51,700 PSI | |
| BIG GAME | 54.2 | 2768 | 59,600 PSI | |
| A-2700 | 53.8 | 2761 | 59,300 PSI | |
| A-4064 | 50.3 | 2723 | 59,400 PSI | |
| 180 GR. SIE SPBT | | | | COL: 3,300" |
| CASE: WINCHESTER | | | | PR: WIN LR |
| IMR 4955 | 61.0C | 2828 | 60,000 PSI | |
| H4831 | 60.0C | 2710 | 44,300 CUP | |
| StaBALL 6.5 | 57.2 | 2857 | 59,600 PSI | |
| HYBRID 100V | 57.0C | 2742 | 55,200 PSI | |
| IMR 4831 | 56.8C | 2749 | 57,100 PSI | |
| H4350 | 57.5 | 2798 | 49,300 CUP | |
| IMR 4451 | 55.6 | 2752 | 59,600 PSI | |
| IMR 4350 | 56.5C | 2752 | 57,200 PSI | |
| W760 | 55.5 | 2743 | 48,700 CUP | |
| IMR 4007 SSC | 53.5 | 2732 | 58,100 PSI | |
| H380 | 53.0 | 2682 | 48,700 CUP | |
| VARGET | 47.0 | 2668 | 50,000 PSI | |
| IMR 4064 | 48.7 | 2700 | 58,200 PSI | |
| IMR 4166 | 48.8 | 2724 | 58,800 PSI | |
| BL-C(2) | 48.5 | 2634 | 48,100 CUP | |
| IMR 4895 | 48.0 | 2680 | 56,800 PSI | |
| H335 | 46.0 | 2621 | 49,200 CUP | |
| H4895 | 46.0 | 2638 | 48,800 PSI | |
| BENCHMARK | 46.0 | 2660 | 49,000 PSI | |
| 300 WIN. SHORT MAGNUM | | | | BBL: 24" |
| 150 GR. HDY BTSP | | | | COL: 2,800" |
| CASE: WINCHESTER | | | | PR: WIN LR MAG |
| MAGPRO | 79.8 | 3285 | 61,800 PSI | |
| A-4350 | 70.8 | 3285 | 63,500 PSI | |
| A-2700 | 68.0 | 3220 | 62,500 PSI | |
| 150 GR. SPR GSPP | | | | |

PISTOL data

| BULLET | POWDER | GR | VEL | CUP |
|---|--------|------|------------|-----|
| FN 5.7X28MM BBL: 5" | | | | |
| 35 GR. HDY V-MAX COL: 1.490" PR: WIN SP | | | | |
| CASE: FNH | | | | |
| NO. 7 | 8.2 | 2197 | 45,200 PSI | |
| NO. 5 | 6.7 | 2100 | 45,500 PSI | |
| TRUE BLUE | 6.4 | 2007 | 45,500 PSI | |
| 40 GR. HDY V-MAX 1.580" PR: WIN SP | | | | |
| CASE: FNH | | | | |
| NO. 7 | 6.8 | 1880 | 48,200 PSI | |
| NO. 5 | 5.7 | 1875 | 48,000 PSI | |
| TRUE BLUE | 5.6 | 1850 | 48,800 PSI | |
| 45 GR. SIE SPT 1.580" PR: WIN SP | | | | |
| CASE: FNH | | | | |
| NO. 7 | 6.5 | 1782 | 48,300 PSI | |
| NO. 5 | 5.6 | 1746 | 47,800 PSI | |
| TRUE BLUE | 5.4 | 1725 | 46,200 PSI | |
| 22 TCM BBL: 5" | | | | |
| 35 GR. HDY V-MAX COL: 1.290" PR: CCI 500, SP | | | | |
| CASE: ARMSCOR | | | | |
| NO. 11 FS | 11.1 | 2054 | 38,200 PSI | |
| ENFORCER | 10.5 | 2064 | 37,800 PSI | |
| A-4100 | 10.4 | 2043 | 36,900 PSI | |
| 39 GR. ARMSCOR HP COL: 1.150" PR: CCI 500, SP | | | | |
| CASE: ARMSCOR | | | | |
| NO. 11 FS | 10.7 | 1914 | 37,900 PSI | |
| ENFORCER | 10.1 | 1921 | 37,900 PSI | |
| A-4100 | 10 | 1904 | 37,100 PSI | |
| TCM | 9.4 | 1943 | 38,200 PSI | |
| 40 GR. SIE HORNET COL: 1.285" PR: CCI 500, SP | | | | |
| CASE: ARMSCOR | | | | |
| NO. 11 FS | 11.2 | 1945 | 38,500 PSI | |
| ENFORCER | 10.3 | 1929 | 37,900 PSI | |
| A-4100 | 10.2 | 1911 | 37,100 PSI | |
| TCM | 9.6 | 1958 | 38,200 PSI | |
| 30 LUGER BBL: 6" | | | | |
| 90 GR. HDY XTP COL: 1.170" PR: WIN SP | | | | |
| CASE: FIOCCHI | | | | |
| NO. 7 | 7.2 | 1338 | 26,400 PSI | |
| NO. 5 | 5.8 | 1301 | 26,300 PSI | |
| NO. 2 | 4.5 | 1257 | 28,000 PSI | |
| 32-20 WINCHESTER BBL: 5.5" | | | | |
| 90 GR. CAST LRNFP COL: 1.490" PR: WIN SP | | | | |
| CASE: REMINGTON | | | | |
| W231 | 3.5 | 969 | 16,000 CUP | |
| TRAIL BOSS | 2.8 | 830 | 13,900 CUP | |
| TITEGROUP | 3.4 | 1012 | 15,800 CUP | |
| 327 FED MAG BBL: 5" | | | | |
| 90 GR. CAST LRNFP COL: 1.460" PR: FED 200, SP MAG | | | | |
| CASE: FEDERAL | | | | |
| AUTOCOMP | 6.3 | 1348 | 28,700 PSI | |
| W231 | 5.5 | 1299 | 30,400 PSI | |

| BULLET | POWDER | GR | VEL | CUP |
|---|--------|------|------------|-----|
| UNIVERSAL 5.2 1274 27,800 PSI | | | | |
| TITEGROUP 5 1283 28,800 PSI | | | | |
| 700-X 5 1277 28,100 PSI | | | | |
| CLAYS 4.2 1186 37,900 PSI | | | | |
| TRAIL BOSS 3.2 890 14,800 PSI | | | | |
| 90 GR. HDY LSWC COL: 1.487" PR: WIN SP | | | | |
| CASE: FEDERAL | | | | |
| NO. 9 | 14.5 | 1715 | 37,200 PSI | |
| NO. 7 | 10 | 1605 | 44,200 PSI | |
| NO. 5 | 8.2 | 1555 | 43,500 PSI | |
| TRUE BLUE | 7.9 | 1536 | 41,300 PSI | |
| 100 GR. HDY XTP COL: 1.450" PR: WIN SP | | | | |
| CASE: FEDERAL | | | | |
| ENFORCER | 13.6 | 1522 | 30,000 PSI | |
| NO. 9 | 13.0 | 1574 | 37,000 PSI | |
| NO. 7 | 9.4 | 1505 | 43,100 PSI | |
| 100 GR. HDY XTP COL: 1.450" PR: FED200, SPM | | | | |
| CASE: FEDERAL | | | | |
| LIL' GUN | 14 | 1431 | 27,900 PSI | |
| W296 | 13.2 | 1525 | 38,500 PSI | |
| H110 | 13.2 | 1525 | 38,500 PSI | |
| IMR 4227 | 12.5C | 1318 | 30,000 PSI | |
| HS-6 | 7.7 | 1384 | 42,000 PSI | |
| CFE PISTOL | 7 | 1451 | 42,300 PSI | |
| 800-X | 6.9 | 1434 | 39,400 PSI | |
| LONGSHOT | 6.7 | 1400 | 43,500 PSI | |
| AUTOCOMP | 6.2 | 1328 | 41,400 PSI | |
| W244 | 6 | 1407 | 42,500 PSI | |
| W231 | 5.4 | 1261 | 39,800 PSI | |
| UNIVERSAL | 5.4 | 1250 | 40,800 PSI | |
| TITEGROUP | 5.2 | 1261 | 42,800 PSI | |
| 380 AUTO BBL: 3.750" | | | | |
| 65 GR. LGH XD COL: .950" PR: CCI 500, SP | | | | |
| CASE: WINCHESTER | | | | |
| HS-6 | 6 | 1215 | 20,100 PSI | |
| LONGSHOT | 5.2 | 1276 | 19,500 PSI | |
| AUTOCOMP | 4.9 | 1245 | 19,900 PSI | |
| CFE PISTOL | 4.8 | 1278 | 20,500 PSI | |
| W572 | 4.7 | 1230 | 20,200 PSI | |
| UNIVERSAL | 4.3 | 1248 | 20,400 PSI | |
| W244 | 4 | 1214 | 20,400 PSI | |
| W231 | 3.6 | 1161 | 20,300 PSI | |
| TITEGROUP | 3.6 | 1194 | 20,200 PSI | |
| 95 GR. SIE FMJ PR: CCI 500, SP | | | | |
| CASE: WINCHESTER | | | | |
| NO. 5 | 4.8 | 891 | 18,300 PSI | |
| NO. 2 | 3.7 | 934 | 18,300 PSI | |
| 95 GR. SPR FMJ COL: .970" PR: CCI 500, SP | | | | |
| CASE: REMINGTON | | | | |
| AUTOCOMP | 4.3 | 937 | 14,100 CUP | |
| W572 | 4.2 | 982 | 19,900 PSI | |
| CFE Pistol | 4.2 | 986 | 19,900 PSI | |
| W244 | 3.7 | 995 | 19,600 PSI | |
| UNIVERSAL | 3.5 | 901 | 15,500 CUP | |
| W231 | 3.2 | 884 | 15,400 CUP | |
| Titegroup | 3.2 | 953 | 15,600 CUP | |
| 9MM LUGER BBL: 4" | | | | |
| 90 GR. CEB RAPTOR COL: 1.140" PR: CCI 500, SP | | | | |
| CASE: WINCHESTER | | | | |
| HS-6 | 7.3 | 1292 | 32,600 PSI | |
| LONGSHOT | 6.6 | 1315 | 29,700 PSI | |
| W572 | 6 | 1312 | 32,800 PSI | |
| AUTOCOMP | 5.8 | 1270 | 32,600 PSI | |
| WSF | 5.7 | 1272 | 32,800 PSI | |
| CFE PISTOL | 5.6 | 1277 | 32,800 PSI | |
| UNIVERSAL | 5.4 | 1246 | 31,200 PSI | |
| W244 | 4.9 | 1271 | 32,900 PSI | |
| W231 | 4.7 | 1187 | 32,500 PSI | |
| TITEGROUP | 4.5 | 1232 | 32,500 PSI | |
| 115 GR. SIE FMJ COL: 1.100" PR: WIN SP | | | | |
| CASE: WINCHESTER | | | | |
| NO. 7 | 7.8 | 1166 | 34,600 PSI | |
| NO. 5 | 6.3 | 1148 | 34,200 PSI | |
| TRUE BLUE | 5.9 | 1147 | 34,500 PSI | |
| SILHOUETTE | 5.9 | 1180 | 35,000 PSI | |
| NO. 2 | 4.6 | 1088 | 34,200 PSI | |
| SOLO 1000 | 4.6 | 1085 | 34,900 PSI | |
| ZIP | 4.5 | 1106 | 35,000 PSI | |
| COMPETITION | 3.7 | 1020 | 33,900 PSI | |
| NITRO 100 NF | 3.3 | 986 | 33,900 PSI | |
| 115 GR. SPR GDHP COL: 1.125" PR: CCI 500, SP | | | | |
| CASE: WINCHESTER | | | | |
| 700-X | 4.2 | 1091 | 31,900 PSI | |
| LONGSHOT | 6.0 | 1203 | 32,300 PSI | |
| 572 | 5.7 | 1221 | 33,000 PSI | |
| HS-6 | 7.0 | 1234 | 29,400 CUP | |
| CFE PISTOL | 5.9 | 1185 | 31,800 PSI | |
| AUTOCOMP | 5.6 | 1161 | 32,500 PSI | |
| UNIVERSAL | 5.0 | 1149 | 31,200 CUP | |
| 244 | 4.7 | 1197 | 33,100 PSI | |
| 231 | 5.1 | 1167 | 28,100 CUP | |
| HP-38 | 5.1 | 1167 | 28,100 CUP | |
| IMR TARGET | 4.9 | 1171 | 32,600 PSI | |
| TITEGROUP | 4.8 | 1158 | 30,500 CUP | |
| CLAYS | 3.9 | 1095 | 32,600 CUP | |
| 124 GR. HDY XTP COL: 1.060" PR: WIN SP | | | | |
| CASE: WINCHESTER | | | | |
| NO. 7 | 7.3 | 1150 | 34,800 PSI | |
| NO. 5 | 5.7 | 1075 | 34,500 PSI | |
| SILHOUETTE | 5.4 | 1072 | 34,900 PSI | |
| TRUE BLUE | 5.5 | 1060 | 34,500 PSI | |
| ZIP | 3.7 | 967 | 34,900 PSI | |
| NO. 2 | 3.6 | 938 | 34,500 PSI | |
| SOLO 1000 | 3.6 | 935 | 34,900 PSI | |
| COMPETITION | 3 | 898 | 34,700 PSI | |
| NITRO 100 NF | 2.9 | 883 | 34,800 PSI | |
| 124 GR. HDY XTP COL: 1.060" PR: CCI 500, SP | | | | |
| CASE: WINCHESTER | | | | |
| LONGSHOT | 6.2 | 1209 | 32,900 PSI | |
| CFE PISTOL | 5.1 | 1181 | 33,600 PSI | |
| HS-6 | 6.1 | 1136 | 33,100 PSI | |
| W572 | 5.1 | 1126 | 32,500 PSI | |
| UNIVERSAL | 4.5 | 1126 | 33,300 PSI | |
| W244 | 4.2 | 1090 | 33,000 PSI | |
| TITEGROUP | 3.9 | 1069 | 32,800 PSI | |
| 38 SPECIAL BBL: 7.7" | | | | |
| 125 GR. SIE JHC COL: 1.447" PR: WIN SP | | | | |
| CASE: STARLINE | | | | |
| NO. 5 | 6.8 | 1055 | 17,000 PSI | |
| SILHOUETTE | 6.7 | 1192 | 16,600 PSI | |
| TRUE BLUE | 6.3 | 1100 | 16,300 PSI | |
| ZIP | 5.3 | 1098 | 16,600 PSI | |
| COMPETITION | 3.9 | 975 | 16,400 PSI | |
| 125 GR. HDY XTP COL: 1.445" PR: WIN SP | | | | |
| CASE: WINCHESTER | | | | |
| 572 | 5.9 | 1069 | 16,800 PSI | |
| HS-6 | 7.2 | 1048 | 16,600 CUP | |
| CFE PISTOL | 6.3 | 1133 | 16,000 PSI | |
| AUTOCOMP | 6.2 | 1068 | 16,500 PSI | |
| UNIVERSAL | 5.2 | 1019 | 17,000 CUP | |
| 244 | 5.2 | 1077 | 16,600 PSI | |
| 231 | 4.9 | 934 | 16,300 CUP | |

Loads listed are Maximum. Do NOT Exceed. Reduce by 10% to Start.

For complete reloading data, please visit www.HoddingReloading.com

PISTOL data

BULLET POWDER GR VEL CUP

NITRO 100 NF 4.9 940 20,800 PSI

185 GR. HDY JSWC COL: 1.195"

CASE: WINCHESTER PR: FED 150, LP

LONGSHOT 8.2 1044 17,000 CUP
572 7.7 1036 20,000 PSI
HS-6 9.5 996 16,800 CUP
CFE PISTOL 8.1 1139 19,700 PSI
AUTOCOMP 7.4 958 16,200 CUP
UNIVERSAL 6.4 977 16,800 CUP
WSF 7.5 981 17,400 CUP
244 6.2 1022 19,600 PSI
231 5.9 906 15,800 CUP
HP-38 5.9 906 15,800 CUP
WST 4.9 866 16,500 CUP
IMR TARGET 6.1 1028 19,000 PSI
TITEGROUP 5.5 956 17,000 CUP
700-X 5.5 959 17,100 CUP
CLAYS 4.9 981 17,400 CUP

200 GR. BERB FP COL: 1.205"

CASE: REMINGTON PR: FED 150, LP

NO. 7 11.6 1054 20,500 PSI
NO. 5 9.3 1024 20,600 PSI
TRUE BLUE 9.1 1065 20,800 PSI
SILHOUETTE 8.7 1034 20,300 PSI
ZIP 7.1 1039 20,800 PSI
NO. 2 6.3 958 20,200 PSI
SOLO 1000 5.7 943 20,300 PSI
COMPETITION 4.9 915 20,900 PSI
NITRO 100 NF 4.5 901 20,600 PSI

200 GR. CAST LSWC COL: 1.225"

CASE: WINCHESTER PR: FED 150, LP

HS-6 8.4 907 16,300 CUP
CFE PISTOL 8.2 1142 19,600 PSI
800-X 7.7 958 15,700 CUP
W572 7.2 1018 19,600 PSI
AUTOCOMP 7.2 914 15,100 CUP
WSF 6.7 970 19,400 PSI
UNIVERSAL 6.3 962 16,800 CUP
W244 5.8 992 19,800 PSI
W231 5.6 914 16,900 CUP
TRAIL BOSS 5.5 816 16,100 CUP
TITEGROUP 5.4 957 16,800 CUP
700-X 5.3 921 16,300 CUP
WST 5.1 910 19,900 PSI
TITEWAD 4.5 940 20,000 PSI
CLAYS 4.3 888 17,000 CUP

230 GR. GSBR COL: 1.225"

CASE: REMINGTON PR: FED 150, LP

NO. 7 10 943 21,000 PSI
NO. 5 8.2 935 20,700 PSI
SILHOUETTE 7.6 966 20,500 PSI
TRUE BLUE 7.3 909 20,100 CUP
ZIP 5.7 873 20,500 PSI
NO. 2 5.3 853 20,500 PSI
SOLO 1000 5 831 20,400 PSI
COMPETITION 4.2 792 20,800 PSI
COMPETITION 5.1 967 20,400 PSI

230 GR. HDY FMJ FP COL: 1.200"

CASE: WINCHESTER PR: FED 150, LP

BULLET POWDER GR VEL CUP

LONGSHOT 6.8 908 17,200 CUP

572 6.8 875 19,700 PSI
HS-6 8.2 825 15,400 CUP
CFE PISTOL 6.8 934 19,800 PSI
AUTOCOMP 6.6 871 17,100 CUP
UNIVERSAL 5.6 844 16,800 CUP
WSF 6.4 851 15,700 CUP
244 5.6 885 19,700 PSI
231 5.3 832 16,800 CUP
HP-38 5.3 832 16,800 CUP
IMR TARGET 5.6 871 20,000 PSI
TITEGROUP 4.8 818 16,700 CUP
700-X 4.9 842 16,600 CUP
CLAYS 4.0 732 17,000 CUP

45 COLT BBL: 7.25"

255 GR. LC LSWC COL: 1.595"

CASE: WINCHESTER PR: WIN LP

A-5744 19.5 1011 14,000 PSI
NO. 5 9.6 936 13,400 PSI
SILHOUETTE 9.5 953 14,000 PSI
TRUE BLUE 8.8 954 14,000 PSI
ZIP 7.1 898 13,900 PSI
NO. 2 7 888 13,800 PSI
SOLO 1000 6.1 845 13,900 PSI
COMPETITION 5.1 820 13,700 PSI
NITRO 100 NF 4.9 802 13,800 PSI

260 GR. SPR JHP COL: 1.595"

CASE: WINCHESTER PR: WIN LP

HS-6 10.7 865 14,000 CUP
CFE PISTOL 8.8 916 13,200 PSI
AUTOCOMP 8.0 770 13,500 PSI
UNIVERSAL 8.0 813 14,000 CUP
244 7.0 798 13,300 PSI
IMR TARGET 6.5 804 13,300 PSI
TITEGROUP 6.3 797 12,500 CUP
231 7.1 787 14,000 CUP
HP-38 7.1 787 14,000 CUP
700-X 5.2 714 12,500 PSI

300 GR. LC LFP COL: 1.565"

CASE: WINCHESTER PR: REM 2 1/2 LP

A-5744 15.8 853 13,800 PSI
SILHOUETTE 7.9 835 13,900 PSI
NO. 5 7.8 818 13,200 PSI
TRUE BLUE 7.4 838 14,000 PSI
ZIP 5.7 759 13,300 PSI
NO. 2 5.6 749 14,000 PSI
SOLO 1000 4.8 712 13,400 PSI
COMPETITION 4 685 13,500 PSI
NITRO 100 NF 3.8 662 13,100 PSI

300 GR. SIE JFP COL: 1.670"

CASE: WINCHESTER PR: WIN LP

HS-6 10 730 13,700 CUP
W572 7.5 689 12,800 PSI
AUTOCOMP 7.3 663 12,700 PSI
UNIVERSAL 7.3 700 13,700 CUP
CFE PISTOL 7.2 710 13,800 PSI
W244 6.3 664 13,200 PSI
TITEGROUP 5.8 682 12,900 CUP

BULLET POWDER GR VEL CUP

454 CASULL BBL: 9.375"

260 GR. NOS PART COL: 1.735"

CASE: HORNADY PR: CCI 400, SR

ENFORCER 30 1750 53,500 PSI
A-4100 29.8 1733 52,700 PSI

260 GR. FA JFP COL: 1.765"

CASE: FREEDOM ARMS PR: WIN SR

H4227 33.0C 1762 42,100 CUP
H110 36.0 1954 51,600 CUP
LIL'GUN 35.5 1895 37,900 CUP
296 36.0 1954 51,600 CUP

300 GR. HDY XTP COL: 1.760"

CASE: HORNADY PR: CCI 400, SR

A-1680 33.5 1594 49,600 PSI
NO. 9 27.5 1691 55,400 PSI
A-5744 26 1275 32,600 PSI
TRUE BLUE 18.5 1420 53,600 PSI

300 GR. FA JFP COL: 1.775"

CASE: FREEDOM ARMS PR: WIN SR

H4227 31.0C 1702 52,400 CUP
H110 30.0 1716 53,700 CUP
LIL'GUN 31.0 1746 45,000 CUP
296 30.0 1716 53,700 CUP

460 S&W MAGNUM BBL: 10.743"

260 GR. NOS PART COL: 2.175"

CASE: HORNADY PR: WIN LRM

A-1680 46 1860 51,500 PSI
ENFORCER 42.5 2092 57,900 PSI
A-4100 41 2048 58,200 PSI
A-5744 40 1880 55,000 PSI
NO. 9 35 1895 59,000 PSI

260 GR. NOS PART COL: 2.175"

CASE: STARLINE PR: WIN LRM

W296 46 2178 54,000 PSI
H110 46 2178 54,000 PSI
LIL'GUN 46 2080 43,400 PSI
H4227 43.0C 2098 51,300 PSI

300 GR. SIE JSP COL: 2.208"

CASE: STARLINE PR: WIN LR

A-1680 45 1810 57,000 PSI
A-5744 38 1785 57,800 PSI
NO. 9 34 1790 61,000 PSI

300 GR. HDY XTP MAG COL: 2.160"

CASE: STARLINE PR: WIN LRM

H4227 40.0C 1988 57,000 PSI
H110 42.5 2034 56,100 PSI
LIL'GUN 44.0 2067 53,600 PSI
296 42.5 2034 56,100 PSI

500 S&W MAGNUM BBL: 10"

350 GR. HDY XTP COL: 1.985"

CASE: HORNADY PR: WIN LR

A-1680 53.6 1820 42,700 PSI
A-5744 49.4 1868 53,600 PSI
ENFORCER 45 1914 55,000 PSI
A-4100 44.9 1909 54,500 PSI

BULLET POWDER GR VEL CUP

NO. 9 41.8 1878 54,800 PSI

350 GR. HDY XTP COL: 1.985"

CASE: STARLINE PR: WIN LRM

CFE BLK 54.0C 1836 35,700 PSI
W296 43 1877 50,600 PSI
H110 43 1877 50,600 PSI
H4227 42.5 1863 49,900 PSI
LIL'GUN 42 1912 48,100 PSI
LONGSHOT 23 1602 50,000 PSI
TITEGROUP 18.5 1461 50,000 PSI

400 GR. SIE JSP COL: 2.050

CASE: HORNADY PR: WIN LR

A-1680 50 1699 43,800 PSI
A-5744 46.7 1743 54,300 PSI
ENFORCER 42 1749 54,400 PSI
A-4100 41.8 1738 53,500 PSI
NO. 9 37 1669 53,100 PSI

400 GR. SIE JSP COL: 2.050

CASE: STARLINE PR: WIN LRM

CFE BLK 52.0C 1759 40,900 PSI
W296 40 1721 49,700 PSI
H110 40 1721 49,700 PSI
H4227 39.5 1698 49,100 PSI
LIL'GUN 37 1725 49,300 PSI
LONGSHOT 22 1458 49,000 PSI
TITEGROUP 17.5 1335 49,900 PSI

NOTES

SHOTHELL data

Shotshell loading data is shown in a format that provides convenient indexing of the load components and performance. Loads are listed in the following sequence:

- Gauge – largest to smallest
- Length – shortest to longest hull length
- Alphabetical order listing by hull manufacturer
- Shot Weight – lightest to heaviest
- Alphabetical order listing by primer manufacturer

For every load component set, multiple velocity levels are shown. Factory standard velocities are given to allow the handloader to duplicate their favorite offerings. Additional velocity levels may also be listed so the handloader can adjust load performance faster or slower than the standard factory loads.

A common concern with shotshell is recoil. Recoil can be controlled significantly through the use of lower shot weights and lower velocity levels. This shotshell loading data contains a number of such loads for those who want reduced recoil. Note that lower recoil loads may not function semi-automatic shotguns.

Primarily, the data for this edition was developed through the use of pressure barrels. All loads for standard U.S. cartridges adhere to the guidelines provided by the Sporting Arms and Ammunition Manufacturers' Institute (S.A.A.M.I.).

Wad Chart

The following chart shows wads designed to perform as replacements for current popular models as listed in the ensuing data.

| | |
|---|--|
| BP/SPTG16: BP ULTRA SHORT EURO | BPG/BP, BPG/BP, BP/CS125, G/BP16, SG16 |
| FEDERAL 12C1: | CB3118-12AR |
| FEDERAL 12SO: | CB2100-12, DR XXL ORANGE, DR HFO, DR FO, MEC100S4 |
| FEDERAL 12S3: | CB2118-12, DRF3, DR HF3, MEC118T8 |
| HOR. VERSALITE: | DRV-12 |
| HOR. VERSALITE 20: | DRV-20 |
| PATTERN CONTROL RED: | PC-12-POST |
| REMINGTON TGT 12: | CB8100-12, DR RT 12, DR RHT 12 |
| REMINGTON FIG 8: | CB8118-12, DR RF8, DR HRF8, CB3118-12A, MEC118T8 |
| REMINGTON SP 20: | REMINGTON SP20S |
| WAA12R: | CB1138-12 |
| WAA12F114: | CB1114-12, DRA 12 YELLOW |

| | |
|---|---|
| WAA12: | CB1118-12, CBO118-12, WT12, BLUE DUSTER, DRA12, DR XL 1 1/8 BLUE, MEC 118T4, MEC118BIOT4 |
| REMINGTON TGT12: | DRT12, CB 8100-12 |
| WAA12SL: | CB1100-12, GREEN DUSTER, JAMMER XL-1, DR XL1 GREEN, SG-1, DRA 12 PINK, MEC100T4, MEC100BIOT4 |
| WAA12L: | CB0178-12, DR XXL PINK, MEC78T4 |
| WAA12F114: | CB1114-12, DRA-12 YELLOW |
| WAA20: | CB1078-20, YELLOW DUSTER |
| WAA28: | CB1034-28, RED DUSTER |
| WAA28HS: | CB5034-28HS |
| WAA41, WAA410HS, SP410, 410SC: | CB5050-410 HS |
| WAA16: | CB0100-16 |
| WINDJAMMER: | CB4118-12B, DR WJRPL, SG-12 |
| WINDJAMMER LIGHTNING: | CB 4100-12B |

Notes on Recoil

In physics we learned that for every force there is an equal and opposite force. In a firearm, the gases generated by burning powder push the ejecta (shot and wad) down the barrel and in turn push the shotgun in the opposite direction creating what we call recoil. According to physics, the momentum of a free recoiling firearm is equal and opposite in direction to the momentum of the ejecta and powder charge. The formula for free recoil of a firearm is:

$$\text{Recoil Energy in ft. lbs.} = \frac{(Bw \cdot Mv + 4700 \cdot Pw)^2}{64.348 \cdot Gw}$$

Where Gw = the weight of the gun in pounds

Bw = weight of the ejecta (shot and wad) in pounds

Pw = powder weight in pounds

Mv = muzzle velocity in feet per second

Example: Our shooter has an 8 lb. target gun with a load using 18.0 grs. of Clays, a wad weighing 33.0 gr., shot charge of 1 1/8 oz. and giving 1200 f/s muzzle velocity. First, we must convert the ejecta weight to lbs. (1 1/8 oz. = 492.0 gr.) Dividing grains by 7000 converts to pounds.

$Gw = 8$ lb.

$$Bw = \frac{492.0 + 33.0}{7000} = \frac{525}{7000} = .075 \text{ lb.}$$

$$Pw = \frac{18}{7000} = .003 \text{ lb.}$$

$$Mv = 1200 \text{ ft/sec}$$

Substituting the numbers in the formula we find the

$$\text{Recoil energy of the shooters load} = \frac{[(.075 \times 1200) + (4700 \times .003)]^2}{64.348 \times 8} = 21.05 \text{ ft/lbs}$$

Unfortunately, too many shooters think that pressure has an effect on recoil. In truth, it doesn't. It is not included in the formula for calculating recoil as noted in our example. However, there are factors that effect our perception of recoil. A major factor is muzzle blast. Clean burning powders help limit muzzle blast, are quieter, and therefore seem lower in recoil.

Some people think slow burning powders produce less recoil. What they are perceiving is the longer time it takes the powder to reach peak pressure, which gives the same recoil as a faster burning powder, just over a longer period of time. Others like the faster burning powders which peak quicker, although still the same recoil, just a shorter period of recoil. Perception can be everything to a shooter, so he should shoot what he "feels" is the most comfortable. That is why Hodgdon has a complete range of powders to cover all perceptions and needs.

The only real way to lessen recoil is to lower velocities, or lessen shot charge, or both.

Lee

| BUSHING # | CLAYS | INTER | UNIV | HS-6 | H110 | TITEWAD | LIL' GUN | 572/LGSH | ...E GRP | 700-X | IMR RED | IMR GRN | IMR BLUE | WST | WSF | SUPER HCP |
|--------------|-------|-------|------|------|------|---------|----------|----------|----------|-------|---------|---------|----------|------|------|-----------|
| 0.095 | 10.7 | 12.3 | 15.2 | 21.9 | 22.5 | 12.4 | 23.5 | 19.1 | 18.4 | 10.9 | 11 | 12.3 | 18 | 12.1 | 18.1 | 17.4 |
| 0.1 | 11.3 | 13 | 16 | 23 | 23.7 | 13 | 24.7 | 20.1 | 19.2 | 11.5 | 11.6 | 13 | 19 | 12.7 | 19 | 18.3 |
| 0.105 | 11.8 | 13.7 | 16.8 | 24.2 | 24.9 | 13.7 | 26 | 21.1 | 20 | 12 | 12.2 | 13.6 | 19.9 | 13.4 | 20 | 19.2 |
| 0.11 | 12.4 | 14.3 | 17.6 | 25.3 | 26.1 | 14.3 | 27.2 | 22.1 | 20.8 | 12.6 | 12.8 | 14.3 | 20.8 | 14 | 21 | 20.1 |
| 0.116 | 13 | 15.1 | 18.5 | 26.7 | 27.5 | 15.1 | 28.7 | 23.3 | 21.7 | 13.3 | 13.5 | 15.1 | 22 | 14.8 | 22.1 | 21.3 |
| 0.122 | 13.7 | 15.9 | 19.5 | 28.1 | 28.9 | 15.9 | 30.2 | 24.5 | 22.9 | 14 | 14.2 | 15.8 | 23.1 | 15.6 | 23.2 | 22.4 |
| 0.128 | 14.4 | 16.6 | 20.4 | 29.4 | 30.3 | 16.7 | 31.7 | 25.7 | 24.1 | 14.7 | 14.8 | 16.6 | 24.3 | 16.3 | 24.4 | 23.5 |
| 0.134 | 15 | 17.5 | 21.4 | 30.8 | 31.8 | 17.5 | 33.1 | 26.9 | 25.3 | 15.4 | 15.5 | 17.4 | 25.4 | 17.1 | 25.5 | 24.6 |
| 0.141 | 15.8 | 18.4 | 22.5 | 32.4 | 33.4 | 18.4 | 34.9 | 28.3 | 26.5 | 16 | 16.4 | 18.3 | 26.7 | 18.1 | 26.9 | 25.9 |
| 0.148 | 16.6 | 19.3 | 23.6 | 34 | 35.1 | 19.3 | 36.5 | 29.8 | | 16.7 | 17.2 | 19.2 | 28 | 19 | 28.2 | 27.2 |
| 0.151 | 16.7 | 19.6 | 24 | | | 19.7 | 37.2 | 30.4 | | 17.1 | | | | 19.4 | 28.8 | 27.7 |
| 0.155 | 17.3 | 20.1 | 24.7 | 35.7 | 36.7 | 20.4 | 38.2 | 31.1 | | 17.5 | 18 | 20.1 | 29.4 | 19.9 | 29.6 | 28.5 |
| 0.163 | 18.2 | 21.1 | 25.9 | 37.5 | 38.6 | 21.4 | 40.2 | 32.7 | | 18.4 | 18.9 | 21.2 | 30.9 | 21 | 31.2 | 30 |
| 0.171 | 19.1 | 22 | 27.1 | 39.3 | 40.5 | 22.5 | 42.1 | 34.2 | | 19.3 | 19.8 | 22.2 | 32.4 | 22 | 32.9 | 31.5 |
| 0.18 | 20.1 | 23.1 | 28.5 | 41.4 | 42.7 | 23.6 | 44.4 | 36.1 | | 20.4 | 20.9 | 23.4 | 34.1 | 23.2 | 34.4 | 33.2 |
| 0.189 | 21.2 | 24.1 | 29.9 | 43.5 | 44.8 | | 46.6 | 37.9 | | 21.4 | 21.9 | 24.5 | 35.8 | 24.3 | 36.2 | 34.8 |
| 0.198 | 22.1 | 25.2 | 31.3 | 45.5 | 46.9 | 26 | 48.8 | 39.7 | | 22.4 | 23 | 25.7 | 37.5 | 25.5 | 37.7 | 36.5 |

INTERNATIONAL--INTER
UNIVERSAL--UNIV
LONGSHOT--LGSH
IMR GREEN--IMR GRN
TITEGROUP--TITE GRP

Ponsness
Warren

| BUSHING # | CLAYS | INTER | UNIV | HS-6 | H110 | TITEWAD | LIL' GUN | 572/LGSH | TITE GRP | 700-X | IMR RED | IMR GRN | IMR BLUE | WST | WSF | SUPER HCP |
|--------------|-------|-------|------|------|------|---------|----------|----------|----------|-------|---------|---------|----------|------|------|-----------|
| 1AX | | | | | | | 12 | | | | | | | | | |
| 2AX | | | | | | | | 12.7 | | | | | | | | |
| 3AX | | | | | | | | 13.1 | | | | | | | | |
| 1A | | | | | | 13.7 | | | | | | | | | | |
| 2A | | | | | | 14.8 | | | | | | | | | | |
| 3A | | | | 15.3 | 15.6 | | 15 | 13 | | | | | | | | 11.8 |
| A | | | | 16.8 | 17.5 | | 17.8 | 15 | | | | | | | | 13.5 |
| B | | | | 17.6 | | 18.1 | 15.5 | 14.5 | | | | | | | | 13.8 |
| C | | | | 12.5 | 18.5 | | 19.6 | 16.5 | 15 | | | | | | | 14.8 |
| C1 | | | | 13 | 19.6 | | 20.1 | 17 | 16 | | | | | | | 15.5 |
| D | | | | 13.2 | 20.4 | | 21.4 | 17.3 | 16.3 | | | | | | | 15.7 |
| D1 | | | | 14 | 21.3 | | 22.4 | 18.2 | 17 | | | | | | | 17 |
| E | | | | 15.7 | 23.5 | | 25.2 | 20.7 | 19.4 | | | | | | | 20.1 |
| E1 | | | | 16.2 | 24 | | 26.5 | 21.6 | 20 | | 11.6 | 11.7 | 19.2 | 14.6 | 20.8 | 19.8 |
| E2 | | | | 17.2 | 26.1 | | 27 | 22.8 | 21.3 | 12.9 | 12.2 | 12.3 | 20.1 | 15.2 | 21.9 | 20.9 |
| F | | | | 18.1 | 27.5 | | 27.9 | 24.2 | 22.7 | 13.9 | 12.9 | 13.1 | 21.3 | 16.4 | 23.2 | 22.1 |
| F1 | | | | 18.3 | 28.3 | | 24.4 | 22.9 | 14 | 13.4 | 13.6 | 22.2 | 16.5 | 23.4 | 22.2 | |
| F2 | | | | | | 16.4 | | 25.3 | 23.5 | 14.6 | 13.7 | 13.8 | 22.6 | 16.9 | 24.2 | 23.1 |
| F6 | | | | 18.9 | | | | | | | | | | | | |
| G | | | | 20.2 | 31.2 | | 17.4 | 26.8 | 24.7 | 15.6 | 14.5 | 14.7 | 23.9 | 18.1 | 25.7 | 23.3 |
| G1 | | | | 20.6 | 32.7 | | 17.7 | 27.1 | | 15.9 | 14.7 | 14.9 | 24.3 | 18.5 | 26 | 24 |
| H | | | | 16 | 18.5 | 22 | 18.9 | 29 | | 17.1 | 15.7 | 15.9 | 25.9 | 19.7 | 28 | |
| I | | | | 16.7 | 19.3 | 22.8 | 34.4 | 19.6 | 30 | 17.6 | 16.5 | 16.7 | 27.2 | 20.3 | 29 | |
| J | | | | 17.2 | 19.8 | 23.9 | 35.5 | 20.3 | 31.2 | | 18.4 | 16.8 | 17 | 27.7 | 20.9 | 30.2 |
| J1 | | | | 17.6 | 20.3 | 24.5 | 36.9 | 21 | 32 | | 19.2 | 17.3 | 17.5 | 28.5 | 21.7 | 31.1 |
| K | | | | 17.8 | 20.6 | 24.8 | 37.1 | 21.3 | 32.5 | | 19.5 | 17.6 | 17.9 | 29.1 | 22 | 31.8 |
| L | | | | 18.7 | 21.6 | 25.7 | 39.5 | 22.2 | 34 | | 20.1 | 18.5 | 18.8 | 30.6 | 23.1 | |
| M | | | | 19.7 | 22.5 | 26.8 | 41.2 | 23.4 | 35.7 | | 21.5 | 19.4 | 19.6 | 31.9 | 24.6 | |
| N | | | | 20.8 | 23.7 | 28.2 | | 25.2 | 38 | | 22.9 | 20.7 | 21.1 | 34.2 | | |
| O | | | | 21 | 24 | 28.5 | | | 38.5 | | 20.9 | 21.3 | 21.4 | | | |
| P | | | | 21.5 | 24.5 | | | | 39.9 | | 21.3 | 21.8 | 22.1 | | | |
| Q | | | | 21.9 | 25 | | | | 40.1 | | 21.9 | 22.3 | 22.6 | | | |
| R | | | | | | | | | 41.8 | | 22.9 | 23.2 | 23.5 | | | |
| S | | | | | | | | | 42.5 | | | 23.6 | 23.8 | | | |
| T | | | | | | | | | 45.4 | | | 25.3 | 40.7 | | | |
| U | | | | | | | | | | 26.5 | 42.5 | | | | | |
| V | | | | | | | | | | | 43.8 | | | | | |
| W | | | | | | | | | | | 46.5 | | | | | |
| X | | | | | | | | | | | 47.2 | | | | | |
| Y | | | | | | | | | | | 49.5 | | | | | |
| Z | | | | | | | | | | | 55.7 | | | | | |

INTERNATIONAL---INTER
UNIVERSAL---UNIV
LONGSHOT---LGSH
IMR GREEN---IMR GRN
TITEGROUP---TITE GRP

Hornady/ Spolar

| GRS | CLAYS | INTER | UNIV | HS-6 | H110 | TITEWAD | LIL' GUN | 572/ LGSN | TITE GRP | 700-X | IMR RED | IMR GRN | IMR BLUE | WST | WSF | SUPER HCP |
|------|-------|-------|------|------|------|---------|----------|-----------|----------|-------|---------|---------|----------|-----|-----|-----------|
| 11 | | 333 | | | | | 266 | | | | | | | | | |
| 12 | 348 | | | | 256 | | 250 | 272 | | | 384 | 363 | | 333 | | 300 |
| 13 | 363 | 330 | | | | | 259 | | | | 393 | 378 | | 348 | | |
| 13.5 | | | | | | | 266 | 291 | | | | | | 354 | | 309 |
| 14 | 375 | 342 | | 266 | | | 272 | 300 | | | 405 | 390 | | 360 | | 318 |
| 14.7 | | | | | | | | 318 | | | | | 318 | 372 | | 321 |
| 15 | 390 | 354 | | | | | 384 | 309 | 324 | 408 | 423 | 405 | | 378 | | 324 |
| 16 | 429 | 402 | 366 | | | | 396 | 291 | 318 | 330 | 420 | 438 | 420 | 336 | 387 | 336 |
| 16.5 | 435 | 408 | 372 | | | | 402 | 300 | 327 | 336 | 423 | | 342 | 393 | 330 | 339 |
| 17 | 441 | 414 | 378 | 300 | | | 408 | 330 | 342 | 429 | 453 | 435 | | 399 | 336 | 342 |
| 17.4 | 447 | 417 | 384 | | | | 414 | 303 | 336 | 345 | 435 | | 348 | 405 | 339 | 348 |
| 18 | 456 | 423 | 390 | 309 | | | 420 | 309 | 339 | 351 | 441 | 468 | 447 | 411 | 345 | 354 |
| 18.5 | 462 | 429 | 393 | | | | 426 | | 345 | 357 | 447 | | 360 | 417 | 348 | 360 |
| 19 | 468 | 435 | 402 | 318 | | | 432 | 348 | 360 | 450 | 480 | 456 | | 423 | 354 | 363 |
| 19.4 | 474 | 438 | 405 | | | | 435 | 318 | 354 | 363 | 459 | | 366 | 426 | 357 | 369 |
| 20 | 483 | 447 | 411 | 327 | | | 441 | 357 | 369 | 465 | 489 | 468 | | 432 | 363 | 372 |
| 20.6 | 489 | 453 | 417 | | | | 450 | 330 | 363 | 375 | 468 | | 381 | 441 | 369 | 375 |
| 21 | 495 | 459 | 420 | 336 | | | 453 | 366 | 378 | 471 | 498 | 480 | | 441 | 372 | 381 |
| 21.5 | 501 | 465 | 423 | | | | 459 | 333 | 369 | 381 | 474 | | 390 | 450 | 378 | 384 |
| 22 | 507 | 471 | 429 | 345 | | | 462 | 372 | 387 | 486 | 510 | 492 | | 456 | 381 | 390 |
| 22.5 | 477 | 432 | | | | | 468 | 345 | 378 | 390 | | 396 | 459 | 387 | 396 | |
| 23 | 483 | 438 | 351 | | | | 474 | | 381 | 396 | | 519 | 501 | 408 | 465 | 390 |
| 23.5 | 489 | 441 | | | | | 351 | | 384 | 399 | | 468 | 396 | | 405 | |
| 24 | 495 | 447 | 360 | | | | 486 | 354 | 390 | 405 | | 513 | 414 | 474 | 399 | 408 |
| 24.5 | 501 | 450 | | | | | 489 | | 393 | | | 477 | | 402 | | |
| 25 | 507 | 456 | 366 | | | | 492 | 366 | 396 | | | 522 | 423 | 483 | 408 | |
| 26 | 468 | 438 | 375 | | | | | 372 | 405 | | | 534 | 435 | | 417 | |
| 27 | 480 | 381 | | | | | 381 | 414 | | | | 441 | | 423 | | |
| 28 | 489 | 387 | | | | | | 423 | | | | 447 | | 429 | | |
| 29 | 501 | 393 | | | | | | 429 | | | | 459 | | 438 | | |
| 30 | | 402 | | | | | | 435 | | | | 468 | | 444 | | |
| 31 | | 408 | | | | | | 441 | | | | 474 | | 450 | | |
| 32 | | 414 | | | | | | 450 | | | | 483 | | 456 | | |
| 33 | | 423 | | | | | | 459 | | | | 489 | | 459 | | |
| 34 | | 429 | | | | | | 465 | | | | 495 | | | | |
| 35 | | 435 | | | | | | 471 | | | | 501 | | | | |
| 36 | | 441 | | | | | | 480 | | | | 510 | | | | |
| 37 | | 444 | | | | | | 486 | | | | 516 | | | | |
| 38 | | 450 | | | | | | 492 | | | | 522 | | | | |
| 39 | | | | | | | | | | | | 531 | | | | |

INTERNATIONAL---INTER
 UNIVERSAL---UNIV
 LONGSHOT---LGSN
 IMR GREEN---IMR GRN
 TITEGROUP---TITE GRP

Mec

| BUSHING # | CLAYS | INTER | UNIV | HS-6 | H110 | TITEWAD | LIL' GUN | 572/ LGSN | TITE GRP | 700-X | IMR RED | IMR GRN | IMR BLUE | WST | WSF | SUPER HOP |
|-----------|-------|-------|------|------|------|---------|----------|-----------|----------|-------|---------|---------|----------|------|------|-----------|
| 7 | | | | | | | | | | | | | | 11 | | |
| 8 | | | | | | | | | | | | | | 12.5 | | |
| 9 | | | | | | | | | | | | | | 12.9 | | |
| 10 | | | | | | | | | | | | | | 13.4 | 11 | |
| 11 | | | | | | | | | | | | | | 14.4 | 13.8 | 11.7 |
| 12 | | | | | | | | | | | | | | 15.4 | 14.8 | 12.4 |
| 12A | | | | | | | | | | | | | | 15.5 | 16.4 | 13.2 |
| 13 | | | | | | | | | | | | | | 16.1 | 17 | 16.9 |
| 14 | | | | | | | | | | | | | | 17.9 | 18.6 | 13.8 |
| 15 | | | | | | | | | | | | | | 12 | 18.8 | 14.4 |
| 16 | | | | | | | | | | | | | | 10.8 | 12.9 | 10.4 |
| 17 | | | | | | | | | | | | | | 11.4 | 13.5 | 20.7 |
| 18 | | | | | | | | | | | | | | 21.4 | 17.8 | 16.2 |
| 19 | | | | | | | | | | | | | | 11.8 | 14 | 21.6 |
| 20 | | | | | | | | | | | | | | 22.6 | 18.7 | 17.1 |
| 21 | | | | | | | | | | | | | | 12.9 | 19.3 | 14.3 |
| 22 | | | | | | | | | | | | | | 14.3 | 20.4 | 19.3 |
| 23 | | | | | | | | | | | | | | 14.6 | 17.4 | 26.8 |
| 24 | | | | | | | | | | | | | | 15.5 | 21.1 | 21.2 |
| 25 | | | | | | | | | | | | | | 15.8 | 21.9 | 13.7 |
| 26 | | | | | | | | | | | | | | 24 | 21.9 | 13.7 |
| 27 | | | | | | | | | | | | | | 16.9 | 17.1 | 17.7 |
| 28 | | | | | | | | | | | | | | 17.7 | 26.4 | 19.5 |
| 29 | | | | | | | | | | | | | | 19 | 29 | 27.6 |
| 30 | | | | | | | | | | | | | | 16.3 | 17.8 | 18.3 |
| 31 | | | | | | | | | | | | | | 30.1 | 17.6 | 27.3 |
| 32 | | | | | | | | | | | | | | 17.8 | 20.4 | 29 |
| 33 | | | | | | | | | | | | | | 18.9 | 19.5 | 30.5 |
| 34 | | | | | | | | | | | | | | 19.8 | 21.2 | 22.6 |
| 35 | | | | | | | | | | | | | | 20.4 | 21.7 | 24.2 |
| 36 | | | | | | | | | | | | | | 20.1 | 23.4 | 27.6 |
| 37 | | | | | | | | | | | | | | 20.7 | 24.2 | 28.7 |
| 38 | | | | | | | | | | | | | | 21.4 | 25.1 | 29.7 |
| 38A | | | | | | | | | | | | | | 22 | 26 | 46.2 |
| 39 | | | | | | | | | | | | | | 22.8 | 26.9 | 47.6 |
| 39A | | | | | | | | | | | | | | 23 | 43.1 | 25.2 |
| 40 | | | | | | | | | | | | | | 44.4 | 25.9 | 27 |
| 41 | | | | | | | | | | | | | | 47.3 | | 43.4 |
| 41A | | | | | | | | | | | | | | 48.8 | | 44.7 |
| 42 | | | | | | | | | | | | | | 50.2 | | 46 |
| 42A | | | | | | | | | | | | | | 51.5 | | 47.4 |
| 43 | | | | | | | | | | | | | | 53 | | 48.7 |
| 43A | | | | | | | | | | | | | | | | 50.1 |

INTERNATIONAL---INTER
 UNIVERSAL---UNIV
 LONGSHOT---LGSN
 IMR GREEN---IMR GRN
 TITEGROUP---TITE GRP

SLOT SHELL data

| SHOT | POWDER | PRIMER | WAD | CHARGE/PRESSURE* | | | |
|--|------------|-----------|-------------|---------------------|----------------------|----------------------|----------------------|
| 12 GA., 2 3/4", FEDERAL GOLD MEDAL PLASTIC SHELLS | | | | | | | |
| | | | | 1250 fps | 1300 fps | 1350 fps | 1400 fps |
| 7/8 oz | Titewad | Fed. 209A | Fed. 12SO | 19.5 gr / 6,400 PSI | 20.5 gr / 7,500 PSI | 21.6 gr / 8,800 PSI | 22.7 gr / 9,800 PSI |
| 7/8 oz | Titewad | Win. 209 | WAA12L | 18.4 gr / 6,800 PSI | 19.3 gr / 7,400 PSI | 20.6 gr / 8,700 PSI | 21.9 gr / 9,300 PSI |
| 7/8 oz | Clays | Fed. 209A | WAA12L | 19.2 gr / 7,400 PSI | 20.0 gr / 8,000 PSI | 21.5 gr / 9,700 PSI | 22.5 gr / 11,500 PSI |
| 7/8 oz | Clays | Win. 209 | WAA12L | 19.0 gr / 7,000 PSI | 20.3 gr / 8,000 PSI | 22.0 gr / 8,800 PSI | 23.0 gr / 10,500 PSI |
| | | | | 1200 fps | 1250 fps | 1300 fps | 1350 fps |
| 7/8 oz | IMR Red | Ched. 209 | Fed. 12SO | 16.6 gr / 6,200 PSI | 17.7 gr / 7,100 PSI | 18.7 gr / 7,900 PSI | 19.8 gr / 8,800 PSI |
| 7/8 oz | IMR Red | Ched. 209 | WAA12L | 16.4 gr / 6,100 PSI | 17.5 gr / 6,900 PSI | 18.5 gr / 7,700 PSI | 19.6 gr / 8,500 PSI |
| 7/8 oz | IMR Red | Fed. 209A | Fed. 12SO | 16.2 gr / 6,900 PSI | 17.3 gr / 7,700 PSI | 18.5 gr / 8,500 PSI | 19.6 gr / 9,300 PSI |
| 7/8 oz | IMR Red | Fed. 209A | WAA12L | - | 17.3 gr / 7,500 PSI | 18.5 gr / 8,300 PSI | 19.6 gr / 9,000 PSI |
| 7/8 oz | IMR Red | Win. 209 | Fed. 12SO | 17.0 gr / 6,100 PSI | 18.1 gr / 6,900 PSI | 19.3 gr / 7,800 PSI | 20.4 gr / 8,600 PSI |
| 7/8 oz | IMR Red | Win. 209 | WAA12L | 17.0 gr / 6,000 PSI | 18.1 gr / 6,700 PSI | 19.3 gr / 7,300 PSI | 20.4 gr / 8,000 PSI |
| 7/8 oz | IMR Green | Ched. 209 | Fed. 12SO | 18.9 gr / 6,100 PSI | 20.1 gr / 6,700 PSI | 21.2 gr / 7,400 PSI | 22.4 gr / 8,000 PSI |
| 7/8 oz | IMR Green | Ched. 209 | WAA12L | 19.1 gr / 5,300 PSI | 20.3 gr / 6,000 PSI | 21.4 gr / 6,700 PSI | 22.6 gr / 7,400 PSI |
| 7/8 oz | IMR Green | Fed. 209A | Fed. 12SO | 18.4 gr / 6,300 PSI | 19.6 gr / 7,100 PSI | 20.8 gr / 7,900 PSI | 22.0 gr / 8,700 PSI |
| 7/8 oz | IMR Green | Fed. 209A | WAA12L | 18.5 gr / 6,000 PSI | 19.7 gr / 6,800 PSI | 20.8 gr / 7,500 PSI | 22.0 gr / 8,300 PSI |
| 7/8 oz | IMR Green | Win. 209 | Fed. 12SO | 19.2 gr / 5,700 PSI | 20.4 gr / 6,400 PSI | 21.5 gr / 7,200 PSI | 22.7 gr / 7,900 PSI |
| 7/8 oz | IMR Green | Win. 209 | WAA12L | 19.3 gr / 5,400 PSI | 20.5 gr / 6,100 PSI | 21.6 gr / 6,800 PSI | 22.8 gr / 7,500 PSI |
| | | | | 1250 fps | 1300 fps | 1350 fps | 1400 fps |
| 7/8 oz | Internat'l | Fed. 209A | WAA12L | 22.3 gr / 7,500 PSI | 23.2 gr / 8,300 PSI | 24.5 gr / 9,300 PSI | 25.7 gr / 10,000 PSI |
| 7/8 oz | Internat'l | Win. 209 | WAA12L | 23.5 gr / 7,500 PSI | 24.3 gr / 7,900 PSI | 25.5 gr / 9,100 PSI | 27.0 gr / 10,600 PSI |
| | | | | 1325 fps | 1400 fps | | |
| 7/8 oz | WST | Fed. 209A | WAA12L | 21.0 gr / 8,300 PSI | 23.0 gr / 9,700 PSI | | |
| 7/8 oz | WST | Win. 209 | WAA12L | 21.0 gr / 8,200 PSI | 23.0 gr / 10,300 PSI | | |
| | | | | 1150 fps | 1200 fps | 1250 fps | 1300 fps |
| 24 gm | 700-X | Fed. 209A | Fed. 12SO | 16.0 gr / 5,500 PSI | 17.0 gr / 6,200 PSI | 18.0 gr / 6,800 PSI | 19.5 gr / 7,800 PSI |
| 24 gm | 700-X | Fed. 209A | WAA12SL | 15.5 gr / 5,300 PSI | 16.5 gr / 5,900 PSI | 17.5 gr / 6,600 PSI | 19.0 gr / 7,800 PSI |
| 24 gm | 700-X | Rem. 209P | WAA12SL | 16.0 gr / 4,700 PSI | 17.0 gr / 5,400 PSI | 18.0 gr / 5,900 PSI | 20.5 gr / 6,600 PSI |
| 24 gm | 700-X | Win. 209 | Fed. 12SO | 15.5 gr / 5,400 PSI | 16.5 gr / 6,100 PSI | 17.5 gr / 6,700 PSI | 19.5 gr / 7,800 PSI |
| 24 gm | 700-X | Win. 209 | WAA12SL | 15.5 gr / 5,100 PSI | 16.5 gr / 5,700 PSI | 17.5 gr / 6,400 PSI | 19.0 gr / 7,500 PSI |
| | | | | 1180 fps | 1235 fps | 1290 fps | 1345 fps |
| 1 oz | Titewad | Fed. 209A | Fed. 12SO | 17.8 gr / 7,100 PSI | 19.3 gr / 8,500 PSI | 20.8 gr / 9,600 PSI | 21.7 gr / 11,300 PSI |
| 1 oz | Titewad | Fed. 209A | Rem. TGT 12 | 17.0 gr / 7,500 PSI | 18.4 gr / 8,700 PSI | 19.7 gr / 9,800 PSI | 21.0 gr / 11,000 PSI |
| 1 oz | Titewad | Win. 209 | Fed. 12SO | 18.0 gr / 7,100 PSI | 19.1 gr / 8,600 PSI | 20.3 gr / 10,300 PSI | 22.0 gr / 11,300 PSI |
| 1 oz | Titewad | Win. 209 | WAA12L | 17.4 gr / 7,500 PSI | 18.7 gr / 8,400 PSI | 20.2 gr / 9,700 PSI | 21.7 gr / 11,300 PSI |
| | | | | 1125 fps | 1180 fps | 1235 fps | 1290 fps |
| 1 oz | Clays | Fed. 209A | Fed. 12SO | 16.8 gr / 6,700 PSI | 17.9 gr / 7,700 PSI | 19.3 gr / 9,200 PSI | 20.3 gr / 10,800 PSI |
| 1 oz | Clays | Rem. 209P | Rem. TGT 12 | 18.2 gr / 5,900 LUP | 19.2 gr / 6,300 LUP | 20.2 gr / 6,800 LUP | 21.2 gr / 7,300 LUP |
| 1 oz | Clays | Win. 209 | WAA12SL | 17.2 gr / 6,200 LUP | 18.2 gr / 7,000 LUP | 19.1 gr / 7,600 LUP | 20.0 gr / 8,300 LUP |

* Velocity is measured in feet per second (fps).
Pressure is measured in Pounds per Square Inch (PSI).

| SHOT | POWDER | PRIMER | WAD | CHARGE/PRESSURE* | | | |
|--|------------|-----------|-------------|---------------------|---------------------|----------------------|----------------------|
| 12 GA., 2 3/4", FEDERAL GOLD MEDAL PLASTIC SHELLS (CONT.) | | | | | | | |
| | | | | 1180 fps | 1235 fps | 1290 fps | 1345 fps |
| 1 oz. | IMR Red | Ched. 209 | CB 6100-12 | 16.7 gr / 6,800 PSI | 18.1 gr / 7,700 PSI | 19.4 gr / 8,700 PSI | 20.8 gr / 9,600 PSI |
| 1 oz. | IMR Red | Ched. 209 | DRA 12 PINK | 16.3 gr / 7,300 PSI | 17.7 gr / 8,400 PSI | 19.0 gr / 9,500 PSI | 20.4 gr / 10,600 PSI |
| 1 oz. | IMR Red | Ched. 209 | Rem. TGT 12 | 16.4 gr / 7,200 PSI | 17.8 gr / 8,200 PSI | 19.1 gr / 9,200 PSI | 20.5 gr / 10,200 PSI |
| 1 oz. | IMR Red | Fed. 209A | CB 6100-12 | 16.3 gr / 7,200 PSI | 17.7 gr / 8,200 PSI | 19.0 gr / 9,300 PSI | 20.4 gr / 10,300 PSI |
| 1 oz. | IMR Red | Fed. 209A | DRA 12 PINK | 15.9 gr / 8,000 PSI | 17.3 gr / 9,100 PSI | 18.7 gr / 10,300 PSI | 20.1 gr / 11,400 PSI |
| 1 oz. | IMR Red | Fed. 209A | Rem. TGT 12 | 16.0 gr / 7,500 PSI | 17.4 gr / 8,500 PSI | 18.8 gr / 9,600 PSI | 20.2 gr / 10,600 PSI |
| 1 oz. | IMR Red | Win. 209 | CB 6100-12 | 16.9 gr / 6,200 PSI | 18.2 gr / 7,300 PSI | 19.6 gr / 8,500 PSI | 20.9 gr / 9,600 PSI |
| 1 oz. | IMR Red | Win. 209 | DRA 12 PINK | 16.6 gr / 7,500 PSI | 17.9 gr / 8,600 PSI | 19.3 gr / 9,700 PSI | 20.6 gr / 10,800 PSI |
| 1 oz. | IMR Red | Win. 209 | Rem. TGT 12 | 16.6 gr / 7,100 PSI | 17.9 gr / 8,100 PSI | 19.3 gr / 9,100 PSI | 20.6 gr / 10,100 PSI |
| | | | | 1235 fps | 1290 fps | 1345 fps | 1400 fps |
| 1 oz. | Internat'l | Fed. 209A | Fed. 12SO | 19.9 gr / 8,300 PSI | 21.3 gr / 9,900 PSI | 22.5 gr / 11,200 PSI | - |
| 1 oz. | Internat'l | Rem. 209P | Rem. TGT 12 | 20.8 gr / 7,200 PSI | 21.2 gr / 7,500 PSI | 23.3 gr / 9,400 PSI | 24.5 gr / 10,400 PSI |
| 1 oz. | Internat'l | Win. 209P | WAA12SL | 20.5 gr / 7,200 PSI | 22.0 gr / 8,400 PSI | 23.4 gr / 9,400 PSI | 24.7 gr / 10,400 PSI |
| | | | | 1180 fps | 1235 fps | 1290 fps | 1345 fps |
| 1 oz. | IMR Green | Ched. 209 | CB 6100-12 | 19.3 gr / 6,000 PSI | 20.7 gr / 7,000 PSI | 22.2 gr / 8,000 PSI | 23.6 gr / 9,000 PSI |
| 1 oz. | IMR Green | Ched. 209 | DRA 12 PINK | 18.9 gr / 6,500 PSI | 20.4 gr / 7,500 PSI | 21.9 gr / 8,400 PSI | 23.4 gr / 9,400 PSI |
| 1 oz. | IMR Green | Ched. 209 | Rem. TGT 12 | 18.7 gr / 6,600 PSI | 20.1 gr / 7,600 PSI | 21.6 gr / 8,700 PSI | 23.0 gr / 9,700 PSI |
| 1 oz. | IMR Green | Fed. 209A | CB 6100-12 | 18.3 gr / 6,500 PSI | 19.7 gr / 7,500 PSI | 21.2 gr / 8,600 PSI | 22.6 gr / 9,600 PSI |
| 1 oz. | IMR Green | Fed. 209A | DRA 12 PINK | 18.0 gr / 7,200 PSI | 19.4 gr / 8,400 PSI | 20.9 gr / 9,500 PSI | 22.3 gr / 10,700 PSI |
| 1 oz. | IMR Green | Fed. 209A | Rem. TGT 12 | 18.0 gr / 6,900 PSI | 19.4 gr / 7,900 PSI | 20.9 gr / 9,000 PSI | 22.3 gr / 10,000 PSI |
| 1 oz. | IMR Green | Win. 209 | CB 6100-12 | 19.9 gr / 5,500 PSI | 21.1 gr / 6,600 PSI | 22.4 gr / 7,800 PSI | 23.6 gr / 8,900 PSI |
| 1 oz. | IMR Green | Win. 209 | DRA 12 PINK | 19.3 gr / 6,300 PSI | 20.8 gr / 7,300 PSI | 22.2 gr / 8,300 PSI | 23.7 gr / 9,300 PSI |
| 1 oz. | IMR Green | Win. 209 | Rem. TGT 12 | 19.2 gr / 6,300 PSI | 20.5 gr / 7,300 PSI | 21.8 gr / 8,200 PSI | 23.1 gr / 9,200 PSI |
| | | | | 1100 fps | 1150 fps | 1200 fps | 1250 fps |
| 1 oz. | 700-X | Fed. 209A | Fed. 12SO | 15.0 gr / 6,100 PSI | 16.0 gr / 6,700 PSI | 17.0 gr / 7,300 PSI | 18.5 gr / 8,200 PSI |
| 1 oz. | 700-X | Rem. 209P | Fed. 12SO | 15.0 gr / 5,700 PSI | 16.0 gr / 6,300 PSI | 18.0 gr / 7,300 PSI | 19.5 gr / 8,000 PSI |
| 1 oz. | 700-X | Rem. 209P | Rem. TGT 12 | 16.0 gr / 5,700 PSI | 17.0 gr / 6,200 PSI | 18.0 gr / 6,600 PSI | 19.5 gr / 7,300 PSI |
| 1 oz. | 700-X | Rem. 209P | WAA12SL | 15.5 gr / 5,800 PSI | 16.5 gr / 6,600 PSI | 17.5 gr / 7,300 PSI | 19.0 gr / 8,400 PSI |
| 1 oz. | 700-X | Win. 209 | Fed. 12SO | 15.5 gr / 5,900 PSI | 16.5 gr / 6,700 PSI | 17.5 gr / 7,300 PSI | 18.5 gr / 7,800 PSI |
| 1 oz. | 700-X | Win. 209 | Rem. TGT 12 | 15.5 gr / 5,900 PSI | 16.5 gr / 6,600 PSI | 17.5 gr / 7,200 PSI | 18.5 gr / 7,800 PSI |
| 1 oz. | 700-X | Win. 209 | WAA12SL | 15.5 gr / 6,000 PSI | 16.5 gr / 6,700 PSI | 17.5 gr / 7,600 PSI | 18.5 gr / 8,500 PSI |
| | | | | 1180 fps | 1235 fps | 1290 fps | |
| 1 oz. | WST | CCI 209 | Fed. 12SO | - | 21.0 gr / 8,500 PSI | 22.5 gr / 9,500 PSI | |
| 1 oz. | WST | Win. 209 | Fed. 12SO | 20.5 gr / 7,400 PSI | 22.0 gr / 8,500 PSI | 23.0 gr / 9,300 PSI | |
| | | | | 1180 fps | 1235 fps | 1290 fps | 1345 fps |
| 1 oz. | Super Hcp | Ched. 209 | WAA12L | 19.6 gr / 5,500 PSI | 20.8 gr / 6,500 PSI | 22.0 gr / 7,500 PSI | 23.3 gr / 8,500 PSI |
| 1 oz. | Super Hcp | Fed. 209A | WAA12L | 19.5 gr / 5,700 PSI | 20.9 gr / 6,600 PSI | 22.3 gr / 7,500 PSI | 23.8 gr / 8,600 PSI |
| 1 oz. | Super Hcp | Win. 209 | WAA12L | 20.6 gr / 4,800 PSI | 21.7 gr / 5,900 PSI | 22.8 gr / 7,000 PSI | 23.9 gr / 8,100 PSI |

SHELL data

| SHOT | POWDER | PRIMER | WAD | CHARGE/PRESSURE* | | | |
|--|------------|-----------|-------------|---|---------------------|----------------------|----------------------|
| 12 GA., 2 3/4", FEDERAL GOLD MEDAL PLASTIC SHELLS (CONT.) | | | | | | | |
| | | | | 1090 fps 1145 fps 1200 fps 1255 fps | | | |
| 1 1/8 oz | Titewad | Fed. 209A | Fed. 12S3 | 16.3 gr / 8,300 PSI | 17.3 gr / 8,900 PSI | 18.8 gr / 10,300 PSI | - |
| 1 1/8 oz | Titewad | Fed. 209A | Rem. Fig. 8 | 15.8 gr / 8,000 PSI | 16.9 gr / 9,600 PSI | 18.1 gr / 11,300 PSI | - |
| 1 1/8 oz | Titewad | Fed. 209A | WAA12 | 15.4 gr / 8,200 PSI | 16.8 gr / 9,800 PSI | 18.0 gr / 11,100 PSI | - |
| 1 1/8 oz | Titewad | Rem. 209P | Rem. Fig. 8 | 16.0 gr / 7,500 PSI | 17.0 gr / 8,600 PSI | 18.0 gr / 9,500 PSI | - |
| 1 1/8 oz | Titewad | Win. 209 | WAA12SL | 16.5 gr / 7,900 PSI | 17.5 gr / 9,100 PSI | 18.2 gr / 9,800 PSI | - |
| 1 1/8 oz | Clays | Fed. 209A | Fed. 12S3 | 16.8 gr / 7,900 PSI | 17.1 gr / 8,600 PSI | 19.0 gr / 10,400 PSI | - |
| 1 1/8 oz | Clays | Fed. 209A | Rem. Fig. 8 | 17.0 gr / 7,400 PSI | 17.5 gr / 7,900 PSI | 19.0 gr / 9,600 PSI | - |
| | | | | 1090 fps 1145 fps 1200 fps 1255 fps | | | |
| 1 1/8 oz | Clays | Fed. 209A | WAA12 | 16.5 gr / 7,700 PSI | 17.0 gr / 8,100 PSI | 18.5 gr / 10,300 PSI | - |
| 1 1/8 oz | Clays | Rem. 209P | Rem. Fig. 8 | 16.6 gr / 7,200 PSI | 17.8 gr / 8,600 PSI | 18.9 gr / 9,900 PSI | 20.1 gr / 11,300 PSI |
| | | | | 1090 fps 1145 fps 1200 fps 1255 fps | | | |
| 1 1/8 oz | IMR Red | Ched. 209 | CB 4118-12B | 15.3 gr / 6,900 PSI | 16.7 gr / 7,900 PSI | 18.1 gr / 8,900 PSI | 19.3 gr / 9,800 PSI |
| 1 1/8 oz | IMR Red | Ched. 209 | DRV-12 | 15.4 gr / 7,100 PSI | 16.8 gr / 8,300 PSI | 18.1 gr / 9,400 PSI | 19.4 gr / 10,500 PSI |
| 1 1/8 oz | IMR Red | Ched. 209 | Fed. 12S3 | 15.6 gr / 7,500 PSI | 17.0 gr / 8,500 PSI | 18.4 gr / 9,600 PSI | 19.6 gr / 10,500 PSI |
| 1 1/8 oz | IMR Red | Ched. 209 | Rem. FIG. 8 | 15.4 gr / 7,500 PSI | 16.8 gr / 8,500 PSI | 18.1 gr / 9,600 PSI | 19.4 gr / 10,500 PSI |
| 1 1/8 oz | IMR Red | Fed. 209A | CB 4118-12B | 15.2 gr / 7,100 PSI | 16.6 gr / 8,200 PSI | 17.9 gr / 9,400 PSI | 19.2 gr / 10,400 PSI |
| 1 1/8 oz | IMR Red | Fed. 209A | DRV-12 | 15.0 gr / 8,000 PSI | 16.4 gr / 9,200 PSI | 17.8 gr / 10,300 PSI | 19.0 gr / 11,400 PSI |
| 1 1/8 oz | IMR Red | Fed. 209A | Fed. 12S3 | 15.3 gr / 7,500 PSI | 16.7 gr / 8,700 PSI | 18.1 gr / 10,000 PSI | 19.3 gr / 11,100 PSI |
| 1 1/8 oz | IMR Red | Fed. 209A | Rem. FIG. 8 | 15.2 gr / 7,700 PSI | 16.6 gr / 8,800 PSI | 17.9 gr / 9,900 PSI | 19.2 gr / 10,900 PSI |
| | | | | 1090 fps 1145 fps 1200 fps 1255 fps | | | |
| 1 1/8 oz | IMR Red | Win. 209 | CB 4118-12B | 15.3 gr / 6,800 PSI | 16.7 gr / 7,900 PSI | 18.1 gr / 8,900 PSI | 19.3 gr / 9,900 PSI |
| 1 1/8 oz | IMR Red | Win. 209 | DRV-12 | 15.1 gr / 7,300 PSI | 16.5 gr / 8,400 PSI | 17.9 gr / 9,600 PSI | 19.1 gr / 10,600 PSI |
| 1 1/8 oz | IMR Red | Win. 209 | Fed. 12S3 | 15.5 gr / 7,600 PSI | 16.9 gr / 8,700 PSI | 18.2 gr / 9,700 PSI | 19.5 gr / 10,700 PSI |
| 1 1/8 oz | IMR Red | Win. 209 | Rem. FIG. 8 | 15.3 gr / 7,200 PSI | 16.7 gr / 8,400 PSI | 18.1 gr / 9,500 PSI | 19.3 gr / 10,600 PSI |
| | | | | 1090 fps 1145 fps 1200 fps 1255 fps | | | |
| 1 1/8 oz | Internal'l | Fed. 209A | Fed. 12S3 | 18.5 gr / 7,000 PSI | 19.0 gr / 7,200 PSI | 20.5 gr / 8,800 PSI | 22.2 gr / 10,600 PSI |
| 1 1/8 oz | Internal'l | Fed. 209A | WAA12 | - | 18.4 gr / 8,200 PSI | 19.6 gr / 9,500 PSI | 20.7 gr / 10,700 PSI |
| 1 1/8 oz | Internal'l | Win. 209 | WAA12SL | 19.1 gr / 6,600 LUP | 20.1 gr / 7,100 LUP | 21.0 gr / 7,500 LUP | 22.4 gr / 8,900 LUP |
| | | | | 1090 fps 1145 fps 1200 fps 1255 fps | | | |
| 1 1/8 oz | IMR Green | Ched. 209 | CB 4118-12B | 17.8 gr / 6,300 PSI | 19.1 gr / 7,300 PSI | 20.5 gr / 8,200 PSI | 21.7 gr / 9,100 PSI |
| 1 1/8 oz | IMR Green | Ched. 209 | DRV-12 | 17.5 gr / 6,300 PSI | 18.9 gr / 7,400 PSI | 20.3 gr / 8,600 PSI | 21.6 gr / 9,600 PSI |
| 1 1/8 oz | IMR Green | Ched. 209 | Fed. 12S3 | 17.5 gr / 6,800 PSI | 19.0 gr / 7,800 PSI | 20.5 gr / 8,700 PSI | 21.8 gr / 9,600 PSI |
| 1 1/8 oz | IMR Green | Ched. 209 | Rem. FIG. 8 | 17.4 gr / 7,000 PSI | 18.8 gr / 8,000 PSI | 20.2 gr / 8,900 PSI | 21.5 gr / 9,800 PSI |
| 1 1/8 oz | IMR Green | Fed. 209A | CB 4118-12B | 16.9 gr / 6,800 PSI | 18.3 gr / 7,800 PSI | 19.7 gr / 8,900 PSI | 21.0 gr / 9,800 PSI |
| 1 1/8 oz | IMR Green | Fed. 209A | DRV-12 | 16.8 gr / 7,200 PSI | 18.3 gr / 8,200 PSI | 19.8 gr / 9,300 PSI | 21.1 gr / 10,200 PSI |
| 1 1/8 oz | IMR Green | Fed. 209A | Fed. 12S3 | 16.9 gr / 7,400 PSI | 18.4 gr / 8,300 PSI | 19.9 gr / 9,200 PSI | 21.3 gr / 10,000 PSI |
| 1 1/8 oz | IMR Green | Fed. 209A | Rem. FIG. 8 | 16.8 gr / 7,400 PSI | 18.2 gr / 8,300 PSI | 19.6 gr / 9,200 PSI | 20.9 gr / 10,000 PSI |
| 1 1/8 oz | IMR Green | Rem. 209P | CB 4118-12B | 17.4 gr / 6,100 PSI | 18.8 gr / 7,000 PSI | 20.2 gr / 8,000 PSI | 21.5 gr / 8,800 PSI |
| 1 1/8 oz | IMR Green | Win. 209 | CB 4118-12B | 17.1 gr / 6,300 PSI | 18.5 gr / 7,300 PSI | 19.9 gr / 8,400 PSI | 21.1 gr / 9,300 PSI |

* Velocity is measured in feet per second (fps).
Pressure is measured in Pounds per Square Inch (PSI).

| SHOT | POWDER | PRIMER | WAD | CHARGE/PRESSURE* | | | |
|--|-----------|-----------|-------------|---|----------------------|----------------------|----------------------|
| 12 GA., 2 3/4", FEDERAL GOLD MEDAL PLASTIC SHELLS (CONT.) | | | | | | | |
| | | | | 1090 fps 1145 fps 1200 fps 1255 fps | | | |
| 1 1/8 oz | IMR Green | Win. 209 | DRV-12 | 17.4 gr / 6,600 PSI | 18.8 gr / 7,500 PSI | 20.1 gr / 8,400 PSI | 21.4 gr / 9,200 PSI |
| 1 1/8 oz | IMR Green | Win. 209 | Fed. 12S3 | 17.5 gr / 6,800 PSI | 18.9 gr / 7,600 PSI | 20.3 gr / 8,400 PSI | 21.6 gr / 9,200 PSI |
| 1 1/8 oz | IMR Green | Win. 209 | Rem. FIG. 8 | 17.4 gr / 6,600 PSI | 18.8 gr / 7,700 PSI | 20.1 gr / 8,700 PSI | 21.4 gr / 9,700 PSI |
| | | | | 1200 fps 1255 fps 1310 fps | | | |
| 1 1/8 oz | Universal | Fed. 209A | Fed. 12S3 | 23.0 gr / 8,700 PSI | 24.4 gr / 9,600 PSI | 25.7 gr / 10,500 PSI | |
| 1 1/8 oz | Universal | Win. 209 | Rem. FIG. 8 | 24.0 gr / 8,000 PSI | 25.0 gr / 8,700 PSI | 26.8 gr / 9,500 PSI | |
| 1 1/8 oz | Universal | Win. 209 | WAA12 | 23.2 gr / 8,800 PSI | 24.5 gr / 9,700 PSI | 25.0 gr / 10,400 PSI | |
| | | | | 1420 fps 1475 fps 1530 fps 1585 fps | | | |
| 1 1/8 oz | Longshot | Fed. 209A | Fed. 12S3 | 32.0 gr / 9,000 PSI | 33.3 gr / 10,000 PSI | 34.6 gr / 11,500 PSI | - |
| 1 1/8 oz | Longshot | Fed. 209A | Rem. FIG. 8 | 32.2 gr / 8,600 PSI | 33.6 gr / 9,500 PSI | 35.0 gr / 10,500 PSI | 36.4 gr / 11,400 PSI |
| 1 1/8 oz | Longshot | Fed. 209A | WAA12 | 31.7 gr / 8,900 PSI | 33.1 gr / 9,700 PSI | 34.6 gr / 10,700 PSI | 36.0 gr / 11,500 PSI |
| 1 1/8 oz | Longshot | Win. 209 | Fed. 12S3 | 34.2 gr / 7,100 PSI | 35.5 gr / 8,200 PSI | 36.8 gr / 9,400 PSI | 38.1 gr / 10,600 PSI |
| 1 1/8 oz | Longshot | Win. 209 | Rem. FIG. 8 | 34.9 gr / 7,100 PSI | 36.0 gr / 8,100 PSI | 37.1 gr / 9,100 PSI | 38.2 gr / 10,000 PSI |
| 1 1/8 oz | Longshot | Win. 209 | WAA12 | 34.0 gr / 7,600 PSI | 35.2 gr / 8,500 PSI | 36.4 gr / 9,400 PSI | 37.8 gr / 10,400 PSI |
| | | | | 1100 fps 1150 fps 1200 fps 1250 fps | | | |
| 1 1/8 oz | 700-X | Fed. 209A | Fed. 12S3 | 16.0 gr / 7,900 PSI | 17.0 gr / 8,600 PSI | 18.5 gr / 9,500 PSI | 20.0 gr / 10,400 PSI |
| 1 1/8 oz | 700-X | Rem. 209P | Fed. 12S3 | 16.0 gr / 7,500 PSI | 17.5 gr / 8,300 PSI | 18.5 gr / 8,900 PSI | 20.0 gr / 9,800 PSI |
| 1 1/8 oz | 700-X | Win. 209 | Fed. 12S3 | 16.0 gr / 7,800 PSI | 17.0 gr / 8,500 PSI | 18.0 gr / 9,400 PSI | 19.5 gr / 10,700 PSI |
| 1 1/8 oz | 700-X | Win. 209 | Rem. TGT12 | 16.0 gr / 6,800 PSI | 17.0 gr / 7,500 PSI | 18.5 gr / 8,600 PSI | 20.0 gr / 9,600 PSI |
| | | | | 1145 fps 1200 fps 1255 fps 1310 fps | | | |
| 1 1/8 oz | WST | CCI 209 | Fed. 12S3 | 19.5 gr / 8,500 PSI | 21.0 gr / 10,300 PSI | - | - |
| 1 1/8 oz | WST | Win. 209 | Fed. 12S3 | - | 21.0 gr / 9,500 PSI | - | - |
| 1 1/8 oz | Super Hcp | Fed. 209A | Fed. 12SO | 18.8 gr / 6,600 PSI | 20.5 gr / 7,800 PSI | 21.3 gr / 8,400 PSI | 23.9 gr / 10,400 PSI |
| 1 1/8 oz | Super Hcp | Fed. 209A | J-XL-1 | - | 20.7 gr / 7,500 PSI | 22.3 gr / 8,600 PSI | 24.0 gr / 9,800 PSI |
| 1 1/8 oz | Super Hcp | Rem. 209P | Fed. 12SO | 19.9 gr / 6,100 PSI | 21.3 gr / 7,700 PSI | 22.7 gr / 9,000 PSI | 24.1 gr / 10,400 PSI |
| 1 1/8 oz | Super Hcp | Rem. 209P | J-XL-1 | - | 21.6 gr / 7,000 PSI | 22.8 gr / 8,200 PSI | 24.2 gr / 9,500 PSI |
| 1 1/8 oz | Super Hcp | Rem. 209P | Rem. TGT12 | - | 21.2 gr / 6,900 PSI | 22.7 gr / 8,200 PSI | 24.1 gr / 9,500 PSI |
| 1 1/8 oz | Super Hcp | Win. 209 | Fed. 12SO | 20.5 gr / 5,700 PSI | 21.9 gr / 7,200 PSI | 23.3 gr / 8,700 PSI | 24.6 gr / 10,100 PSI |
| 1 1/8 oz | Super Hcp | Win. 209 | Rem. TGT12 | - | 21.6 gr / 7,100 PSI | 23.0 gr / 8,100 PSI | 24.5 gr / 9,400 PSI |
| | | | | 1200 fps 1220 fps 1225 fps 1330 fps | | | |
| 1 1/4 oz | Universal | CCI 209 | Fed. 12S4 | - | 25.0 gr / 10,100 PSI | - | - |
| 1 1/4 oz | Universal | Fed. 209A | Fed. 12S4 | - | 23.3 gr / 10,400 PSI | - | - |
| 1 1/4 oz | Universal | Win. 209 | WAA12 F114 | - | 24.5 gr / 10,300 PSI | - | - |
| | | | | 1330 fps 1385 fps 1440 fps 1495 fps | | | |
| 1 1/4 oz | Longshot | Fed. 209A | Fed. 12S4 | 28.4 gr / 9,800 PSI | 30.2 gr / 10,800 PSI | - | - |
| 1 1/4 oz | Longshot | Fed. 209A | Rem. R12L | 29.2 gr / 9,400 PSI | 30.7 gr / 10,400 PSI | 32.1 gr / 11,400 PSI | - |
| 1 1/4 oz | Longshot | Win. 209 | Fed. 12S4 | 29.7 gr / 8,000 PSI | 31.3 gr / 9,300 PSI | 32.9 gr / 10,600 PSI | - |
| 1 1/4 oz | Longshot | Win. 209 | Rem. R12L | 30.7 gr / 7,700 PSI | 32.2 gr / 8,700 PSI | 33.6 gr / 9,700 PSI | 35.0 gr / 10,800 PSI |

SHOT SHELL DATA

| SHOT | POWDER | PRIMER | WAD | CHARGE/PRESSURE* | | | |
|---|-----------|-----------|----------------|---------------------|----------------------|----------------------|----------------------|
| 12 GA., 2 3/4", REMINGTON STS, OR NITRO 27, OR GUN CLUB PLASTIC SHELLS (CONT.) | | | | | | | |
| | | | | 1180 fps | 1235 fps | 1290 fps | 1345 fps |
| 1 oz | Internal | Rem. 209P | WAA12SL | 19.0 gr / 6,800 PSI | 20.2 gr / 8,100 PSI | 21.3 gr / 9,300 PSI | 22.4 gr / 10,500 PSI |
| 1 oz | Internal | Win. 209 | Rem. TGT 12 | 18.9 gr / 7,100 PSI | 20.2 gr / 8,200 PSI | 21.5 gr / 9,300 PSI | 22.8 gr / 10,300 PSI |
| 1 oz | Internal | Win. 209 | WAA12SL | 18.4 gr / 7,100 LUP | 20.1 gr / 8,600 LUP | 21.0 gr / 10,000 LUP | - |
| 1 oz | Titegroup | Rem. 209P | Rem. TGT 12 | 16.1 gr / 7,900 PSI | 17.3 gr / 8,900 PSI | 18.6 gr / 10,100 PSI | 19.9 gr / 11,200 PSI |
| 1 oz | Titegroup | Rem. 209P | WAA12SL | 16.4 gr / 7,700 PSI | 17.6 gr / 9,100 PSI | 18.8 gr / 10,400 PSI | - |
| 1 oz | Titegroup | Win. 209 | Rem. TGT 12 | 16.0 gr / 7,700 PSI | 17.5 gr / 8,900 PSI | 18.9 gr / 10,000 PSI | 20.3 gr / 11,000 PSI |
| 1 oz | Titegroup | Win. 209 | WAA12SL | 16.3 gr / 8,100 PSI | 17.6 gr / 9,100 PSI | 18.9 gr / 10,200 PSI | 20.5 gr / 11,300 PSI |
| | | | | 1150 fps | 1200 fps | 1250 fps | 1300 fps |
| 1 oz | IMR Green | Ched. 209 | Rem. TGT 12 | 16.8 gr / 7,100 PSI | 18.1 gr / 8,000 PSI | 19.5 gr / 9,000 PSI | 20.8 gr / 9,900 PSI |
| 1 oz | IMR Green | Ched. 209 | WAA12SL | 16.9 gr / 7,100 PSI | 18.2 gr / 8,000 PSI | 19.5 gr / 8,900 PSI | 20.8 gr / 9,800 PSI |
| 1 oz | IMR Green | Win. 209 | Rem. TGT 12 | 17.1 gr / 6,600 PSI | 18.4 gr / 7,400 PSI | 19.8 gr / 8,300 PSI | 21.1 gr / 9,100 PSI |
| 1 oz | IMR Green | Win. 209 | WAA12SL | 17.0 gr / 6,700 PSI | 18.3 gr / 7,600 PSI | 19.7 gr / 8,600 PSI | 21.0 gr / 9,500 PSI |
| | | | | 1100 fps | 1150 fps | 1200 fps | 1250 fps |
| 1 oz | 700-X | Rem. 209P | Rem. TGT 12 | 14.5 gr / 6,600 PSI | 15.5 gr / 7,500 PSI | 16.5 gr / 8,400 PSI | 18.0 gr / 9,500 PSI |
| 1 oz | 700-X | Rem. 209P | WAA12SL | 14.5 gr / 7,300 PSI | 15.5 gr / 8,100 PSI | 16.5 gr / 9,000 PSI | 18.0 gr / 10,500 PSI |
| 1 oz | 700-X | Win. 209 | Rem. TGT 12 | 15.0 gr / 7,300 PSI | 15.5 gr / 7,700 PSI | 16.5 gr / 8,700 PSI | 18.0 gr / 9,800 PSI |
| 1 oz | 700-X | Win. 209 | WAA12SL | 15.0 gr / 7,400 PSI | 16.0 gr / 8,300 PSI | 17.0 gr / 9,300 PSI | 18.0 gr / 10,300 PSI |
| | | | | 1180 fps | 1235 fps | 1290 fps | |
| 1 oz | WST | Win. 209 | Fed. 12SO | 19.0 gr / 8,200 PSI | 20.0 gr / 8,900 PSI | 21.0 gr / 9,700 PSI | |
| 1 oz | WST | Win. 209 | WAA12SL | - | 19.5 gr / 8,000 PSI | 21.0 gr / 10,000 PSI | |
| | | | | 1180 fps | 1235 fps | 1290 fps | 1345 fps |
| 1 oz | Super Hcp | Rem. 209P | J-XL-1 | 18.4 gr / 6,700 PSI | 19.5 gr / 7,600 PSI | 20.8 gr / 8,600 PSI | 22.3 gr / 9,900 PSI |
| 1 oz | Super Hcp | Rem. 209P | Rem. TGT 12 | 18.7 gr / 6,500 PSI | 19.9 gr / 7,500 PSI | 21.0 gr / 8,400 PSI | 22.6 gr / 9,700 PSI |
| 1 oz | Super Hcp | Rem. 209P | WAA12SL | 18.7 gr / 6,200 PSI | 20.0 gr / 7,400 PSI | 21.2 gr / 8,500 PSI | 22.5 gr / 9,700 PSI |
| 1 oz | Super Hcp | Win. 209 | J-XL-1 | 19.0 gr / 6,200 PSI | 20.3 gr / 7,500 PSI | 21.5 gr / 8,700 PSI | 22.8 gr / 10,000 PSI |
| 1 oz | Super Hcp | Win. 209 | Rem. TGT 12 | 20.0 gr / 6,400 PSI | 20.7 gr / 7,300 PSI | 21.7 gr / 8,500 PSI | 22.9 gr / 9,900 PSI |
| 1 oz | Super Hcp | Win. 209 | WAA12SL | 19.2 gr / 6,100 PSI | 20.5 gr / 7,400 PSI | 21.7 gr / 8,600 PSI | 23.0 gr / 9,900 PSI |
| | | | | 1090 fps | 1145 fps | 1200 fps | |
| 1 1/8 oz | Titewad | Fed. 209A | Rem. Fig. 8 | 15.2 gr / 9,600 PSI | 16.3 gr / 10,700 PSI | - | |
| 1 1/8 oz | Titewad | Fed. 209A | WAA12 | 15.2 gr / 9,800 PSI | 16.0 gr / 10,500 PSI | - | |
| 1 1/8 oz | Titewad | Rem. 209P | Rem. Fig. 8 | 15.2 gr / 9,100 PSI | 16.5 gr / 10,100 PSI | 17.9 gr / 10,900 PSI | |
| 1 1/8 oz | Titewad | Rem. 209P | WAA12 | 15.1 gr / 9,700 PSI | 16.1 gr / 10,900 PSI | - | |
| 1 1/8 oz | Titewad | Win. 209 | Rem. Fig. 8 | 15.8 gr / 9,200 PSI | 16.8 gr / 10,400 PSI | 17.8 gr / 11,300 PSI | |
| 1 1/8 oz | Titewad | Win. 209 | WAA12 | 15.4 gr / 8,700 PSI | 16.7 gr / 10,000 PSI | 17.9 gr / 11,400 PSI | |
| 1 1/8 oz | Clays | Rem. 209P | Rem. Fig. 8 | 16.9 gr / 6,900 LUP | 18.0 gr / 7,900 LUP | 19.2 gr / 9,000 LUP | |
| 1 1/8 oz | Clays | Rem. 209P | WAA12 | 16.6 gr / 7,700 LUP | 17.7 gr / 9,000 LUP | 18.8 gr / 10,300 LUP | |
| 1 1/8 oz | Clays | Win. 209 | Hor. Versalite | 15.8 gr / 7,600 LUP | 17.2 gr / 9,100 LUP | 18.6 gr / 10,500 LUP | |
| 1 1/8 oz | Clays | Win. 209 | Rem. Fig. 8 | 16.4 gr / 8,400 PSI | 17.5 gr / 9,700 PSI | 18.6 gr / 11,000 PSI | |
| 1 1/8 oz | Clays | Win. 209 | WAA12 | 16.2 gr / 8,100 PSI | 17.3 gr / 9,700 PSI | 18.4 gr / 11,300 PSI | |

*Velocity is measured in feet per second (fps).
Pressure is measured in Pounds per Square Inch (PSI).

| SHOT | POWDER | PRIMER | WAD | CHARGE/PRESSURE* | | | |
|---|-----------|-----------|----------------|---------------------|----------------------|----------------------|----------------------|
| 12 GA., 2 3/4", REMINGTON STS, OR NITRO 27, OR GUN CLUB PLASTIC SHELLS (CONT.) | | | | | | | |
| | | | | 1090 fps | 1145 fps | 1200 fps | 1255 fps |
| 1 1/8 oz | IMR Red | Ched. 209 | WAA12 | 15.5 gr / 8,300 PSI | 16.8 gr / 9,500 PSI | 18.1 gr / 10,600 PSI | - |
| 1 1/8 oz | IMR Red | Ched. 209 | Windjammer | 15.5 gr / 7,400 PSI | 16.8 gr / 8,600 PSI | 18.1 gr / 9,700 PSI | 19.4 gr / 10,900 PSI |
| 1 1/8 oz | IMR Red | Fed. 209A | Rem. RXP12 | 14.8 gr / 8,800 PSI | 16.1 gr / 9,800 PSI | 17.3 gr / 10,800 PSI | - |
| 1 1/8 oz | IMR Red | Fed. 209A | WAA12 | 14.8 gr / 8,600 PSI | 16.0 gr / 9,600 PSI | 17.2 gr / 10,600 PSI | - |
| 1 1/8 oz | IMR Red | Rem. 209P | DRV-12 | 14.8 gr / 8,200 PSI | 16.1 gr / 9,500 PSI | 17.4 gr / 10,800 PSI | - |
| 1 1/8 oz | IMR Red | Rem. 209P | Windjammer | 15.1 gr / 7,500 PSI | 16.3 gr / 8,600 PSI | 17.5 gr / 9,600 PSI | - |
| 1 1/8 oz | IMR Red | Win. 209 | DRRF5 | 15.0 gr / 8,400 PSI | 16.2 gr / 9,400 PSI | 17.4 gr / 10,500 PSI | - |
| 1 1/8 oz | IMR Red | Win. 209 | WAA12 | 14.6 gr / 8,600 PSI | 15.8 gr / 9,600 PSI | 17.0 gr / 10,700 PSI | - |
| 1 1/8 oz | Internal | Rem. 209P | Hor. Vers. | 17.2 gr / 7,700 PSI | 18.4 gr / 8,900 PSI | 19.6 gr / 10,100 PSI | 20.8 gr / 11,300 PSI |
| 1 1/8 oz | Internal | Rem. 209P | Rem. Fig. 8 | 18.6 gr / 6,400 LUP | 19.6 gr / 7,000 LUP | 20.9 gr / 7,500 LUP | 21.7 gr / 9,100 LUP |
| 1 1/8 oz | Internal | Rem. 209P | WAA12 | 18.3 gr / 7,000 LUP | 18.8 gr / 7,600 LUP | 19.7 gr / 8,700 LUP | 20.9 gr / 10,400 LUP |
| 1 1/8 oz | Internal | Win. 209 | Hor. Versalite | 17.8 gr / 6,900 LUP | 18.4 gr / 7,800 LUP | 19.5 gr / 9,100 LUP | 20.6 gr / 10,400 LUP |
| 1 1/8 oz | Internal | Win. 209 | Rem. Fig. 8 | 17.5 gr / 7,900 PSI | 18.6 gr / 9,000 PSI | 19.7 gr / 10,200 PSI | 20.8 gr / 11,300 PSI |
| 1 1/8 oz | Internal | Win. 209 | WAA12 | 17.0 gr / 7,100 PSI | 18.4 gr / 8,600 PSI | 19.8 gr / 10,100 PSI | 21.1 gr / 11,500 PSI |
| 1 1/8 oz | Titegroup | Rem. 209P | Rem. Fig. 8 | 14.9 gr / 8,200 PSI | 16.0 gr / 9,100 PSI | 17.1 gr / 10,000 PSI | 18.5 gr / 11,500 PSI |
| 1 1/8 oz | Titegroup | Rem. 209P | WAA12 | 14.9 gr / 8,000 PSI | 15.8 gr / 9,200 PSI | 16.7 gr / 10,300 PSI | - |
| 1 1/8 oz | Titegroup | Win. 209 | Rem. Fig. 8 | 15.1 gr / 8,000 PSI | 16.1 gr / 8,900 PSI | 17.1 gr / 9,900 PSI | - |
| 1 1/8 oz | Titegroup | Win. 209 | WAA12 | 14.7 gr / 8,300 PSI | 15.8 gr / 9,400 PSI | 16.8 gr / 10,500 PSI | - |
| | | | | 1090 fps | 1145 fps | 1200 fps | 1250 fps |
| 1 1/8 oz | IMR Green | Ched. 209 | WAA12 | 16.5 gr / 6,900 PSI | 17.7 gr / 7,900 PSI | 18.9 gr / 8,900 PSI | - |
| 1 1/8 oz | IMR Green | Ched. 209 | Windjammer | 16.5 gr / 6,200 PSI | 17.8 gr / 7,100 PSI | 19.1 gr / 7,900 PSI | - |
| 1 1/8 oz | IMR Green | Fed. 209A | CB 3118-12-A | 16.0 gr / 8,600 PSI | 17.4 gr / 9,600 PSI | 18.7 gr / 10,600 PSI | - |
| 1 1/8 oz | IMR Green | Fed. 209A | Rem. RXP12 | 15.9 gr / 8,800 PSI | 17.4 gr / 9,800 PSI | 18.8 gr / 10,900 PSI | - |
| 1 1/8 oz | IMR Green | Fed. 209A | Windjammer | 15.9 gr / 8,100 PSI | 17.2 gr / 9,200 PSI | 18.6 gr / 10,200 PSI | 19.8 gr / 11,200 PSI |
| 1 1/8 oz | IMR Green | Rem. 209P | Rem. RXP12 | 16.0 gr / 8,200 PSI | 17.4 gr / 9,100 PSI | 18.9 gr / 10,000 PSI | 20.2 gr / 10,800 PSI |
| 1 1/8 oz | IMR Green | Rem. 209P | WAA12 | 16.6 gr / 7,500 PSI | 18.2 gr / 8,500 PSI | 19.8 gr / 9,600 PSI | 21.2 gr / 10,500 PSI |
| 1 1/8 oz | IMR Green | Win. 209 | Rem. RXP12 | 16.8 gr / 7,900 PSI | 18.2 gr / 8,900 PSI | 19.6 gr / 9,800 PSI | 20.9 gr / 10,700 PSI |
| 1 1/8 oz | IMR Green | Win. 209 | WAA12 | 16.5 gr / 7,800 PSI | 17.9 gr / 8,900 PSI | 19.3 gr / 9,900 PSI | 20.6 gr / 10,900 PSI |
| | | | | 1200 fps | 1255 fps | 1310 fps | |
| 1 1/8 oz | Universal | Win. 209 | Rem. Fig. 8 | 22.5 gr / 8,900 PSI | 23.7 gr / 9,900 PSI | 25.0 gr / 10,800 PSI | |
| 1 1/8 oz | Universal | Win. 209 | WAA12 | 21.5 gr / 9,800 PSI | 23.0 gr / 10,700 PSI | - | |
| | | | | 1420 fps | 1475 fps | 1530 fps | 1585 fps |
| 1 1/8 oz | Longshot | Rem. 209A | Hor. Vers. | 31.0 gr / 9,100 PSI | 32.4 gr / 10,000 PSI | 33.7 gr / 10,900 PSI | - |
| 1 1/8 oz | Longshot | Win. 209 | WAA12 | 31.7 gr / 9,100 PSI | 32.8 gr / 10,100 PSI | 33.5 gr / 11,200 PSI | - |
| | | | | 1100 fps | 1150 fps | 1200 fps | 1250 fps |
| 1 1/8 oz | 700-X | Fed. 209A | Rem. FIG. 8 | 15.5 gr / 8,900 PSI | 16.5 gr / 10,000 PSI | 17.5 gr / 11,000 PSI | - |
| 1 1/8 oz | 700-X | Fed. 209A | WAA12 | 15.0 gr / 9,500 PSI | 16.5 gr / 10,900 PSI | - | - |
| 1 1/8 oz | 700-X | Rem. 209P | Rem. FIG. 8 | 15.5 gr / 8,100 PSI | 16.5 gr / 9,000 PSI | 18.0 gr / 10,400 PSI | 19.0 gr / 11,300 PSI |
| 1 1/8 oz | 700-X | Rem. 209P | WAA12 | 15.0 gr / 8,500 PSI | 16.0 gr / 9,600 PSI | 17.5 gr / 11,200 PSI | - |

SHELL data

| SHOT | POWDER | PRIMER | WAD | CHARGE/PRESSURE* | | | |
|---|-----------|-----------|---------------|----------------------|----------------------|----------------------|----------------------|
| 12 GA., 2 3/4", REMINGTON STS, OR NITRO 27, OR GUN CLUB PLASTIC SHELLS (CONT.) | | | | | | | |
| | | | | 1100 fps | 1150 fps | 1200 fps | 1250 fps |
| 1 1/8 oz | 700-X | Win. 209 | Rem. FIG. 8 | 15.5 gr / 8,500 PSI | 16.5 gr / 9,400 PSI | 18.0 gr / 10,800 PSI | - |
| 1 1/8 oz | 700-X | Win. 209 | WAA12 | 15.5 gr / 9,300 PSI | 16.5 gr / 10,200 PSI | 17.5 gr / 11,200 PSI | - |
| | | | | 1145 fps | 1200 fps | 1255 fps | 1310 fps |
| 1 1/8 oz | WST | Win. 209 | Rem. FIG. 8 | 19.0 gr / 10,400 PSI | - | - | - |
| 1 1/8 oz | WST | Win. 209 | Rem. RXP12 | 19.0 gr / 10,500 PSI | - | - | - |
| 1 1/8 oz | Super Hcp | Rem. 209P | DRV-12 | 18.3 gr / 8,700 PSI | 19.6 gr / 10,000 PSI | 20.9 gr / 11,200 PSI | - |
| 1 1/8 oz | Super Hcp | Rem. 209P | Rem. FIG. 8 | 18.4 gr / 8,400 PSI | 19.6 gr / 9,700 PSI | 20.9 gr / 11,100 PSI | - |
| 1 1/8 oz | Super Hcp | Rem. 209P | WAA12 | 18.5 gr / 8,700 PSI | 19.8 gr / 10,000 PSI | 21.0 gr / 11,400 PSI | - |
| 1 1/8 oz | Super Hcp | Win. 209 | DRV-12 | 18.5 gr / 8,600 PSI | 19.8 gr / 10,000 PSI | 21.0 gr / 11,300 PSI | - |
| 1 1/8 oz | Super Hcp | Win. 209 | Rem. FIG. 8 | 18.2 gr / 8,200 PSI | 19.6 gr / 9,700 PSI | 20.9 gr / 11,100 PSI | - |
| 1 1/8 oz | Super Hcp | Win. 209 | WAA12 | 18.4 gr / 8,100 PSI | 19.7 gr / 9,600 PSI | 21.0 gr / 11,200 PSI | - |
| | | | | 1310 fps | 1365 fps | 1400 fps | |
| 1 1/8 oz | WSF | Win. 209 | Fed. 12S3 | - | 28.0 gr / 8,900 PSI | 29.0 gr / 9,500 PSI | |
| 1 1/8 oz | WSF | Win. 209 | WAA12 | 27.0 gr / 9,700 PSI | 28.5 gr / 10,700 PSI | - | |
| | | | | 1220 fps | | | |
| 1 1/4 oz | Universal | Rem.209P | Rem. SP12 | 24.0 gr / 9,600 PSI | | | |
| 1 1/4 oz | Universal | Rem. 209P | WAA12F114 | 23.7 gr / 10,600 PSI | | | |
| 1 1/4 oz | Universal | Win. 209 | Rem. SP12 | 24.0 gr / 10,000 PSI | | | |
| 1 1/4 oz | Universal | Win. 209 | WAA12F114 | 23.5 gr / 10,900 PSI | | | |
| | | | | 1220 fps | 1330 fps | 1385 fps | 1440 fps |
| 1 1/4 oz | HS-6 | Win. 209 | WAA12F114 | 32.0 gr / 9,200 LUP | 34.0 gr / 10,400 LUP | - | - |
| 1 1/4 oz | HS-6 | Win. 209 | Rem. R12H | 32.0 gr / 9,100 LUP | 34.0 gr / 10,200 LUP | - | - |
| 1 1/4 oz | Longshot | Rem. 209P | Rem. R12L | - | 28.5 gr / 9,900 PSI | 29.9 gr / 10,700 PSI | - |
| 1 1/4 oz | Longshot | Rem. 209P | WAA12F114 | - | 27.1 gr / 10,600 PSI | 28.2 gr / 11,500 PSI | - |
| 1 1/4 oz | Longshot | Win. 209 | Rem. R12L | - | 28.5 gr / 9,300 PSI | 30.2 gr / 10,300 PSI | 31.8 gr / 11,200 PSI |
| 1 1/4 oz | Longshot | Win. 209 | WAA12F114 | - | 28.2 gr / 9,100 PSI | 30.1 gr / 10,400 PSI | - |
| | | | | 1220 fps | 1275 fps | 1330 fps | 1385 fps |
| 1 1/4 oz. | IMR Blue | Fed. 209A | DRA 12 Yellow | 28.7 gr / 9,100 PSI | 30.6 gr / 10,100 PSI | 32.5 gr / 11,100 PSI | - |
| 1 1/4 oz. | IMR Blue | Fed. 209A | Rem. SP12 | 28.8 gr / 8,800 PSI | 30.6 gr / 9,700 PSI | 32.4 gr / 10,600 PSI | 34.3 gr / 11,500 PSI |
| 1 1/4 oz. | IMR Blue | Fed. 209A | WAA12R | 28.7 gr / 8,600 PSI | 30.6 gr / 9,600 PSI | 32.4 gr / 10,500 PSI | 34.3 gr / 11,500 PSI |
| 1 1/4 oz. | IMR Blue | Win. 209 | DRA 12 Yellow | 29.3 gr / 9,000 PSI | 31.3 gr / 9,800 PSI | 33.3 gr / 10,600 PSI | 35.3 gr / 11,400 PSI |
| 1 1/4 oz. | IMR Blue | Win. 209 | Rem. SP12 | 29.7 gr / 8,600 PSI | 31.6 gr / 9,500 PSI | 33.4 gr / 10,400 PSI | 35.2 gr / 11,300 PSI |
| 1 1/4 oz. | IMR Blue | Win. 209 | WAA12R | 29.5 gr / 8,400 PSI | 31.5 gr / 9,300 PSI | 33.4 gr / 10,200 PSI | 35.4 gr / 11,100 PSI |
| | | | | 1225 fps | 1275 fps | 1325 fps | |
| 1 1/4 oz | WSF | CCI 209 | WAA12F114 | 25.5 gr / 9,100 PSI | 27.0 gr / 10,200 PSI | 28.5 gr / 10,900 PSI | |
| 1 1/4 oz | WSF | Win. 209 | WAA12F114 | - | 27.5 gr / 9,700 PSI | 29.5 gr / 10,400 PSI | |
| | | | | 1220 fps | 1275 fps | 1330 fps | |
| 1 1/4 oz | 572 | Fed. 209A | DRA 12 YELLOW | 22.6 gr / 10,700 PSI | - | - | |
| 1 1/4 oz | 572 | Fed. 209A | Rem. SP12 | 22.2 gr / 10,400 PSI | - | - | |

*Velocity is measured in feet per second (fps).
Pressure is measured in Pounds per Square Inch (PSI).

| SHOT | POWDER | PRIMER | WAD | CHARGE/PRESSURE* | | | |
|---|------------|-----------|---------------|----------------------|----------------------|----------------------|----------------------|
| 12 GA., 2 3/4", REMINGTON STS, OR NITRO 27, OR GUN CLUB PLASTIC SHELLS (CONT.) | | | | | | | |
| | | | | 1220 fps | 1275 fps | 1330 fps | |
| 1 1/4 oz | 572 | Rem. 209P | DRA 12 YELLOW | 22.8 gr / 10,400 PSI | 24.3 gr / 11,300 PSI | - | |
| 1 1/4 oz | 572 | Rem. 209P | Rem. SP12 | 22.9 gr / 9,800 PSI | 24.3 gr / 10,900 PSI | - | |
| 1 1/4 oz | 572 | Win. 209 | DRA 12 YELLOW | 23.9 gr / 9,600 PSI | 25.4 gr / 10,800 PSI | - | |
| 1 1/4 oz | 572 | Win. 209 | Rem. SP12 | 24.0 gr / 9,400 PSI | 25.1 gr / 10,600 PSI | 27.1 gr / 11,100 PSI | |
| 12 GA., 2 3/4", WINCHESTER COMPRESSION-FORMED AA AND HS PLASTIC SHELLS | | | | | | | |
| | | | | 1250 fps | 1300 fps | 1350 fps | 1400 fps |
| 7/8 oz | Titewad | Fed. 209A | WAA12L | 17.8 gr / 8,600 PSI | 18.8 gr / 9,100 PSI | 19.8 gr / 10,700 PSI | - |
| 7/8 oz | Titewad | Rem. 209P | Rem.TGT12 | 17.2 gr / 8,300 PSI | 18.2 gr / 9,400 PSI | 19.5 gr / 10,300 PSI | - |
| 7/8 oz | Titewad | Rem. 209P | WAA12L | 18.0 gr / 8,500 PSI | 19.0 gr / 9,100 PSI | 19.9 gr / 10,000 PSI | - |
| 7/8 oz | Titewad | Win. 209 | Rem.TGT12 | 17.1 gr / 9,300 PSI | 18.1 gr / 9,900 PSI | 19.5 gr / 10,800 PSI | - |
| 7/8 oz | Titewad | Win. 209 | WAA12L | 17.8 gr / 8,600 PSI | 19.1 gr / 9,500 PSI | 20.2 gr / 10,300 PSI | 21.4 gr / 10,800 PSI |
| | | | | 1200 fps | 1250 fps | 1300 fps | 1350 fps |
| 7/8 oz | Clays | Fed. 209A | WAA12L | - | 18.0 gr / 8,400 PSI | 19.1 gr / 9,300 PSI | 20.5 gr / 10,800 PSI |
| 7/8 oz | Clays | Rem. 209P | Rem.TGT12 | 18.2 gr / 6,000 LUP | 18.9 gr / 6,800 LUP | - | - |
| 7/8 oz | Clays | Rem. 209P | WAA12L | 16.8 gr / 6,800 PSI | 18.1 gr / 7,500 PSI | 19.1 gr / 8,600 PSI | 20.5 gr / 10,700 PSI |
| 7/8 oz | Clays | Win. 209 | Rem.TGT12 | 15.8 gr / 7,100 PSI | 17.4 gr / 8,000 PSI | 18.4 gr / 9,000 PSI | 19.4 gr / 11,300 PSI |
| 7/8 oz | Clays | Win. 209 | WAA12L | - | 18.3 gr / 8,300 PSI | 19.2 gr / 9,400 PSI | 20.5 gr / 10,000 PSI |
| | | | | 1150 fps | 1200 fps | 1250 fps | 1300 fps |
| 7/8 oz | IMR Red | Ched. 209 | DRXXL ORANGE | 14.5 gr / 6,400 PSI | 15.6 gr / 7,400 PSI | 16.7 gr / 8,400 PSI | 17.8 gr / 9,400 PSI |
| 7/8 oz | IMR Red | Ched. 209 | WAA12L | 14.8 gr / 6,600 PSI | 15.8 gr / 7,500 PSI | 16.9 gr / 8,400 PSI | 17.9 gr / 9,300 PSI |
| 7/8 oz | IMR Red | Rem. 209P | DRXXL ORANGE | 14.9 gr / 6,700 PSI | 16.0 gr / 7,500 PSI | 17.0 gr / 8,300 PSI | 18.0 gr / 9,100 PSI |
| 7/8 oz | IMR Red | Rem. 209P | WAA12L | 14.8 gr / 6,700 PSI | 15.8 gr / 7,400 PSI | 16.9 gr / 8,200 PSI | 17.9 gr / 9,000 PSI |
| 7/8 oz | IMR Red | Win. 209 | CB 4100-12B | 14.4 gr / 6,400 PSI | 15.4 gr / 7,200 PSI | 16.4 gr / 7,900 PSI | 17.4 gr / 8,700 PSI |
| 7/8 oz | IMR Red | Win. 209 | Rem. TGT12 | 14.4 gr / 6,300 PSI | 15.5 gr / 7,100 PSI | 16.6 gr / 7,800 PSI | 17.7 gr / 8,600 PSI |
| 7/8 oz | IMR Red | Win. 209 | WAA12L | 14.4 gr / 6,500 PSI | 15.4 gr / 7,400 PSI | 16.5 gr / 8,300 PSI | 17.5 gr / 9,200 PSI |
| | | | | 1250 fps | 1300 fps | 1350 fps | 1400 fps |
| 7/8 oz | Internat'l | Rem. 209P | Rem.TGT12 | 20.5 gr / 6,800 PSI | 21.5 gr / 7,300 PSI | 22.5 gr / 8,300 PSI | 23.0 gr / 9,300 PSI |
| 7/8 oz | Internat'l | Rem. 209P | WAA12L | 20.0 gr / 7,500 PSI | 20.8 gr / 8,300 PSI | 22.2 gr / 8,900 PSI | 22.7 gr / 10,200 PSI |
| 7/8 oz | Internat'l | Win. 209 | Rem.TGT12 | 19.2 gr / 7,100 PSI | 20.2 gr / 7,800 PSI | 21.2 gr / 8,700 PSI | 22.5 gr / 9,300 PSI |
| 7/8 oz | Internat'l | Win. 209 | WAA12SL | 20.5 gr / 7,900 PSI | 21.0 gr / 8,600 PSI | 21.5 gr / 9,100 PSI | 22.5 gr / 10,200 PSI |
| | | | | 1250 fps | 1300 fps | 1350 fps | |
| 7/8 oz | IMR Green | Ched. 209 | CB 4100-12B | 19.1 gr / 7,200 PSI | 20.4 gr / 8,000 PSI | 21.7 gr / 8,800 PSI | |
| 7/8 oz | IMR Green | Ched. 209 | DRXXL ORANGE | 18.4 gr / 8,000 PSI | 19.8 gr / 9,000 PSI | 21.2 gr / 10,000 PSI | |
| 7/8 oz | IMR Green | Ched. 209 | WAA12L | 19.0 gr / 7,700 PSI | 20.2 gr / 8,400 PSI | 21.3 gr / 9,200 PSI | |
| 7/8 oz | IMR Green | Rem. 209P | DRXXL ORANGE | 18.7 gr / 7,900 PSI | 20.1 gr / 8,600 PSI | 21.4 gr / 9,400 PSI | |
| 7/8 oz | IMR Green | Win. 209 | WAA12L | 18.8 gr / 7,900 PSI | 20.1 gr / 8,700 PSI | 21.3 gr / 9,500 PSI | |
| | | | | 1150 fps | 1200 fps | 1250 fps | 1325 fps |
| 24 gm | 700-X | Fed. 209A | Rem. TGT12 | 14.5 gr / 6,000 PSI | 16.0 gr / 7,000 PSI | 17.0 gr / 7,800 PSI | 18.5 gr / 8,600 PSI |

S H O T S H E L L d a t a

| SHOT | POWDER | PRIMER | WAD | CHARGE/PRESSURE* | | | | SHOT | POWDER | PRIMER | WAD | CHARGE/PRESSURE* | | | | |
|---|------------|-----------|--------------|---------------------|----------------------|----------------------|----------------------|-----------|-----------|-----------|----------------|----------------------|----------------------|----------------------|----------------------|----------|
| 12 GA., 2 3/4", WINCHESTER COMPRESSION-FORMED AA AND HS PLASTIC SHELLS (CONT.) | | | | | | | | | | | | | | | | |
| | | | | 1150 fps | 1200 fps | 1250 fps | 1325 fps | | | | | | 1145 fps | 1200 fps | 1250 fps | 1300 fps |
| 24 gm | 700-X | Fed. 209A | WAA12SL | 14.5 gr / 6,400 PSI | 15.5 gr / 7,000 PSI | 17.0 gr / 8,100 PSI | 18.5 gr / 9,100 PSI | 1 oz. | IMR Green | Rem. 209P | Rem. TGT12 | 16.9 gr / 6,500 PSI | 18.2 gr / 7,200 PSI | 19.4 gr / 7,800 PSI | 20.6 gr / 8,500 PSI | |
| 24 gm | 700-X | Rem. 209P | Rem. TGT12 | 15.5 gr / 5,000 PSI | 16.5 gr / 5,500 PSI | 18.0 gr / 6,100 PSI | 20.5 gr / 6,800 PSI | 1 oz. | IMR Green | Win. 209 | CB 1100-12 | 17.0 gr / 7,200 PSI | 18.2 gr / 8,200 PSI | 19.4 gr / 9,000 PSI | 20.5 gr / 9,800 PSI | |
| 24 gm | 700-X | Rem. 209P | WAA12SL | 15.0 gr / 5,300 PSI | 16.5 gr / 6,000 PSI | 18.0 gr / 6,800 PSI | 19.5 gr / 7,600 PSI | 1 oz. | IMR Green | Win. 209 | Rem. TGT12 | 17.2 gr / 7,000 PSI | 18.5 gr / 7,900 PSI | 19.6 gr / 8,600 PSI | 20.8 gr / 9,400 PSI | |
| 24 gm | 700-X | Win. 209 | Rem. TGT12 | 14.5 gr / 6,000 PSI | 16.0 gr / 6,900 PSI | 17.0 gr / 7,600 PSI | 18.5 gr / 8,700 PSI | | | | | | 1100 fps | 1150 fps | 1200 fps | 1250 fps |
| 24 gm | 700-X | Win. 209 | WAA12SL | 14.5 gr / 6,300 PSI | 15.5 gr / 7,100 PSI | 17.0 gr / 8,200 PSI | 18.5 gr / 9,100 PSI | 1 oz. | 700-X | Rem. 209P | Rem. TGT12 | 15.5 gr / 5,800 PSI | 16.5 gr / 6,200 PSI | 18.0 gr / 7,100 PSI | 19.0 gr / 7,700 PSI | |
| | | | | 1325 fps | 1355 fps | 1400 fps | | 1 oz. | 700-X | Rem. 209P | WAA12SL | 15.0 gr / 6,400 PSI | 16.5 gr / 7,000 PSI | 18.0 gr / 7,600 PSI | 19.0 gr / 8,000 PSI | |
| 7/8 oz | WST | Fed. 209A | WAA12L | - | 23.5 gr / 7,400 PSI | - | | 1 oz. | 700-X | Win. 209 | Rem. TGT12 | 14.5 gr / 6,700 PSI | 15.5 gr / 7,400 PSI | 16.5 gr / 8,200 PSI | 18.0 gr / 9,400 PSI | |
| 7/8 oz | WST | Win. 209 | WAA12L | 22.0 gr / 7,900 PSI | - | 23.5 gr / 8,200 PSI | | 1 oz. | 700-X | Win. 209 | WAA12SL | 14.5 gr / 7,500 PSI | 15.5 gr / 8,200 PSI | 16.5 gr / 9,000 PSI | 18.0 gr / 10,100 PSI | |
| | | | | 1125 fps | 1180 fps | 1235 fps | 1290 fps | | | | | | 1180 fps | 1235 fps | 1290 fps | 1345 fps |
| 1 oz | Titewad | Fed. 209A | Rem. TGT12 | 15.7 gr / 7,600 PSI | 17.3 gr / 8,800 PSI | 18.1 gr / 10,000 PSI | 19.4 gr / 11,200 PSI | 1 oz. | WST | Win. 209 | WAA12SL | 19.5 gr / 7,400 PSI | 21.0 gr / 8,100 PSI | 22.0 gr / 9,000 PSI | - | |
| 1 oz | Titewad | Fed. 209A | WAA12SL | 16.4 gr / 7,300 PSI | 17.4 gr / 7,700 PSI | 18.4 gr / 9,600 PSI | 20.1 gr / 10,600 PSI | 1 oz. | Super Hcp | Fed. 209A | WAA12SL | 18.3 gr / 8,000 PSI | 19.5 gr / 9,100 PSI | 20.8 gr / 10,300 PSI | 22.0 gr / 11,300 PSI | |
| 1 oz | Titewad | Rem. 209P | Rem. TGT12 | 15.9 gr / 6,900 PSI | 16.8 gr / 7,800 PSI | 18.4 gr / 8,900 PSI | 20.2 gr / 10,600 PSI | 1 oz. | Super Hcp | Rem. 209P | J-XL-1 | 19.0 gr / 7,200 PSI | 20.0 gr / 8,300 PSI | 21.0 gr / 9,400 PSI | 22.1 gr / 10,700 PSI | |
| 1 oz | Titewad | Rem. 209P | WAA12SL | 15.5 gr / 7,300 PSI | 17.1 gr / 8,000 PSI | 18.5 gr / 9,600 PSI | 19.5 gr / 11,200 PSI | 1 oz. | Super Hcp | Win. 209 | J-XL-1 | 19.3 gr / 7,000 PSI | 20.3 gr / 8,100 PSI | 21.2 gr / 9,000 PSI | 22.1 gr / 10,100 PSI | |
| 1 oz | Titewad | Win. 209 | Fed. 12S0 | 15.6 gr / 9,000 PSI | 16.8 gr / 10,300 PSI | - | - | 1 oz. | Super Hcp | Win. 209 | Rem. TGT12 | 18.2 gr / 7,100 PSI | 19.6 gr / 8,500 PSI | 20.9 gr / 9,900 PSI | 22.2 gr / 11,200 PSI | |
| 1 oz | Titewad | Win. 209 | Rem. TGT12 | 15.2 gr / 8,200 PSI | 16.4 gr / 9,200 PSI | 17.7 gr / 10,200 PSI | 19.0 gr / 11,300 PSI | | | | | | 1180 fps | 1235 fps | 1290 fps | 1345 fps |
| 1 oz | Titewad | Win. 209 | WAA12SL | 15.5 gr / 7,300 PSI | 17.1 gr / 8,000 PSI | 18.5 gr / 9,600 PSI | 19.5 gr / 11,200 PSI | 1 oz. | Super Hcp | Win. 209 | WAA12SL | 18.5 gr / 7,400 PSI | 19.7 gr / 8,600 PSI | 20.8 gr / 9,800 PSI | 22.0 gr / 11,000 PSI | |
| 1 oz | Clays | Rem. 209P | Rem. TGT12 | 16.1 gr / 7,500 PSI | 17.3 gr / 8,400 PSI | 18.5 gr / 9,900 PSI | - | | | | | | 1090 fps | 1145 fps | 1200 fps | 1255 fps |
| 1 oz | Clays | Rem. 209P | WAA12SL | 16.2 gr / 6,500 PSI | 17.4 gr / 8,000 PSI | 18.6 gr / 9,200 PSI | 20.4 gr / 10,600 PSI | 1 1/8 oz. | Titewad | Fed. 209A | Fed. 12S3 | 15.5 gr / 9,900 PSI | 16.8 gr / 10,800 PSI | - | | |
| 1 oz | Clays | Win. 209 | Rem. TGT12 | 15.8 gr / 7,700 PSI | 16.8 gr / 8,500 PSI | 18.2 gr / 10,300 PSI | - | 1 1/8 oz. | Titewad | Rem. 209P | Rem. Fig. 8 | 15.7 gr / 8,500 PSI | 16.8 gr / 9,300 PSI | 18.3 gr / 10,400 PSI | | |
| 1 oz | Clays | Win. 209 | WAA12SL | 16.0 gr / 7,400 LUP | 17.2 gr / 8,300 LUP | 18.5 gr / 9,200 LUP | 19.8 gr / 10,200 LUP | 1 1/8 oz. | Titewad | Rem. 209P | WAA12 | 15.5 gr / 10,100 PSI | 16.4 gr / 11,200 PSI | - | | |
| | | | | 1145 fps | 1200 fps | 1250 fps | 1300 fps | 1 1/8 oz. | Titewad | Win. 209 | Rem. Fig. 8 | 15.2 gr / 9,000 PSI | 16.2 gr / 9,700 PSI | 17.5 gr / 11,100 PSI | | |
| 1 oz. | IMR Red | Ched. 209 | Green Duster | 15.7 gr / 8,100 PSI | 16.9 gr / 9,100 PSI | 17.9 gr / 10,000 PSI | 19.0 gr / 11,000 PSI | 1 1/8 oz. | Titewad | Win. 209 | WAA12 | 15.2 gr / 9,500 PSI | 16.5 gr / 10,400 PSI | 17.8 gr / 11,100 PSI | | |
| 1 oz. | IMR Red | Ched. 209 | Rem. TGT12 | 15.7 gr / 7,600 PSI | 16.9 gr / 8,500 PSI | 17.9 gr / 9,400 PSI | 19.0 gr / 10,200 PSI | 1 1/8 oz. | Clays | Rem. 209P | Rem. Fig. 8 | 16.3 gr / 9,000 PSI | 17.3 gr / 10,100 PSI | 18.5 gr / 11,500 PSI | | |
| 1 oz. | IMR Red | Rem. 209P | Rem. TGT12 | 15.7 gr / 7,700 PSI | 16.9 gr / 8,600 PSI | 18.0 gr / 9,400 PSI | 19.1 gr / 10,300 PSI | 1 1/8 oz. | Clays | Rem. 209P | WAA12 | 15.9 gr / 8,900 PSI | 17.0 gr / 9,400 PSI | - | | |
| 1 oz. | IMR Red | Win. 209 | CB 1100-12 | 15.4 gr / 8,100 PSI | 16.5 gr / 9,200 PSI | 17.6 gr / 10,100 PSI | 18.6 gr / 11,100 PSI | 1 1/8 oz. | Clays | Win. 209 | Hor. Versalite | 16.4 gr / 8,300 LUP | 17.6 gr / 9,400 LUP | 18.8 gr / 10,600 LUP | | |
| 1 oz. | IMR Red | Win. 209 | Rem. TGT12 | 15.3 gr / 8,200 PSI | 16.5 gr / 9,100 PSI | 17.6 gr / 10,000 PSI | 18.7 gr / 10,900 PSI | 1 1/8 oz. | Clays | Win. 209 | Rem. Fig. 8 | 16.0 gr / 7,700 LUP | 17.0 gr / 8,500 LUP | 18.1 gr / 9,400 LUP | | |
| | | | | 1180 fps | 1235 fps | 1290 fps | 1345 fps | 1 1/8 oz. | Clays | Win. 209 | WAA12 | 16.1 gr / 7,700 LUP | 17.3 gr / 8,800 LUP | 18.2 gr / 9,800 LUP | | |
| 1 oz. | Internat'l | Fed. 209A | WAA12SL | 18.0 gr / 8,700 PSI | 19.0 gr / 10,400 PSI | 20.0 gr / 11,300 PSI | - | | | | | | 1090 fps | 1145 fps | 1200 fps | 1255 fps |
| 1 oz. | Internat'l | Rem. 209P | Rem. TGT12 | 20.8 gr / 5,900 LUP | 21.5 gr / 7,100 LUP | 22.3 gr / 7,800 LUP | - | 1 1/8 oz. | IMR Red | Ched. 209 | DRV-12 | 15.1 gr / 8,100 PSI | 16.4 gr / 9,300 PSI | 17.7 gr / 10,500 PSI | - | |
| 1 oz. | Internat'l | Rem. 209P | WAA12SL | 19.0 gr / 7,700 PSI | 20.0 gr / 9,200 PSI | 21.2 gr / 9,700 PSI | 22.5 gr / 11,100 PSI | 1 1/8 oz. | IMR Red | Ched. 209 | Rem. FIG. 8 | 15.3 gr / 8,100 PSI | 16.6 gr / 9,200 PSI | 17.9 gr / 10,400 PSI | 19.2 gr / 11,500 PSI | |
| 1 oz. | Internat'l | Win. 209 | Rem. TGT12 | 18.4 gr / 7,700 PSI | 19.6 gr / 8,600 PSI | 20.7 gr / 9,600 PSI | 22.2 gr / 11,000 PSI | 1 1/8 oz. | IMR Red | Ched. 209 | WAA12 | 15.0 gr / 8,400 PSI | 16.2 gr / 9,500 PSI | 17.5 gr / 10,500 PSI | - | |
| 1 oz. | Internat'l | Win. 209 | WAA12SL | 18.9 gr / 6,900 LUP | 20.4 gr / 8,300 LUP | 21.3 gr / 8,900 LUP | - | 1 1/8 oz. | IMR Red | Fed. 209A | DRV-12 | 15.0 gr / 8,700 PSI | 16.1 gr / 10,000 PSI | 17.2 gr / 11,400 PSI | - | |
| 1 oz. | Titegroup | Rem. 209P | Rem. TGT12 | 16.0 gr / 7,700 PSI | 17.3 gr / 9,000 PSI | 18.6 gr / 10,200 PSI | 20.0 gr / 11,200 PSI | 1 1/8 oz. | IMR Red | Fed. 209A | Rem. FIG. 8 | 15.0 gr / 8,800 PSI | 16.2 gr / 9,800 PSI | 17.3 gr / 10,900 PSI | - | |
| 1 oz. | Titegroup | Rem. 209P | WAA12SL | 16.2 gr / 7,800 PSI | 17.4 gr / 9,100 PSI | 18.6 gr / 10,400 PSI | 20.0 gr / 11,500 PSI | 1 1/8 oz. | IMR Red | Fed. 209A | WAA12 | 15.0 gr / 8,900 PSI | 16.2 gr / 9,900 PSI | 17.5 gr / 11,000 PSI | - | |
| 1 oz. | Titegroup | Rem. 209 | Rem. TGT12 | 15.7 gr / 7,900 PSI | 17.1 gr / 9,100 PSI | 18.5 gr / 10,200 PSI | 19.9 gr / 11,400 PSI | 1 1/8 oz. | IMR Red | Rem. 209P | Rem. FIG. 8 | 15.2 gr / 7,900 PSI | 16.5 gr / 8,800 PSI | 17.9 gr / 9,700 PSI | 19.2 gr / 10,600 PSI | |
| 1 oz. | Titegroup | Rem. 209 | WAA12SL | 16.5 gr / 7,500 PSI | 17.7 gr / 8,800 PSI | 18.9 gr / 10,100 PSI | 20.1 gr / 11,400 PSI | 1 1/8 oz. | IMR Red | Rem. 209P | WAA12 | 14.9 gr / 8,300 PSI | 16.2 gr / 9,400 PSI | 17.5 gr / 10,500 PSI | - | |
| | | | | 1145 fps | 1200 fps | 1250 fps | 1300 fps | 1 1/8 oz. | IMR Red | Win. 209 | DR-XL-1/8 | 15.0 gr / 8,900 PSI | 16.1 gr / 9,900 PSI | 17.2 gr / 10,900 PSI | - | |
| 1 oz. | IMR Green | Ched. 209 | Green Duster | 17.0 gr / 6,700 PSI | 18.3 gr / 7,500 PSI | 19.4 gr / 8,200 PSI | 20.6 gr / 8,900 PSI | 1 1/8 oz. | IMR Red | Win. 209 | DRRFB | 15.0 gr / 8,600 PSI | 16.2 gr / 9,600 PSI | 17.5 gr / 10,600 PSI | - | |
| 1 oz. | IMR Green | Ched. 209 | Rem. TGT12 | 17.0 gr / 6,500 PSI | 18.3 gr / 7,200 PSI | 19.4 gr / 7,800 PSI | 20.6 gr / 8,400 PSI | 1 1/8 oz. | IMR Red | Win. 209 | Windjammer | 15.3 gr / 8,100 PSI | 16.5 gr / 9,000 PSI | 17.6 gr / 10,000 PSI | - | |

*Velocity is measured in feet per second (fps).
Pressure is measured in Pounds per Square Inch (PSI).

SHOT SHELL data

| SHOT | POWDER | PRIMER | WAD | CHARGE/PRESSURE* | | | |
|---|------------|-----------|----------------|----------------------|----------------------|----------------------|----------------------|
| 12 GA., 2 3/4", WINCHESTER COMPRESSION-FORMED AA AND HS PLASTIC SHELLS (CONT.) | | | | | | | |
| | | | | 1090 fps | 1145 fps | 1200 fps | 1255 fps |
| 1 1/8 oz | Internal'l | Fed. 209A | Rem. Fig. 8 | 16.5 gr / 9,700 PSI | 17.0 gr / 10,100 PSI | 18.0 gr / 10,900 PSI | - |
| 1 1/8 oz | Internal'l | Fed. 209A | WAA12 | 16.0 gr / 9,500 PSI | 16.8 gr / 10,300 PSI | 17.5 gr / 10,900 PSI | - |
| 1 1/8 oz | Internal'l | Rem. 209P | Hor. Vers. | 16.8 gr / 9,000 PSI | 17.8 gr / 10,000 PSI | 19.0 gr / 11,300 PSI | - |
| 1 1/8 oz | Internal'l | Rem. 209P | Rem. Fig. 8 | - | 20.1 gr / 6,300 LUP | 21.1 gr / 7,700 LUP | 22.1 gr / 8,000 LUP |
| 1 1/8 oz | Internal'l | Rem. 209P | WAA12 | 16.5 gr / 8,900 PSI | 17.8 gr / 9,500 PSI | 18.7 gr / 11,100 PSI | - |
| 1 1/8 oz | Internal'l | Win. 209 | Hor. Versalite | 17.4 gr / 7,900 LUP | 18.1 gr / 8,600 LUP | 19.2 gr / 9,800 LUP | - |
| 1 1/8 oz | Internal'l | Win. 209 | Rem. Fig. 8 | 17.3 gr / 8,100 PSI | 18.3 gr / 9,500 PSI | - | - |
| 1 1/8 oz | Internal'l | Win. 209 | WAA12 | 17.6 gr / 7,400 LUP | 18.1 gr / 8,300 LUP | 19.2 gr / 9,600 LUP | 21.3 gr / 10,800 LUP |
| 1 1/8 oz | Titegroup | Rem. 209P | Rem. Fig. 8 | 14.7 gr / 8,500 PSI | 15.9 gr / 9,700 PSI | 17.0 gr / 10,700 PSI | - |
| 1 1/8 oz | Titegroup | Rem. 209P | WAA12 | 14.6 gr / 8,400 PSI | 15.6 gr / 9,600 PSI | 16.5 gr / 10,600 PSI | - |
| 1 1/8 oz | Titegroup | Win. 209 | Rem. Fig. 8 | 14.9 gr / 8,200 PSI | 15.9 gr / 9,200 PSI | 16.9 gr / 10,200 PSI | - |
| 1 1/8 oz | Titegroup | Win. 209 | WAA12 | 14.9 gr / 7,900 PSI | 15.9 gr / 9,000 PSI | 17.4 gr / 10,400 PSI | 18.4 gr / 11,400 PSI |
| | | | | 1090 fps | 1145 fps | 1200 fps | 1255 fps |
| 1 1/8 oz | IMR Green | Ched. 209 | DRV-12 | 16.3 gr / 6,900 PSI | 17.5 gr / 7,900 PSI | 18.8 gr / 9,000 PSI | 20.0 gr / 10,000 PSI |
| 1 1/8 oz | IMR Green | Ched. 209 | Rem. FIG. 8 | 16.4 gr / 7,100 PSI | 17.7 gr / 7,900 PSI | 19.1 gr / 8,700 PSI | 20.4 gr / 9,500 PSI |
| 1 1/8 oz | IMR Green | Ched. 209 | WAA12 | 16.2 gr / 7,200 PSI | 17.5 gr / 8,100 PSI | 18.7 gr / 9,000 PSI | 20.0 gr / 9,900 PSI |
| 1 1/8 oz | IMR Green | Fed. 209A | CB 1116-12 | 16.4 gr / 8,700 PSI | 17.8 gr / 9,800 PSI | 19.1 gr / 11,000 PSI | - |
| 1 1/8 oz | IMR Green | Fed. 209A | DRV-12 | 16.4 gr / 9,000 PSI | 17.7 gr / 10,000 PSI | 19.0 gr / 11,000 PSI | - |
| 1 1/8 oz | IMR Green | Fed. 209A | Rem. FIG. 8 | 16.4 gr / 8,300 PSI | 17.7 gr / 9,300 PSI | 19.1 gr / 10,300 PSI | 20.3 gr / 11,200 PSI |
| 1 1/8 oz | IMR Green | Rem. 209P | Rem. FIG. 8 | 16.1 gr / 6,800 PSI | 17.5 gr / 7,600 PSI | 18.8 gr / 8,500 PSI | 20.2 gr / 9,200 PSI |
| 1 1/8 oz | IMR Green | Rem. 209P | WAA12 | 16.2 gr / 7,500 PSI | 17.5 gr / 8,200 PSI | 18.8 gr / 9,000 PSI | 20.1 gr / 9,700 PSI |
| 1 1/8 oz | IMR Green | Win. 209 | DRRF8 | 16.7 gr / 7,500 PSI | 18.1 gr / 8,600 PSI | 19.5 gr / 9,700 PSI | 20.8 gr / 10,700 PSI |
| 1 1/8 oz | IMR Green | Win. 209 | DRV-12 | 16.5 gr / 7,600 PSI | 17.8 gr / 8,700 PSI | 19.1 gr / 9,900 PSI | 20.3 gr / 10,900 PSI |
| | | | | 1200 fps | 1255 fps | 1310 fps | |
| 1 1/8 oz | Universal | Fed. 209A | WAA12 | 21.5 gr / 9,600 PSI | 22.8 gr / 10,700 PSI | 23.6 gr / 11,300 PSI | |
| 1 1/8 oz | Universal | Win. 209 | Rem. Fig. 8 | 22.5 gr / 9,000 PSI | 23.5 gr / 10,000 PSI | 24.5 gr / 10,700 PSI | |
| 1 1/8 oz | Universal | Win. 209 | WAA12 | 22.0 gr / 10,000 PSI | 22.7 gr / 10,600 PSI | - | |
| | | | | 1420 fps | 1475 fps | 1530 fps | 1585 fps |
| 1 1/8 oz | Longshot | Fed. 209A | Fed. 12S3 | 31.1 gr / 10,300 PSI | 32.2 gr / 11,300 PSI | - | - |
| 1 1/8 oz | Longshot | Fed. 209A | WAA12 | 31.0 gr / 9,800 PSI | 32.3 gr / 10,800 PSI | - | - |
| 1 1/8 oz | Longshot | Rem. 209P | WAA12 | 30.8 gr / 9,500 PSI | 32.1 gr / 10,500 PSI | - | - |
| 1 1/8 oz | Longshot | Win. 209 | Hor. Vers. | 32.2 gr / 8,600 PSI | 33.6 gr / 9,500 PSI | 34.9 gr / 10,300 PSI | - |
| 1 1/8 oz | Longshot | Win. 209 | WAA12 | 32.1 gr / 9,200 PSI | 33.2 gr / 10,100 PSI | 34.4 gr / 11,100 PSI | - |
| | | | | 1100 fps | 1150 fps | 1200 fps | 1250 fps |
| 1 1/8 oz | 700-X | Fed. 209A | Rem. FIG. 8 | 15.5 gr / 8,900 PSI | 16.5 gr / 9,600 PSI | 18.0 gr / 10,600 PSI | 19.0 gr / 11,200 PSI |
| 1 1/8 oz | 700-X | Fed. 209A | WAA12 | 15.0 gr / 9,100 PSI | 16.0 gr / 10,000 PSI | 17.5 gr / 11,300 PSI | - |
| 1 1/8 oz | 700-X | Rem. 209P | Rem. FIG. 8 | 16.0 gr / 7,900 PSI | 17.0 gr / 8,400 PSI | 18.5 gr / 9,500 PSI | 19.5 gr / 10,200 PSI |
| 1 1/8 oz | 700-X | Rem. 209P | WAA12 | 15.5 gr / 8,200 PSI | 17.0 gr / 9,000 PSI | 18.5 gr / 9,800 PSI | 20.0 gr / 10,800 PSI |

*Velocity is measured in feet per second (fps).
Pressure is measured in Pounds per Square Inch (PSI).

| SHOT | POWDER | PRIMER | WAD | CHARGE/PRESSURE* | | | |
|---|-----------|-----------|--------------|----------------------|----------------------|----------------------|----------------------|
| 12 GA., 2 3/4", WINCHESTER COMPRESSION-FORMED AA AND HS PLASTIC SHELLS (CONT.) | | | | | | | |
| | | | | 1100 fps | 1150 fps | 1200 fps | 1250 fps |
| 1 1/8 oz | 700-X | Win. 209 | Rem. FIG. 8 | 15.5 gr / 8,300 PSI | 16.5 gr / 9,000 PSI | 18.0 gr / 10,200 PSI | 19.5 gr / 11,400 PSI |
| 1 1/8 oz | 700-X | Win. 209 | WAA12 | 15.5 gr / 9,200 PSI | 16.5 gr / 10,100 PSI | 17.5 gr / 10,800 PSI | - |
| | | | | 1145 fps | 1200 fps | 1255 fps | 1310 fps |
| 1 1/8 oz | Super Hcp | Rem. 209P | Rem. FIG. 8 | 18.1 gr / 7,700 PSI | 19.6 gr / 9,400 PSI | 21.0 gr / 10,900 PSI | - |
| 1 1/8 oz | Super Hcp | Rem. 209P | WAA12 | 18.4 gr / 7,600 PSI | 19.6 gr / 9,100 PSI | 20.8 gr / 10,700 PSI | - |
| 1 1/8 oz | Super Hcp | Win. 209 | DRV-12 | 18.0 gr / 8,500 PSI | 19.4 gr / 9,900 PSI | 20.8 gr / 11,400 PSI | - |
| 1 1/8 oz | Super Hcp | Win. 209 | Rem. FIG. 8 | 18.4 gr / 7,200 PSI | 19.7 gr / 8,800 PSI | 21.0 gr / 10,400 PSI | - |
| 1 1/8 oz | Super Hcp | Win. 209 | WAA12 | 18.1 gr / 8,200 PSI | 19.5 gr / 9,700 PSI | 20.9 gr / 11,300 PSI | - |
| | | | | 1145 fps | 1310 fps | 1365 fps | 1400 fps |
| 1 1/8 oz | WSF | Win. 209 | Fed. 12S3 | - | 27.5 gr / 8,500 PSI | 28.5 gr / 9,500 PSI | 29.5 gr / 10,800 PSI |
| 1 1/8 oz | WSF | Win. 209 | WAA12 | - | 27.5 gr / 8,700 PSI | 29.0 gr / 9,900 PSI | 30.0 gr / 10,600 PSI |
| | | | | 1220 fps | 1225 fps | 1250 fps | |
| 1 1/4 oz | Universal | Fed. 209A | WAA12F114 | 22.6 gr / 11,500 PSI | - | - | |
| 1 1/4 oz | Universal | Rem. 209P | Rem. SP12 | 23.3 gr / 10,600 PSI | - | 24.2 gr / 11,200 PSI | |
| 1 1/4 oz | Universal | Rem. 209P | WAA12F114 | 23.0 gr / 11,500 PSI | - | - | |
| 1 1/4 oz | Universal | Win. 209 | Rem. SP12 | 22.8 gr / 10,700 PSI | - | 23.3 gr / 11,400 PSI | |
| 1 1/4 oz | Universal | Win. 209 | WAA12F114 | 23.0 gr / 10,900 PSI | - | - | |
| | | | | 1220 fps | 1330 fps | | |
| 1 1/4 oz | HS-6 | Win. 209 | WAA12F114 | 30.0 gr / 8,800 LUP | 33.0 gr / 10,500 LUP | | |
| | | | | 1330 fps | 1385 fps | 1440 fps | |
| 1 1/4 oz | Longshot | Fed. 209A | Rem. SP12 | 28.6 gr / 9,400 PSI | 30.0 gr / 10,600 PSI | - | |
| 1 1/4 oz | Longshot | Fed. 209A | WAA12F114 | 27.7 gr / 10,800 PSI | - | - | |
| 1 1/4 oz | Longshot | Rem. 209P | Rem. SP12 | 29.1 gr / 9,400 PSI | 30.9 gr / 9,800 PSI | 32.2 gr / 11,200 PSI | |
| 1 1/4 oz | Longshot | Rem. 209P | WAA12F114 | 27.9 gr / 10,500 PSI | 29.5 gr / 11,300 PSI | - | |
| 1 1/4 oz | Longshot | Win. 209 | Rem. SP12 | 30.0 gr / 8,300 PSI | 31.5 gr / 9,300 PSI | 33.0 gr / 10,400 PSI | |
| 1 1/4 oz | Longshot | Win. 209 | WAA12F114 | 28.7 gr / 9,800 PSI | 30.4 gr / 10,800 PSI | - | |
| | | | | 1220 fps | 1275 fps | 1330 fps | 1385 fps |
| 1 1/4 oz | IMR Blue | Fed. 209A | DRA12 Yellow | 28.5 gr / 9,700 PSI | 30.4 gr / 10,700 PSI | - | |
| 1 1/4 oz | IMR Blue | Fed. 209A | Rem. SP12 | 28.8 gr / 9,100 PSI | 30.6 gr / 10,100 PSI | 32.4 gr / 11,100 PSI | - |
| 1 1/4 oz | IMR Blue | Fed. 209A | WAA12R | 28.5 gr / 8,900 PSI | 30.5 gr / 9,900 PSI | 32.4 gr / 10,800 PSI | - |
| 1 1/4 oz | IMR Blue | Win. 209 | DRA12 Yellow | 29.4 gr / 9,300 PSI | 31.3 gr / 10,100 PSI | - | |
| 1 1/4 oz | IMR Blue | Win. 209 | Rem. SP12 | 29.6 gr / 8,600 PSI | 31.5 gr / 9,600 PSI | 33.4 gr / 10,500 PSI | 35.3 gr / 11,400 PSI |
| 1 1/4 oz | IMR Blue | Win. 209 | WAA12R | 29.6 gr / 8,300 PSI | 31.4 gr / 9,400 PSI | 33.3 gr / 10,400 PSI | 35.1 gr / 11,400 PSI |
| | | | | 1220 fps | 1275 fps | 1330 fps | |
| 1 1/4 oz | WSF | Win. 209 | Fed. 12S4 | 26.0 gr / 9,000 PSI | 27.5 gr / 10,900 PSI | - | |
| 1 1/4 oz | 572 | Fed. 209A | DRA12 YELLOW | 22.6 gr / 10,700 PSI | 24.1 gr / 11,500 PSI | - | |
| 1 1/4 oz | 572 | Fed. 209A | Fed. 12S4 | 22.3 gr / 11,400 PSI | - | - | |
| 1 1/4 oz | 572 | Fed. 209A | Rem. SP12 | 22.8 gr / 10,000 PSI | 24.2 gr / 11,300 PSI | - | |
| 1 1/4 oz | 572 | Rem. 209P | DRA12 YELLOW | 22.5 gr / 10,000 PSI | 23.7 gr / 10,600 PSI | - | |

S HOTSHELL data

*Velocity is measured in feet per second (fps).
Pressure is measured in Pounds per Square Inch (PSI).

| SHOT | POWDER | PRIMER | WAD | CHARGE/PRESSURE* | | |
|---|--------|-----------|-----------|---------------------|----------------------|----------------------|
| 12 GA., 2 3/4", WINCHESTER COMPRESSION-FORMED AA AND HS PLASTIC SHELLS (CONT.) | | | | | | |
| | | | | 1220 fps | 1275 fps | 1330 fps |
| 1 1/4 oz. | 572 | Rem. 209P | Rem. SP12 | 22.6 gr / 9,800 PSI | 24.6 gr / 10,600 PSI | 26.7 gr / 11,500 PSI |
| 1 1/4 oz. | 572 | Win. 209 | Rem. SP12 | 23.4 gr / 8,200 PSI | 25.4 gr / 9,500 PSI | 27.3 gr / 10,800 PSI |

16 GA., 2 3/4", FEDERAL HI POWER PLASTIC PAPER BASE WAD SHELLS

| | | | | 1165 fps | 1220 fps | 1275 fps | 1300 fps |
|-----------|-----------|-----------|------------|---------------------|---------------------|----------------------|----------------------|
| 1 oz. | Universal | CCI 209M | Activ G-28 | 21.5 gr / 7,500 PSI | 22.5 gr / 8,200 PSI | 24.2 gr / 9,000 PSI | |
| 1 oz. | Universal | Fed. 209A | BPG/BP | 21.0 gr / 7,400 PSI | 22.0 gr / 8,200 PSI | 23.5 gr / 9,200 PSI | |
| 1 oz. | Universal | Win. 209 | WAA16 | 20.7 gr / 7,600 PSI | 22.3 gr / 8,200 PSI | 23.5 gr / 8,900 PSI | |
| | | | | 1165 fps | 1220 fps | 1275 fps | 1300 fps |
| 1 oz. | IMR Blue | Fed. 209A | BP/SPTG16 | 25.0 gr / 6,700 PSI | 26.5 gr / 7,400 PSI | 28.0 gr / 8,000 PSI | 28.7 gr / 8,300 PSI |
| 1 oz. | IMR Blue | Fed. 209A | CB 0100-16 | 24.8 gr / 6,800 PSI | 26.3 gr / 7,700 PSI | 27.8 gr / 8,600 PSI | 28.5 gr / 9,000 PSI |
| 1 oz. | IMR Blue | Win. 209 | BP/SPTG16 | 26.0 gr / 6,500 PSI | 27.5 gr / 7,300 PSI | 28.9 gr / 8,000 PSI | 29.6 gr / 8,400 PSI |
| 1 oz. | IMR Blue | Win. 209 | CB 0100-16 | 25.6 gr / 6,700 PSI | 27.1 gr / 7,500 PSI | 28.5 gr / 8,200 PSI | 29.2 gr / 8,600 PSI |
| | | | | 1165 fps | 1220 fps | 1275 fps | 1300 fps |
| 1 oz. | 572 | Fed. 209A | BP/SPTG16 | 19.2 gr / 7,400 PSI | 20.3 gr / 8,200 PSI | 21.4 gr / 9,000 PSI | 22.0 gr / 9,400 PSI |
| 1 oz. | 572 | Fed. 209A | CB 0100-16 | 19.5 gr / 7,500 PSI | 20.9 gr / 8,400 PSI | 22.3 gr / 9,300 PSI | 23.0 gr / 9,700 PSI |
| 1 oz. | 572 | Rem. 209P | BP/SPTG16 | 19.6 gr / 6,800 PSI | 20.9 gr / 7,900 PSI | 22.2 gr / 9,000 PSI | 22.8 gr / 9,500 PSI |
| 1 oz. | 572 | Rem. 209P | CB 0100-16 | 20.1 gr / 7,000 PSI | 21.2 gr / 7,900 PSI | 22.4 gr / 8,900 PSI | 23.0 gr / 9,300 PSI |
| 1 oz. | 572 | Win. 209 | BP/SPTG16 | 20.6 gr / 8,400 PSI | 22.1 gr / 9,400 PSI | 23.8 gr / 10,800 PSI | 24.5 gr / 11,300 PSI |
| 1 oz. | 572 | Win. 209 | CB 0100-16 | 20.3 gr / 7,000 PSI | 21.8 gr / 7,900 PSI | 23.3 gr / 8,700 PSI | 24.0 gr / 9,100 PSI |
| | | | | 1185 fps | 1240 fps | 1295 fps | 1350 fps |
| 1 1/8 oz. | IMR Blue | CCI 209M | BP/SPTG16 | 26.6 gr / 7,800 PSI | 28.3 gr / 8,900 PSI | 30.1 gr / 9,900 PSI | 31.8 gr / 11,000 PSI |
| 1 1/8 oz. | IMR Blue | CCI 209M | CB 0100-16 | 26.3 gr / 8,100 PSI | 28.0 gr / 9,000 PSI | 29.7 gr / 9,800 PSI | 31.4 gr / 10,700 PSI |

16 GA., 2 3/4", FEDERAL HI POWER PLASTIC PAPER BASE WAD SHELLS

| | | | | 1185 fps | 1240 fps | 1295 fps | 1350 fps |
|-----------|----------|-----------|------------|---------------------|---------------------|----------------------|----------------------|
| 1 1/8 oz. | IMR Blue | Fed. 209A | BP/SPTG16 | 26.0 gr / 8,400 PSI | 27.7 gr / 9,300 PSI | 29.5 gr / 10,200 PSI | 31.2 gr / 11,100 PSI |
| 1 1/8 oz. | IMR Blue | Fed. 209A | CB 0100-16 | 25.7 gr / 8,500 PSI | 27.3 gr / 9,500 PSI | 28.8 gr / 10,400 PSI | 30.4 gr / 11,400 PSI |
| 1 1/8 oz. | IMR Blue | Fed. 209A | Rem. SP16 | 25.7 gr / 8,200 PSI | 27.3 gr / 9,100 PSI | 28.9 gr / 10,000 PSI | 30.5 gr / 10,900 PSI |
| 1 1/8 oz. | IMR Blue | Win. 209 | BP/SPTG16 | 26.8 gr / 7,800 PSI | - | 30.1 gr / 9,700 PSI | 31.8 gr / 10,700 PSI |
| 1 1/8 oz. | IMR Blue | Win. 209 | CB 0100-16 | 26.2 gr / 8,400 PSI | 27.9 gr / 9,300 PSI | 29.5 gr / 10,100 PSI | 31.2 gr / 11,000 PSI |
| 1 1/8 oz. | IMR Blue | Win. 209 | Rem. SP16 | 26.5 gr / 7,500 PSI | 28.2 gr / 8,500 PSI | 29.9 gr / 9,600 PSI | 31.6 gr / 10,600 PSI |

16 GA., 2 3/4", REMINGTON SP PLASTIC SHELLS

| | | | | 1150 fps | 1200 fps | 1250 fps | 1300 fps |
|---------|-----------|-----------|-----------|---------------------|---------------------|----------------------|----------------------|
| 7/8 oz. | IMR Green | Rem. 209P | DR 16 | 14.9 gr / 8,500 PSI | 16.0 gr / 9,500 PSI | 17.1 gr / 10,400 PSI | 18.2 gr / 11,400 PSI |
| 7/8 oz. | IMR Green | Win. 209 | DR 16 | 14.7 gr / 8,500 PSI | 15.8 gr / 9,500 PSI | 16.8 gr / 10,500 PSI | 17.9 gr / 11,500 PSI |
| | | | | 1165 fps | 1220 fps | 1275 fps | |
| 1 oz. | Universal | Win. 209 | REM. SP16 | 18.5 gr / 8,800 PSI | 19.8 gr / 9,900 PSI | 20.5 gr / 10,400 PSI | |

| SHOT | POWDER | PRIMER | WAD | CHARGE/PRESSURE* | | |
|--|-----------|-----------|------------|----------------------|----------------------|----------------------|
| 16 GA., 2 3/4", REMINGTON SP PLASTIC SHELLS (CONT.) | | | | | | |
| | | | | 1165 fps | 1220 fps | 1275 fps |
| 1 oz. | Universal | Win. 209 | WAA16 | 18.5 gr / 9,000 PSI | 19.5 gr / 9,900 PSI | 20.5 gr / 10,400 PSI |
| | | | | 1165 fps | 1220 fps | 1275 fps |
| 1 oz. | 572 | Fed. 209A | BP/SPTG16 | 18.3 gr / 8,200 PSI | 19.7 gr / 9,500 PSI | 21.2 gr / 10,700 PSI |
| 1 oz. | 572 | Fed. 209A | CB 0100-16 | 17.4 gr / 8,900 PSI | 18.6 gr / 10,200 PSI | 19.9 gr / 11,400 PSI |
| 1 oz. | 572 | Fed. 209A | Rem. SP16 | 17.6 gr / 8,500 PSI | 19.0 gr / 9,700 PSI | 20.5 gr / 10,900 PSI |
| 1 oz. | 572 | Rem. 209P | BP/SPTG16 | 18.5 gr / 8,200 PSI | 20.0 gr / 9,400 PSI | 21.4 gr / 10,600 PSI |
| 1 oz. | 572 | Rem. 209P | CB 0100-16 | 17.6 gr / 8,200 PSI | 18.9 gr / 9,500 PSI | 20.2 gr / 10,700 PSI |
| 1 oz. | 572 | Rem. 209P | Rem. SP16 | 18.0 gr / 7,600 PSI | 19.4 gr / 8,800 PSI | 20.8 gr / 10,000 PSI |
| 1 oz. | 572 | Win. 209 | BP/SPTG16 | 18.8 gr / 7,800 PSI | 20.3 gr / 9,100 PSI | 21.8 gr / 10,300 PSI |
| 1 oz. | 572 | Win. 209 | CB 0100-16 | 17.6 gr / 8,300 PSI | 19.0 gr / 9,400 PSI | 20.5 gr / 10,500 PSI |
| 1 oz. | 572 | Win. 209 | Rem. SP16 | 18.2 gr / 7,800 PSI | 19.7 gr / 8,900 PSI | 21.1 gr / 10,100 PSI |
| | | | | 1165 fps | 1220 fps | 1275 fps |
| 1 oz. | IMR Blue | Fed. 209A | BP/SPTG16 | 23.0 gr / 8,400 PSI | 24.5 gr / 9,300 PSI | 25.9 gr / 10,300 PSI |
| 1 oz. | IMR Blue | Fed. 209A | CB 0100-16 | 22.7 gr / 9,000 PSI | 24.2 gr / 9,900 PSI | 25.6 gr / 10,800 PSI |
| 1 oz. | IMR Blue | Fed. 209A | Rem. SP16 | 22.5 gr / 8,400 PSI | 23.9 gr / 9,300 PSI | 25.4 gr / 10,200 PSI |
| 1 oz. | IMR Blue | Rem. 209P | BP/SPTG16 | 23.6 gr / 7,900 PSI | 25.1 gr / 8,900 PSI | 26.7 gr / 9,900 PSI |
| 1 oz. | IMR Blue | Rem. 209P | CB 0100-16 | 23.6 gr / 8,400 PSI | 25.0 gr / 9,300 PSI | 26.5 gr / 10,100 PSI |
| 1 oz. | IMR Blue | Rem. 209P | Rem. SP16 | 23.4 gr / 7,800 PSI | 24.9 gr / 8,800 PSI | 26.5 gr / 9,800 PSI |
| 1 oz. | IMR Blue | Win. 209 | BP/SPTG16 | 23.6 gr / 8,200 PSI | 25.1 gr / 9,200 PSI | 26.6 gr / 10,200 PSI |
| 1 oz. | IMR Blue | Win. 209 | CB 0100-16 | 23.3 gr / 8,800 PSI | 24.6 gr / 9,700 PSI | 26.0 gr / 10,500 PSI |
| 1 oz. | IMR Blue | Win. 209 | Rem. SP16 | 23.3 gr / 8,200 PSI | 24.7 gr / 9,100 PSI | 26.2 gr / 9,900 PSI |
| | | | | 1185 fps | 1240 fps | |
| 1 1/8 oz. | IMR Blue | Fed. 209A | BP/SPTG16 | 23.9 gr / 10,500 PSI | 25.3 gr / 11,300 PSI | |
| 1 1/8 oz. | IMR Blue | Fed. 209A | CB 0100-16 | 23.4 gr / 10,700 PSI | - | |
| 1 1/8 oz. | IMR Blue | Fed. 209A | Rem. SP16 | 23.4 gr / 9,900 PSI | 24.8 gr / 11,000 PSI | |
| 1 1/8 oz. | IMR Blue | Rem. 209P | BP/SPTG16 | 24.5 gr / 9,600 PSI | 26.3 gr / 11,000 PSI | |
| 1 1/8 oz. | IMR Blue | Rem. 209P | CB 0100-16 | 24.4 gr / 10,300 PSI | 26.1 gr / 11,000 PSI | |
| 1 1/8 oz. | IMR Blue | Rem. 209P | Rem. SP16 | 24.4 gr / 9,600 PSI | 26.1 gr / 10,700 PSI | |
| 1 1/8 oz. | IMR Blue | Win. 209 | BP/SPTG16 | 24.4 gr / 9,700 PSI | 26.0 gr / 11,400 PSI | |
| 1 1/8 oz. | IMR Blue | Win. 209 | CB 0100-16 | 24.3 gr / 10,500 PSI | 25.6 gr / 11,200 PSI | |
| 1 1/8 oz. | IMR Blue | Win. 209 | Rem. SP16 | 24.3 gr / 9,700 PSI | 25.6 gr / 11,200 PSI | |

16 GA., 2 3/4", WINCHESTER X-PERT PLASTIC SHELLS

| SHOT | POWDER | PRIMER | WAD | CHARGE/PRESSURE* | | |
|---|----------|-----------|------------|---------------------|---------------------|---------------------|
| 16 GA., 2 3/4", WINCHESTER X-PERT PLASTIC SHELLS | | | | | | |
| | | | | 1165 fps | 1220 fps | 1275 fps |
| 1 oz. | IMR Blue | Fed. 209A | BP/SPTG16 | 24.4 gr / 6,900 PSI | 26.0 gr / 7,700 PSI | 27.7 gr / 8,400 PSI |
| 1 oz. | IMR Blue | Fed. 209A | CB 0100-16 | 23.6 gr / 7,300 PSI | 25.2 gr / 8,100 PSI | 26.9 gr / 8,900 PSI |
| 1 oz. | IMR Blue | Fed. 209A | Rem. SP16 | 23.6 gr / 6,600 PSI | 25.2 gr / 7,500 PSI | 26.8 gr / 8,400 PSI |
| 1 oz. | IMR Blue | Win. 209 | BP/SPTG16 | 25.1 gr / 6,600 PSI | 26.7 gr / 7,400 PSI | 28.4 gr / 8,200 PSI |
| 1 oz. | IMR Blue | Win. 209 | CB 0100-16 | 24.7 gr / 7,000 PSI | 26.3 gr / 7,800 PSI | 27.9 gr / 8,600 PSI |



*Velocity is measured in feet per second (fps).
Pressure is measured in Pounds per Square Inch (PSI).

| SHOT | POWDER | PRIMER | WAD | CHARGE/PRESSURE* | | | |
|--|------------|-----------|-------------|----------------------|----------------------|----------------------|----------------------|
| 16 GA., 2 3/4", WINCHESTER X-PERT PLASTIC SHELLS (CONT.) | | | | | | | |
| | | | | 1165 fps | 1220 fps | 1275 fps | 1300 fps |
| 1 oz. | IMR Blue | Win. 209 | Rem. SP16 | 25.0 gr / 6,500 PSI | 26.6 gr / 7,200 PSI | 28.3 gr / 7,900 PSI | 29.0 gr / 8,200 PSI |
| | | | | 1185 fps | 1240 fps | 1295 fps | 1350 fps |
| 1 1/8 oz. | IMR Blue | Fed. 209A | BP/SPTG16 | 25.3 gr / 8,500 PSI | 27.0 gr / 9,400 PSI | 28.6 gr / 10,400 PSI | 30.3 gr / 11,300 PSI |
| 1 1/8 oz. | IMR Blue | Fed. 209A | CB 0100-16 | 25.0 gr / 8,900 PSI | 26.6 gr / 9,700 PSI | 28.2 gr / 10,600 PSI | 29.8 gr / 11,400 PSI |
| 1 1/8 oz. | IMR Blue | Fed. 209A | Rem. SP16 | 25.1 gr / 8,200 PSI | 26.7 gr / 9,200 PSI | 28.3 gr / 10,300 PSI | 29.9 gr / 11,300 PSI |
| 1 1/8 oz. | IMR Blue | Win. 209 | BP/SPTG16 | 26.3 gr / 8,400 PSI | 28.1 gr / 9,100 PSI | 29.8 gr / 9,900 PSI | 31.6 gr / 10,600 PSI |
| 1 1/8 oz. | IMR Blue | Win. 209 | CB 0100-16 | 26.0 gr / 8,600 PSI | 27.6 gr / 9,500 PSI | 29.1 gr / 10,500 PSI | 30.7 gr / 11,400 PSI |
| 1 1/8 oz. | IMR Blue | Win. 209 | Rem. SP16 | 26.2 gr / 7,900 PSI | 28.0 gr / 8,800 PSI | 29.7 gr / 9,800 PSI | 31.5 gr / 10,700 PSI |
| 20 GA., 2 3/4", REMINGTON RXP, PREMIER AND STS PLASTIC SHELLS | | | | | | | |
| | | | | 1150 fps | 1200 fps | | |
| 3/4 oz | Internat'l | Rem. 209P | WAA20 | 12.5 gr / 8,600 PSI | 13.6 gr / 10,600 PSI | | |
| 3/4 oz | Internat'l | Win. 209 | WAA20 | 12.0 gr / 9,000 PSI | 13.2 gr / 10,400 PSI | | |
| | | | | 1100 fps | 1150 fps | | |
| 7/8 oz. Lt. | IMR Green | Ched. 209 | DRV-20 | 13.0 gr / 10,500 PSI | 13.8 gr / 11,200 PSI | | |
| 7/8 oz. Lt. | IMR Green | Ched. 209 | Rem. RXP20 | 12.9 gr / 10,000 PSI | 13.7 gr / 10,900 PSI | | |
| 7/8 oz. Lt. | IMR Green | Rem. 209P | DRV-20 | 13.0 gr / 9,900 PSI | 13.8 gr / 11,100 PSI | | |
| 7/8 oz. Lt. | IMR Green | Rem. 209P | Rem. RXP20 | 13.1 gr / 10,100 PSI | 13.8 gr / 10,700 PSI | | |
| 7/8 oz. Lt. | IMR Green | Win. 209 | DRV-20 | 12.9 gr / 10,400 PSI | 13.6 gr / 11,100 PSI | | |
| 7/8 oz. Lt. | IMR Green | Win. 209 | Rem. RXP20 | 12.8 gr / 10,200 PSI | 13.6 gr / 11,000 PSI | | |
| 7/8 oz. Lt. | Internat'l | Rem. 209P | Rem. RXP20 | 12.9 gr / 9,900 PSI | 13.4 gr / 11,000 PSI | | |
| 7/8 oz. Lt. | Internat'l | Win. 209 | Rem. RXP20 | - | 13.4 gr / 10,900 PSI | | |
| 7/8 oz. Lt. | Universal | Rem. 209P | DRV-20 | 15.0 gr / 9,200 PSI | 15.7 gr / 9,900 PSI | | |
| 7/8 oz. Lt. | Universal | Rem. 209P | Rem. RXP20 | 15.2 gr / 9,100 PSI | 15.6 gr / 9,300 PSI | | |
| 7/8 oz. Lt. | Universal | Rem. 209P | WAA20 | 14.5 gr / 9,700 PSI | - | | |
| 7/8 oz. Lt. | Universal | Win. 209 | DRV-20 | 14.8 gr / 9,500 PSI | 15.3 gr / 10,100 PSI | | |
| 7/8 oz. Lt. | Universal | Win. 209 | Rem. RXP20 | 15.0 gr / 9,300 PSI | 15.5 gr / 9,500 PSI | | |
| 7/8 oz. Lt. | Universal | Win. 209 | WAA20 | 14.5 gr / 9,100 PSI | - | | |
| 7/8 oz. Lt. | Super Hcp | Rem. 209P | WAA20 | 12.4 gr / 10,600 PSI | 12.9 gr / 11,800 PSI | | |
| 7/8 oz. Lt. | Super Hcp | Win. 209 | WAA20 | 12.4 gr / 10,300 PSI | 12.9 gr / 11,400 PSI | | |
| | | | | 1155 fps | 1200 fps | 1225 fps | 1250 fps |
| 7/8 oz | Universal | Fed. 209A | Rem. RXP 20 | - | 15.4 gr / 10,700 PSI | 15.9 gr / 11,300 PSI | - |
| 7/8 oz | Universal | Rem. 209P | Rem. RXP 20 | - | 15.8 gr / 9,900 PSI | 16.7 gr / 10,700 PSI | - |
| 7/8 oz | Universal | Rem. 209P | WAA20F1 | - | 15.6 gr / 10,500 PSI | 16.0 gr / 11,000 PSI | 16.5 gr / 11,200 PSI |
| 7/8 oz | Universal | Win. 209 | Rem. RXP 20 | - | 16.0 gr / 10,400 PSI | 16.7 gr / 11,400 PSI | - |
| | | | | 1250 fps | 1300 fps | 1350 fps | |
| 7/8 oz | Longshot | Fed. 209A | Rem. RXP20 | 17.6 gr / 10,100 PSI | 18.6 gr / 11,200 PSI | - | |
| 7/8 oz | Longshot | Fed. 209A | WAA20 | 17.1 gr / 10,600 PSI | 18.3 gr / 11,700 PSI | - | |
| 7/8 oz | Longshot | Rem. 209P | Rem. RXP20 | 17.6 gr / 9,600 PSI | 18.9 gr / 11,200 PSI | - | |

| SHOT | POWDER | PRIMER | WAD | CHARGE/PRESSURE* | | | |
|--|----------|-----------|------------|----------------------|----------------------|----------------------|----------------------|
| 20 GA., 2 3/4", REMINGTON RXP, PREMIER AND STS PLASTIC SHELLS (CONT.) | | | | | | | |
| | | | | 1250 fps | 1300 fps | 1350 fps | |
| 7/8 oz | Longshot | Rem. 209P | WAA20 | 17.3 gr / 10,300 PSI | 18.5 gr / 11,800 PSI | - | |
| 7/8 oz | Longshot | Win. 209 | Rem. RXP20 | 18.2 gr / 9,100 PSI | 19.4 gr / 10,300 PSI | 20.6 gr / 11,500 PSI | |
| 7/8 oz | Longshot | Win. 209 | WAA20 | 17.9 gr / 9,900 PSI | 19.0 gr / 11,200 PSI | - | |
| | | | | 1150 fps | 1200 fps | 1250 fps | 1300 fps |
| 7/8 oz | WSF | Win. 209 | Fed. 20S1 | - | 17.0 gr / 11,300 PSI | - | - |
| 7/8 oz | WSF | Win. 209 | Rem. RXP20 | - | 17.5 gr / 10,600 PSI | - | - |
| 7/8 oz | WSF | Win. 209 | WAA20 | - | 17.0 gr / 10,500 PSI | - | - |
| 7/8 oz | 572 | Ched. 209 | CB 1078-20 | 15.2 gr / 10,000 PSI | 16.0 gr / 11,000 PSI | 16.9 gr / 12,000 PSI | - |
| 7/8 oz | 572 | Ched. 209 | DRV-20 | 15.4 gr / 9,000 PSI | 16.5 gr / 10,200 PSI | 17.6 gr / 11,300 PSI | - |
| 7/8 oz | 572 | Ched. 209 | Rem. RXP20 | 15.4 gr / 9,000 PSI | 16.4 gr / 10,200 PSI | 17.4 gr / 11,400 PSI | - |
| 7/8 oz | 572 | Fed. 209A | CB 1078-20 | 14.6 gr / 9,700 PSI | 16.2 gr / 11,300 PSI | - | - |
| 7/8 oz | 572 | Fed. 209A | DRV-20 | 14.4 gr / 8,800 PSI | 15.7 gr / 10,000 PSI | 17.0 gr / 11,300 PSI | - |
| 7/8 oz | 572 | Fed. 209A | Rem. RXP20 | 15.2 gr / 9,400 PSI | 16.3 gr / 10,500 PSI | 17.3 gr / 11,500 PSI | - |
| 7/8 oz | 572 | Win. 209 | CB 1078-20 | 15.3 gr / 9,500 PSI | 16.4 gr / 10,500 PSI | 17.4 gr / 11,400 PSI | - |
| 7/8 oz | 572 | Win. 209 | DRV-20 | 15.4 gr / 8,400 PSI | 16.4 gr / 9,600 PSI | 17.4 gr / 10,800 PSI | 18.4 gr / 12,000 PSI |
| 7/8 oz | 572 | Win. 209 | Rem. RXP20 | 15.3 gr / 8,800 PSI | 16.3 gr / 9,900 PSI | 17.3 gr / 11,000 PSI | 18.2 gr / 12,000 PSI |
| | | | | 1165 fps | 1220 fps | | |
| 1 oz | HS-6 | Rem. 209P | Fed. 20S1 | 20.0 gr / 10,900 PSI | - | | |
| 1 oz | HS-6 | Rem. 209P | WAA20F1 | 20.4 gr / 10,900 PSI | 21.6 gr / 11,700 PSI | | |
| 1 oz | HS-6 | Win. 209 | Rem. SP 20 | 20.0 gr / 11,200 PSI | - | | |
| 1 oz | HS-6 | Win. 209 | WAA20F1 | 20.3 gr / 11,200 PSI | - | | |
| 1 oz | Longshot | Rem. 209P | Rem. SP20 | 16.0 gr / 11,100 PSI | - | | |
| 1 oz | Longshot | Rem. 209P | WAA20F1 | 15.9 gr / 10,900 PSI | 17.3 gr / 12,000 PSI | | |
| 1 oz | Longshot | Win. 209 | Rem. SP20 | 16.0 gr / 10,400 PSI | 17.8 gr / 12,000 PSI | | |
| 1 oz | Longshot | Win. 209 | WAA20F1 | 16.3 gr / 9,900 PSI | 18.0 gr / 12,000 PSI | | |
| | | | | 1150 fps | 1200 fps | 1250 fps | |
| 1 oz | IMR Blue | Ched. 209 | BP SG20S | 20.2 gr / 8,900 PSI | 21.5 gr / 9,700 PSI | 22.8 gr / 10,500 PSI | |
| 1 oz | IMR Blue | Ched. 209 | Rem. SP20 | 20.0 gr / 8,600 PSI | 21.3 gr / 9,400 PSI | 22.7 gr / 10,300 PSI | |
| 1 oz | IMR Blue | Fed. 209A | BP SG20S | 19.8 gr / 9,000 PSI | 21.1 gr / 9,800 PSI | 22.5 gr / 10,500 PSI | |
| 1 oz | IMR Blue | Fed. 209A | Rem. SP20 | 19.8 gr / 9,200 PSI | 21.1 gr / 10,000 PSI | 22.4 gr / 10,900 PSI | |
| 1 oz | IMR Blue | Rem. 209P | BP SG20S | 20.3 gr / 8,800 PSI | 21.8 gr / 9,800 PSI | 23.3 gr / 10,800 PSI | |
| 1 oz | IMR Blue | Rem. 209P | Rem. SP20 | 20.5 gr / 9,400 PSI | 21.8 gr / 10,000 PSI | 23.1 gr / 10,600 PSI | |
| 1 oz | IMR Blue | Win. 209 | BP SG20S | 20.5 gr / 8,400 PSI | 21.7 gr / 9,300 PSI | 22.9 gr / 10,200 PSI | |
| 1 oz | IMR Blue | Win. 209 | Rem. SP20 | 20.5 gr / 9,200 PSI | 21.8 gr / 10,000 PSI | 23.0 gr / 10,900 PSI | |
| | | | | 1165 fps | | | |
| 1 oz | 572 | CCI 209 | BP SG20S | 16.0 gr / 12,000 PSI | | | |
| 1 oz | 572 | Ched. 209 | BP SG20S | 16.2 gr / 11,800 PSI | | | |
| 1 oz | 572 | Fed. 209A | BP SG20S | 16.2 gr / 12,000 PSI | | | |
| 1 oz | 572 | Rem. 209P | BP SG20S | 16.0 gr / 11,800 PSI | | | |

S H O T S H E L L d a t a

| SHOT | POWDER | PRIMER | WAD | CHARGE/PRESSURE* |
|--|-----------|-----------|------------|--|
| 20 GA., 2 3/4", REMINGTON RXP, PREMIER AND STS PLASTIC SHELLS (CONT.) | | | | |
| 1165 fps | | | | |
| 1 oz | 572 | Win. 209 | Rem. SP20 | 16.2 gr / 11,500 PSI |
| 20 GA., 2 3/4", WINCHESTER COMPRESSION-FORMED AA AND HS TYPE SHELLS | | | | |
| 1150 fps 1200 fps 1250 fps | | | | |
| 3/4 oz | Internal | Rem. 209P | WAA20 | 12.1 gr / 9,000 PSI 13.2 gr / 10,500 PSI - |
| 3/4 oz | Internal | Win. 209 | WAA20 | 12.0 gr / 10,100 PSI 13.0 gr / 11,700 PSI - |
| 1100 fps 1150 fps | | | | |
| 7/8 oz. Lt. | IMR Green | Ched. 209 | DRV-20 | 13.0 gr / 11,200 PSI 13.8 gr / 12,000 PSI |
| 7/8 oz. Lt. | IMR Green | Ched. 209 | Rem. RXP20 | 12.9 gr / 10,400 PSI 13.7 gr / 11,000 PSI |
| 7/8 oz. Lt. | IMR Green | Win. 209 | DRV-20 | 12.8 gr / 10,800 PSI 13.6 gr / 11,800 PSI |
| 7/8 oz. Lt. | IMR Green | Win. 209 | Rem. RXP20 | 12.7 gr / 10,900 PSI 13.5 gr / 11,500 PSI |
| 7/8 oz Lt. | Universal | Rem. 209P | DRV-20 | 14.8 gr / 9,900 PSI 15.5 gr / 11,500 PSI |
| 7/8 oz Lt. | Universal | Rem. 209P | Rem. RXP20 | 14.7 gr / 9,100 PSI 15.0 gr / 9,700 PSI |
| 7/8 oz Lt. | Universal | Win. 209 | DRV-20 | 14.5 gr / 10,500 PSI 15.0 gr / 11,400 PSI |
| 7/8 oz Lt. | Universal | Win. 209 | Rem. RXP20 | 14.4 gr / 9,600 PSI 14.8 gr / 10,100 PSI |
| 7/8 oz Lt. | Super Hcp | Rem. 209P | WAA20 | 12.3 gr / 11,000 PSI 12.9 gr / 11,900 PSI |
| 7/8 oz Lt. | Super Hcp | Win. 209 | WAA20 | 12.4 gr / 11,000 PSI 12.9 gr / 11,800 PSI |
| 1200 fps | | | | |
| 7/8 oz | Universal | Fed. 209A | Fed. 20S1 | 14.3 gr / 12,000 PSI |
| 7/8 oz | Universal | Fed. 209A | Rem. RXP20 | 14.8 gr / 11,400 PSI |
| 7/8 oz | Universal | Fed. 209A | WAA20F1 | 14.6 gr / 12,000 PSI |
| 7/8 oz | Universal | Rem. 209P | Rem. RXP20 | 15.8 gr / 9,800 PSI |
| 7/8 oz | Universal | Rem. 209P | WAA20F1 | 15.3 gr / 11,600 PSI |
| 7/8 oz | Universal | Win. 209 | Rem. RXP20 | 15.0 gr / 11,000 PSI |
| 7/8 oz | Universal | Win. 209 | WAA20 | 15.5 gr / 10,200 PSI |
| 1250 fps 1300 fps | | | | |
| 7/8 oz | Longshot | Fed. 209A | Fed. 20S1 | 17.5 gr / 11800 PSI - |
| 7/8 oz | Longshot | Rem. 209P | Fed. 20S1 | 17.6 gr / 10800 PSI 18.5 gr / 12000 PSI |
| 7/8 oz | Longshot | Rem. 209P | Rem. RXP20 | 17.7 gr / 10400 PSI 18.7 gr / 11400 PSI |
| 7/8 oz | Longshot | Rem. 209P | WAA20 | 17.2 gr / 11100 PSI 18.4 gr / 11800 PSI |
| 7/8 oz | Longshot | Win. 209 | Rem. RXP20 | 18.4 gr / 9800 PSI 19.3 gr / 10700 PSI |
| 7/8 oz | Longshot | Win. 209 | WAA20 | 17.8 gr / 10600 PSI 18.6 gr / 11700 PSI |
| 1150 fps 1200 fps 1250 fps 1300 fps | | | | |
| 7/8 oz | WSF | Win. 209 | Rem. RXP20 | - 17.0 gr / 10,700 PSI - - |
| 7/8 oz | WSF | Win. 209 | WAA20 | - 16.5 gr / 11,200 PSI - - |
| 7/8 oz | 572 | Ched. 209 | CB 1078-20 | 15.5 gr / 9,100 PSI 16.6 gr / 10,400 PSI 17.6 gr / 11,700 PSI - |
| 7/8 oz | 572 | Ched. 209 | DRV-20 | 15.8 gr / 8,900 PSI 16.9 gr / 9,900 PSI 18.0 gr / 10,900 PSI 19.0 gr / 12,000 PSI |
| 7/8 oz | 572 | Ched. 209 | Rem. RXP20 | 16.0 gr / 8,900 PSI 17.1 gr / 9,900 PSI 18.2 gr / 10,900 PSI 19.3 gr / 11,900 PSI |
| 7/8 oz | 572 | Fed. 209A | CB 1078-20 | 15.6 gr / 10,300 PSI 16.8 gr / 11,200 PSI 18.0 gr / 12,000 PSI - |

*Velocity is measured in feet per second (fps).
Pressure is measured in Pounds per Square Inch (PSI).

| SHOT | POWDER | PRIMER | WAD | CHARGE/PRESSURE* |
|--|-----------|-----------|------------|---|
| 20 GA., 2 3/4", WINCHESTER COMPRESSION-FORMED AA AND HS TYPE SHELLS (CONT.) | | | | |
| 1150 fps 1200 fps 1250 fps 1300 fps | | | | |
| 7/8 oz | 572 | Fed. 209A | DRV-20 | 15.5 gr / 8,800 PSI 16.9 gr / 10,300 PSI 18.3 gr / 11,700 PSI - |
| 7/8 oz | 572 | Fed. 209A | Rem. RXP20 | 15.4 gr / 8,600 PSI 16.9 gr / 9,700 PSI 18.4 gr / 10,800 PSI - |
| 7/8 oz | 572 | Win. 209 | CB 1078-20 | 15.5 gr / 8,100 PSI 16.6 gr / 8,900 PSI 17.7 gr / 9,800 PSI 18.8 gr / 10,700 PSI |
| 7/8 oz | 572 | Win. 209 | DRV-20 | 15.8 gr / 7,500 PSI 16.9 gr / 8,500 PSI 18.0 gr / 9,500 PSI 19.1 gr / 10,400 PSI |
| 7/8 oz | 572 | Win. 209 | Rem. RXP20 | 16.0 gr / 7,200 PSI 17.1 gr / 8,300 PSI 18.1 gr / 9,400 PSI 19.2 gr / 10,400 PSI |
| 1165 fps 1220 fps 1250 fps | | | | |
| 1 oz | HS-6 | Rem. 209P | Rem. SP20 | 19.8 gr / 11,900 PSI - - |
| 1 oz | HS-6 | Rem. 209P | WAA20F1 | 19.5 gr / 11,800 PSI - - |
| 1 oz | HS-6 | Win. 209 | WAA20F1 | 21.5 gr / 10,000 LUP 22.5 gr / 10,900 LUP - |
| 1 oz | HS-6 | Win. 209 | Rem. SP20 | 23.0 gr / 10,100 LUP 24.0 gr / 10,800 LUP - |
| 1 oz | Longshot | Rem. 209P | Rem. SP20 | 16.3 gr / 11,800 PSI - - |
| 1 oz | Longshot | Rem. 209P | WAA20F1 | 15.8 gr / 11,800 PSI - - |
| 1 oz | Longshot | Win. 209 | Rem. SP20 | 16.5 gr / 10,700 PSI 18.1 gr / 12,000 PSI - |
| 1 oz | Longshot | Win. 209 | WAA20F1 | 15.7 gr / 10,900 PSI 17.2 gr / 12,000 PSI - |
| 1165 fps | | | | |
| 1 oz | 572 | CCI 209 | BP SG20S | 16.0 gr / 11,600 PSI |
| 1 oz | 572 | CCI 209 | Rem. SP20 | 16.0 gr / 11,700 PSI |
| 1 oz | 572 | Ched. 209 | BP SG20S | 16.4 gr / 12,000 PSI |
| 1 oz | 572 | Ched. 209 | Rem. SP20 | 16.0 gr / 11,400 PSI |
| 1 oz | 572 | Fed. 209A | BP SG20S | 16.3 gr / 12,000 PSI |
| 1 oz | 572 | Rem. 209P | BP SG20S | 16.2 gr / 11,300 PSI |
| 1 oz | 572 | Rem. 209P | Rem. SP20 | 16.4 gr / 11,800 PSI |
| 1 oz | 572 | Win. 209 | Rem. SP20 | 16.2 gr / 12,000 PSI |
| 1150 fps 1200 fps 1250 fps | | | | |
| 1 oz | IMR Blue | Ched. 209 | BP SG20S | 20.2 gr / 9,800 PSI 21.6 gr / 10,800 PSI 23.0 gr / 11,800 PSI |
| 1 oz | IMR Blue | Ched. 209 | Rem. SP20 | 20.4 gr / 9,600 PSI 21.9 gr / 10,600 PSI 23.4 gr / 11,600 PSI |
| 1 oz | IMR Blue | Fed. 209A | BP SG20S | 19.5 gr / 10,000 PSI 21.0 gr / 11,000 PSI 22.5 gr / 11,900 PSI |
| 1 oz | IMR Blue | Fed. 209A | Rem. SP20 | 20.0 gr / 9,900 PSI 21.4 gr / 10,900 PSI 22.7 gr / 11,800 PSI |
| 1 oz | IMR Blue | Rem. 209P | BP SG20S | 20.2 gr / 10,100 PSI 21.6 gr / 11,000 PSI 23.0 gr / 11,900 PSI |
| 1 oz | IMR Blue | Rem. 209P | Rem. SP20 | 20.6 gr / 9,800 PSI 21.9 gr / 10,800 PSI 23.2 gr / 11,700 PSI |
| 1 oz | IMR Blue | Win. 209 | BP SG20S | 20.0 gr / 9,200 PSI 21.4 gr / 10,000 PSI 22.9 gr / 10,900 PSI |
| 1 oz | IMR Blue | Win. 209 | Rem. SP20 | 20.0 gr / 9,000 PSI 21.3 gr / 9,800 PSI 22.6 gr / 10,600 PSI |
| 28 GA., 2 3/4", REMINGTON STS PLASTIC SHELLS | | | | |
| 1200 fps | | | | |
| 3/4 oz | Universal | Fed. 209A | WAA28 | 13.5 gr / 12,200 PSI |
| 3/4 oz | Universal | Rem. 209P | PC28 | 13.6 gr / 12,000 PSI |
| 3/4 oz | Universal | Rem. 209P | Rem. PT28 | 13.8 gr / 12,000 PSI |

SHELL data

| SHOT | POWDER | PRIMER | WAD | CHARGE/PRESSURE* | | | | | | | |
|---|-----------|-----------|---------------|----------------------|----------------------|----------------------|----------------------|--|--|--|--|
| 28 GA., 2 3/4", REMINGTON STS PLASTIC SHELLS (CONT.) | | | | | | | | | | | |
| 1200 fps | | | | | | | | | | | |
| 3/4 oz | Universal | Rem. 209P | WAA28 | 13.9 gr / 11,700 PSI | | | | | | | |
| 3/4 oz | Universal | Win. 209 | PC28 | 13.5 gr / 12,400 PSI | | | | | | | |
| 3/4 oz | Universal | Win. 209 | Rem. PT28 | 13.8 gr / 12,100 PSI | | | | | | | |
| 3/4 oz | Universal | Win. 209 | WAA28 | 13.8 gr / 11,500 PSI | | | | | | | |
| 3/4 oz | HS-6 | Fed. 209A | Rem. PT28 | 16.7 gr / 11,700 PSI | | | | | | | |
| 3/4 oz | HS-6 | Rem. 209P | Rem. PT28 | 17.1 gr / 11,000 PSI | | | | | | | |
| 3/4 oz | HS-6 | Rem. 209P | WAA28 | 17.1 gr / 10,400 PSI | | | | | | | |
| 3/4 oz | HS-6 | Win. 209 | Rem. PT28 | 17.0 gr / 11,500 PSI | | | | | | | |
| 3/4 oz | HS-6 | Win. 209 | WAA28 | 17.0 gr / 10,700 PSI | | | | | | | |
| 1225 fps | | | | | | | | | | | |
| 3/4 oz | Longshot | Rem. 209P | PC28 | 14.5 gr / 11,200 PSI | 15.0 gr / 11,800 PSI | 15.5 gr / 12,300 PSI | - | | | | |
| 3/4 oz | Longshot | Rem. 209P | Rem. PT28 | 14.3 gr / 11,300 PSI | 14.9 gr / 12,000 PSI | 15.4 gr / 12,500 PSI | - | | | | |
| 3/4 oz | Longshot | Rem. 209P | WAA28 | 14.3 gr / 11,000 PSI | 14.8 gr / 11,600 PSI | 15.2 gr / 12,000 PSI | 15.6 gr / 12,400 PSI | | | | |
| 3/4 oz | Longshot | Win. 209 | PC28 | 14.9 gr / 10,900 PSI | 15.4 gr / 11,600 PSI | 15.8 gr / 12,100 PSI | - | | | | |
| 3/4 oz | Longshot | Win. 209 | Rem. PT28 | 14.7 gr / 10,900 PSI | 15.3 gr / 11,300 PSI | 15.9 gr / 11,900 PSI | 16.4 gr / 12,300 PSI | | | | |
| 3/4 oz | Longshot | Win. 209 | WAA28 | 14.5 gr / 10,700 PSI | 15.1 gr / 11,200 PSI | 15.6 gr / 11,600 PSI | 16.2 gr / 12,200 PSI | | | | |
| 1150 fps | | | | | | | | | | | |
| 3/4 oz | 572 | Ched. 209 | BP SG 28 | 12.8 gr / 11,200 PSI | 13.8 gr / 12,200 PSI | | | | | | |
| 3/4 oz | 572 | Ched. 209 | Fed. 28S1 | 12.0 gr / 11,600 PSI | - | | | | | | |
| 3/4 oz | 572 | Ched. 209 | PC28 | 12.7 gr / 10,800 PSI | 13.8 gr / 12,300 PSI | | | | | | |
| 3/4 oz | 572 | Ched. 209 | Red Duster | 12.3 gr / 10,200 PSI | 13.5 gr / 12,200 PSI | | | | | | |
| 3/4 oz | 572 | Ched. 209 | Rem. PT28 | 12.6 gr / 10,700 PSI | 13.6 gr / 11,800 PSI | | | | | | |
| 3/4 oz | 572 | Fed. 209A | BP SG 28 | 12.5 gr / 11,400 PSI | - | | | | | | |
| 3/4 oz | 572 | Fed. 209A | Fed. 28S1 | 12.1 gr / 12,100 PSI | - | | | | | | |
| 3/4 oz | 572 | Fed. 209A | PC28 | 12.5 gr / 11,400 PSI | - | | | | | | |
| 3/4 oz | 572 | Fed. 209A | Red Duster | 12.3 gr / 10,800 PSI | 13.4 gr / 12,300 PSI | | | | | | |
| 3/4 oz | 572 | Fed. 209A | Rem. PT28 | 12.5 gr / 10,900 PSI | 13.5 gr / 12,300 PSI | | | | | | |
| 3/4 oz | 572 | Rem. 209P | BP SG 28 | 12.7 gr / 10,900 PSI | 13.8 gr / 12,300 PSI | | | | | | |
| 3/4 oz | 572 | Rem. 209P | Fed. 28S1 | 12.2 gr / 11,200 PSI | 13.0 gr / 12,500 PSI | | | | | | |
| 3/4 oz | 572 | Rem. 209P | PC28 | 12.3 gr / 10,600 PSI | 13.5 gr / 11,900 PSI | | | | | | |
| 3/4 oz | 572 | Rem. 209P | Red Duster | 12.5 gr / 10,000 PSI | 13.7 gr / 12,000 PSI | | | | | | |
| 3/4 oz | 572 | Rem. 209P | Rem. PT28 | 12.3 gr / 10,400 PSI | 13.4 gr / 11,900 PSI | | | | | | |
| 3/4 oz | 572 | Win. 209 | BP SG 28 | 12.8 gr / 10,800 PSI | 13.9 gr / 12,500 PSI | | | | | | |
| 3/4 oz | 572 | Win. 209 | Fed. 28S1 | 12.0 gr / 11,100 PSI | 13.0 gr / 12,500 PSI | | | | | | |
| 3/4 oz | 572 | Win. 209 | PC28 | 12.3 gr / 10,500 PSI | 13.6 gr / 11,900 PSI | | | | | | |
| 3/4 oz | 572 | Win. 209 | Red Duster | 12.6 gr / 10,500 PSI | 13.7 gr / 11,400 PSI | | | | | | |
| 3/4 oz | 572 | Win. 209 | Rem. PT28 | 12.5 gr / 10,500 PSI | 13.5 gr / 11,700 PSI | | | | | | |
| 1150 fps | | | | | | | | | | | |
| 3/4 oz | IMR Blue | Ched. 209 | DR Red Duster | 17.1 gr / 9,600 PSI | 18.1 gr / 10,500 PSI | 19.0 gr / 11,500 PSI | 20.0 gr / 12,400 PSI | | | | |

*Velocity is measured in feet per second (fps).
Pressure is measured in Pounds per Square Inch (PSI).

| SHOT | POWDER | PRIMER | WAD | CHARGE/PRESSURE* | | | | | | | |
|--|-----------|-----------|---------------|----------------------|----------------------|----------------------|----------------------|--|--|--|--|
| 28 GA., 2 3/4", REMINGTON STS PLASTIC SHELLS (CONT.) | | | | | | | | | | | |
| 1150 fps | | | | | | | | | | | |
| 3/4 oz | IMR Blue | Ched. 209 | Fed. 28S1 | 17.4 gr / 10,300 PSI | 18.5 gr / 11,100 PSI | 19.6 gr / 11,900 PSI | - | | | | |
| 3/4 oz | IMR Blue | Ched. 209 | PC28 | 17.4 gr / 10,100 PSI | 18.4 gr / 11,000 PSI | 19.5 gr / 12,000 PSI | - | | | | |
| 3/4 oz | IMR Blue | Ched. 209 | Rem. PT28 | 16.7 gr / 9,600 PSI | 17.8 gr / 10,500 PSI | 18.9 gr / 11,300 PSI | 20.0 gr / 12,200 PSI | | | | |
| 3/4 oz | IMR Blue | Fed. 209A | DR Red Duster | 16.2 gr / 10,100 PSI | 17.4 gr / 11,100 PSI | 18.6 gr / 12,200 PSI | - | | | | |
| 3/4 oz | IMR Blue | Fed. 209A | Fed. 28S1 | 16.5 gr / 10,600 PSI | 17.5 gr / 11,800 PSI | - | - | | | | |
| 3/4 oz | IMR Blue | Fed. 209A | PC28 | 16.5 gr / 10,500 PSI | 17.6 gr / 11,900 PSI | - | - | | | | |
| 3/4 oz | IMR Blue | Fed. 209A | Rem. PT28 | 16.5 gr / 10,200 PSI | 17.5 gr / 11,200 PSI | 18.5 gr / 12,300 PSI | - | | | | |
| 3/4 oz | IMR Blue | Rem. 209P | DR Red Duster | 17.3 gr / 10,000 PSI | 18.4 gr / 10,900 PSI | 19.5 gr / 11,800 PSI | - | | | | |
| 3/4 oz | IMR Blue | Rem. 209P | Fed. 28S1 | 16.9 gr / 10,800 PSI | 18.0 gr / 11,600 PSI | 19.1 gr / 12,500 PSI | - | | | | |
| 3/4 oz | IMR Blue | Rem. 209P | PC28 | 17.2 gr / 10,200 PSI | 18.3 gr / 11,200 PSI | 19.4 gr / 12,200 PSI | - | | | | |
| 3/4 oz | IMR Blue | Rem. 209P | Rem. PT28 | 17.2 gr / 10,100 PSI | 18.3 gr / 10,800 PSI | 19.4 gr / 11,600 PSI | 20.5 gr / 12,300 PSI | | | | |
| 3/4 oz | IMR Blue | Win. 209 | DR Red Duster | 17.0 gr / 10,200 PSI | 18.2 gr / 11,000 PSI | 19.4 gr / 11,900 PSI | - | | | | |
| 3/4 oz | IMR Blue | Win. 209 | Fed. 28S1 | 16.9 gr / 11,100 PSI | 17.9 gr / 12,000 PSI | - | - | | | | |
| 3/4 oz | IMR Blue | Win. 209 | PC28 | 17.1 gr / 10,400 PSI | 18.3 gr / 11,400 PSI | 19.5 gr / 12,400 PSI | - | | | | |
| 3/4 oz | IMR Blue | Win. 209 | Rem. PT28 | 16.8 gr / 9,600 PSI | 17.9 gr / 10,500 PSI | 18.9 gr / 11,300 PSI | 20.0 gr / 12,200 PSI | | | | |
| 28 GA., 2 3/4", WINCHESTER AA, HS AND SUPER-X HS PLASTIC SHELLS | | | | | | | | | | | |
| 1200 fps | | | | | | | | | | | |
| 3/4 oz | Universal | Rem. 209P | Fed. 28S1 | 13.8 gr / 11,600 PSI | 14.5 / 12,000 PSI | | | | | | |
| 3/4 oz | Universal | Rem. 209P | Rem. PT28 | 14.5 gr / 10,500 PSI | - | | | | | | |
| 3/4 oz | Universal | Rem. 209P | WAA28HS | 14.0 gr / 11,300 PSI | - | | | | | | |
| 3/4 oz | Universal | Win. 209 | Fed. 28S1 | 14.1 gr / 11,500 PSI | - | | | | | | |
| 3/4 oz | Universal | Win. 209 | Rem. PT28 | 14.3 gr / 10,700 PSI | 14.7 / 11,300 PSI | | | | | | |
| 3/4 oz | Universal | Win. 209 | WAA28HS | 14.1 gr / 12,200 PSI | - | | | | | | |
| 1225 fps | | | | | | | | | | | |
| 3/4 oz | HS-6 | Fed. 209A | WAA28HS | 17.5 gr / 11,000 PSI | | | | | | | |
| 3/4 oz | HS-6 | Rem. 209P | WAA28HS | 18.0 gr / 10,600 PSI | | | | | | | |
| 3/4 oz | HS-6 | Win. 209 | WAA28HS | 18.0 gr / 10,600 PSI | | | | | | | |
| 1200 fps | | | | | | | | | | | |
| 3/4 oz | Longshot | Fed. 209A | Fed. 28S1 | 14.1 gr / 10,000 PSI | 14.6 gr / 10,900 PSI | 15.0 gr / 11,000 PSI | - | | | | |
| 3/4 oz | Longshot | Fed. 209A | WAA28HS | 13.9 gr / 10,500 PSI | 14.4 gr / 11,200 PSI | 14.9 gr / 12,000 PSI | - | | | | |
| 3/4 oz | Longshot | Rem. 209P | Fed. 28S1 | 14.4 gr / 9,500 PSI | 14.9 gr / 10,200 PSI | 15.4 gr / 10,800 PSI | 15.9 gr / 11,400 PSI | | | | |
| 3/4 oz | Longshot | Rem. 209P | Rem. PT28 | 14.7 gr / 8,700 PSI | 15.1 gr / 9,400 PSI | 15.6 gr / 10,200 PSI | 16.0 gr / 10,800 PSI | | | | |
| 3/4 oz | Longshot | Rem. 209P | WAA28HS | 14.5 gr / 9,900 PSI | 14.9 gr / 10,600 PSI | 15.4 gr / 11,400 PSI | - | | | | |
| 3/4 oz | Longshot | Win. 209 | Fed. 28S1 | 14.5 gr / 9,500 PSI | 14.9 gr / 10,100 PSI | 15.3 gr / 10,700 PSI | 15.7 gr / 11,200 PSI | | | | |
| 3/4 oz | Longshot | Win. 209 | Rem. PT28 | 14.6 gr / 8,900 PSI | 15.1 gr / 9,600 PSI | 15.6 gr / 10,300 PSI | 16.0 gr / 10,800 PSI | | | | |
| 3/4 oz | Longshot | Win. 209 | WAA28HS | 14.6 gr / 9,800 PSI | 14.9 gr / 10,100 PSI | 15.5 gr / 11,100 PSI | - | | | | |
| 1150 fps | | | | | | | | | | | |
| 3/4 oz | 572 | Ched. 209 | BP SG 28 | 12.8 gr / 9,000 PSI | 14.6 gr / 11,800 PSI | - | | | | | |

SHOT SHELL data

| SHOT | POWDER | PRIMER | WAD | CHARGE/PRESSURE* | | |
|--|----------|-----------|--------------|----------------------|----------------------|----------------------|
| 28 GA., 2 3/4", WINCHESTER AA, HS AND SUPER-X HS PLASTIC SHELLS (CONT.) | | | | | | |
| | | | | 1150 fps | | 1200 fps |
| 3/4 oz | 572 | Ched. 209 | CB 5034-28HS | 12.8 gr / 9,000 PSI | 13.9 gr / 10,600 PSI | 15.0 gr / 12,200 PSI |
| 3/4 oz | 572 | Ched. 209 | Fed. 28S1 | 12.7 gr / 9,600 PSI | 13.7 gr / 11,500 PSI | - |
| 3/4 oz | 572 | Ched. 209 | PC28 | 13.0 gr / 9,100 PSI | 14.0 gr / 10,400 PSI | 15.0 gr / 11,700 PSI |
| 3/4 oz | 572 | Ched. 209 | Rem. PT28 | 13.1 gr / 8,900 PSI | 13.9 gr / 10,300 PSI | 14.7 gr / 11,700 PSI |
| 3/4 oz | 572 | Fed. 209A | BP SG 28 | 12.8 gr / 10,400 PSI | 14.0 gr / 11,700 PSI | - |
| 3/4 oz | 572 | Fed. 209A | CB 5034-28HS | 12.4 gr / 9,500 PSI | 13.4 gr / 10,800 PSI | 14.5 gr / 12,200 PSI |
| 3/4 oz | 572 | Fed. 209A | Fed. 28S1 | 12.4 gr / 10,100 PSI | 13.4 gr / 11,400 PSI | - |
| 3/4 oz | 572 | Fed. 209A | PC28 | 12.6 gr / 9,200 PSI | 13.7 gr / 10,600 PSI | 14.8 gr / 12,000 PSI |
| 3/4 oz | 572 | Fed. 209A | Rem. PT28 | 12.6 gr / 9,200 PSI | 13.4 gr / 10,600 PSI | 14.3 gr / 12,000 PSI |
| 3/4 oz | 572 | Rem. 209P | BP SG 28 | 13.0 gr / 9,700 PSI | 14.0 gr / 11,700 PSI | - |
| 3/4 oz | 572 | Rem. 209P | CB 5034-28HS | 12.7 gr / 8,500 PSI | 13.7 gr / 10,100 PSI | 14.8 gr / 11,800 PSI |
| 3/4 oz | 572 | Rem. 209P | Fed. 28S1 | 12.6 gr / 9,700 PSI | 13.6 gr / 11,400 PSI | - |
| 3/4 oz | 572 | Rem. 209P | PC28 | 12.9 gr / 9,800 PSI | 14.0 gr / 10,800 PSI | 15.2 gr / 11,800 PSI |
| 3/4 oz | 572 | Rem. 209P | Rem. PT28 | 13.0 gr / 8,500 PSI | 13.8 gr / 10,100 PSI | 14.6 gr / 11,800 PSI |
| | | | | 1150 fps | | 1200 fps |
| 3/4 oz. | IMR Blue | Ched. 209 | Fed. 28S1 | 17.4 gr / 10,300 PSI | 18.5 gr / 11,200 PSI | 19.6 gr / 12,200 PSI |
| 3/4 oz. | IMR Blue | Ched. 209 | PC28 | 18.1 gr / 9,900 PSI | 19.2 gr / 10,800 PSI | - |
| 3/4 oz. | IMR Blue | Ched. 209 | Rem. PT28 | 17.5 gr / 9,600 PSI | 18.5 gr / 10,400 PSI | 19.5 gr / 11,100 PSI |
| 3/4 oz. | IMR Blue | Ched. 209 | WAA28HS | 18.0 gr / 10,000 PSI | 19.1 gr / 11,000 PSI | 20.2 gr / 12,100 PSI |
| 3/4 oz. | IMR Blue | Fed. 209A | Fed. 28S1 | 16.8 gr / 10,500 PSI | 18.0 gr / 11,500 PSI | 19.2 gr / 12,500 PSI |
| 3/4 oz. | IMR Blue | Fed. 209A | PC28 | 17.2 gr / 10,500 PSI | 18.4 gr / 11,400 PSI | 19.7 gr / 12,300 PSI |
| 3/4 oz. | IMR Blue | Fed. 209A | Rem. PT28 | 16.6 gr / 9,800 PSI | 17.7 gr / 10,700 PSI | 18.9 gr / 11,600 PSI |
| 3/4 oz. | IMR Blue | Fed. 209A | WAA28HS | 17.1 gr / 10,300 PSI | 18.2 gr / 11,400 PSI | 19.3 gr / 12,400 PSI |
| 3/4 oz. | IMR Blue | Rem. 209P | Fed. 28S1 | 17.2 gr / 10,100 PSI | 18.3 gr / 11,200 PSI | 19.4 gr / 12,400 PSI |
| 3/4 oz. | IMR Blue | Rem. 209P | PC28 | 17.9 gr / 9,800 PSI | 19.0 gr / 10,800 PSI | 20.1 gr / 11,900 PSI |
| 3/4 oz. | IMR Blue | Rem. 209P | Rem. PT28 | 17.5 gr / 9,600 PSI | 18.5 gr / 10,300 PSI | 19.5 gr / 10,900 PSI |
| 3/4 oz. | IMR Blue | Rem. 209P | WAA28HS | 18.0 gr / 10,000 PSI | 19.0 gr / 10,800 PSI | 20.0 gr / 11,700 PSI |
| 3/4 oz. | IMR Blue | Win. 209 | Fed. 28S1 | 17.1 gr / 10,100 PSI | 18.3 gr / 11,200 PSI | 19.5 gr / 12,300 PSI |
| 3/4 oz. | IMR Blue | Win. 209 | PC28 | 17.9 gr / 9,600 PSI | 19. gr / 10,800 PSI | 20.1 gr / 12,000 PSI |
| 3/4 oz. | IMR Blue | Win. 209 | Rem. PT28 | 17.1 gr / 9,300 PSI | 18.2 gr / 10,200 PSI | 19.3 gr / 11,100 PSI |
| 3/4 oz. | IMR Blue | Win. 209 | WAA28HS | 17.8 gr / 9,800 PSI | 18.9 gr / 10,700 PSI | 19.9 gr / 11,500 PSI |
| | | | | 1150 fps | | 1200 fps |
| 3/4 oz | 572 | Win. 209 | BP SG 28 | 13.4 gr / 9,000 PSI | 14.4 gr / 10,400 PSI | 15.4 gr / 11,800 PSI |
| 3/4 oz | 572 | Win. 209 | CB 5034-28HS | 12.8 gr / 9,000 PSI | 13.8 gr / 10,300 PSI | 14.8 gr / 11,700 PSI |
| 3/4 oz | 572 | Win. 209 | Fed. 28S1 | 12.5 gr / 8,700 PSI | 13.7 gr / 11,700 PSI | - |
| 3/4 oz | 572 | Win. 209 | PC28 | 13.4 gr / 9,600 PSI | 14.3 gr / 10,600 PSI | 15.3 gr / 11,700 PSI |
| 3/4 oz | 572 | Win. 209 | Rem. PT28 | 13.2 gr / 8,600 PSI | 13.9 gr / 10,100 PSI | 14.7 gr / 11,600 PSI |

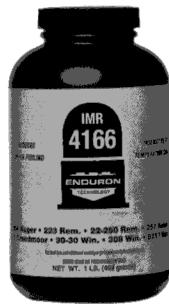
*Velocity is measured in feet per second (fps).
Pressure is measured in Pounds per Square Inch (PSI).

| SHOT | POWDER | PRIMER | WAD | CHARGE/PRESSURE* | | |
|--|---------|-----------|------------|----------------------|----------------------|----------------------|
| 410 BORE, 2 1/2", REMINGTON-PETERS STS PLASTIC SHELLS | | | | | | |
| | | | | 1200 fps | | |
| 1/2 oz | Lil'Gun | Fed. 209A | Rem. SP410 | 12.9 gr / 10,900 PSI | | |
| 1/2 oz | Lil'Gun | Rem. 209P | Fed. 410SC | 13.0 gr / 11,000 PSI | | |
| 1/2 oz | Lil'Gun | Rem. 209P | Orange PC | 13.3 gr / 10,400 PSI | | |
| 1/2 oz | Lil'Gun | Rem. 209P | Rem. SP410 | 13.2 gr / 10,800 PSI | | |
| 1/2 oz | Lil'Gun | Rem. 209P | WAA41 | 13.0 gr / 10,600 PSI | | |
| 1/2 oz | Lil'Gun | Win. 209 | Fed. 410SC | 12.6 gr / 11,800 PSI | | |
| 1/2 oz | Lil'Gun | Win. 209 | Orange PC | 12.9 gr / 11,100 PSI | | |
| 1/2 oz | Lil'Gun | Win. 209 | Rem. SP410 | 12.6 gr / 11,600 PSI | | |
| 1/2 oz | Lil'Gun | Win. 209 | WAA41 | 12.9 gr / 11,500 PSI | | |
| 1/2 oz | H110 | Fed. 209A | Fed. 410SC | 14.2 gr / 10,600 PSI | | |
| 1/2 oz | H110 | Rem. 209P | Fed. 410SC | 14.7 gr / 9,600 PSI | | |
| 1/2 oz | H110 | Rem. 209P | Orange PC | 15.2 gr / 9,300 PSI | | |
| 1/2 oz | H110 | Rem. 209P | Rem. SP410 | 14.8 gr / 8,900 PSI | | |
| 1/2 oz | H110 | Win. 209 | WAA41 | 14.0 gr / 10,000 PSI | | |
| 410 BORE, 2 1/2", WINCHESTER AA AND HS PLASTIC SHELLS | | | | | | |
| | | | | 1200 fps | | 1250 fps |
| 1/2 oz | Lil'Gun | Fed. 209A | Fed. 410SC | 13.3 gr / 11,900 PSI | - | - |
| 410 BORE, 2 1/2", WINCHESTER AA AND HS PLASTIC SHELLS (CONT.) | | | | | | |
| | | | | 1200 fps | | 1250 fps |
| 1/2 oz | Lil'Gun | Fed. 209A | Rem. SP410 | 13.3 gr / 11,600 PSI | - | - |
| 1/2 oz | Lil'Gun | Fed. 209A | WAA41HS | 13.7 gr / 11,900 PSI | - | - |
| 1/2 oz | Lil'Gun | Rem. 209P | Orange PC | 13.3 gr / 10,600 PSI | - | - |
| 1/2 oz | Lil'Gun | Rem. 209P | Rem. SP410 | 13.5 gr / 11,200 PSI | - | - |
| 1/2 oz | Lil'Gun | Rem. 209P | WAA41HS | 13.8 gr / 11,600 PSI | - | - |
| 1/2 oz | Lil'Gun | Win. 209 | Orange PC | 13.3 gr / 10,900 PSI | - | - |
| 1/2 oz | Lil'Gun | Win. 209 | Rem. SP410 | 13.3 gr / 11,100 PSI | - | - |
| 1/2 oz | Lil'Gun | Win. 209 | WAA41HS | 13.5 gr / 11,700 PSI | - | - |
| 1/2 oz | H110 | Fed. 209A | Rem. SP410 | 14.6 gr / 8,600 PSI | 15.3 gr / 9,400 PSI | 16.3 gr / 10,400 PSI |
| 1/2 oz | H110 | Fed. 209A | WAA41HS | 14.6 gr / 9,600 PSI | 15.3 gr / 10,200 PSI | 16.5 gr / 10,800 PSI |
| 1/2 oz | H110 | Rem. 209P | Rem. SP410 | 16.0 gr / 6,900 PSI | 16.5 gr / 8,400 PSI | 17.4 gr / 9,300 PSI |
| 1/2 oz | H110 | Rem. 209P | WAA41HS | 16.0 gr / 7,400 PSI | 16.5 gr / 9,000 PSI | 17.6 gr / 9,900 PSI |
| 1/2 oz | H110 | Win. 209 | Orange PC | 15.5 gr / 8,100 PSI | 16.1 gr / 8,600 PSI | 17.0 gr / 9,800 PSI |
| 1/2 oz | H110 | Win. 209 | Rem. SP410 | 15.0 gr / 8,300 PSI | 15.5 gr / 9,200 PSI | 16.7 gr / 10,100 PSI |
| 1/2 oz | H110 | Win. 209 | WAA41HS | 15.3 gr / 8,900 PSI | 16.3 gr / 9,300 PSI | 16.7 gr / 10,400 PSI |
| 1/2 oz | 296 | Win. 209 | WAA41HS | 15.3 gr / 8,900 PSI | - | - |



LEGENDARY POWDERS

Enduron 4166 Enduron 4451 Enduron 4955 Enduron 7977 Enduron 8133



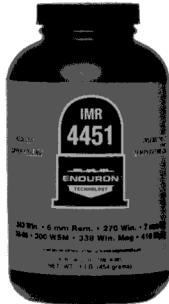
Perfect burn speed for cartridges like:

- 308 Win
- 7.62mm NATO
- 22-250 Rem
- 257 Roberts

Fastest burn rate in the Enduron lineup

Performs comparably to Hodgdon Varget

Available in 1-LB and 8-LB containers



Top burn-rate performance in cartridges like:

- 6mm, 6.5mm Creedmoor
- 30-06
- 270 Win

Ideally suited for mid-range burn speed cartridges

Performs comparably to Hodgdon H4350

Available in 1-LB and 8-LB containers



Top performer with cartridges like:

- 25-06
- 270 Win
- 280 Rem
- 300 Win Mag

Perfect for big game cartridges

Performs comparably to Hodgdon H4831

Available in 1-LB and 8-LB containers

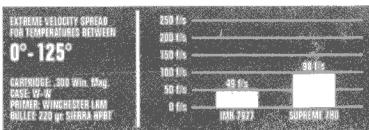


True magnum propellant yielding outstanding performance in:

- 300 Win Mag
- 7mm Rem Mag
- 338 Lapua

Loading density perfect for magnums, contributing to superb uniformity

Performs comparably to Hodgdon H1000

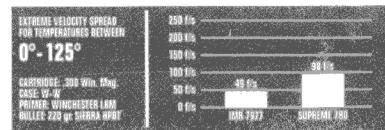
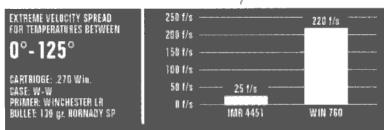
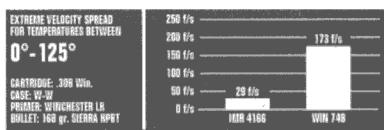
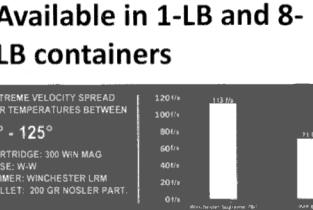


True magnum propellant yielding outstanding performance in:

- 6.5-300 Weatherby
- 264 Win Mag
- 28 Nosler
- 300 Rem Ultra Mag

Slowest burn rate Enduron® Technology powder

Performs comparably to Hodgdon Retumbo





LEGENDARY POWDERS

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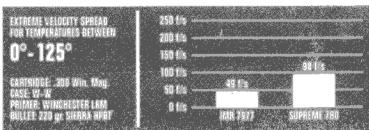


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