



HODGDON®



LEGENDARY POWDERS



WINCHESTER

# 2019 BASIC RELOADING MANUAL



WINCHESTER  
**Primers**  
FOR SHOTSHELLS  
W209

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For a complete listing of all our data go to [www.hodgdon.com](http://www.hodgdon.com)  
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SMOKELESS PROPELLANT  
Clean, Slow Burning Powder for Target loads in 28 gauge and 20 gauge. Also fits a wide range of Handgun calibers.  
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**WINCHESTER**<sup>®</sup>  
**SMOKELESS PROPELLANTS**  
FOR LOADING PROFESSIONALS  
**WINCLEAN**<sup>®</sup>



## Winchester<sup>®</sup> WinClean<sup>®</sup> 244<sup>™</sup>

New handgun ball 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 powder a perfect choice for any pistol cartridge handloader.

- Reduces copper fouling and residue, extending accuracy for longer shooting periods.
- Consistent and clean burning, making clean up quick and easy.
- Precise metering, ensuring consistent handloads, time-after-time.

Available in 1-LB, 4-LB & 8-LB Canisters

# Three Powder Reloading Manuals in One

Reloading data from THREE – Hodgdon®, IMR® and Winchester® Smokeless Propellants – powder brands is 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](http://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

For 2019, our cover features the perfect group of 28 gauge reloading powders, Universal®, Longshot® and Winchester 572™, filling the small bore shooter's needs from clay target to upland bird hunting . The greatest savings in reloading shotshell cartridges comes when loading the small bore shotshells. It is no trick to load these premium rounds for a third the cost of factory ammunition, at the same time, producing ideal patterns with your favorite smoothbore!

On the cover we show a fine MEC 28 gauge Grabber Loader, using Winchester HS cases, Winchester 209 primers, Downrange Blue PC 28 wads, Longshot® Powder and Magnum #8 shot, for the ideal clay target/quail/woodcock combination. The shotgun is a custom stocked, "baby frame", Beretta, 687 EL Gold, O/U, in 28 gauge.





## 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 1-1/18 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 choices 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

▶ *Extreme Powders*

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.

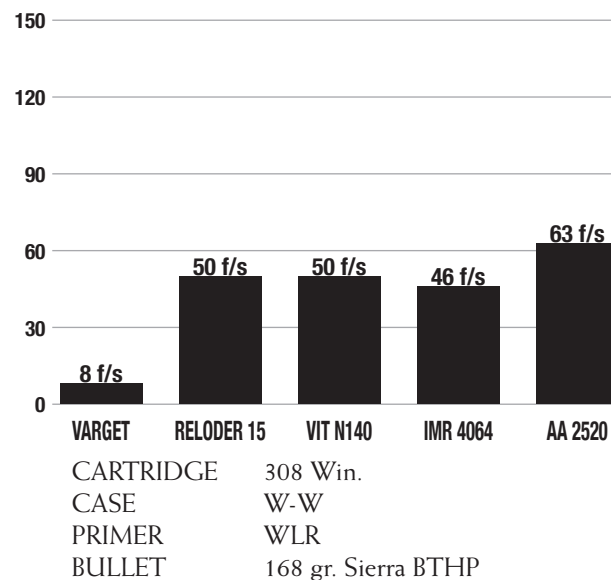
### LOT CONSISTENCY

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			
H4198	X		X			
CFE BLK	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										
TITWAD	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				
LONGSHOT	X	X	X							X	X	X	X	X	
LIL'GUN				X					X					X	X
H110				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



LEGENDARY POWDERS

## Pistol & Shotgun Powders

*In Order of Approximate Burning Rate*

**IMR TARGET®** The first powder in this new family is a fast burning pistol powder. This fine grained, small flake, pistol powder meters superbly, providing very precise loads in even the smallest pistol cartridges, like the 25 ACP! Performance in match cartridges, like 38 Special and 45 ACP is first rate. Target loads for the popular Cowboy Action game are perfect for this propellant, where reduced loads are absolutely necessary. For the shooter wanting competition accuracy in a great pistol powder, this is it!

**IMR RED®** This new technology powder in the IMR Legendary Powder Line was designed to be an efficient, clean burning, 12 gauge target powder. Working throughout the range of shot weights in 12 gauge, from light 7/8 ounce to 1 1/8 ounce handicap trap loads, this small flake powder delivers top performance. Efficient low charge weights, mild muzzle report, with minimal recoil, are all attributes of this fine propellant. Dove and light field loads are additional uses for this great powder. IMR RED also performs nicely in various lead pistol target loads, such as match competition loads and Cowboy reduced loads.

**IMR GREEN®** The second of the new IMR Shotgun line, is slightly slower burning than IMR RED, making it an ideal Trap Handicap powder, and a favorite with Sporting Clays enthusiasts. It allows the shooter to reach maximum velocity with heavy 1 1/8 ounce target loads, yielding excellent patterns in the process. Also a clean burning powder, it accommodates loads from 7/8 ounce through 1 1/8 ounce 12 gauge loads. And, it produces some great, light, 3/4 ounce 20 gauge target loads, especially in Remington STS and Winchester AA HS shells. IMR GREEN provides superb target and light field loads for the discriminating reloader.

**IMR BLUE®** The slowest burn speed of the five new propellants, IMR BLUE, has excellent application for heavy 12 gauge 2 3/4" field loads, 1 1/4 ounce and 1 3/8 ounce. In addition, many 3" and 3 1/2" 12 gauge loads are available for the avid turkey hunter. For the "Back Fence" target games, IMR BLUE is the ideal burn speed, where again, 1 1/4 and 1 3/8 ounce loads are the norm. To round out its versatility in hunting loads, data for 10 gauge, 16 gauge and 20 gauge are also available, providing true magnum velocities and performance.

**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 IMR4350, 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 SCC®** 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, metering 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.





LEGENDARY POWDERS

## 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 RED	X				X										
IMR GREEN	X	X			X										
IMR BLUE	X	X									X	X	X	X	
IMR 4227				X					X						X

## Pistol Usage

	TARGET	LIGHT DUTY	MEDIUM DUTY	MAGNUM
IMR TARGET	X	X	X	
IMR RED	X			
IMR 4227			X	X

# **WINCHESTER**

## **SMOKELESS PROPELLANTS**

### FOR LOADING PROFESSIONALS

## **Pistol & Shotgun Powders**

*In Order of Approximate Burning Rate*

**WST**<sup>®</sup> 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**<sup>™</sup> This new Winchester pistol powder has all the latest features for a mid-range, burn speed, propellant. Winchester 244 BALL Powder<sup>®</sup> Propellant is a WINCLEAN<sup>®</sup> 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**<sup>®</sup> 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**<sup>™</sup> 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**<sup>™</sup> 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**<sup>®</sup> 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**<sup>™</sup> This new Winchester powder is strategically designed to do a myriad of jobs. First it has the correct burn rate to create the famous 3-1/4 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**<sup>®</sup> 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**<sup>®</sup> 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**<sup>®</sup> 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.

## Rifle Usage

	TARGET	SILHOUETTE	LIGHT	MEDIUM	MAGNUM	50 CAL.
748	X	X	X	X		
760		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

## Relative Burn Rate

From Fastest to Slowest

1	Norma R1	51	Accurate Arms No. 7	101	IMR 4320
2	Vihta Vuori N310	52	Alliant Pro Reach	102	Winchester 748
3	Accurate Arms Nitro 100	53	Hodgdon LONGSHOT	103	Hodgdon BL-C(2)
4	Alliant e3	54	Alliant 410	104	Hodgdon CFE 223
5	Hodgdon TITEWAD	55	Alliant 2400	105	Hodgdon LEVEREVOLUTION
6	Ramshot Competition	56	Ramshot Enforcer	106	Hodgdon H380
7	Alliant Red Dot	57	Accurate Arms No.9	107	Ramshot Big Game
8	Alliant Promo	58	Accurate Arms 4100	108	VihtaVuori N540
9	Hodgdon CLAYS	59	Alliant Steel	109	Winchester 760
10	IMR RED	60	Norma 8123	110	Hodgdon H414
11	Alliant Clay Dot	61	VihtaVuori N110	111	VihtaVuori N150
12	Hodgdon Hi-Skor 700-X	62	Hodgdon LIL' GUN	112	Accurate Arms 2700
13	Alliant Bullseye	63	Hodgdon 110	113	IMR 4350
14	IMR TARGET	64	Winchester 296	114	IMR 4451
15	Hodgdon TITEGROUP	65	IMR 4227	115	Hodgdon H4350
16	Alliant American Select	66	Accurate Arms 5744	116	Alliant Reloder 17
17	Accurate Arms Solo 1000	67	Accurate Arms 1680	117	Accurate Arms 4350
18	Alliant Green Dot	68	Hodgdon CFE BLK	118	Norma 204
19	IMR GREEN	69	Norma 200	119	Hodgdon HYBRID 100V
20	Winchester WST	70	Alliant Reloder 7	120	VihtaVuori N550
21	Hodgdon Trail Boss	71	IMR 4198	121	AlliantReloder 19
22	Winchester Super Handicap	72	Hodgdon H4198	122	IMR 4831
23	Hodgdon INTERNATIONAL	73	Vihta Vuori N120	123	Ramshot Hunter
24	Accurate Arms Solo 1250	74	Hodgdon H322	124	Accurate Arms 3100
25	VihtaVuori N320	75	Accurate Arms 2015BR	125	VihtaVuori N160
26	Accurate Arms No. 2	76	Alliant Reloder 10X	126	Hodgdon H4831 & H4831SC
27	Ramshot Zip	77	Vihta Vouri N130	127	Hodgdon SUPERFORMANCE
28	Hodgdon HP-38	78	IMR 3031	128	IMR 4955
29	Winchester 231	79	VihtaVouri N133	129	Winchester Supreme 780
30	Alliant 20/28	80	Hodgdon BENCHMARK	130	Norma MRP
31	Winchester 244	81	Hodgdon H335	131	Alliant Reloder 22
32	Alliant Unique	82	Ramshot X-Terminator	132	VihtaVuori N560
33	Hodgdon UNIVERSAL	83	Accurate Arms 2230	133	VihtaVuori N165
34	Alliant Power Pistol	84	Accurate Arms 2460s	134	IMR 7828 & IMR 7828 SSC
35	Vihta Vuori N330	85	IMR 8208 XBR	135	Alliant Reloder 25
36	Alliant Herco	86	Ramshot TAC	136	VihtaVuori N170
37	Winchester WSF	87	Hodgdon H4895	137	Accurate Arms Magpro
38	VihtaVuori N340	88	VihtaVuori N530	138	IMR 7977
39	Ramshot True Blue	89	IMR 4895	139	Hodgdon H1000
40	Accurate Arms No. 5	90	VihtaVuori N135	140	Ramshot Magnum
41	Hodgdon HS-6	91	Alliant Reloder 12	141	Hodgdon RETUMBO
42	Winchester AutoComp	92	Accurate Arms 24951R	142	IMR 8133
43	Hodgdon CFE Pistol	93	IMR 4166	143	VihtaVuori N570
44	Ramshot Silhouette	94	IMR 4064	144	Accurate Arms 8700
45	VihtaVuori 3N37	95	Norma 202	145	Vihta Vuori 24N41
46	VihtaVuori N350	96	Accurate Arms 4064	146	Hodgdon 50BMG
47	VihtaVuori 3N318	97	Accurate Arms 2520	147	Hodgdon US869
48	IMR BLUE	98	Alliant Reloder 15	148	VihtaVuori 20N29
49	Winchester 572	99	VihtaVuori N140		
50	Alliant Blue Dot	100	HodgdonVARGET		



# 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

*This section is reprinted with permission from NFPA 495: Explosive Material Code, Chapter 14, Copyright 1996, National Fire Protection Association, Quincy, MA 02269. Complete information on the subject can be obtained via the National Fire Protection Association.*

### 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 Quantities

**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

a 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 measure 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, cratered 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 an 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.
- \*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  
 CPB - Cast Performance Bullets  
 FA - Freedom Arms  
 HDY - Hornady  
 JLK - Jimmy Knox  
 LY - Lyman  
 MEI - Meister  
 NOS - Nosler  
 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  
 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  
 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  
 GC - Gas Check  
 GDHP - Gold Dot Hollow Point  
 GDSP - Gold Dot Soft Point  
 GMX - Gilding Metal Expanding  
 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  
 LHBWC - 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  
 PSCP - Pointed Soft Point "Core-Lokt"  
 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  
 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  
 WC - Wadcutter  
 W/GC - With Gas Check  
 X - X Bullet  
 XBT - X Boat Tail  
 XBTC - X Boat Tail Coated  
 XFB - X Flat Base  
 XPB - X Pistol Bullet  
 XTP - Extreme Terminal Performance



# RIFLE data

BULLET	POWDER	GR	VEL	CUP
<b>17 HORNET</b>				
BBL: 24"		CASE: HORNADY		
		PR: FEDERAL 205M		
<b>20 GR. HDY V-MAX</b> COL: 1.715"				
CFE BLK	12.8	3652	48,100 PSI	
H4198	11.8C	3463	39,300 PSI	
IMR 4227	10.1	3356	45,400 PSI	
296	8.7	3301	45,100 PSI	
H110	8.7	3301	45,100 PSI	
LIL' GUN	10.0	3629	48,200 PSI	
<b>25 GR. HDY HP</b> COL: 1.715"				
H335	13.2C	3145	45,900 PSI	
H322	12.8C	3283	36,200 PSI	
CFE BLK	11.6	3263	47,900 PSI	
H4198	11.1C	3187	42,500 PSI	
IMR 4227	9.3	3032	45,700 PSI	
LIL' GUN	8.9	3195	48,000 PSI	
<b>30 GR. BER HP</b> COL: 1.715"				
H335	12.5C	2866	44,000 PSI	
H322	12.5C	3020	48,000 PSI	
CFE BLK	10.7	2851	47,800 PSI	
H4198	10.8C	3024	47,300 PSI	
<b>204 RUGER</b>				
BBL: 24"		CASE: HORNADY		
		PR: FEDERAL 205M		
<b>32 GR. HDY V-MAX</b> COL: 2.250"				
CFE 223	30.9	4091	55,000 PSI	
VARGET	29.0C	3798	47,400 PSI	
IMR 4166	28.5C	3881	57,400 PSI	
BL-C(2)	30.7	4081	55,500 PSI	
IMR 4895	29.0C	3949	51,900 PSI	
H335	28.3	4044	54,800 PSI	
H4895	29.0C	3980	51,100 PSI	
IMR 8208 XBR	29.0	4130	56,500 PSI	
BENCHMARK	28.0	4047	57,100 PSI	
H322	27.5	4030	56,400 PSI	
IMR 4198	23.5	4006	55,400 PSI	
<b>40 GR. HDY V-MAX</b> COL: 2.250"				
CFE 223	29.0	3769	56,700 PSI	
VARGET	28.1C	3647	55,100 PSI	
IMR 4166	26.9	3578	57,300 PSI	
IMR 4064	27.5C	3616	52,000 PSI	
BL-C(2)	30.0	3774	56,200 PSI	
IMR 4895	27.8C	3695	56,000 PSI	
IMR 8208 XBR	27.3	3754	56,300 PSI	
H335	26.8	3738	56,700 PSI	
H4895	27.7C	3741	56,000 PSI	
IMR 3031	25.6C	3694	56,600 PSI	
BENCHMARK	25.7	3646	55,400 PSI	
H322	25.1	3639	55,900 PSI	
<b>22 HORNET</b>				
BBL: 24"		CASE: WINCHESTER		
		PR: WINCHESTER SR		
<b>35 GR. HDY V-MAX</b> COL: 1.725"				
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	

BULLET	POWDER	GR	VEL	CUP
<b>45 GR. HDY SP</b> COL: 1.750"				
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	
<b>222 REMINGTON</b>				
BBL: 24"		CASE: WINCHESTER		
		PR: WINCHESTER SR		
<b>40 GR. SIE HP</b> COL: 2.125"				
H335	25.0	3371	44,600 CUP	
H4895	24.0C	3133	34,200 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	
<b>50 GR. HDY SP</b> COL: 2.130"				
CFE 223	26.2	3268	47,600 PSI	
VARGET	25.0C	3114	40,600 CUP	
IMR 4064	23.5C	3065	46,200 PSI	
748	24.0	2980	38,000 CUP	
BL-C(2)	25.0	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	24.0	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	
<b>223 REMINGTON</b>				
BBL: 24"		CASE: WINCHESTER		
		PR: WINCHESTER SR		
<b>50 GR. SPR SP</b> COL: 2.210"				
CFE 223	28.5	3505	53,600 PSI	
VARGET	27.5C	3383	44,800 CUP	
IMR 4166	26.2C	3267	51,600 PSI	
748	26.0	3200	40,000 CUP	
BL-C(2)	28.0	3428	47,100 CUP	
IMR 4895	26.7C	3211	45,200 PSI	
H335	26.0	3393	51,700 CUP	
H4895	27.5C	3468	51,300 CUP	
IMR 8208 XBR	25.8	3407	53,300 PSI	
IMR 3031	25.0	3268	46,900 PSI	
BENCHMARK	26.5	3396	50,400 CUP	
H322	24.0	3301	49,300 CUP	
IMR 4198	21.9	3352	52,100 PSI	
H4198	21.5	3223	45,900 CUP	
<b>55 GR. SPR SP</b> COL: 2.200"				
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	
748	26.3	3150	39,000 CUP	

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

BULLET	POWDER	GR	VEL	CUP
<b>22 NOSLER</b>				
BBL: 24"		CASE: NOSLER		
		PR: WINCHESTER SR		
<b>55 GR. NOS BT</b> COL: 2.260"				
CFE 223	33.5	3563	52,200 PSI	
VARGET	31.0	3451	53,400 PSI	
IMR 4064	30.9	3433	53,000 PSI	
IMR 4166	31.0	3413	53,400 PSI	
BL-C(2)	33.0	3457	51,800 PSI	
IMR 4895	30.5	3417	53,000 PSI	
H335	29.5	3370	53,000 PSI	
H4895	29.5	3446	52,400 PSI	
IMR 8208 XBR	29.7	3473	53,400 PSI	
BENCHMARK	29.3	3464	53,500 PSI	
<b>77 GR. NOS HPBT</b> COL: 2.260"				
H4350	32.3C	3014	53,600 PSI	
IMR 4451	31.1C	2945	53,300 PSI	
IMR 4350	31.9	2969	51,900 PSI	
760	31.7	3021	52,500 PSI	
CFE 223	29.1	2979	52,100 PSI	
VARGET	27.5	2940	53,400 PSI	
IMR 4064	27.8	2942	52,600 PSI	
IMR 4166	27.4	2930	53,500 PSI	
BL-C(2)	29.2	2925	52,400 PSI	
IMR 4895	27.4	2922	52,400 PSI	
H4895	26.5	2934	52,900 PSI	
IMR 8208 XBR	26.5	2914	53,200 PSI	
<b>22-250 REMINGTON</b>				
BBL: 24"		CASE: WINCHESTER		
		PR: WINCHESTER LR		
<b>50 GR. SIE SP</b> COL: 2.350"				
H4350	42.0	3579	48,900 CUP	
760	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	
BENCHMARK	36.0	3903	51,400 CUP	
H322	32.0	3628	50,300 CUP	
<b>55 GR. SPR SP</b> COL: 2.350"				
H4350	39.0	3490	47,800 CUP	
760	39.0	3582	46,700 CUP	
H380	41.0	3713	50,700 CUP	

BULLET	POWDER	GR	VEL	CUP
<b>220 SWIFT</b>				
BBL: 24"		CASE: WINCHESTER		
		PR: WINCHESTER LR		
<b>50 GR. HDY SP</b> COL: 2.680"				
760	44.0	3826	49,600 CUP	
H380	43.5	3947	53,800 CUP	
VARGET	36.0	3770	50,200 CUP	
BL-C(2)	38.0	3888	51,000 CUP	
IMR 4895	38.7	3868	52,900 CUP	
H4895	38.0	3840	51,200 CUP	
IMR 3031	36.5	3877	53,100 CUP	
<b>55 GR. HDY SP</b> COL: 2.680"				
H4831	46.0	3616	46,600 CUP	
HYBRID 100V	42.0C	3627	52,600 CUP	
H4350	42.0	3619	50,800 CUP	
760	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	
<b>6 CREEDMOOR</b>				
BBL: 24"		CASE: HORNADY		
		PR: WINCHESTER LR		
<b>80 GR. HDY GMX</b> COL: 1.910"				
IMR 4955	46.6C	3348	57,600 PSI	
H4831	47.2C	3285	58,300 PSI	
IMR 4831	46.0C	3342	58,100 PSI	
H4350	44.4	3374	60,000 PSI	
IMR 4451	43.9C	3378	60,600 PSI	
IMR 4350	44.9C	3396	59,700 PSI	
H380	42.7	3353	60,300 PSI	
CFE 223	40.7	3345	59,900 PSI	
VARGET	38.7	3308	59,700 PSI	
IMR 4064	39.1	3325	59,700 PSI	
IMR 4166	38.9	3331	60,000 PSI	
BL-C(2)	40.5	3320	59,700 PSI	
IMR 4895	39.3	3341	60,200 PSI	
H4895	37.1	3281	60,200 PSI	
IMR 8208 XBR	36.7	3264	59,200 PSI	
<b>108 GR. HDY ELD</b> COL: 2.770"				
H1000	48.2C	3042	59,700 PSI	
IMR 7977	45.9C	3002	59,700 PSI	
IMR 4955	43.5	2995	59,700 PSI	
SUPRFORM	44.2	3078	60,200 PSI	

Loads listed are Maximim. Do NOT Exceed. Reduce by 10% to Start.  
For complete reloading data, please visit [www.HodgdonReloading.com](http://www.HodgdonReloading.com)

# RIFLE data

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

BULLET	POWDER	GR	VEL	CUP
H4831	44.1	2972	60,200 PSI	
HYBRID 100V	41.7	3031	59,100 PSI	
IMR 4831	43.0	3012	59,800 PSI	
H4350	41.6	3006	60,100 PSI	
IMR 4451	40.8	2980	59,800 PSI	
IMR 4350	41.4	3004	59,200 PSI	

**243 WINCHESTER**  
BBL: 24" CASE: WINCHESTER PR: WINCHESTER LR

COL: 2.625"			
<b>70 GR. SPR HP</b>			
SUPRFORM	51.0C	3661	57,900 PSI
760	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"

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
760	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

**257 ROBERTS**  
BBL: 24" CASE: REMINGTON PR: REMINGTON 9 1/2

COL: 2.795"			
<b>75 GR. HDY HP</b>			
H4831	53.0	3307	37,500 CUP
HYBRID 100V	49.0C	3380	42,900 CUP
H4350	50.0	3422	44,000 CUP
760	52.0	3555	45,300 CUP
H380	48.0	3563	45,600 CUP
CFE 223	42.0	3369	44,800 CUP
VARGET	41.0	3453	43,700 CUP
IMR 4166	43.8	3471	47,500 CUP
BL-C(2)	46.0	3531	46,700 CUP
H335	46.0	3548	45,000 CUP
H4895	44.0	3561	47,300 CUP
IMR 8208 XBR	43.0	3456	44,900 CUP
BENCHMARK	41.7	3434	45,000 CUP

**100 GR. SPR SPBT** COL: 2.770"

BULLET	POWDER	GR	VEL	CUP
H4831	49.0	3010	44,100 CUP	
HYBRID 100V	48.0C	3205	45,400 CUP	
H4350	45.0	2970	45,400 CUP	
IMR 4451	46.2	3067	47,100 CUP	
760	45.0	3098	44,500 CUP	
H380	44.0	3108	46,600 CUP	
VARGET	38.0	2981	44,900 CUP	
IMR 4166	39.4	3022	47,400 CUP	
BL-C(2)	39.0	2958	45,400 CUP	
H335	39.0	3042	47,800 CUP	
H4895	38.0	2990	46,100 CUP	
IMR 8208 XBR	39.5	3085	44,700 CUP	

**25-06 REMINGTON**  
BBL: 24" CASE: REMINGTON PR: REMINGTON 9 1/2

COL: 3.200"			
<b>100 GR. NOS PART</b>			
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
IMR 4350	52.8	3257	51,200 CUP
760	47.0	3059	50,700 CUP
VARGET	44.0	3125	51,400 CUP
IMR 4064	44.0	3122	50,800 CUP
IMR 4166	46.1	3243	59,700 PSI
IMR 4895	45.3	3155	50,400 CUP
H4895	43.0	3072	51,000 CUP
TRAIL BOSS	19.2	1712	30,600 PSI

**120 GR. SFT SP** COL: 3.150"

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" CASE: HORNADY PR: FEDERAL 210M

COL: 2.670"			
<b>120 GR. HDY A-MAX</b>			
H4350	45.0C	2965	60,800 PSI
IMR 4451	44.7	2929	61,400 PSI
760	44.5	2960	61,500 PSI
VARGET	40.2	2891	60,400 PSI
IMR 4064	38.9	2903	59,800 PSI
IMR 4166	38.5	2887	61,500 PSI
748	40.4	2899	59,900 PSI
BL-C(2)	41.3	2941	60,500 PSI
IMR 4895	39.0	2895	59,300 PSI

BULLET	POWDER	GR	VEL	CUP
H4895	37.4	2858	60,400 PSI	
IMR 8208 XBR	36.0	2818	60,300 PSI	
<b>142 GR. SIE HPBT COL: 2.780"</b>				
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	
760	40.2	2634	58,300 PSI	
H380	39.2	2618	59,100 PSI	
VARGET	36.3	2598	60,100 PSI	
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	

**270 WINCHESTER**  
BBL: 24" CASE: WINCHESTER PR: WINCHESTER LR

COL: 3.180"			
<b>130 GR. HDY SP</b>			
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
HYBRID 100V	56.0C	3066	61,800 PSI
IMR 4831	55.8	3002	50,300 CUP
H4350	54.3	3012	50,500 CUP
IMR 4350	55.0	3028	49,900 CUP
IMR 4451	56.0	3089	62,900 PSI
760	53.5	3003	50,800 CUP
H380	49.8	2884	51,000 CUP
VARGET	46.0	2931	49,600 CUP
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

**150 GR. HDY SP** COL: 3.285"

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
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
760	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

**7MM-08 REMINGTON**  
BBL: 24" CASE: REMINGTON PR: REMINGTON 9 1/2

COL: 2.800"			
<b>120 GR. NOS BT</b>			
H4350	50.0C	3039	44,600 CUP
760	49.0	3023	47,600 CUP
H380	48.0	2977	43,400 CUP
CFE 223	49.5	3151	50,000 CUP

BULLET	POWDER	GR	VEL	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	
<b>140 GR. SFT SP COL: 2.750"</b>				
H4350	48.0C	2868	49,800 CUP	
IMR 4451	45.5C	2798	59,100 PSI	
IMR 4350	46.5C	2826	50,000 CUP	
760	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	
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	

**7 X 57MM MAUSER**  
BBL: 24" CASE: WINCHESTER PR: WINCHESTER LR

COL: 3.000"			
<b>120 GR. NOS BT</b>			
H4831	52.5C	2777	40,800 CUP
IMR 4955	51.0C	2823	44,800 CUP
HYBRID 100V	48.0C	2806	41,700 CUP
H4350	51.0C	2945	45,800 CUP
IMR 4451	47.5	2814	45,900 CUP
760	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"

H4831	49.5C	2719	46,000 CUP
IMR 4955	49.7C	2695	45,400 CUP
HYBRID 100V	46.5C	2654	43,300 CUP
H4350	46.5	2682	46,000 CUP
IMR 4451	45.0	2599	46,000 CUP
760	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

**280 REMINGTON**  
BBL: 24" CASE: REMINGTON PR: REMINGTON 9 1/2

COL: 3.240"			
<b>140 GR. NOS PART</b>			
IMR 4955	57.0	2860	58,600 PSI
H4831	58.5	2927	48,500 CUP
HYBRID 100V	54.0C	2847	47,000 CUP

Loads listed are Maximim. Do NOT Exceed. Reduce by 10% to Start.  
For complete reloading data, please visit www.HodgdonReloading.com

# RIFLE data

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

BULLET	POWDER	GR	VEL	CUP
H4350	53.5	2918	48,500	CUP
IMR 4451	54.2	2913	58,700	PSI
760	51.0	2867	47,900	CUP
VARGET	45.5	2838	48,100	CUP
H4895	45.2	2830	48,400	CUP
<b>160 GR. SFT SP COL: 3.065"</b>				
H1000	61.0C	2714	47,500	CUP
IMR 4955	54.7	2697	58,500	PSI
H4831	55.0	2660	49,500	CUP
HYBRID 100V	52.0C	2712	48,600	CUP
H4350	49.5	2610	48,900	CUP
IMR 4451	50.5	2709	57,900	PSI
760	47.5	2558	49,700	CUP
H4895	41.5	2535	49,500	CUP

<b>7MM REM. MAGNUM</b>		<b>CASE: WINCHESTER</b>		
<b>BBL: 24"</b>		<b>PR: WINCHESTER LR</b>		
<b>140 GR. NOS PART COL: 3.250"</b>				
IMR 8133	78.0C	3217	58,100	PSI
RETUMBO	75.0C	3107	49,400	CUP
H1000	70.0	3036	50,600	CUP
IMR 7977	72.0	3175	59,900	PSI
IMR 7828	69.0	3095	59,200	PSI
IMR 4955	67.4	3061	60,200	PSI
H4831	64.0	2950	50,200	CUP
HYBRID 100V	63.0	3138	59,800	PSI
IMR 4831	65.4	3053	59,400	PSI
H4350	59.0	2927	50,000	CUP
IMR 4451	62.0	3136	58,800	PSI
IMR 4350	62.8	3045	58,600	PSI
760	60.2	2967	49,300	CUP
TRAIL BOSS	24.5	1724	31,000	PSI

<b>162 GR. HDY SPBT</b>		<b>COL: 3.290"</b>		
US869	80.0	2921	54,400	PSI
IMR 8133	75.5C	3069	60,200	PSI
RETUMBO	73.5C	2963	50,500	CUP
H1000	70.0	2905	49,600	CUP
IMR 7977	69.5C	2955	59,300	PSI
IMR 7828	65.0	2882	59,000	PSI
IMR 4955	64.2	2863	60,200	PSI
H4831	64.0	2871	49,800	CUP
HYBRID 100V	60.0	2922	59,500	PSI
IMR 4831	61.8	2877	59,500	PSI
H4350	58.0	2799	49,400	CUP
IMR 4350	60.0	2861	58,100	PSI
IMR 4451	58.7	2938	59,200	PSI

<b>300 AAC BLACKOUT</b>		<b>CASE: REMINGTON</b>		
<b>BBL: 16"</b>		<b>PR: REMINGTON 7 1/2</b>		
<b>125 GR. NOS BT COL: 2.060"</b>				
CFE BLK	20.0C	1945	26,500	PSI
IMR 4227	17.5C	1953	38,900	PSI
296	18.5C	2205	52,500	PSI
H110	18.5C	2205	52,500	PSI
LIL' GUN	21.0C	2402	48,800	PSI
TRAIL BOSS	6.1	1060	21,300	PSI

<b>220 GR. SIE HPBT</b>		<b>COL: 2.260"</b>		
IMR 4198	10.9	1057	22,500	PSI
CFE BLK	12.1	1060	18,200	PSI

BULLET	POWDER	GR	VEL	CUP
H4198	11.2	1069	21,800	PSI
IMR 4227	10.1	1044	26,700	PSI
296	9.2	1046	28,100	PSI
H110	9.2	1046	28,100	PSI
LIL' GUN	8.4	1062	26,500	PSI

<b>30-30 WINCHESTER</b>		<b>CASE: WINCHESTER</b>		
<b>BBL: 24"</b>		<b>PR: WINCHESTER LR</b>		
<b>150 GR. SIE FN COL: 2.550"</b>				
760	35.9	2090	30,000	CUP
LVR	38.5C	2512	34,800	CUP
CFE 223	36.8	2409	36,700	PSI
VARGET	34.5	2349	36,200	CUP
IMR 4064	33.3	2236	36,200	CUP
IMR 4166	32.6	2262	41,300	PSI
748	34.5	2310	36,000	CUP
BL-C(2)	37.0	2358	33,900	CUP
IMR 4895	33.5	2213	34,300	CUP
H335	33.0	2308	36,200	CUP
H4895	34.0	2390	36,700	CUP
IMR 8208 XBR	32.0	2316	36,700	CUP
IMR 3031	30.5	2192	36,000	CUP
BENCHMARK	29.0	2183	37,200	CUP
IMR 4198	23.0	2055	35,500	CUP
H4198	24.0	2110	36,800	CUP

<b>160 GR. CAST LFN</b>		<b>COL: 2.485"</b>		
TRAIL BOSS	9.0	1195	29,100	CUP
<b>170 GR. SIE FP COL: 2.550"</b>				
760	33.6	1975	30,000	CUP
LVR	36.3C	2332	35,400	CUP
CFE 223	35.0	2258	36,800	PSI
VARGET	33.0	2168	36,500	CUP
IMR 4064	31.7	2090	35,300	CUP
IMR 4166	30.7	2087	40,600	PSI
748	32.0	2145	36,000	CUP
BL-C(2)	36.0	2227	34,700	CUP
IMR 4895	31.7	2068	35,300	CUP
H335	30.5	2086	36,300	CUP
H4895	30.5	2138	35,200	CUP
IMR 8208 XBR	30.9	2181	37,500	CUP
IMR 3031	29.2	2085	35,800	CUP
BENCHMARK	27.0	2001	36,100	CUP
IMR 4198	22.3	1896	32,100	CUP
H4198	22.5	1918	32,600	CUP

<b>308 WINCHESTER</b>		<b>CASE: WINCHESTER</b>		
<b>BBL: 24"</b>		<b>PR: FEDERAL 210M</b>		
<b>150 GR. NOS BT COL: 2.800"</b>				
CFE 223	51.5	2974	57,000	PSI
VARGET	47.0C	2937	50,300	CUP
IMR 4064	47.7C	2903	57,100	PSI
748	48.5	2865	48,000	CUP
BL-C(2)	48.0	2839	50,000	CUP
IMR 4895	47.3C	2920	57,700	PSI
H335	44.0	2787	51,200	CUP
H4895	45.5	2870	51,000	CUP
IMR 8208 XBR	44.5C	2870	60,800	PSI
IMR 3031	43.5C	2881	59,200	PSI
BENCHMARK	43.0	2752	49,900	CUP
H322	40.0	2702	50,500	CUP

BULLET	POWDER	GR	VEL	CUP
TRAIL BOSS	14.0	1417	27,100	PSI
<b>168 GR. SIE HPBT COL: 2.800"</b>				
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
<b>175 GR. SIE HPBT COL: 2.800"</b>				
760	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

<b>30-06</b>		<b>CASE: WINCHESTER</b>		
<b>BBL: 24"</b>		<b>PR: WINCHESTER LR</b>		
<b>150 GR. NOS BT COL: 3.250"</b>				
H4350	62.0C	3068	48,400	CUP
IMR 4350	58.0C	2942	57,200	PSI
760	60.0	2992	48,600	CUP
H380	59.0	3005	45,900	CUP
CFE 223	54.2	2942	58,600	PSI
VARGET	51.0	2975	50,000	CUP
IMR 4064	51.0	2928	58,600	PSI
748	48.0	2810	46,000	CUP
BL-C(2)	54.0	2962	48,600	CUP
IMR 4895	53.0	3009	56,700	PSI
H335	51.5	2982	49,200	CUP
H4895	51.0	2976	48,500	CUP
IMR 8208 XBR	50.0	2935	58,400	PSI
IMR 3031	46.7	2887	59,300	PSI
BENCHMARK	49.5	2944	49,300	CUP
TRAIL BOSS	19.0	1477	26,400	PSI

<b>165 GR. SIE SPBT</b>		<b>COL: 3.300"</b>		
HYBRID 100V	57.0C	2801	52,800	PSI
H4350	59.0	2938	49,400	CUP
IMR 4350	60.0C	2934	57,600	PSI
IMR 4451	57.4C	2858	59,200	PSI
760	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

BULLET	POWDER	GR	VEL	CUP
BL-C(2)	51.0	2805	49,800	CUP
IMR 4895	52.0	2888	57,200	PSI
H335	47.0	2749	49,300	CUP
H4895	47.5	2782	49,000	CUP
IMR 8208 XBR	46.5	2728	58,000	PSI
IMR 3031	48.0	2825	57,500	PSI
BENCHMARK	47.7	2795	49,300	CUP
<b>180 GR. SIE SPBT COL: 3.300"</b>				
IMR 4955	61.0C	2828	60,000	PSI
H4831	60.0C	2710	44,300	CUP
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
760	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	CUP
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	CUP
BENCHMARK	46.0	2660	49,000	CUP

<b>300 WIN. SHORT MAGNUM</b>		<b>CASE: WINCHESTER</b>		
<b>BBL: 24"</b>		<b>PR: WINCHESTER WLRM</b>		
<b>150 GR. SPR GSSP COL: 2.780"</b>				
SUPRFORM	74.0	3410	63,500	PSI
HYBRID 100V	67.0C	3127	57,700	PSI
H4350	67.0	3187	63,200	PSI
IMR 4350	68.0	3221	62,100	PSI
IMR 4451	67.7	3248	63,300	PSI
760	66.0	3204	63,300	PSI
H380	64.0	3141	63,600	PSI
VARGET	58.5	3140	63,800	PSI
H4895	54.5	3078	63,100	PSI
IMR 4064	61.0	3198	63,300	PSI
IMR 4166	59.5	3200	62,800	PSI
IMR 4895	60.5	3176	62,300	PSI
H4895	54.5	3078	63,100	PSI
IMR 8208 XBR	56.0	3115	62,300	PSI
TRAIL BOSS	23.3	1758	31,600	PSI

<b>180 GR. SFT SCIR</b>		<b>COL: 2.860"</b>		
IMR 7828	69.5C*	2943	62,600	PSI
IMR 4955	68.0C	2957	63,500	PSI
HYBRID 100V	64.0C	2918	59,800	PSI
IMR 4831	66.3C	2980	62,900	PSI
H4831	70.0C	2929	64,000	PSI
H4350	64.0	2950	63,900	PSI
IMR 4451	63.7C	2935	62,700	PSI
IMR 4350	65.0C	2991	63,700	PSI
760	62.5	2959	63,000	PSI
H3				



# RIFLE data

\*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
H1000	85.0C	3255	52,200	CUP
IMR 7977	82.2C	3269	59,300	PSI
IMR 7828	80.0C	3148	55,600	PSI
IMR 4955	78.5	3242	61,400	PSI
H4831	78.0	3207	52,700	CUP
HYBRID 100V	73.5	3289	62,700	PSI
IMR 4831	78.0C	3289	63,300	PSI
H4350	72.0	3205	52,500	CUP
IMR 4350	74.0	3254	61,500	PSI
IMR 4451	73.1	3261	61,900	PSI
760	68.0	3145	52,500	CUP
H380	65.0	3031	52,200	CUP
VARGET	60.0	3108	51,400	CUP
IMR 4064	65.5	3205	62,200	PSI
IMR 4166	62.5	3178	62,300	PSI
IMR 4895	65.5	3196	62,300	PSI
H4895	61.0	3124	52,500	CUP
IMR 8208 XBR	61.5	3156	60,800	PSI
TRAIL BOSS	25.5	1687	28,600	PSI
<b>180 GR. SPR MT-SP COL: 3.285"</b>				
US869	88.0	2892	56,800	PSI
H1000	81.0C	3042	52,900	CUP
IMR 7977	75.4	2969	60,400	PSI
IMR 7828	78.5C	3034	62,000	PSI
IMR 4955	73.7	2984	62,900	PSI
H4831	73.0C	2966	53,200	CUP
HYBRID 100V	67.7	2998	62,400	CUP
IMR 4831	74.0C	3025	63,200	PSI
H4350	67.0	2918	53,100	CUP
IMR 4350	71.0	2974	61,200	PSI
IMR 4451	66.7	2944	62,500	PSI
760	62.0	2845	52,300	CUP
<b>300 WEATHERBY MAGNUM CASE: REMINGTON PR: FEDERAL 215 M BBL: 24"</b>				
<b>150 GR. BAR TSX COL: 3.570"</b>				
H1000	88.0C	3220	49,900	CUP
IMR 7977	89.9C	3302	52,200	CUP
IMR 7828 SSC	86.5C*	3400	54,200	CUP
IMR 4955	82.9	3368	54,400	CUP
H4831	84.0C	3275	52,900	CUP
HYBRID 100V	76.5	3310	49,100	CUP
IMR 4831	82.7C	3437	54,100	CUP
H4350	76.5	3310	53,800	CUP
IMR 4451	77.6	3298	53,400	CUP
IMR 4350	79.5	3396	54,300	CUP
H380	69.5	3142	53,800	CUP
VARGET	64.5	3155	54,000	CUP
IMR 4064	67.0	3244	51,900	CUP
IMR 4895	66.0	3214	53,100	CUP
H4895	61.5	3112	54,100	CUP
TRAIL BOSS	27.5	1656	28,900	CUP
<b>180 GR. SPR BTSP COL: 3.560"</b>				
H1000	88.5C	3151	53,500	CUP
IMR 7977	87.0C	3098	53,200	CUP
IMR 7828	80.5	3064	53,400	CUP
IMR 4955	80.9	3149	54,500	CUP
H4831	81.5	3096	54,000	CUP
HYBRID 100V	77.0	3171	54,600	CUP
IMR 4831	75.5	2997	53,500	CUP

BULLET	POWDER	GR	VEL	CUP
H4350	73.5	3022	54,000	CUP
IMR 4451	75.0	3041	53,900	CUP
IMR 4350	72.6	3018	53,000	CUP
760	71.5	2984	53,000	CUP
H380	67.0	2896	54,000	CUP
<b>7.62 X 39MM RUSSIAN CASE: MIDWAY PR: CCI 200 BBL: 24"</b>				
<b>125 GR. SPR SP COL: 2.150"</b>				
BL-C(2)	31.5	2349	38,800	CUP
H335	31.5	2408	40,900	CUP
H4895	29.0	2249	33,600	CUP
H322	29.0	2323	35,400	CUP
IMR 4198	24.0	2250	42,500	CUP
CFE BLK	29.7	2554	40,500	CUP
H4198	26.5	2378	40,400	CUP
IMR 4227	18.5	1995	44,100	CUP
<b>150 GR. HDY SP COL: 2.220"</b>				
BL-C(2)	29.5	2090	40,400	CUP
H335	29.0	2132	42,500	CUP
H4895	28.0	2154	39,300	CUP
H322	28.5	2192	40,400	CUP
IMR 4198	22.5	2070	43,600	CUP
CFE BLK	24.5	2156	43,200	CUP
H4198	24.5	2122	39,800	CUP
<b>303 BRITISH CASE: REMINGTON PR: FEDERAL 210 BBL: 24"</b>				
<b>150 GR. HDY SP COL: 2.995"</b>				
VARGET	43.0	2656	42,700	CUP
IMR 4064	44.7	2699	46,400	PSI
IMR 4166	43.9	2693	43,600	CUP
BL-C(2)	48.0	2756	39,200	CUP
IMR 4895	44.2	2689	46,600	PSI
H335	42.0	2706	43,100	CUP
H4895	40.0	2627	43,600	CUP
IMR 8208 XBR	36.7	2515	41,300	CUP
IMR 3031	41.0	2632	46,100	PSI
<b>180 GR. SIE SP COL: 3.075"</b>				
HYBRID 100V	46.0C	2384	41,700	CUP
H4350	48.0C	2500	43,800	CUP
IMR 4451	49.2C	2556	43,900	CUP
760	46.0	2435	42,500	CUP
VARGET	41.0	2440	43,400	CUP
IMR 4064	41.1	2400	45,700	PSI
IMR 4166	40.8	2453	42,300	CUP
BL-C(2)	45.0	2563	43,000	CUP
IMR 4895	41.0	2399	46,100	PSI
H335	39.0	2449	42,700	CUP
H4895	38.0	2400	43,500	CUP
IMR 8208 XBR	35.0	2325	43,300	CUP
IMR 3031	38.3	2341	46,500	PSI
<b>8 X 57MM MAUSER CASE: REMINGTON PR: REMINGTON 9 1/2 BBL: 24"</b>				
<b>150 GR. HDY SP COL: 2.950"</b>				
CFE 223	57.0	3054	46,900	CUP
VARGET	52.4C	2896	49,000	CUP
IMR 4064	49.5	2839	46,200	CUP
IMR 4166	49.9	2869	49,700	CUP

BULLET	POWDER	GR	VEL	CUP
BL-C(2)	55.0	2962	48,400	CUP
IMR 4895	49.5	2847	48,000	CUP
H335	50.8	2942	48,800	CUP
H4895	51.0	2987	49,500	CUP
IMR 8208 XBR	48.0	2861	48,300	CUP
IMR 3031	46.5	2815	47,300	CUP
BENCHMARK	47.5	2860	48,800	CUP
<b>170 GR. HDY RN COL: 2.825"</b>				
CFE 223	56.0	2854	44,200	CUP
VARGET	50.5	2700	48,700	CUP
IMR 4064	48.7	2706	49,300	CUP
IMR 4166	47.7	2667	49,300	CUP
748	54.0	2832	48,500	CUP
BL-C(2)	53.5	2839	48,800	CUP
IMR 4895	48.0	2647	47,900	CUP
H335	49.2	2738	48,800	CUP
H4895	49.0	2769	48,700	CUP
IMR 8208 XBR	47.0	2696	48,000	CUP
IMR 3031	45.5	2640	47,500	CUP
BENCHMARK	46.6	2679	49,100	CUP
<b>338 FEDERAL CASE: FEDERAL PR: FEDERAL 210 BBL: 24"</b>				
<b>180 GR. NOS AB COL: 2.810"</b>				
748	51.0	2746	51,100	PSI
BL-C(2)	50.0	2648	47,500	PSI
CFE 223	50.0	2620	42,100	PSI
IMR 4895	47.0C	2624	50,900	PSI
H335	47.0	2712	53,900	PSI
H4895	47.0C	2682	50,800	PSI
IMR 8208 XBR	48.5C	2811	59,900	PSI
IMR 3031	45.0C	2705	55,200	PSI
BENCHMARK	47.0C	2768	61,300	PSI
H322	45.5C	2743	59,700	PSI
<b>210 GR. SFT SCIR COL: 2.820"</b>				
LVR	49.0C	2622	56,400	PSI
CFE 223	47.6	2549	57,100	PSI
VARGET	46.0C	2503	56,500	PSI
IMR 4064	43.0C	2394	48,800	PSI
IMR 4166	43.9C	2466	60,900	PSI
748	45.7	2534	56,300	PSI
BL-C(2)	47.0	2548	59,100	PSI
IMR 4895	45.0C	2482	53,900	PSI
H335	41.7	2469	57,400	PSI
H4895	45.0C	2551	58,100	PSI
IMR 8208 XBR	43.3C	2508	59,400	PSI
IMR 3031	42.5C	2499	57,000	PSI
BENCHMARK	46.0C	2514	60,800	PSI
H322	42.3C	2511	59,200	PSI
<b>338 WINCHESTER MAGNUM CASE: WINCHESTER PR: WIN WLR MAG BBL: 24"</b>				
<b>210 GR. NOS PART COL: 3.280"</b>				
IMR 7828	78.0C*	2895	52,600	CUP
IMR 4955	71.5	2844	62,700	PSI
H4831	75.5C	2888	52,300	CUP
HYBRID 100V	72.0C	2887	48,400	CUP
IMR 4831	73.0C	2877	50,600	CUP
H4350	70.0	2855	51,800	CUP
IMR 4350	71.5C	2894	52,800	CUP

BULLET	POWDER	GR	VEL	CUP
IMR 4451	68.9	2857	61,900	PSI
760	67.0	2848	51,800	CUP
H380	66.0	2797	53,000	CUP
VARGET	58.5	2784	52,500	CUP
IMR 4064	62.0	2843	53,300	CUP
IMR 4895	62.0	2809	52,500	CUP
H4895	60.0	2788	53,000	CUP
<b>250 GR. HDY SP COL: 3.340"</b>				
H1000	76.0 C	2622	46,500	CUP
IMR 7977	75.5C	2592	57,700	PSI
IMR 7828	75.0C*	2628	51,800	CUP
IMR 4955	69.7	2641	62,200	PSI
H4831	71.5C	2655	52,300	CUP
HYBRID 100V	68.0C	2643	50,500	CUP
IMR 4831	71.6C	2632	52,400	CUP
H4350	67.5	2657	51,900	CUP
IMR 4451	66.8	2631	62,400	PSI
IMR 4350	69.5C	2634	52,400	CUP
760	65.0	2622	52,900	CUP
IMR 4064	58.5	2518	52,700	CUP
IMR 4895	59.0	2529	53,200	CUP
<b>338 LAPUA MAGNUM CASE: NORMA PR: FEDERAL 215M BBL: 24"</b>				
<b>250 GR. HDY SP COL: 3.550"</b>				
US869	108.0	2879	51,100	CUP
IMR 8133	100.5C	2916	61,600	PSI
RETUMBO	98.0C	2853	52,000	CUP
H1000	98.0C	2838	52,800	CUP
IMR 7977	97.0	2927	61,300	PSI
IMR 7828	88.5	2802	52,100	CUP
IMR 4955	86.5	2811	61,600	PSI
H4831	85.0	2740	52,200	CUP
HYBRID 100V	81.0	2765	52,200	CUP
IMR 4831	85.0	2801	52,900	CUP
H4350	78.0	2742	52,300	CUP
<b>300 GR. SIE HPBT COL: 3.600"</b>				
US 869	104.0	2677	51,500	CUP
IMR 8133	94.5C	2644	61,700	PSI
RETUMBO	94.0C	2654	53,400	CUP
H1000	92.0C	2590	53,000	CUP
IMR 7977	93.0	2688	62,600	PSI
IMR 7828	81.0	2566	53,000	CUP
IMR 4955	82.5	2571	62,800	PSI
H4831	79.0	2511	53,100	CUP
IMR 4831	76.0	2541	53,300	CUP
<b>375 H&amp;H MAGNUM CASE: WINCHESTER PR: FEDERAL 215 M BBL: 24"</b>				
<b>270 GR. BAR TSX COL: 3.550"</b>				
HYBRID 100V	75.0C	2588	46,100	CUP
H4350	75.0C	2465	42,800	CUP
IMR 4350	76.0C	2464	46,700	CUP
H380	78.0	2632	50,100	CUP
VARGET	65.0	2521	50,000	CUP
IMR 4064	68.0C	2530	49,700	CUP
IMR 4895	66.0	2474	49,500	CUP
<b>300 GR. SIE SPBT COL: 3.600"</b>				
HYBRID 100V	72.0C	2400	47,400	CUP

Loads listed are Maximim. Do NOT Exceed. Reduce by 10% to Start.  
For complete reloading data, please visit [www.HodgdonReloading.com](http://www.HodgdonReloading.com)

# RIFLE data

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

BULLET	POWDER	GR	VEL	CUP
IMR 4831	80.0C	2560	48,300	CUP
H4350	81.5C	2645	49,500	CUP
IMR 4350	78.0C	2620	52,700	CUP
760	78.0	2548	46,800	CUP
VARGET	62.0	2454	49,300	CUP
IMR 4064	67.0	2525	52,500	CUP
H4895	65.0	2505	50,400	CUP
SR 4759	39.0	1925	53,000	CUP

BULLET	POWDER	GR	VEL	CUP
H4895	77.0C	2349	42,500	CUP
IMR 8208 XBR	77.0C	2362	44,300	CUP
BENCHMARK	78.0C	2343	46,600	CUP
H322	76.0C	2407	51,100	CUP
H4198	67.0	2323	51,000	CUP
.....				
<b>405 GR. CAST LFP</b>				<b>COL: 2.910"</b>
TRAIL BOSS	21.0	1082	17,100	CUP
.....				
<b>500 GR. HDY JRN</b>				<b>COL: 3.310"</b>
VARGET	74.0C	2152	48,100	CUP
748	73.0	2040	39,000	CUP
H335	75.5	2163	50,300	CUP
H4895	74.0C	2161	50,300	CUP
IMR 8208 XBR	73.5C	2140	49,700	CUP
BENCHMARK	73.0C	2123	50,300	CUP
H322	69.5C	2109	52,000	CUP
H4198	58.5	1987	51,100	CUP

444 MARLIN		CASE: REMINGTON		
BBL: 24"		PR: REMINGTON 9 1/2		
.....				
<b>265 GR. HDY JFP</b>				<b>COL: 2.550"</b>
H335	56.0	2187	39,700	CUP
H4895	53.0C	2080	34,800	CUP
IMR 8208 XBR	53.5C	2135	39,100	CUP
BENCHMARK	53.0C	2139	40,700	CUP
H322	52.0C	2164	38,300	CUP
H4198	47.0	2273	41,100	CUP
.....				
<b>300 GR. SFT HP</b>				<b>COL: 2.620"</b>
VARGET	50.0C	1914	35,700	CUP
H335	52.0	2023	42,300	CUP
H4895	50.0C	1931	35,600	CUP
IMR 8208 XBR	49.0	2029	41,600	CUP
BENCHMARK	48.5	1993	41,900	CUP
H322	48.0	2038	42,600	CUP
H4198	42.5	2082	42,500	CUP

50 BROWNING MACHINE GUN		CASE: FNB		
BBL: 45"		PR: CCI 35		
.....				
<b>650 GR. M-33</b>				<b>COL: 5.425"</b>
US869	265.0	3155		
.....				
<b>750 GR. HDY A-MAX</b>				<b>COL: 5.450"</b>
US869	250.0	2944		
.....				
<b>800 GR. BAR SOLID</b>				<b>COL: 5.630"</b>
US869	250.0	2895		

45-70 GOVERNMENT (TRAPDOOR RIFLE)*		CASE: WINCHESTER		
BBL: 24"		PR: CCI 200		
.....				
<b>300 GR. SIE HP</b>				<b>COL: 2.525"</b>
VARGET	63.0C	2020	23,800	CUP
IMR 4064	60.5C	1992	25,100	CUP
IMR 4166	56.2	1957	26,700	PSI
IMR 4895	61.0C	1968	23,900	CUP
H335	63.5	2143	27,400	CUP
H4895	62.0C	1974	21,000	CUP
IMR 8208 XBR	60.0	2023	25,400	CUP
IMR 3031	59.5C	2021	22,000	CUP
BENCHMARK	63.5C	2113	27,400	CUP
H322	60.0	2142	28,000	CUP
IMR 4198	48.0	2138	27,800	CUP
H4198	55.0	2221	27,600	CUP
.....				
<b>405 GR. CAST LFP</b>				<b>COL: 2.540"</b>
VARGET	50.0	1718	20,900	CUP
IMR 4064	49.5	1660	23,200	CUP
IMR 4166	49.0	1700	27,400	PSI
IMR 4895	48.5	1598	23,000	CUP
H4895	48.0	1645	18,900	CUP
IMR 8208 XBR	51.0	1727	23,600	CUP
IMR 3031	48.5	1706	21,100	CUP
BENCHMARK	50.0	1695	22,600	CUP
IMR 4198	32.0	1462	19,000	CUP
H4198	31.0	1459	17,100	CUP
TRAIL BOSS	13.0	1007	25,600	CUP

458 WINCHESTER MAGNUM		CASE: WINCHESTER		
BBL: 24"		PR: CCI 250		
.....				
<b>400 GR. SFT SP</b>				<b>COL: 3.220"</b>
VARGET	77.0C	2310	38,800	CUP

Loads listed are Maximim. Do NOT Exceed. Reduce by 10% to Start.  
For complete reloading data, please visit [www.HodgdonReloading.com](http://www.HodgdonReloading.com)

# PISTOL data

BULLET	POWDER	GR	VEL	CUP
<b>32 H&amp;R MAGNUM</b>				
BBL: 5"		CASE: FEDERAL		
		PR: FEDERAL 100		
85 GR. HDY HP		COL: 1.290"		
H4227	9.5	1151	21,000 CUP	
LIL'GUN	12.0	1263	16,800 CUP	
LONGSHOT	5.0	1167	20,200 CUP	
572	4.8	1145	20,700 CUP	
HS-6	5.6	1146	20,200 CUP	
AUTOCOMP	4.6	1114	19,200 CUP	
UNIVERSAL	4.3	1123	19,000 CUP	
244	4.1	1111	20,300 CUP	
231	3.8	1003	20,700 CUP	
HP-38	3.8	1003	20,700 CUP	
IMR TARGET	4.0	1140	21,000 CUP	
TITEGROUP	3.7	1110	20,900 CUP	
.....				
100 GR. SPR JHP		COL: 1.345"		
H4227	10.0	1060	19,300 CUP	
LIL'GUN	11.0	1208	19,900 CUP	
LONGSHOT	4.7	1056	19,300 CUP	
572	4.4	1018	20,700 CUP	
HS-6	5.4	1023	20,200 CUP	
AUTOCOMP	4.2	964	18,900 CUP	
UNIVERSAL	3.7	973	19,900 CUP	
231	3.7	947	19,400 CUP	
HP-38	3.7	947	19,400 CUP	
IMR TARGET	3.5	961	19,900 CUP	
TITEGROUP	3.3	956	19,900 CUP	
.....				
380 AUTO		CASE: REMINGTON		
BBL: 3.75"		PR: CCI 500		
90 GR. HDY JHP		COL: .955"		
572	4.4	1053	19,900 PSI	
CFE PISTOL	4.2	1010	19,500 PSI	
AUTOCOMP	4.5	1012	15,000 CUP	
UNIVERSAL	3.6	955	15,700 CUP	
244	3.7	1061	19,800 PSI	
231	3.5	957	15,400 CUP	
HP-38	3.5	957	15,400 CUP	
IMR TARGET	3.3	976	19,200 PSI	
TITEGROUP	3.2	970	15,600 CUP	
700-X	2.9	895	15,900 CUP	
.....				
100 GR. HDY FMJ		COL: .980"		
572	4.1	965	19,800 PSI	
CFE PISTOL	4.0	955	19,800 PSI	
AUTOCOMP	4.2	934	14,400 CUP	
UNIVERSAL	3.4	889	16,100 CUP	
244	3.5	994	19,500 PSI	
231	3.1	843	15,400 CUP	
HP-38	3.1	843	15,400 CUP	
IMR TARGET	3.3	945	19,400 PSI	
TITEGROUP	3.0	912	14,700 CUP	
700-X	2.7	840	15,200 CUP	
.....				
9MM LUGER		CASE: WINCHESTER		
BBL: 4"		PR: CCI 500		
115 GR. SPR GDHP		COL: 1.125"		
700-X	4.2	1091	31,900 PSI	
LONGSHOT	6.0	1203	32,300 PSI	
572	5.7	1221	33,000 PSI	

BULLET	POWDER	GR	VEL	CUP
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	
.....				
125 GR. SIE FMJ		COL: 1.090"		
LONGSHOT	5.7	1162	33,400 PSI	
572	4.9	1119	31,600 PSI	
HS-6	6.8	1169	27,100 CUP	
CFE PISTOL	5.1	1118	33,000 PSI	
AUTOCOMP	5.2	1120	33,300 PSI	
UNIVERSAL	4.9	1118	30,600 CUP	
244	4.1	1091	32,500 PSI	
231	4.8	1088	28,800 CUP	
HP-38	4.8	1088	28,800 CUP	
IMR TARGET	4.3	1082	32,700 PSI	
TITEGROUP	4.4	1136	30,600 CUP	
700-X	3.6	1007	31,000 PSI	
CLAYS	3.7	1056	32,500 CUP	
.....				
147 GR. HDY XTP		COL: 1.100"		
LONGSHOT	4.7	1004	33,800 PSI	
572	4.1	957	32,200 PSI	
HS-6	5.0	885	27,900 CUP	
CFE PISTOL	4.2	963	33,000 PSI	
AUTOCOMP	4.0	916	32,800 PSI	
UNIVERSAL	3.3	869	31,000 CUP	
244	3.4	931	33,000 PSI	
IMR TARGET	3.5	927	33,500 PSI	
TITEGROUP	3.6	929	27,500 CUP	
700-X	2.9	838	32,000 PSI	
.....				
38 SPECIAL		CASE: WINCHESTER		
BBL: 7.7"		PR: WINCHESTER SP		
125 GR. HDY XTP		COL: 1.455"		
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	
HP-38	4.9	934	16,300 CUP	
IMR TARGET	4.6	1051	16,800 PSI	
TITEGROUP	4.6	1010	15,600 CUP	
700-X	4.2	969	17,000 PSI	
CLAYS	3.9	937	16,100 CUP	
.....				
158 GR. HDY XTP		COL: 1.455"		
H4227	10.0	864	15,500 CUP	
572	4.5	770	16,600 PSI	
HS-6	6.2	862	16,300 CUP	
CFE PISTOL	5.0	914	16,200 PSI	
AUTOCOMP	4.9	865	16,800 PSI	
UNIVERSAL	4.4	778	16,200 CUP	
244	3.8	772	16,200 PSI	

BULLET	POWDER	GR	VEL	CUP
231	4.3	779	15,900 CUP	
HP-38	4.3	779	15,900 CUP	
IMR TARGET	3.8	800	16,900 PSI	
TITEGROUP	3.9	798	15,900 CUP	
700-X	3.7	798	15,900 PSI	
CLAYS	3.1	721	16,600 CUP	
.....				
38 SPECIAL +P		CASE: WINCHESTER		
BBL: 7.7"		PR: WINCHESTER SP		
NOTE: +P MARKED GUNS ONLY				
125 GR. HDY XTP		COL: 1.455"		
LONGSHOT	7.0	1228	18,300 PSI	
572	6.1	1071	18,400 PSI	
HS-6	7.8	1138	19,500 CUP	
CFE PISTOL	6.4	1199	18,600 PSI	
AUTOCOMP	6.4	1073	17,600 PSI	
UNIVERSAL	5.4	1072	18,900 CUP	
244	5.6	1124	18,400 PSI	
HP-38	5.3	1018	19,800 CUP	
IMR TARGET	5.0	1082	18,000 PSI	
TITEGROUP	5.0	1069	18,700 CUP	
700-X	4.4	1023	18,100 PSI	
.....				
158 GR. HDY XTP		COL: 1.455"		
H4227	11.0	964	17,600 CUP	
LONGSHOT	5.5	965	17,000 PSI	
572	5.0	872	18,400 PSI	
HS-6	6.6	926	18,700 CUP	
CFE PISTOL	5.4	986	18,500 PSI	
AUTOCOMP	5.0	885	17,000 PSI	
UNIVERSAL	4.7	837	19,200 CUP	
244	4.0	815	17,800 PSI	
HP-38	4.6	807	18,100 CUP	
IMR TARGET	4.3	888	18,400 PSI	
TITEGROUP	4.3	905	19,300 CUP	
700-X	4.0	866	18,500 PSI	
.....				
357 MAGNUM		CASE: WINCHESTER		
BBL: 10"		PR: WINCHESTER SPM		
125 GR. HDY XTP		COL: 1.590"		
H4227	20.0	1839	42,000 CUP	
296	22.0	1966	41,400 CUP	
H110	22.0	1966	41,400 CUP	
LONGSHOT	9.7	1647	42,000 CUP	
HS-6	10.9	1629	42,100 CUP	
CFE PISTOL	8.0	1480	32,500 PSI	
AUTOCOMP	8.2	1455	31,700 PSI	
UNIVERSAL	7.6	1453	39,600 CUP	
244	7.5	1394	33,300 PSI	
231	8.5	1514	42,700 CUP	
HP-38	8.5	1514	42,700 CUP	
TITEGROUP	7.5	1497	41,200 CUP	
700-X	6.4	1399	30,400 PSI	
.....				
158 GR. HDY XTP		COL: 1.580"		
H4227	16.0	1520	42,600 CUP	
296	16.7	1591	40,700 CUP	
H110	16.7	1591	40,700 CUP	
LIL'GUN	18.0	1577	25,800 CUP	
LONGSHOT	8.4	1394	43,200 CUP	
HS-6	9.5	1375	41,900 CUP	
CFE PISTOL	6.9	1233	33,700 PSI	

BULLET	POWDER	GR	VEL	CUP
AUTOCOMP	7.0	1181	33,200 PSI	
UNIVERSAL	6.3	1133	39,300 CUP	
244	6.2	1204	33,100 PSI	
231	6.9	1220	40,000 CUP	
HP-38	6.9	1220	40,000 CUP	
TITEGROUP	6.1	1229	41,900 CUP	
700-X	5.7	1149	31,200 PSI	
.....				
40 S&W		CASE: HORNADY		
BBL: 4"		PR: WINCHESTER SP		
WARNING: This data is intended for use in firearms with barrels which fully support the cartridge in the chamber. Use of this data in firearms which do not fully support the cartridge may result in bulged cases, ruptured cases, case head separation, or other condition which may result in damage to the firearm and/or result in injury or death of the shooter and/or bystanders. Check with your firearm manufacturer if in doubt.				
180 GR. HDY XTP		COL: 1.125"		
LONGSHOT	8.0	1159	32,300 PSI	
572	5.7	1002	33,100 PSI	
HS-6	6.9	976	32,500 PSI	
CFE PISTOL	6.0	1051	32,200 PSI	
AUTOCOMP	6.3	1053	33,200 PSI	
UNIVERSAL	5.8	1046	33,400 PSI	
WSF	5.8	1013	32,900 PSI	
244	5.0	1006	33,100 PSI	
231	5.0	947	32,900 PSI	
HP-38	5.0	947	32,900 PSI	
WST	4.3	888	32,400 PSI	
IMR TARGET	5.1	1049	33,900 PSI	
TITEGROUP	4.7	978	33,300 PSI	
700-X	4.8	966	32,500 PSI	
CLAYS	3.5	847	34,300 PSI	
.....				
200 GR. HDY XTP		COL: 1.125"		
LONGSHOT	6.0	954	32,500 PSI	
572	4.6	871	33,800 PSI	
HS-6	6.3	900	32,800 PSI	
CFE PISTOL	4.8	897	33,500 PSI	
AUTOCOMP	5.2	894	32,100 PSI	
UNIVERSAL	4.7	903	33,600 PSI	
WSF	4.8	867	33,100 PSI	
244	4.3	894	33,200 PSI	
231	4.7	857	33,400 PSI	
HP-38	4.7	857	33,400 PSI	
WST	3.4	733	31,100 PSI	
TITEGROUP	3.8	822	31,700 PSI	
700-X	3.9	810	30,700 PSI	
.....				
41 REMINGTON MAGNUM		CASE: REMINGTON		
BBL: 10.125"		PR: WINCHESTER LP		
170 GR. SIE JHC		COL: 1.575"		
H4227	24.9	1745	35,600 CUP	
296	26.5	1887	37,400 CUP	
H110	26.5	1887	37,400 CUP	
LONGSHOT	12.5	1646	38,700 CUP	
HS-6	13.7	1597	37,200 CUP	
UNIVERSAL	10.3	1488	38,700 CUP	

Loads listed are Maximim. Do NOT Exceed. Reduce by 10% to Start.  
For complete reloading data, please visit [www.HodgdonReloading.com](http://www.HodgdonReloading.com)



# Pistol data

BULLET	POWDER	GR	VEL	CUP
HP-38	9.8	1440	38,300	CUP
TITEGROUP	9.2	1470	37,700	CUP
700-X	8.4	1375	39,800	CUP
<b>220 GR. SPR JSP COL: 1.580"</b>				
H4227	20.0	1433	37,500	CUP
296	20.0	1529	34,000	CUP
H110	20.0	1529	34,000	CUP
LIL'GUN	20.5	1563	31,200	CUP
LONGSHOT	10.1	1311	37,700	CUP
HS-6	11.3	1271	36,700	CUP
AUTOCOMP	9.1	1221	38,300	CUP
UNIVERSAL	8.5	1178	38,600	CUP
HP-38	8.0	1125	36,700	CUP
TITEGROUP	7.3	1127	33,700	CUP

<b>44 S&amp;W SPECIAL</b>		<b>CASE: STARLINE</b>		
<b>BBL: 8"</b>		<b>PR: WINCHESTER LP</b>		
<b>185 GR. CAST LRNFP COL: 1.400"</b>				
UNIVERSAL	6.4	1031	13,900	CUP
HP-38	5.6	953	12,500	CUP
TRAIL BOSS	6.6	944	12,600	CUP
IMR TARGET	5.8	1022	13,300	CUP
TITEGROUP	5.5	1025	11,600	CUP
700-X	5.4	1013	13,500	CUP
CLAYS	4.2	930	13,200	CUP

<b>240 GR. CAST LSWC</b>		<b>COL: 1.450"</b>		
572	6.3	913	13,100	CUP
HS-6	8.0	917	13,000	CUP
CFE PISTOL	6.6	898	13,800	CUP
AUTOCOMP	6.5	903	13,400	CUP
UNIVERSAL	5.6	873	13,300	CUP
244	5.2	870	13,600	PSI
HP-38	5.2	858	13,200	CUP
TRAIL BOSS	5.2	763	11,700	CUP
IMR TARGET	4.9	877	13,600	CUP
TITEGROUP	4.8	862	13,100	CUP
700-X	4.9	869	13,800	CUP
CLAYS	4.0	771	13,500	CUP

<b>44 REMINGTON MAGNUM</b>		<b>CASE: WINCHESTER</b>		
<b>BBL: 8.275"</b>		<b>PR: REMINGTON 2 1/2</b>		
<b>240 GR. NOS JHP COL: 1.600"</b>				
IMR 4227	24.0	1458	36,100	CUP
296	24.0	1522	36,200	CUP
H110	24.0	1522	36,200	CUP
LIL'GUN	24.5	1582	38,100	CUP
LONGSHOT	12.1	1331	34,500	PSI
572	11.9	1331	34,900	PSI
HS-6	15.1	1417	38,200	CUP
CFE PISTOL	12.0	1304	35,000	PSI
AUTOCOMP	11.5	1250	34,100	PSI
UNIVERSAL	10.2	1246	38,200	CUP
244	10.5	1294	34,800	PSI
231	11.0	1272	37,800	CUP
HP-38	11.0	1272	37,800	CUP
TITEGROUP	10.0	1292	37,700	CUP

<b>300 GR. HDY XTP</b>		<b>COL: 1.600"</b>		
IMR 4227	20.0	1312	38,600	CUP
296	19.0	1325	38,800	CUP

BULLET	POWDER	GR	VEL	CUP
H110	19.0	1325	38,800	CUP
LIL'GUN	17.7	1280	37,600	CUP
LONGSHOT	9.5	1071	34,700	PSI
572	8.9	1042	34,300	PSI
HS-6	13.0	1214	37,900	CUP
CFE PISTOL	8.7	987	34,800	PSI
AUTOCOMP	9.0	927	33,500	PSI
UNIVERSAL	9.6	1113	38,200	CUP
244	7.8	991	34,900	PSI
231	10.0	1149	38,100	CUP
HP-38	10.0	1149	38,100	CUP
TITEGROUP	9.6	1186	38,400	CUP

<b>45 ACP</b>		<b>CASE: WINCHESTER</b>		
<b>BBL: 5"</b>		<b>PR: FEDERAL 150</b>		
<b>185 GR. HDY JSWC COL: 1.195"</b>				
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

<b>200 GR. SPR JHP</b>		<b>COL: 1.155"</b>		
LONGSHOT	7.8	1013	16,900	CUP
572	7.4	992	20,200	PSI
HS-6	9.0	948	16,400	CUP
CFE PISTOL	7.2	1010	20,200	PSI
AUTOCOMP	7.0	930	16,000	CUP
UNIVERSAL	6.2	949	17,200	CUP
WSF	6.8	929	16,700	CUP
244	5.9	957	19,700	PSI
231	5.9	906	16,700	CUP
HP-38	5.9	906	16,700	CUP
WST	5.1	898	17,500	CUP
IMR TARGET	5.9	969	19,300	PSI
TITEGROUP	5.2	884	16,900	CUP
700-X	5.3	911	16,700	CUP
CLAYS	4.3	785	17,700	CUP

<b>230 GR. HDY FMJ FP</b>		<b>COL: 1.200"</b>		
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

BULLET	POWDER	GR	VEL	CUP
700-X	4.9	842	16,600	CUP
CLAYS	4.0	732	17,000	CUP

<b>45 COLT</b>		<b>CASE: WINCHESTER</b>		
<b>BBL: 7.25"</b>		<b>PR: WINCHESTER LP</b>		
<b>260 GR. SPR JHP COL: 1.595"</b>				
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

<b>300 GR. SIE JFP</b>		<b>COL: 1.670"</b>		
HS-6	10.0	730	13,700	CUP
UNIVERSAL	7.3	700	13,700	CUP
244	6.3	664	13,200	PSI
TITEGROUP	5.8	682	12,900	CUP

<b>454 CASULL</b>		<b>CASE: FREEDOM ARMS</b>		
<b>BBL: 9.375"</b>		<b>PR: WINCHESTER SR</b>		
<b>260 GR. FA JFP COL: 1.765"</b>				
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

<b>300 GR. FA JFP</b>		<b>COL: 1.775"</b>		
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

<b>460 S&amp;W MAGNUM</b>		<b>CASE: STARLINE</b>		
<b>BBL: 10.743"</b>		<b>PR: WINCHESTER LRM</b>		
<b>260 GR. NOS PART COL: 2.175"</b>				
H4227	43.0C	2098	51,300	PSI
H110	46.0	2178	54,000	PSI
LIL'GUN	46.0	2080	43,400	PSI
296	46.0	2178	54,000	PSI

<b>300 GR. HDY XTP MAG.</b>		<b>COL: 2.160"</b>		
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

<b>500 S&amp;W MAGNUM</b>		<b>CASE: STARLINE</b>		
<b>BBL: 10"</b>		<b>PR: WINCHESTER LR</b>		
<b>350 GR. HDY XTP COL: 1.985"</b>				
H4227	42.5	1863	49,900	PSI
H110	43.0	1877	50,600	PSI
LIL'GUN	42.0	1912	48,100	PSI
296	43.0	1877	50,600	PSI
LONGSHOT	23.0	1602	50,000	PSI
TITEGROUP	18.5	1461	50,000	PSI

<b>400 GR. SIE JSP</b>		<b>COL: 2.050"</b>		
H4227	39.5	1698	49,100	PSI

BULLET	POWDER	GR	VEL	CUP
H110	40.0	1721	49,700	PSI
LIL'GUN	37.0	1725	49,300	PSI
296	40.0	1721	49,700	PSI
LONGSHOT	22.0	1458	49,000	PSI
TITEGROUP	17.5	1335	49,900	PSI

Loads listed are Maximim. Do NOT Exceed. Reduce by 10% to Start.  
For complete reloading data, please visit [www.HodgdonReloading.com](http://www.HodgdonReloading.com)

# SHOTSHELL 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.

<b>BP/SPTG16:</b>	BPG/BP, BPG/BP, G/BP16, SG16	<b>WAA12:</b>	CB1118-12, CBO118-12, WT12, BLUE DUSTER, DRA12, DR XL 1 1/8 BLUE, MEC 118T4, MEC118BIOT4
<b>FEDERAL 12C1:</b>	CB3118-12AR	<b>REMINGTON TGT12:</b>	DRT12, CB 8100-12
<b>FEDERAL 12S0:</b>	CB2100-12, DR XXL ORANGE, DR HFO, DR FO, MEC100S4	<b>WAA12SL:</b>	CB1100-12, GREEN DUSTER, JAMMER XL-1, DR XL1 GREEN, SG-1, DRA 12 PINK, MEC100T4, MEC100BIOT4
<b>FEDERAL 12S3:</b>	CB2118-12, DRF3, DR HF3, MEC118T8	<b>WAA12L:</b>	CB0178-12, DR XXL PINK, MEC78T4
<b>HOR. VERSALITE:</b>	DRV-12	<b>WAA12F114:</b>	CB1114-12, DRA-12 YELLOW
<b>HOR. VERSALITE 20:</b>	DRV-20	<b>WAA20:</b>	CB1078-20, YELLOW DUSTER
<b>PATTERN CONTROL RED:</b>	PC-12-POST	<b>WAA28:</b>	CB1034-28, RED DUSTER
<b>REMINGTON TGT 12:</b>	CB8100-12, DR RT 12, DR RHT 12	<b>WAA28HS:</b>	CB5034-28HS
<b>REMINGTON FIG 8:</b>	CB8118-12, DR RF8, DR HRF8, CB3118-12A, MEC118T8	<b>WAA41, WAA410HS, SP410, 410SC:</b>	CB5050-410 HS
<b>REMINGTON SP 20:</b>	REMINGTON SP20S	<b>WAA16:</b>	CB0100-16
<b>WAA12R:</b>	CB1138-12	<b>WINDJAMMER:</b>	CB4118-12B, DR WJRPL, SG-12
<b>WAA12F114:</b>	CB1114-12, DRA 12 YELLOW	<b>WINDJAMMER LIGHTNING:</b>	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:

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

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.

$$\begin{aligned} \text{Gw} &= 8 \text{ lb.} \\ \text{Bw} &= \frac{492.0 + 33.0}{7000} = \frac{525}{7000} = .075 \text{ lb.} \\ \text{Pw} &= \frac{18}{7000} = .003 \text{ lb.} \\ \text{Mv} &= 1200 \text{ ft/sec} \end{aligned}$$

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

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	TITWAD	LIL' GUN	572/LGSH	TITE 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	TITWAD	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				14.7			14.8
C1			13	19.6			20.1	17	16				15.3		16.4	15.5
D			13.2	20.4			21.4	17.3	16.3				16.1		16.6	15.7
D1			14	21.3			22.4	18.2	17				16.4	12.6	17.7	17
E			15.7	23.5			25.2	20.7	19.4				18.4	14.1	20.1	19
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		14.7	27	22.8	21.3	12.9	12.2	12.3	20.1	15.2	21.9	20.9
F			18.1	27.5		15.6	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		15.8		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	34		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	34.5			
P	21.5	24.5						39.9			21.3	21.8	35.2			
Q	21.9	25						40.1			21.9	22.3	36			
R								41.8			22.9	23.2	37.5			
S								42.5				23.6	38.1			
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/ LGSH	TITE GRP	700-X	IMR RED	IMR GRN	IMR BLUE	WST	WSF	SUPER HCP
11		333						266								
12		348					250	272			384	363		333		300
13		363	330		256		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		444	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	399	
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	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			444						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---LGSH  
 IMR GREEN---IMR GRN  
 TITEGROUP---TITE GRP

# Mec

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
7																
8																
9																
10										13.5			13.4			
11										14.4			13.8	11.7		
12										15.4			14.8	12.4		
12A										15.5	16.4		15.9	13.2		
13										16.1	17		16.4	13.9		
14										17.9			18.6	15.4	13.8	
15										19.4	16.1	14.5				
16										20.7	17	15.4		10.3	15.5	16.2
17										21.4	17.8	16.2		10.8	16.1	11.9
18										22.6	18.7	17.1		11.3	16.8	12.5
19										23.6	19.5	18.1		11.8	17.7	13.1
20										25.9	21.2	19.7		12.1	12.9	19.3
21										27.2	22.1	20.2	12.5	12.6	13.5	20.2
22										28.1	23.1	21.1	13.1	13.1	14	21.2
23										29.7	24.1	22.1	13.7	14.6	21.8	16.2
24										30.1	25.1	23.1	14.2	15.2	22.5	16.8
25										31.1	26.1	24.1	14.3	14.2	22.5	16.8
26										32.1	27.1	25.1	14.4	14.2	22.5	16.8
27	14.6	17.1	20.2	31.2	17.6	26.9	24.7	15.6	15.7	16.4	24.6	18.2	25.7			
28	15.2	17.7	21.1	32.6	18.3	28	25.8	16.3	16.4	17	25.5	18.9	26.6			
29	15.9	18.3	21.7	33.6	19	29	26.9	17.1	17.7	26.4	19.5	27.6				
30	16.3	19.1	22.7	35	19.7	30.1	28.1	17.6	17.8	18.3	27.3	20.4	29			
31	16.9	19.9	23.4	36.2	20.4	31.1	29.1	18.3	18.5	19	28.2	21	30			
32	17.5	20.6	24.4	37.8	21.4	32.2	30.1	19.3	19.2	19.6	29.1	21.8	31.4			
33	18.2	21.2	25.2	39	22.2	33.3	31.1	19.7	19.9	20.3	30.5	22.6	32.4			
34	18.9	21.9	26	40.4	23	34.5	32.1	20.4	20.6	21	31.6	23.4				
35	19.4	22.6	26.7	41.1	23.4	35.6	33.1	21.2	21.3	21.7	32.7	24.2				
36	20.1	23.4	27.6	43	24	36.7	34.1	21.9	21.9	22.4	33.8	25.2				
37	20.7	24.2	28.7	44.4	25.3	38	35.1	22.7	23.2	35						
38	21.4	25.1	29.7	46.2		39.3	36.1	23.3	23.9	36.1						
38A	22	26				40.6	37.1	24.1	24.7	37.3						
39	22.8	26.9		47.6		42	38.1	24.7	25.4	38.5						
39A						43.1	39.1	25.2	26.2	39.7						
40						44.4	40.1	25.9	27	40.9						
41						47.3	43.1			43.4						
41A						48.8	44.1			44.7						
42						50.2	46.1			46						
42A						51.5	47.1			47.4						
43						53	48.1			48.7						
43A							50.1									

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

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
<b>12 GA., 2 3/4", FEDERAL GOLD MEDAL PLASTIC SHELLS</b>							
				<b>1250 fps</b>	<b>1300 fps</b>	<b>1350 fps</b>	<b>1400 fps</b>
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
				<b>1200 fps</b>	<b>1250 fps</b>	<b>1300 fps</b>	<b>1350 fps</b>
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
				<b>1250 fps</b>	<b>1300 fps</b>	<b>1350 fps</b>	<b>1400 fps</b>
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
				<b>1325 fps</b>	<b>1400 fps</b>		
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		
				<b>1150 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>	<b>1300 fps</b>
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
				<b>1180 fps</b>	<b>1235 fps</b>	<b>1290 fps</b>	<b>1345 fps</b>
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
				<b>1125 fps</b>	<b>1180 fps</b>	<b>1235 fps</b>	<b>1290 fps</b>
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

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
<b>12 GA., 2 3/4", FEDERAL GOLD MEDAL PLASTIC SHELLS (CONT.)</b>							
				<b>1180 fps</b>	<b>1235 fps</b>	<b>1290 fps</b>	<b>1345 fps</b>
1 oz.	IMR Red	CCI 209	CB 6100-12	17.0 gr / 6,700 PSI	18.3 gr / 7,700 PSI	19.6 gr / 8,800 PSI	20.9 gr / 9,800 PSI
1 oz.	IMR Red	CCI 209	DRA 12 PINK	16.5 gr / 7,500 PSI	17.9 gr / 8,000 PSI	19.2 gr / 9,400 PSI	20.6 gr / 10,700 PSI
1 oz.	IMR Red	CCI 209	Rem. TGT 12	16.5 gr / 7,200 PSI	17.9 gr / 8,200 PSI	19.2 gr / 9,200 PSI	20.6 gr / 10,200 PSI
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	Rem. 209P	CB 6100-12	16.7 gr / 6,300 PSI	18.0 gr / 7,400 PSI	19.4 gr / 8,400 PSI	20.7 gr / 9,500 PSI
1 oz.	IMR Red	Rem. 209P	DRA 12 PINK	16.3 gr / 7,500 PSI	17.6 gr / 8,600 PSI	19.0 gr / 9,600 PSI	20.3 gr / 10,700 PSI
1 oz.	IMR Red	Rem. 209P	Rem. TGT 12	16.4 gr / 7,000 PSI	17.7 gr / 8,100 PSI	19.1 gr / 9,200 PSI	20.4 gr / 10,300 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
				<b>1235 fps</b>	<b>1290 fps</b>	<b>1345 fps</b>	<b>1400 fps</b>
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
				<b>1180 fps</b>	<b>1235 fps</b>	<b>1290 fps</b>	<b>1345 fps</b>
1 oz.	IMR Green	CCI 209	CB 6100-12	19.0 gr / 6,200 PSI	20.5 gr / 7,100 PSI	22.0 gr / 8,000 PSI	23.5 gr / 8,900 PSI
1 oz.	IMR Green	CCI 209	DRA 12 PINK	18.5 gr / 6,900 PSI	20.1 gr / 7,800 PSI	21.7 gr / 8,700 PSI	23.3 gr / 9,600 PSI
1 oz.	IMR Green	CCI 209	Rem. TGT 12	18.7 gr / 6,500 PSI	20.3 gr / 7,500 PSI	21.9 gr / 8,400 PSI	23.5 gr / 9,400 PSI
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	Rem. 209P	CB 6100-12	19.4 gr / 6,100 PSI	20.8 gr / 6,900 PSI	22.3 gr / 7,600 PSI	23.7 gr / 8,400 PSI
1 oz.	IMR Green	Rem. 209P	DRA 12 PINK	19.3 gr / 6,500 PSI	20.8 gr / 7,400 PSI	22.3 gr / 8,400 PSI	23.8 gr / 9,300 PSI
1 oz.	IMR Green	Rem. 209P	Rem. TGT 12	19.1 gr / 6,400 PSI	20.6 gr / 7,300 PSI	22.1 gr / 8,100 PSI	23.6 gr / 9,000 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
				<b>1100 fps</b>	<b>1150 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>
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. TGT12	16.0 gr / 5,700 PSI	17.0 gr / 6,200 PSI	18.0 gr / 6,600 PSI	19.5 gr / 7,300 PSI

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
<b>12 GA., 2 3/4", FEDERAL GOLD MEDAL PLASTIC SHELLS (CONT.)</b>							
				<b>1100 fps</b>	<b>1150 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>
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. TGT12	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
				<b>1180 fps</b>	<b>1235 fps</b>	<b>1290 fps</b>	
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	
				<b>1180 fps</b>	<b>1235 fps</b>	<b>1290 fps</b>	<b>1345 fps</b>
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	Rem. 209P	WAA12L	20.4 gr / 5,200 PSI	21.6 gr / 6,100 PSI	22.8 gr / 7,100 PSI	24.0 gr / 8,000 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
				<b>1090 fps</b>	<b>1145 fps</b>	<b>1200 fps</b>	<b>1255 fps</b>
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	-
				<b>1090 fps</b>	<b>1145 fps</b>	<b>1200 fps</b>	<b>1255 fps</b>
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
				<b>1090 fps</b>	<b>1145 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>
1 1/8 oz.	IMR Red	CCI 209	CB 4118-12B	15.4 gr / 6,900 PSI	16.8 gr / 7,900 PSI	18.2 gr / 9,000 PSI	19.5 gr / 9,900 PSI
1 1/8 oz.	IMR Red	CCI 209	DRV-12	15.3 gr / 7,100 PSI	16.7 gr / 8,400 PSI	18.1 gr / 9,700 PSI	19.4 gr / 10,900 PSI
1 1/8 oz.	IMR Red	CCI 209	Fed. 12S3	15.3 gr / 7,100 PSI	16.7 gr / 8,200 PSI	18.2 gr / 9,400 PSI	19.5 gr / 10,400 PSI
1 1/8 oz.	IMR Red	CCI 209	Rem. FIG. 8	15.3 gr / 7,000 PSI	16.7 gr / 8,100 PSI	18.1 gr / 9,200 PSI	19.4 gr / 10,200 PSI
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
1 1/8 oz.	IMR Red	Rem. 209P	CB 4118-12B	15.4 gr / 6,800 PSI	16.8 gr / 7,900 PSI	18.1 gr / 9,000 PSI	19.4 gr / 10,000 PSI
1 1/8 oz.	IMR Red	Rem. 209P	DRV-12	15.1 gr / 7,300 PSI	16.5 gr / 8,400 PSI	17.9 gr / 9,400 PSI	19.2 gr / 10,400 PSI
1 1/8 oz.	IMR Red	Rem. 209P	Fed. 12S3	15.4 gr / 7,600 PSI	16.8 gr / 8,700 PSI	18.1 gr / 9,700 PSI	19.4 gr / 10,700 PSI

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
<b>12 GA., 2 3/4", FEDERAL GOLD MEDAL PLASTIC SHELLS (CONT.)</b>							
				<b>1090 fps</b>	<b>1145 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>
1 1/8 oz.	IMR Red	Rem. 209P	Rem. FIG. 8	15.4 gr / 7,300 PSI	16.8 gr / 8,300 PSI	18.1 gr / 9,400 PSI	19.4 gr / 10,300 PSI
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
				<b>1090 fps</b>	<b>1145 fps</b>	<b>1200 fps</b>	<b>1255 fps</b>
1 1/8 oz	Internat'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	Internat'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	Internat'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
				<b>1090 fps</b>	<b>1145 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>
1 1/8 oz.	IMR Green	CCI 209	CB 4118-12B	17.3 gr / 6,300 PSI	18.8 gr / 7,200 PSI	20.3 gr / 8,200 PSI	21.7 gr / 9,000 PSI
1 1/8 oz.	IMR Green	CCI 209	DRV-12	17.0 gr / 6,600 PSI	18.5 gr / 7,600 PSI	20.0 gr / 8,700 PSI	21.4 gr / 9,600 PSI
1 1/8 oz.	IMR Green	CCI 209	Fed. 12S3	16.9 gr / 6,800 PSI	18.4 gr / 7,900 PSI	19.9 gr / 9,000 PSI	21.3 gr / 10,000 PSI
1 1/8 oz.	IMR Green	CCI 209	Rem. FIG. 8	17.0 gr / 6,800 PSI	18.5 gr / 7,800 PSI	20.0 gr / 8,800 PSI	21.4 gr / 9,700 PSI
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	Rem. 209P	DRV-12	17.5 gr / 6,200 PSI	18.9 gr / 7,300 PSI	20.3 gr / 8,300 PSI	21.6 gr / 9,300 PSI
1 1/8 oz.	IMR Green	Rem. 209P	Fed. 12S3	17.2 gr / 6,600 PSI	18.7 gr / 7,600 PSI	20.3 gr / 8,700 PSI	21.7 gr / 9,600 PSI
1 1/8 oz.	IMR Green	Rem. 209P	Rem. FIG. 8	17.3 gr / 6,700 PSI	18.7 gr / 7,600 PSI	20.1 gr / 8,600 PSI	21.4 gr / 9,400 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
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
				<b>1200 fps</b>	<b>1255 fps</b>	<b>1310 fps</b>	
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	
				<b>1420 fps</b>	<b>1475 fps</b>	<b>1530 fps</b>	<b>1585 fps</b>
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	Rem. 209P	Fed. 12S3	32.9 gr / 8,400 PSI	34.1 gr / 9,300 PSI	35.3 gr / 10,200 PSI	-



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

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
<b>12 GA., 2 3/4", FEDERAL GOLD MEDAL PLASTIC SHELLS (CONT.)</b>							
				<b>1420 fps</b>	<b>1475 fps</b>	<b>1530 fps</b>	<b>1585 fps</b>
1 1/8 oz	Longshot	Rem. 209P	Rem. Fig. 8	32.1 gr / 8,200 PSI	33.9 gr / 9,100 PSI	35.6 gr / 10,000 PSI	37.4 gr / 10,900 PSI
1 1/8 oz	Longshot	Rem. 209P	WAA12	32.4 gr / 8,200 PSI	33.9 gr / 9,100 PSI	35.4 gr / 10,000 PSI	36.9 gr / 10,900 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
				<b>1100 fps</b>	<b>1150 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>
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
				<b>1145 fps</b>	<b>1200 fps</b>	<b>1255 fps</b>	<b>1310 fps</b>
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
				<b>1200 fps</b>	<b>1220 fps</b>	<b>1225 fps</b>	<b>1330 fps</b>
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	-	-
				<b>1330 fps</b>	<b>1385 fps</b>	<b>1440 fps</b>	<b>1495 fps</b>
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	Rem. 209P	Fed. 12S4	28.4 gr / 9,400 PSI	30.1 gr / 10,300 PSI	31.8 gr / 11,300 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
1 1/4 oz	Longshot	Win. 209	WAA12F114	-	33.4 gr / 7,200 PSI	34.4 gr / 9,200 PSI	35.4 gr / 11,300 PSI
				<b>1275 fps</b>	<b>1330 fps</b>	<b>1350 fps</b>	<b>1385 fps</b>
1 1/4 oz	WSF	CCI 209	Fed. 12S4	27.0 gr / 9,200 PSI	29.5 gr / 10,600 PSI	-	-
1 1/4 oz	WSF	Win. 209	Fed. 12S4	-	31.5 gr / 9,500 PSI	-	-
				<b>1220 fps</b>	<b>1275 fps</b>	<b>1330 fps</b>	<b>1385 fps</b>
1 1/4 oz	IMR Blue	CCI 209M	DRA 12 Yellow	30.8 gr / 8,000 PSI	32.7 gr / 8,800 PSI	34.6 gr / 9,700 PSI	36.5 gr / 10,500 PSI
1 1/4 oz	IMR Blue	CCI 209M	Fed. 12S4	30.0 gr / 8,500 PSI	31.9 gr / 9,500 PSI	33.7 gr / 10,400 PSI	35.6 gr / 11,400 PSI
1 1/4 oz	IMR Blue	CCI 209M	Rem. SP12	30.6 gr / 7,300 PSI	32.5 gr / 8,100 PSI	34.4 gr / 9,000 PSI	36.4 gr / 9,800 PSI
1 1/4 oz	IMR Blue	Fed. 209A	DRA 12 Yellow	29.9 gr / 8,100 PSI	31.8 gr / 9,000 PSI	33.6 gr / 9,900 PSI	35.5 gr / 10,800 PSI

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
<b>12 GA., 2 3/4", FEDERAL GOLD MEDAL PLASTIC SHELLS (CONT.)</b>							
				<b>1220 fps</b>	<b>1275 fps</b>	<b>1330 fps</b>	<b>1385 fps</b>
1 1/4 oz.	IMR Blue	Fed. 209A	Fed. 12S4	29.9 gr / 8,600 PSI	31.7 gr / 9,600 PSI	33.5 gr / 10,600 PSI	35.5 gr / 11,500 PSI
1 1/4 oz.	IMR Blue	Fed. 209A	Rem. SP12	30.1 gr / 7,700 PSI	31.8 gr / 8,600 PSI	33.6 gr / 9,500 PSI	35.4 gr / 10,300 PSI
1 1/4 oz.	IMR Blue	Win. 209	DRA 12 Yellow	30.0 gr / 8,100 PSI	32.3 gr / 8,700 PSI	34.6 gr / 9,300 PSI	36.8 gr / 10,000 PSI
1 1/4 oz.	IMR Blue	Win. 209	Fed. 12S4	30.2 gr / 8,500 PSI	32.0 gr / 9,500 PSI	33.8 gr / 10,500 PSI	35.7 gr / 11,500 PSI
1 1/4 oz.	IMR Blue	Win. 209	Rem. SP12	30.4 gr / 7,400 PSI	32.5 gr / 8,200 PSI	34.7 gr / 8,900 PSI	36.8 gr / 9,600 PSI
				<b>1200 fps</b>			
1 1/4 oz	572	Win. 209	Fed. 12S3	25.7 gr / 8,000 PSI			
				<b>1220 fps</b>	<b>1275 fps</b>	<b>1330 fps</b>	<b>1385 fps</b>
1 1/4 oz	572	CCI 209M	Fed. 12S3	25.4 gr / 7,800 PSI	27.0 gr / 8,800 PSI	28.5 gr / 9,800 PSI	29.9 gr / 11,000 PSI
1 1/4 oz	572	CCI 209M	Rem. TGT 12	24.9 gr / 7,700 PSI	26.8 gr / 8,500 PSI	28.7 gr / 9,400 PSI	29.4 gr / 10,400 PSI
1 1/4 oz	572	CCI 209M	WAA12	25.0 gr / 7,500 PSI	26.5 gr / 8,500 PSI	28.0 gr / 9,500 PSI	29.7 gr / 10,600 PSI
1 1/4 oz	572	Fed. 209A	Fed. 12S3	24.7 gr / 8,000 PSI	26.3 gr / 9,200 PSI	28.0 gr / 10,400 PSI	30.0 gr / 11,300 PSI
1 1/4 oz	572	Fed. 209A	Rem. TGT 12	24.6 gr / 7,700 PSI	26.1 gr / 8,700 PSI	27.7 gr / 9,800 PSI	29.5 gr / 11,100 PSI
1 1/4 oz	572	Fed. 209A	WAA12	24.6 gr / 7,900 PSI	26.4 gr / 8,900 PSI	28.2 gr / 9,900 PSI	29.3 gr / 11,200 PSI
1 1/4 oz	572	Rem. 209P	Fed. 12S3	24.2 gr / 8,400 PSI	26.1 gr / 9,700 PSI	-	30.0 gr / 11,100 PSI
1 1/4 oz	572	Rem. 209P	Rem. TGT 12	24.4 gr / 7,900 PSI	26.0 gr / 8,900 PSI	27.7 gr / 9,900 PSI	29.3 gr / 10,000 PSI
1 1/4 oz	572	Rem. 209P	WAA12	24.7 gr / 7,800 PSI	26.6 gr / 8,600 PSI	28.5 gr / 9,500 PSI	30.0 gr / 10,200 PSI
1 1/4 oz	572	Win. 209	Fed. 12S3	-	27.2 gr / 9,100 PSI	28.7 gr / 10,200 PSI	30.9 gr / 11,400 PSI
1 1/4 oz	572	Win. 209	Rem. TGT 12	25.9 gr / 7,100 PSI	27.2 gr / 8,100 PSI	28.5 gr / 9,200 PSI	30.6 gr / 10,800 PSI
1 1/4 oz	572	Win. 209	WAA12	25.5 gr / 7,000 PSI	27.4 gr / 7,700 PSI	29.3 gr / 8,400 PSI	30.6 gr / 10,100 PSI
<b>12 GA., 2 3/4", FEDERAL PAPER SHELLS</b>							
				<b>1250 fps</b>	<b>1325 fps</b>	<b>1400 fps</b>	<b>1475 fps</b>
7/8 oz	Titewad	Fed. 209A	WAA12SL	19.1 gr / 6,900 PSI	20.9 gr / 8,100 PSI	22.7 gr / 9,400 PSI	24.6 gr / 10,600 PSI
7/8 oz	Titewad	Rem. 209P	G/BP SF12	18.4 gr / 8,000 PSI	20.0 gr / 9,400 PSI	21.5 gr / 11,100 PSI	-
7/8 oz	Titewad	Win. 209	WAA12SL	-	21.0 gr / 7,600 PSI	22.9 gr / 8,900 PSI	24.8 gr / 10,200 PSI
7/8 oz	Clays	Fed. 209A	WAA12SL	18.4 gr / 7,200 PSI	20.2 gr / 8,800 PSI	21.9 gr / 10,300 PSI	-
7/8 oz	Clays	Rem. 209P	Rem. Fig. 8	-	20.9 gr / 8,100 PSI	22.5 gr / 9,300 PSI	-
7/8 oz	Clays	Win. 209	WAA12	-	21.2 gr / 7,600 PSI	22.6 gr / 9,300 PSI	24.0 gr / 10,600 PSI
				<b>1200 fps</b>	<b>1250 fps</b>	<b>1300 fps</b>	
7/8 oz	IMR Red	Fed. 209A	CB 0178-12	17.5 gr / 6,000 PSI	18.5 gr / 6,600 PSI	19.5 gr / 7,200 PSI	
				<b>1250 fps</b>	<b>1325 fps</b>	<b>1400 fps</b>	<b>1475 fps</b>
7/8 oz	Internat'l	Fed. 209A	Fed. 12S3	-	22.0 gr / 8,100 PSI	23.5 gr / 9,500 PSI	25.0 gr / 11,300 PSI
7/8 oz	Internat'l	Win. 209	WAA12	-	23.1 gr / 7,400 PSI	24.6 gr / 8,100 PSI	-
				<b>1180 fps</b>	<b>1235 fps</b>	<b>1290 fps</b>	<b>1345 fps</b>
1 oz	Titewad	Fed. 209A	Fed. 12S3	18.1 gr / 7,500 PSI	19.5 gr / 8,400 PSI	20.6 gr / 9,700 PSI	22.0 gr / 11,100 PSI
1 oz	Titewad	Rem. 209P	Rem. Fig. 8	17.9 gr / 7,000 PSI	19.2 gr / 8,000 PSI	20.5 gr / 9,000 PSI	21.9 gr / 10,300 PSI
1 oz	Titewad	Win. 209	WAA12	17.4 gr / 7,200 PSI	18.7 gr / 8,900 PSI	20.0 gr / 9,800 PSI	21.3 gr / 10,900 PSI
1 oz	Clays	Fed. 209A	Fed. 12S0	18.0 gr / 7,100 PSI	19.5 gr / 8,700 PSI	21.0 gr / 10,900 PSI	-

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

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
<b>12 GA., 2 3/4", FEDERAL PAPER SHELLS (CONT.)</b>							
				<b>1180 fps</b>	<b>1235 fps</b>	<b>1290 fps</b>	<b>1345 fps</b>
1 oz	Clays	Rem. 209P	Rem. TGT 12	18.5 gr / 6,000 PSI	20.0 gr / 6,400 PSI	22.0 gr / 7,700 PSI	-
1 oz	Clays	Win. 209	WAA12SL	17.5 gr / 6,400 PSI	19.0 gr / 8,300 PSI	21.0 gr / 10,800 PSI	-
				<b>1150 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>	<b>1300 fps</b>
1 oz.	IMR Red	Ched. 209	CB 6100-12	16.1 gr / 6,200 PSI	17.3 gr / 7,200 PSI	18.4 gr / 8,300 PSI	19.6 gr / 9,300 PSI
1 oz.	IMR Red	Ched. 209	DRF0	16.2 gr / 6,500 PSI	17.4 gr / 7,400 PSI	18.6 gr / 8,300 PSI	19.8 gr / 9,200 PSI
1 oz.	IMR Red	Rem. 209P	CB 6100-12	16.3 gr / 6,200 PSI	17.5 gr / 7,000 PSI	18.6 gr / 7,800 PSI	19.8 gr / 8,600 PSI
1 oz.	IMR Red	Rem. 209P	DRF0	16.3 gr / 6,500 PSI	17.5 gr / 7,400 PSI	18.6 gr / 8,400 PSI	19.8 gr / 9,300 PSI
1 oz.	IMR Red	Win. 209	CB 6100-12	16.2 gr / 5,900 PSI	17.4 gr / 6,700 PSI	18.5 gr / 7,600 PSI	19.7 gr / 8,400 PSI
1 oz.	IMR Red	Win. 209	DRF0	16.0 gr / 6,100 PSI	17.3 gr / 7,200 PSI	18.5 gr / 8,200 PSI	19.8 gr / 9,300 PSI
				<b>1180 fps</b>	<b>1235 fps</b>	<b>1290 fps</b>	<b>1345 fps</b>
1 oz	Internat'l	Fed. 209A	Fed. 12C1	-	20.7 gr / 8,100 PSI	22.0 gr / 9,400 PSI	23.2 gr / 10,600 PSI
1 oz	Internat'l	Rem. 209P	Fed. 12C1	-	-	23.2 gr / 7,900 PSI	24.2 gr / 9,300 PSI
1 oz	Internat'l	Win. 209	Fed. 12C1	-	-	23.2 gr / 7,700 PSI	24.4 gr / 9,100 PSI
				<b>1150 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>	<b>1300 fps</b>
1 oz.	IMR Green	Ched. 209	CB 6100-12	18.4 gr / 5,000 PSI	19.5 gr / 5,800 PSI	20.6 gr / 6,500 PSI	21.7 gr / 7,300 PSI
1 oz.	IMR Green	Ched. 209	DRF0	18.2 gr / 5,300 PSI	19.3 gr / 6,000 PSI	20.5 gr / 6,800 PSI	21.6 gr / 7,500 PSI
1 oz.	IMR Green	Rem. 209P	CB 6100-12	18.0 gr / 5,000 PSI	19.3 gr / 5,700 PSI	20.7 gr / 6,500 PSI	22.0 gr / 7,200 PSI
1 oz.	IMR Green	Rem. 209P	DRF0	18.0 gr / 5,400 PSI	19.1 gr / 6,100 PSI	20.3 gr / 6,800 PSI	21.4 gr / 7,500 PSI
1 oz.	IMR Green	Win. 209	CB 6100-12	18.3 gr / 4,800 PSI	19.6 gr / 5,400 PSI	20.8 gr / 6,000 PSI	22.1 gr / 6,600 PSI
1 oz.	IMR Green	Win. 209	DRF0	18.4 gr / 5,000 PSI	19.5 gr / 5,700 PSI	20.7 gr / 6,500 PSI	21.8 gr / 7,200 PSI
				<b>1090 fps</b>	<b>1145 fps</b>	<b>1200 fps</b>	<b>1255 fps</b>
1 1/8 oz	Titewad	Fed. 209A	Fed. 12C1	16.6 gr / 7,700 PSI	17.9 gr / 8,800 PSI	19.3 gr / 10,100 PSI	-
1 1/8 oz	Titewad	Win. 209	WAA12	16.4 gr / 7,500 PSI	17.4 gr / 8,400 PSI	18.8 gr / 10,000 PSI	-
1 1/8 oz	Clays	Ched. 209	Rem. Fig. 8	16.8 gr / 5,800 PSI	18.4 gr / 8,100 PSI	19.8 gr / 10,300 PSI	-
1 1/8 oz	Clays	Fed. 209A	Fed. 12C1	17.3 gr / 7,500 PSI	18.3 gr / 8,600 PSI	19.3 gr / 9,700 PSI	-
1 1/8 oz	Clays	Rem. 209P	Rem. Fig. 8	18.0 gr / 5,900 PSI	18.5 gr / 7,000 PSI	19.5 gr / 9,200 PSI	-
1 1/8 oz	Clays	Win. 209	Fed. 12C1	-	19.3 gr / 7,600 PSI	20.0 gr / 8,300 PSI	-
1 1/8 oz	Clays	Win. 209	WAA12	17.0 gr / 7,600 PSI	18.0 gr / 8,800 PSI	19.0 gr / 10,900 PSI	-
				<b>1150 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>	
1 1/8 oz.	IMR Red	Ched. 209	DR-XL-1 1/8	16.7 gr / 8,000 PSI	18.1 gr / 9,000 PSI	19.4 gr / 9,900 PSI	
1 1/8 oz.	IMR Red	Ched. 209	DRF3	17.2 gr / 8,100 PSI	18.4 gr / 9,100 PSI	19.6 gr / 10,100 PSI	
1 1/8 oz.	IMR Red	Rem. 209P	DR-XL-1 1/8	16.7 gr / 8,000 PSI	18.0 gr / 9,000 PSI	19.3 gr / 9,900 PSI	
1 1/8 oz.	IMR Red	Rem. 209P	DRF3	17.2 gr / 7,500 PSI	18.6 gr / 8,600 PSI	20.0 gr / 9,600 PSI	
1 1/8 oz.	IMR Red	Win. 209	DR-XL-1 1/8	17.0 gr / 7,900 PSI	18.3 gr / 8,900 PSI	19.6 gr / 9,900 PSI	
1 1/8 oz.	IMR Red	Win. 209	DRF3	17.4 gr / 7,700 PSI	18.6 gr / 9,000 PSI	19.8 gr / 10,200 PSI	
				<b>1090 fps</b>	<b>1145 fps</b>	<b>1200 fps</b>	<b>1255 fps</b>
1 1/8 oz	Internat'l	Ched. 209	Fed. 12C1	18.1 gr / 6,900 PSI	19.3 gr / 8,200 PSI	20.5 gr / 9,500 PSI	21.6 gr / 10,700 PSI
1 1/8 oz	Internat'l	Fed. 209A	Fed. 12C1	19.6 gr / 7,800 PSI	20.9 gr / 9,000 PSI	22.1 gr / 10,200 PSI	-
1 1/8 oz	Internat'l	Win. 209	WAA12	20.0 gr / 6,400 LUP	20.6 gr / 7,000 LUP	21.6 gr / 7,500 LUP	23.2 gr / 8,600 LUP

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
<b>12 GA., 2 3/4", FEDERAL PAPER SHELLS (CONT.)</b>							
1 1/8 oz	Internat'l	Rem. 209P	Fed. 12C1	-	21.8 gr / 7,800 PSI	22.9 gr / 9,000 PSI	-
				<b>1150 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>	
1 1/8 oz.	IMR Green	Ched. 209	DR-XL-1 1/8	18.0 gr / 6,600 PSI	19.2 gr / 7,400 PSI	20.4 gr / 8,300 PSI	
1 1/8 oz.	IMR Green	Ched. 209	DRF3	18.4 gr / 6,700 PSI	19.5 gr / 7,400 PSI	20.6 gr / 8,200 PSI	
1 1/8 oz.	IMR Green	Rem. 209P	DR-XL-1 1/8	18.2 gr / 6,500 PSI	19.4 gr / 7,500 PSI	20.6 gr / 8,500 PSI	
1 1/8 oz.	IMR Green	Rem. 209P	DRF3	18.6 gr / 7,000 PSI	19.8 gr / 7,500 PSI	21.0 gr / 8,000 PSI	
1 1/8 oz.	IMR Green	Win. 209	DR-XL-1 1/8	18.4 gr / 6,400 PSI	19.6 gr / 7,100 PSI	20.8 gr / 7,900 PSI	
1 1/8 oz.	IMR Green	Win. 209	DRF3	19.0 gr / 6,400 PSI	20.1 gr / 7,300 PSI	21.1 gr / 8,300 PSI	
				<b>1365 fps</b>	<b>1420 fps</b>	<b>1475 fps</b>	<b>1530 fps</b>
1 1/8 oz	Longshot	Fed. 209A	Fed. 12C1	-	33.1 gr / 8,500 PSI	34.0 gr / 9,800 PSI	34.9 gr / 11,200 PSI
1 1/8 oz	Longshot	Win. 209	WAA12 F114	-	-	35.7 gr / 8,700 PSI	36.5 gr / 10,100 PSI
				<b>1220 fps</b>	<b>1275 fps</b>	<b>1330 fps</b>	<b>1385 fps</b>
1 1/4 oz.	IMR Blue	CCI 209M	DRA 12 Yellow	30.7 gr / 7,800 PSI	32.7 gr / 8,600 PSI	34.8 gr / 9,400 PSI	36.8 gr / 10,100 PSI
1 1/4 oz.	IMR Blue	CCI 209M	Fed. 12S4	30.2 gr / 8,400 PSI	32.1 gr / 9,400 PSI	34.0 gr / 10,400 PSI	35.9 gr / 11,400 PSI
1 1/4 oz.	IMR Blue	CCI 209M	Rem. SP12	30.7 gr / 7,500 PSI	32.7 gr / 8,200 PSI	34.7 gr / 8,900 PSI	36.7 gr / 9,700 PSI
1 1/4 oz.	IMR Blue	CCI 209M	WAA12R	30.8 gr / 7,200 PSI	32.8 gr / 8,000 PSI	34.7 gr / 8,800 PSI	36.7 gr / 9,700 PSI
1 1/4 oz.	IMR Blue	Fed. 209A	DRA 12 Yellow	29.9 gr / 8,200 PSI	31.6 gr / 9,100 PSI	33.4 gr / 10,000 PSI	35.1 gr / 10,900 PSI
1 1/4 oz.	IMR Blue	Fed. 209A	Fed. 12S4	29.6 gr / 9,000 PSI	31.5 gr / 9,800 PSI	33.3 gr / 10,700 PSI	35.1 gr / 11,500 PSI
1 1/4 oz.	IMR Blue	Fed. 209A	Rem. SP12	29.7 gr / 7,700 PSI	31.6 gr / 8,600 PSI	33.5 gr / 9,500 PSI	35.4 gr / 10,400 PSI
1 1/4 oz.	IMR Blue	Fed. 209A	WAA12R	29.8 gr / 7,700 PSI	31.7 gr / 8,600 PSI	33.7 gr / 9,400 PSI	35.6 gr / 10,300 PSI
1 1/4 oz.	IMR Blue	Win. 209	DRA 12 Yellow	30.3 gr / 7,800 PSI	32.1 gr / 8,800 PSI	33.9 gr / 9,800 PSI	35.7 gr / 10,700 PSI
1 1/4 oz.	IMR Blue	Win. 209	Fed. 12S4	30.3 gr / 8,300 PSI	32.1 gr / 9,300 PSI	33.9 gr / 10,300 PSI	35.8 gr / 11,400 PSI
1 1/4 oz.	IMR Blue	Win. 209	Rem. SP12	30.4 gr / 7,600 PSI	32.3 gr / 8,300 PSI	34.3 gr / 9,100 PSI	36.2 gr / 9,900 PSI
1 1/4 oz.	IMR Blue	Win. 209	WAA12R	30.4 gr / 7,400 PSI	32.3 gr / 8,300 PSI	34.2 gr / 9,100 PSI	36.1 gr / 10,000 PSI
<b>12 GA., 2 3/4", REMINGTON STS, OR NITRO 27, OR GUN CLUB PLASTIC SHELLS</b>							
				<b>1250 fps</b>	<b>1300 fps</b>	<b>1350 fps</b>	<b>1400 fps</b>
7/8 oz	Titewad	Fed. 209A	Rem. TGT 12	16.8 gr / 9,100 PSI	18.0 gr / 10,100 PSI	19.1 gr / 11,000 PSI	20.2 gr / 11,500 PSI
7/8 oz	Titewad	Rem. 209P	Rem. TGT 12	17.4 gr / 8,200 PSI	18.7 gr / 9,100 PSI	19.8 gr / 9,500 PSI	21.0 gr / 10,500 PSI
7/8 oz	Titewad	Rem. 209P	WAA12L	16.9 gr / 8,200 PSI	18.4 gr / 9,400 PSI	19.7 gr / 10,100 PSI	20.9 gr / 11,300 PSI
7/8 oz	Titewad	Win. 209	Rem. TGT 12	17.0 gr / 8,500 PSI	18.0 gr / 9,900 PSI	19.2 gr / 10,900 PSI	-
7/8 oz	Titewad	Win. 209	WAA12L	17.3 gr / 8,300 PSI	18.6 gr / 9,200 PSI	19.8 gr / 10,600 PSI	21.1 gr / 11,300 PSI
				<b>1200 fps</b>	<b>1250 fps</b>	<b>1300 fps</b>	<b>1350 fps</b>
7/8 oz	Clays	Fed. 209A	Fed. 12S0	16.3 gr / 8,900 PSI	17.3 gr / 9,600 PSI	18.5 gr / 11,500 PSI	-
7/8 oz	Clays	Rem. 209P	Rem. TGT 12	16.4 gr / 6,300 PSI	17.5 gr / 7,100 PSI	18.9 gr / 7,400 PSI	-
7/8 oz	Clays	Rem. 209P	WAA12L	16.8 gr / 6,700 PSI	18.0 gr / 7,300 PSI	19.3 gr / 9,000 PSI	20.3 gr / 9,700 PSI
7/8 oz	Clays	Win. 209	Rem. TGT 12	16.8 gr / 7,500 PSI	18.0 gr / 8,400 PSI	19.0 gr / 9,100 PSI	20.0 gr / 10,100 PSI
7/8 oz	Clays	Win. 209	WAA12SL	15.9 gr / 7,100 PSI	17.1 gr / 8,900 PSI	18.2 gr / 10,000 PSI	-
7/8 oz	Clays	Win. 209	WAA12L	17.1 gr / 8,100 PSI	18.0 gr / 8,900 PSI	19.3 gr / 10,100 PSI	20.1 gr / 11,400 PSI
				<b>1150 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>	<b>1300 fps</b>
7/8 oz.	IMR Red	Ched. 209	DRXXL ORANGE	14.3 gr / 6,700 PSI	15.4 gr / 7,600 PSI	16.6 gr / 8,600 PSI	17.7 gr / 9,500 PSI

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
<b>12 GA., 2 3/4", REMINGTON STS, OR NITRO 27, OR GUN CLUB PLASTIC SHELLS (CONT.)</b>							
				<b>1150 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>	<b>1300 fps</b>
7/8 oz.	IMR Red	Ched. 209	DRXXL PINK	15.1 gr / 6,500 PSI	16.1 gr / 7,300 PSI	17.1 gr / 8,000 PSI	18.1 gr / 8,800 PSI
7/8 oz.	IMR Red	Ched. 209	Rem. TGT 12	14.7 gr / 6,200 PSI	15.8 gr / 7,200 PSI	17.0 gr / 8,100 PSI	18.1 gr / 9,100 PSI
7/8 oz.	IMR Red	Rem. 209P	CB 4100-12B	15.0 gr / 6,000 PSI	16.0 gr / 6,800 PSI	16.9 gr / 7,700 PSI	17.9 gr / 8,500 PSI
7/8 oz.	IMR Red	Rem. 209P	Rem. TGT 12	14.5 gr / 6,300 PSI	15.5 gr / 7,100 PSI	16.5 gr / 8,000 PSI	17.5 gr / 8,800 PSI
7/8 oz.	IMR Red	Rem. 209P	WAA12L	14.4 gr / 6,100 PSI	15.4 gr / 7,000 PSI	16.5 gr / 7,900 PSI	17.5 gr / 8,800 PSI
7/8 oz.	IMR Red	Rem. 209P	WAA12SL	14.5 gr / 6,200 PSI	15.5 gr / 7,100 PSI	16.5 gr / 8,100 PSI	17.5 gr / 9,000 PSI
7/8 oz.	IMR Red	Win. 209	DRXXL ORANGE	14.4 gr / 6,600 PSI	15.5 gr / 7,500 PSI	16.7 gr / 8,500 PSI	17.8 gr / 9,400 PSI
7/8 oz.	IMR Red	Win. 209	DRXXL PINK	15.2 gr / 6,200 PSI	16.2 gr / 7,100 PSI	17.3 gr / 7,900 PSI	18.3 gr / 8,800 PSI
7/8 oz.	IMR Red	Win. 209	Rem. TGT 12	14.5 gr / 6,300 PSI	15.7 gr / 7,200 PSI	17.0 gr / 8,000 PSI	18.2 gr / 8,900 PSI
				<b>1250 fps</b>	<b>1300 fps</b>	<b>1350 fps</b>	<b>1400 fps</b>
7/8 oz.	Internat'l	Fed. 209A	WAA12L	19.4 gr / 7,200 PSI	20.4 gr / 8,000 PSI	21.5 gr / 9,000 PSI	22.6 gr / 10,000 PSI
7/8 oz.	Internat'l	Rem. 209P	Rem. TGT 12	20.0 gr / 6,600 PSI	21.0 gr / 7,500 PSI	21.9 gr / 8,300 PSI	22.9 gr / 9,200 PSI
7/8 oz.	Internat'l	Rem. 209P	WAA12L	20.5 gr / 6,900 PSI	21.3 gr / 7,600 PSI	22.2 gr / 8,400 PSI	23.1 gr / 9,300 PSI
7/8 oz.	Internat'l	Win. 209	Rem. TGT 12	20.2 gr / 6,500 PSI	21.3 gr / 7,300 PSI	22.3 gr / 8,100 PSI	23.4 gr / 8,900 PSI
7/8 oz.	Internat'l	Win. 209	WAA12L	20.7 gr / 6,500 PSI	21.5 gr / 7,400 PSI	22.3 gr / 8,200 PSI	23.1 gr / 9,100 PSI
				<b>1250 fps</b>	<b>1300 fps</b>	<b>1350 fps</b>	
7/8 oz.	IMR Green	Ched. 209	DRXXL ORANGE	18.7 gr / 8,100 PSI	20.1 gr / 9,000 PSI	21.4 gr / 9,800 PSI	
7/8 oz.	IMR Green	Ched. 209	DRXXL PINK	19.3 gr / 7,600 PSI	20.4 gr / 8,600 PSI	21.5 gr / 9,500 PSI	
7/8 oz.	IMR Green	Ched. 209	Rem. TGT 12	18.7 gr / 7,600 PSI	19.9 gr / 8,500 PSI	21.2 gr / 9,400 PSI	
7/8 oz.	IMR Green	Rem. 209P	DRXXL ORANGE	18.6 gr / 8,100 PSI	20.0 gr / 8,700 PSI	21.3 gr / 9,300 PSI	
7/8 oz.	IMR Green	Rem. 209P	DRXXL PINK	19.5 gr / 7,200 PSI	20.7 gr / 8,200 PSI	21.9 gr / 9,100 PSI	
7/8 oz.	IMR Green	Rem. 209P	Rem. TGT 12	19.0 gr / 7,600 PSI	20.2 gr / 8,300 PSI	21.3 gr / 9,000 PSI	
7/8 oz.	IMR Green	Win. 209	DRXXL ORANGE	18.7 gr / 7,700 PSI	20.0 gr / 8,600 PSI	21.3 gr / 9,400 PSI	
7/8 oz.	IMR Green	Win. 209	DRXXL PINK	19.8 gr / 7,400 PSI	20.9 gr / 8,400 PSI	22.1 gr / 9,300 PSI	
7/8 oz.	IMR Green	Win. 209	Rem. TGT 12	18.9 gr / 7,600 PSI	20.1 gr / 8,400 PSI	21.4 gr / 9,200 PSI	
				<b>1150 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>	<b>1325 fps</b>
24 gm	700-X	Fed. 209A	Rem. TGT12	15.0 gr / 6,500 PSI	16.0 gr / 7,400 PSI	17.0 gr / 8,300 PSI	18.5 gr / 9,600 PSI
24 gm	700-X	Fed. 209A	WAA12SL	14.5 gr / 6,500 PSI	15.5 gr / 7,300 PSI	16.5 gr / 8,200 PSI	18.5 gr / 10,000 PSI
24 gm	700-X	Rem. 209P	Rem. TGT12	15.0 gr / 5,800 PSI	16.0 gr / 6,600 PSI	17.0 gr / 7,300 PSI	19.0 gr / 8,700 PSI
24 gm	700-X	Rem. 209P	WAA12SL	15.0 gr / 6,400 PSI	16.0 gr / 7,200 PSI	17.0 gr / 7,900 PSI	18.5 gr / 8,900 PSI
24 gm	700-X	Win. 209	Rem. TGT12	15.0 gr / 6,300 PSI	16.0 gr / 7,200 PSI	17.0 gr / 8,000 PSI	18.5 gr / 9,200 PSI
24 gm	700-X	Win. 209	WAA12SL	15.0 gr / 6,700 PSI	16.0 gr / 7,600 PSI	17.0 gr / 8,400 PSI	18.5 gr / 9,700 PSI
				<b>1325 fps</b>	<b>1400 fps</b>		
7/8 oz.	WST	CCI 209	WAA12L	21.5 gr / 8,100 PSI	23.0 gr / 9,000 PSI		
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		
				<b>1125 fps</b>	<b>1180 fps</b>	<b>1235 fps</b>	<b>1290 fps</b>
1 oz	Titewad	Fed. 209A	Rem. TGT 12	15.5 gr / 7,500 PSI	16.5 gr / 8,800 PSI	17.8 gr / 10,000 PSI	-
1 oz	Titewad	Rem. 209P	WAA12SL	15.5 gr / 7,900 PSI	16.7 gr / 9,200 PSI	18.0 gr / 10,000 PSI	19.0 gr / 11,300 PSI

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
<b>12 GA., 2 3/4", REMINGTON STS, OR NITRO 27, OR GUN CLUB PLASTIC SHELLS (CONT.)</b>							
				<b>1125 fps</b>	<b>1180 fps</b>	<b>1235 fps</b>	<b>1290 fps</b>
1 oz	Titewad	Rem. 209P	Rem. TGT 12	-	16.7 gr / 7,800 PSI	18.2 gr / 9,600 PSI	19.4 gr / 11,300 PSI
1 oz	Titewad	Win. 209	Rem. TGT 12	15.3 gr / 7,400 PSI	16.6 gr / 8,600 PSI	17.9 gr / 9,800 PSI	19.2 gr / 11,000 PSI
1 oz	Titewad	Win. 209	WAA12SL	15.5 gr / 7,900 PSI	16.5 gr / 8,900 PSI	18.0 gr / 11,000 PSI	-
				<b>1125 fps</b>	<b>1180 fps</b>	<b>1235 fps</b>	<b>1290 fps</b>
1 oz	Clays	Rem. 209P	Rem. TGT 12	16.8 gr / 6,600 LUP	17.9 gr / 7,400 LUP	18.9 gr / 8,100 LUP	19.9 gr / 8,800 LUP
1 oz	Clays	Rem. 209P	WAA12SL	16.4 gr / 6,700 PSI	17.6 gr / 8,100 PSI	18.7 gr / 9,400 PSI	19.9 gr / 10,900 PSI
1 oz	Clays	Win. 209	Rem. TGT 12	16.3 gr / 6,500 PSI	17.6 gr / 7,900 PSI	18.8 gr / 9,200 PSI	20.1 gr / 10,500 PSI
1 oz	Clays	Win. 209	WAA12SL	15.7 gr / 7,100 LUP	17.0 gr / 8,200 LUP	18.4 gr / 9,500 LUP	19.8 gr / 10,700 LUP
				<b>1150 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>	<b>1300 fps</b>
1 oz.	IMR Red	CCI 209M	Rem. R12L	15.8 gr / 8,000 PSI	16.9 gr / 8,900 PSI	17.9 gr / 9,800 PSI	19.0 gr / 10,700 PSI
1 oz.	IMR Red	Ched. 209	Rem. TGT 12	15.5 gr / 6,900 PSI	16.8 gr / 8,000 PSI	18.2 gr / 9,000 PSI	19.5 gr / 10,100 PSI
1 oz.	IMR Red	Ched. 209	WAA12SL	15.5 gr / 7,200 PSI	16.8 gr / 8,300 PSI	18.2 gr / 9,300 PSI	19.5 gr / 10,400 PSI
1 oz.	IMR Red	Rem. 209P	Green Duster	15.6 gr / 8,600 PSI	16.7 gr / 9,400 PSI	17.7 gr / 10,300 PSI	18.8 gr / 11,100 PSI
1 oz.	IMR Red	Rem. 209P	Rem. FIG. 8	15.6 gr / 8,000 PSI	16.7 gr / 8,800 PSI	17.7 gr / 9,700 PSI	18.8 gr / 10,600 PSI
1 oz.	IMR Red	Rem. 209P	Rem. R12L	15.4 gr / 8,100 PSI	16.5 gr / 9,000 PSI	17.5 gr / 9,900 PSI	18.6 gr / 10,800 PSI
1 oz.	IMR Red	Rem. 209P	Rem. TGT 12	15.7 gr / 7,400 PSI	16.8 gr / 8,200 PSI	17.9 gr / 9,100 PSI	19.0 gr / 10,000 PSI
1 oz.	IMR Red	Win. 209	Rem. R12L	15.7 gr / 7,800 PSI	16.8 gr / 8,700 PSI	17.8 gr / 9,600 PSI	18.9 gr / 10,500 PSI
1 oz.	IMR Red	Win. 209	Rem. TGT 12	15.6 gr / 7,000 PSI	16.9 gr / 8,000 PSI	18.3 gr / 9,100 PSI	19.5 gr / 10,100 PSI
1 oz.	IMR Red	Win. 209	WAA12SL	15.6 gr / 7,600 PSI	16.9 gr / 8,600 PSI	18.3 gr / 9,600 PSI	19.6 gr / 10,600 PSI
				<b>1180 fps</b>	<b>1235 fps</b>	<b>1290 fps</b>	<b>1345 fps</b>
1 oz	Internat'l	Rem. 209P	Rem. TGT 12	20.2 gr / 6,800 LUP	20.9 gr / 7,700 LUP	21.4 gr / 8,900 LUP	-
1 oz	Internat'l	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	Internat'l	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	Internat'l	Win. 209	WAA12SL	18.4 gr / 7,100 LUP	20.1 gr / 8,600 LUP	21.0 gr / 10,000 LUP	-
1 oz	Titigroup	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	Titigroup	Rem. 209P	WAA12SL	16.4 gr / 7,700 PSI	17.6 gr / 9,100 PSI	18.8 gr / 10,400 PSI	-
1 oz	Titigroup	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	Titigroup	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
				<b>1150 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>	<b>1300 fps</b>
1 oz.	IMR Green	CCI 209M	Rem. R12L	17.4 gr / 7,400 PSI	18.7 gr / 8,200 PSI	20.0 gr / 9,000 PSI	21.3 gr / 9,800 PSI
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	Rem. 209P	CB 1100-12	17.4 gr / 7,200 PSI	18.7 gr / 8,100 PSI	20.1 gr / 8,900 PSI	21.4 gr / 9,800 PSI
1 oz.	IMR Green	Rem. 209P	Rem. TGT 12	17.4 gr / 7,300 PSI	18.7 gr / 8,100 PSI	20.1 gr / 9,000 PSI	21.4 gr / 9,800 PSI
1 oz.	IMR Green	Win. 209	Rem. R12L	17.3 gr / 7,300 PSI	18.6 gr / 8,000 PSI	20.0 gr / 8,800 PSI	21.3 gr / 9,500 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
				<b>1100 fps</b>	<b>1150 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>
1 oz	700-X	Rem. 209P	Rem. TGT12	14.5 gr / 6,600 PSI	15.5 gr / 7,500 PSI	16.5 gr / 8,400 PSI	18.0 gr / 9,500 PSI



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

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
<b>12 GA., 2 3/4", REMINGTON STS, OR NITRO 27, OR GUN CLUB PLASTIC SHELLS (CONT.)</b>							
				<b>1100 fps</b>	<b>1150 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>
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. TGT12	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
				<b>1180 fps</b>	<b>1235 fps</b>	<b>1290 fps</b>	
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	
				<b>1180 fps</b>	<b>1235 fps</b>	<b>1290 fps</b>	<b>1345 fps</b>
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. TGT12	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. TGT12	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
				<b>1090 fps</b>	<b>1145 fps</b>	<b>1200 fps</b>	
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	
				<b>1090 fps</b>	<b>1145 fps</b>	<b>1200 fps</b>	<b>1255 fps</b>
1 1/8 oz.	IMR Red	CCI 209	Rem. FIG. 8	15.2 gr / 8,500 PSI	16.4 gr / 9,400 PSI	17.5 gr / 10,400 PSI	-
1 1/8 oz.	IMR Red	CCI 209M	DRRF8	15.0 gr / 8,100 PSI	16.3 gr / 9,300 PSI	17.6 gr / 10,500 PSI	-
1 1/8 oz.	IMR Red	CCI 209M	DRV-12	14.8 gr / 8,300 PSI	16.0 gr / 9,200 PSI	17.2 gr / 10,200 PSI	-
1 1/8 oz.	IMR Red	CCI 209M	WAA12	14.8 gr / 8,500 PSI	16.0 gr / 9,600 PSI	17.2 gr / 10,700 PSI	-
1 1/8 oz.	IMR Red	CCI 209M	Windjammer	15.1 gr / 7,600 PSI	16.5 gr / 8,800 PSI	17.8 gr / 10,000 PSI	-
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	CB 3118-12-A	14.7 gr / 8,300 PSI	15.9 gr / 9,400 PSI	17.2 gr / 10,600 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	Fio. 616	Rem. FIG. 8	15.1 gr / 8,300 PSI	16.3 gr / 9,300 PSI	17.5 gr / 10,300 PSI	-
1 1/8 oz.	IMR Red	Rem. 209P	Blue Duster	14.8 gr / 8,300 PSI	16.1 gr / 9,300 PSI	17.3 gr / 10,300 PSI	-
1 1/8 oz.	IMR Red	Rem. 209P	CB 3118-12-A	14.9 gr / 8,200 PSI	16.2 gr / 9,400 PSI	17.4 gr / 10,600 PSI	-

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
<b>12 GA., 2 3/4", REMINGTON STS, OR NITRO 27, OR GUN CLUB PLASTIC SHELLS (CONT.)</b>							
				<b>1090 fps</b>	<b>1145 fps</b>	<b>1200 fps</b>	<b>1255 fps</b>
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	Rem. RXP12	14.9 gr / 8,500 PSI	16.1 gr / 9,400 PSI	17.3 gr / 10,300 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	DRRF8	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.	IMR Red	Win. 209	Windjammer	14.8 gr / 7,700 PSI	15.9 gr / 8,800 PSI	17.0 gr / 9,800 PSI	-
				<b>1090 fps</b>	<b>1145 fps</b>	<b>1200 fps</b>	<b>1255 fps</b>
1 1/8 oz	Internat'l	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	Internat'l	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	Internat'l	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	Internat'l	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	Internat'l	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	Internat'l	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	-
				<b>1090 fps</b>	<b>1145 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>
1 1/8 oz.	IMR Green	CCI 209	Rem. FIG. 8	16.7 gr / 8,100 PSI	18.1 gr / 9,100 PSI	19.4 gr / 10,000 PSI	20.6 gr / 10,900 PSI
1 1/8 oz.	IMR Green	CCI 209M	DRRF8	16.9 gr / 7,900 PSI	18.3 gr / 8,800 PSI	19.6 gr / 9,800 PSI	20.9 gr / 10,700 PSI
1 1/8 oz.	IMR Green	CCI 209M	DRV-12	16.6 gr / 8,000 PSI	17.9 gr / 9,100 PSI	19.3 gr / 10,300 PSI	20.5 gr / 11,300 PSI
1 1/8 oz.	IMR Green	CCI 209M	Rem. RXP12	16.8 gr / 8,000 PSI	18.1 gr / 9,000 PSI	19.4 gr / 10,000 PSI	20.6 gr / 10,900 PSI
1 1/8 oz.	IMR Green	CCI 209M	WAA12	16.6 gr / 8,000 PSI	17.9 gr / 9,000 PSI	19.2 gr / 10,100 PSI	20.4 gr / 11,000 PSI
1 1/8 oz.	IMR Green	CCI 209M	Windjammer	16.4 gr / 7,600 PSI	17.8 gr / 8,500 PSI	19.2 gr / 9,400 PSI	20.5 gr / 10,200 PSI
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	Fio. 616	Rem. FIG. 8	16.2 gr / 8,200 PSI	17.5 gr / 9,300 PSI	18.8 gr / 10,500 PSI	20.0 gr / 11,500 PSI
1 1/8 oz.	IMR Green	Fio. 616	Rem. RXP12	16.0 gr / 8,600 PSI	17.4 gr / 9,600 PSI	18.9 gr / 10,600 PSI	-
1 1/8 oz.	IMR Green	Rem. 209P	CB 3118-12-A	16.3 gr / 8,100 PSI	17.7 gr / 9,000 PSI	19.2 gr / 9,900 PSI	20.5 gr / 10,700 PSI
1 1/8 oz.	IMR Green	Rem. 209P	DRV-12	16.2 gr / 8,000 PSI	17.6 gr / 9,000 PSI	19.0 gr / 10,100 PSI	20.3 gr / 11,000 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	Rem. 209P	Windjammer	16.7 gr / 7,100 PSI	18.1 gr / 8,100 PSI	19.5 gr / 9,100 PSI	20.8 gr / 10,000 PSI
1 1/8 oz.	IMR Green	Win. 209	CB 3118-12-A	16.6 gr / 7,700 PSI	18.0 gr / 8,800 PSI	19.5 gr / 9,900 PSI	20.8 gr / 10,900 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

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

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
<b>12 GA., 2 3/4", REMINGTON STS, OR NITRO 27, OR GUN CLUB PLASTIC SHELLS (CONT.)</b>							
				<b>1090 fps</b>	<b>1145 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>
1 1/8 oz.	IMR Green	Win. 209	Windjammer	17.0 gr / 7,400 PSI	18.5 gr / 8,300 PSI	20.0 gr / 9,300 PSI	21.4 gr / 10,100 PSI
				<b>1200 fps</b>	<b>1255 fps</b>	<b>1310 fps</b>	
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	-	
				<b>1420 fps</b>	<b>1475 fps</b>	<b>1530 fps</b>	<b>1585 fps</b>
1 1/8 oz	Longshot	Rem. 209P	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	Rem. 209P	Rem. R12L	31.1 gr / 9,400 PSI	32.5 gr / 10,400 PSI	33.9 gr / 11,400 PSI	-
1 1/8 oz	Longshot	Rem. 209P	WAA12	30.6 gr / 9,300 PSI	31.7 gr / 10,400 PSI	32.7 gr / 11,500 PSI	-
1 1/8 oz	Longshot	Win. 209	Rem. R12L	31.5 gr / 8,800 PSI	32.0 gr / 10,100 PSI	34.5 gr / 11,400 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	-
				<b>1100 fps</b>	<b>1150 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>
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	-
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	-
				<b>1145 fps</b>	<b>1200 fps</b>	<b>1255 fps</b>	<b>1310 fps</b>
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	Rem. 209P	WJ-12-RPL	18.0 gr / 6,800 PSI	19.8 gr / 8,100 PSI	21.5 gr / 9,400 PSI	23.0 gr / 10,500 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	-
1 1/8 oz	Super Hcp	Win. 209	WJ-12-RPL	18.0 gr / 6,700 PSI	19.8 gr / 8,100 PSI	21.5 gr / 9,500 PSI	23.0 gr / 11,100 PSI
				<b>1310 fps</b>	<b>1365 fps</b>	<b>1400 fps</b>	
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	-	
				<b>1220 fps</b>			
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			
				<b>1220 fps</b>	<b>1330 fps</b>	<b>1385 fps</b>	<b>1440 fps</b>
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	-	-

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
<b>12 GA., 2 3/4", REMINGTON STS, OR NITRO 27, OR GUN CLUB PLASTIC SHELLS (CONT.)</b>							
				<b>1220 fps</b>	<b>1330 fps</b>	<b>1385 fps</b>	<b>1440 fps</b>
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	-
				<b>1220 fps</b>	<b>1275 fps</b>	<b>1330 fps</b>	<b>1385 fps</b>
1 1/4 oz.	IMR Blue	CCI 209M	DRA 12 Yellow	29.6 gr / 9,100 PSI	31.5 gr / 10,000 PSI	33.4 gr / 10,900 PSI	-
1 1/4 oz.	IMR Blue	CCI 209M	Rem. SP12	29.7 gr / 8,400 PSI	31.6 gr / 9,300 PSI	33.5 gr / 10,100 PSI	35.5 gr / 11,000 PSI
1 1/4 oz.	IMR Blue	CCI 209M	WAA12R	29.8 gr / 8,300 PSI	31.8 gr / 9,200 PSI	33.7 gr / 10,100 PSI	35.7 gr / 11,000 PSI
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
				<b>1225 fps</b>	<b>1275 fps</b>	<b>1325 fps</b>	
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	
				<b>1220 fps</b>	<b>1275 fps</b>	<b>1330 fps</b>	
1 1/4 oz	572	CCI 209M	DRA 12 YELLOW	23.5 gr / 10,500 PSI	25.3 gr / 11,500 PSI	-	
1 1/4 oz	572	CCI 209M	Fed. 12S4	23.2 gr / 10,800 PSI	-	-	
1 1/4 oz	572	CCI 209M	Rem. SP12	23.6 gr / 9,400 PSI	25.2 gr / 10,500 PSI	26.8 gr / 11,500 PSI	
1 1/4 oz	572	Fed. 209A	DRA 12 YELLOW	22.6 gr / 10,700 PSI	-	-	
1 1/4 oz	572	Fed. 209A	Fed. 12S4	22.2 gr / 11,400 PSI	-	-	
1 1/4 oz	572	Fed. 209A	Rem. SP12	22.2 gr / 10,400 PSI	-	-	
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	Fed. 12S4	22.9 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	Fed. 12S4	23.6 gr / 10,600 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	
<b>12 GA., 2 3/4", WINCHESTER COMPRESSION-FORMED AA AND HS PLASTIC SHELLS</b>							
				<b>1250 fps</b>	<b>1300 fps</b>	<b>1350 fps</b>	<b>1400 fps</b>
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

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

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
<b>12 GA., 2 3/4", WINCHESTER COMPRESSION-FORMED AA AND HS PLASTIC SHELLS (CONT.)</b>							
				<b>1200 fps</b>	<b>1250 fps</b>	<b>1300 fps</b>	<b>1350 fps</b>
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. TGT 12	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
				<b>1150 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>	<b>1300 fps</b>
7/8 oz.	IMR Red	Ched. 209	CB 4100-12B	14.6 gr / 6,400 PSI	15.6 gr / 7,200 PSI	16.6 gr / 8,000 PSI	17.6 gr / 8,800 PSI
7/8 oz.	IMR Red	Ched. 209	DRXL 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	CB 4100-12B	14.8 gr / 6,200 PSI	15.8 gr / 7,100 PSI	16.8 gr / 8,000 PSI	17.8 gr / 8,800 PSI
7/8 oz.	IMR Red	Rem. 209P	DRXL 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. TGT 12	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
7/8 oz.	IMR Red	Win. 209	WAA12SL	14.3 gr / 6,500 PSI	15.3 gr / 7,500 PSI	16.4 gr / 8,400 PSI	17.4 gr / 9,400 PSI
				<b>1250 fps</b>	<b>1300 fps</b>	<b>1350 fps</b>	<b>1400 fps</b>
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
				<b>1250 fps</b>	<b>1300 fps</b>	<b>1350 fps</b>	
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	DRXL 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	CB 4100-12B	19.2 gr / 6,700 PSI	20.4 gr / 7,700 PSI	21.7 gr / 8,600 PSI	
7/8 oz.	IMR Green	Rem. 209P	DRXL ORANGE	18.7 gr / 7,900 PSI	20.1 gr / 8,600 PSI	21.4 gr / 9,400 PSI	
7/8 oz.	IMR Green	Rem. 209P	WAA12L	19.1 gr / 7,300 PSI	20.3 gr / 7,800 PSI	21.5 gr / 8,400 PSI	
7/8 oz.	IMR Green	Win. 209	Rem. TGT 12	18.8 gr / 7,400 PSI	20.1 gr / 8,400 PSI	21.3 gr / 9,300 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	
7/8 oz.	IMR Green	Win. 209	WAA12SL	18.6 gr / 7,400 PSI	19.9 gr / 8,600 PSI	21.2 gr / 9,700 PSI	
				<b>1150 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>	<b>1325 fps</b>
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
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
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
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
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
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

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
<b>12 GA., 2 3/4", WINCHESTER COMPRESSION-FORMED AA AND HS PLASTIC SHELLS (CONT.)</b>							
				<b>1325 fps</b>	<b>1355 fps</b>	<b>1400 fps</b>	
7/8 oz	WST	Fed. 209A	WAA12L	-	23.5 gr / 7,400 PSI	-	
7/8 oz	WST*	Win. 209	WAA12L	22.0 gr / 7,900 PSI	-	23.5 gr / 8,200 PSI	
				<b>1125 fps</b>	<b>1180 fps</b>	<b>1235 fps</b>	<b>1290 fps</b>
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	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	Titewad	Rem. 209P	Rem. TGT 12	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	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	Titewad	Win. 209	Fed. 12S0	15.6 gr / 9,000 PSI	16.8 gr / 10,300 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
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	Clays	Rem. 209P	Rem.TGT12	16.1 gr / 7,500 PSI	17.3 gr / 8,400 PSI	18.5 gr / 9,900 PSI	-
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 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 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
				<b>1145 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>	<b>1300 fps</b>
1 oz.	IMR Red	CCI 209M	WAA12SL	15.2 gr / 7,900 PSI	16.5 gr / 9,000 PSI	17.7 gr / 10,000 PSI	18.9 gr / 11,000 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 oz.	IMR Red	Ched. 209	Rem. TGT 12	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 oz.	IMR Red	Rem. 209P	Green Duster	15.7 gr / 7,900 PSI	16.9 gr / 8,800 PSI	18.0 gr / 9,600 PSI	19.1 gr / 10,500 PSI
1 oz.	IMR Red	Rem. 209P	Rem. TGT 12	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 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 oz.	IMR Red	Win. 209	Rem. TGT 12	15.3 gr / 8,200 PSI	16.5 gr / 9,100 PSI	17.6 gr / 10,000 PSI	18.7 gr / 10,900 PSI
				<b>1180 fps</b>	<b>1235 fps</b>	<b>1290 fps</b>	<b>1345 fps</b>
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	-
1 oz	Internat'l	Rem. 209P	Rem. TGT 12	20.8 gr / 5,900 LUP	21.5 gr / 7,100 LUP	22.3 gr / 7,800 LUP	-
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 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 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 oz	Titegroup	Rem. 209P	Rem. TGT 12	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 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 oz	Titegroup	Win. 209	Rem. TGT 12	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 oz	Titegroup	Win. 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
				<b>1145 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>	<b>1300 fps</b>
1 oz.	IMR Green	CCI 209M	WAA12SL	17.7 gr / 7,300 PSI	19.1 gr / 8,100 PSI	20.3 gr / 8,900 PSI	21.5 gr / 9,700 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 oz.	IMR Green	Ched. 209	Rem. TGT 12	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 oz.	IMR Green	Rem. 209P	Green Duster	17.0 gr / 6,900 PSI	18.3 gr / 7,600 PSI	19.4 gr / 8,300 PSI	20.6 gr / 9,000 PSI
1 oz.	IMR Green	Rem. 209P	Rem. TGT 12	16.9 gr / 6,500 PSI	18.2 gr / 7,200 PSI	19.4 gr / 7,800 PSI	20.6 gr / 8,500 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

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

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
<b>12 GA., 2 3/4", WINCHESTER COMPRESSION-FORMED AA AND HS PLASTIC SHELLS (CONT.)</b>							
				<b>1145 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>	<b>1300 fps</b>
1 oz.	IMR Green	Win. 209	Rem. TGT 12	17.2 gr / 7,000 PSI	18.5 gr / 7,900 PSI	19.6 gr / 8,600 PSI	20.8 gr / 9,400 PSI
				<b>1100 fps</b>	<b>1150 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>
1 oz.	700-X	Fed. 209A	Fed. 12S3	14.5 gr / 7,900 PSI	15.5 gr / 8,700 PSI	17.0 gr / 9,900 PSI	18.0 gr / 10,700 PSI
1 oz.	700-X	Rem. 209P	Rem. TGT12	15.5 gr / 5,800 PSI	16.5 gr / 6,200 PS	18.0 gr / 7,100 PSI	19.0 gr / 7,700 PSI
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
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
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
				<b>1180 fps</b>	<b>1235 fps</b>	<b>1290 fps</b>	<b>1345 fps</b>
1 oz.	WST	Win. 209	WAA12L	19.5 gr / 8,500 PSI	21.0 gr / 9,600 PSI	22.5 gr / 11,100 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.	Super Hcp	Fed. 209A	WAA12SL	18.3 gr / 8,000 PSI	19.5 gr / 9,100 PSI	20.8 gr / 10,300 PS	22.0 gr / 11,300 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.	Super Hcp	Rem. 209P	Rem. TGT12	19.0 gr / 7,300 PSI	20.2 gr / 8,500 PSI	21.3 gr / 9,600 PSI	22.4 gr / 10,700 PSI
1 oz.	Super Hcp	Rem. 209P	WAA12SL	18.6 gr / 7,300 PSI	19.8 gr / 8,600 PSI	20.9 gr / 9,800 PSI	22.0 gr / 10,600 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.	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
				<b>1180 fps</b>	<b>1235 fps</b>	<b>1290 fps</b>	<b>1345 fps</b>
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
				<b>1090 fps</b>	<b>1145 fps</b>	<b>1200 fps</b>	<b>1255 fps</b>
1 1/8 oz.	Titewad	Fed. 209A	Fed.12S3	15.5 gr / 9,900 PSI	16.8 gr / 10,800 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 1/8 oz.	Titewad	Rem. 209P	WAA12	15.5 gr / 10,100 PSI	16.4 gr / 11,200 PSI	-	-
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 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 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 1/8 oz.	Clays	Rem. 209P	WAA12	15.9 gr / 8,900 PSI	17.0 gr / 9,400 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 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	-
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	-
				<b>1090 fps</b>	<b>1145 fps</b>	<b>1200 fps</b>	<b>1255 fps</b>
1 1/8 oz.	IMR Red	CCI 209M	CB 1118-12	15.1 gr / 8,300 PSI	16.3 gr / 9,500 PSI	17.5 gr / 10,700 PSI	-
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 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 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 1/8 oz.	IMR Red	Ched. 209	Windjammer	15.3 gr / 7,900 PSI	16.6 gr / 8,900 PSI	17.8 gr / 9,900 PSI	19.1 gr / 10,900 PSI
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 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 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 1/8 oz.	IMR Red	Fed. 209A	Windjammer	14.5 gr / 8,300 PSI	15.7 gr / 9,300 PSI	16.9 gr / 10,300 PSI	-

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
<b>12 GA., 2 3/4", WINCHESTER COMPRESSION-FORMED AA AND HS PLASTIC SHELLS (CONT.)</b>							
				<b>1090 fps</b>	<b>1145 fps</b>	<b>1200 fps</b>	<b>1255 fps</b>
1 1/8 oz.	IMR Red	Fio. 616	Blue Duster	15.0 gr / 8,600 PSI	16.2 gr / 9,800 PSI	17.4 gr / 11,000 PSI	-
1 1/8 oz.	IMR Red	Rem. 209P	DRV-12	15.0 gr / 8,000 PSI	16.3 gr / 9,200 PSI	17.6 gr / 10,300 PSI	18.9 gr / 11,500 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 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	-
1 1/8 oz.	IMR Red	Rem. 209P	Windjammer	15.3 gr / 7,800 PSI	16.6 gr / 8,900 PSI	18.0 gr / 10,000 PSI	19.3 gr / 11,100 PSI
1 1/8 oz.	IMR Red	Win. 209	DR-XL-1 1/8	15.0 gr / 8,900 PSI	16.1 gr / 9,900 PSI	17.2 gr / 10,900 PSI	-
1 1/8 oz.	IMR Red	Win. 209	DRRF8	15.0 gr / 8,600 PSI	16.2 gr / 9,600 PSI	17.5 gr / 10,600 PSI	-
1 1/8 oz.	IMR Red	Win. 209	DRV-12	14.9 gr / 8,500 PSI	16.0 gr / 9,600 PSI	17.2 gr / 10,800 PSI	-
1 1/8 oz.	IMR Red	Win. 209	Rem. RXP12	14.9 gr / 8,700 PSI	16.0 gr / 9,600 PSI	17.2 gr / 10,600 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	-
				<b>1090 fps</b>	<b>1145 fps</b>	<b>1200 fps</b>	<b>1255 fps</b>
1 1/8 oz.	Internat'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.	Internat'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.	Internat'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.	Internat'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.	Internat'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.	Internat'l	Win. 209	Hor. Versalite	17.4 gr / 7,900 LUP	18.1 gr / 8,600 LUP	19.2 gr / 9,800 LUP	-
				<b>1090 fps</b>	<b>1145 fps</b>	<b>1200 fps</b>	<b>1255 fps</b>
1 1/8 oz.	Internat'l	Win. 209	Rem. Fig. 8	17.3 gr / 8,100 PSI	18.3 gr / 9,500 PSI	-	-
1 1/8 oz.	Internat'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.	Titigroup	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.	Titigroup	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.	Titigroup	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.	Titigroup	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
				<b>1090 fps</b>	<b>1145 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>
1 1/8 oz.	IMR Green	CCI 209M	WAA12	17.1 gr / 7,500 PSI	18.5 gr / 8,400 PSI	20.0 gr / 9,400 PSI	21.3 gr / 10,200 PSI
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	Ched. 209	Windjammer	16.5 gr / 6,700 PSI	17.8 gr / 7,600 PSI	19.2 gr / 8,500 PSI	20.5 gr / 9,400 PSI
1 1/8 oz.	IMR Green	Fed. 209A	CB 1118-12	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	Fed. 209A	Windjammer	16.5 gr / 8,400 PSI	17.8 gr / 9,400 PSI	19.1 gr / 10,300 PSI	20.3 gr / 11,200 PSI
1 1/8 oz.	IMR Green	Fio. 616	Blue Duster	16.5 gr / 8,300 PSI	17.8 gr / 9,300 PSI	19.1 gr / 10,400 PSI	20.3 gr / 11,300 PSI
1 1/8 oz.	IMR Green	Rem. 209P	DRV-12	16.3 gr / 7,000 PSI	17.6 gr / 7,800 PSI	19.0 gr / 8,700 PSI	20.3 gr / 9,500 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	Rem. 209P	Windjammer	16.6 gr / 6,300 PSI	17.9 gr / 7,100 PSI	19.3 gr / 7,800 PSI	20.6 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*			
<b>12 GA., 2 3/4", WINCHESTER COMPRESSION-FORMED AA AND HS PLASTIC SHELLS (CONT.)</b>							
				<b>1090 fps</b>	<b>1145 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>
1 1/8 oz.	IMR Green	Win. 209	DR-XL-1 1/8	16.5 gr / 7,900 PSI	18.0 gr / 8,800 PSI	19.5 gr / 9,700 PSI	20.8 gr / 10,500 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
1 1/8 oz.	IMR Green	Win. 209	Rem. RXP12	16.7 gr / 7,800 PSI	18.1 gr / 8,800 PSI	19.4 gr / 9,700 PSI	20.7 gr / 10,600 PSI
1 1/8 oz.	IMR Green	Win. 209	Windjammer	16.8 gr / 7,600 PSI	18.2 gr / 8,400 PSI	19.6 gr / 9,100 PSI	20.9 gr / 9,800 PSI
				<b>1200 fps</b>	<b>1255 fps</b>	<b>1310 fps</b>	
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	-	
				<b>1420 fps</b>	<b>1475 fps</b>	<b>1530 fps</b>	<b>1585 fps</b>
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	Rem. R12H	31.3 gr / 9,200 PSI	32.5 gr / 10,200 PSI	33.7 gr / 11,300 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	Rem. R12L	33.4 gr / 8,100 PSI	34.6 gr / 9,100 PSI	35.9 gr / 10,200 PSI	37.1 gr / 11,100 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	-
				<b>1100 fps</b>	<b>1150 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>
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
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	-
				<b>1145 fps</b>	<b>1200 fps</b>	<b>1255 fps</b>	<b>1310 fps</b>
1 1/8 oz.	Super Hcp	Rem. 209P	DRV-12	18.2 gr / 8,200 PSI	19.5 gr / 9,600 PSI	20.8 gr / 10,900 PSI	-
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	-
1 1/8 oz.	WSF	Fed. 209A	WAA12SL	21.5 gr / 7,200 PSI	23.0 gr / 8,400 PSI	24.0 gr / 9,100 PSI	25.5 gr / 9,800 PSI
				<b>1145 fps</b>	<b>1310 fps</b>	<b>1365 fps</b>	<b>1400 fps</b>
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
				<b>1220 fps</b>	<b>1225 fps</b>	<b>1250 fps</b>	
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	

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
<b>12 GA., 2 3/4", WINCHESTER COMPRESSION-FORMED AA AND HS PLASTIC SHELLS (CONT.)</b>							
				<b>1220 fps</b>	<b>1225 fps</b>	<b>1250 fps</b>	
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	WAA12 F114	23.0 gr / 10,900 PSI	-	-	
				<b>1220 fps</b>	<b>1330 fps</b>		
1 1/4 oz.	HS-6	Win. 209	WAA12F114	30.0 gr / 8,800 LUP	33.0 gr / 10,500 LUP		
1 1/4 oz.	HS-6	Win. 209	Rem. R12H	31.5 gr / 9,000 LUP	35.0 gr / 10,600 LUP		
1 1/4 oz.	HS-6	Win. 209	Fed. 12C1	32.0 gr / 8,700 LUP	35.0 gr / 10,400 LUP		
				<b>1330 fps</b>	<b>1385 fps</b>	<b>1440 fps</b>	
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	-	
				<b>1220 fps</b>	<b>1275 fps</b>	<b>1330 fps</b>	<b>1385 fps</b>
1 1/4 oz.	IMR Blue	CCI 209M	DRA 12 Yellow	29.1 gr / 9,100 PSI	30.9 gr / 10,200 PSI	-	-
1 1/4 oz.	IMR Blue	CCI 209M	Rem. SP12	29.5 gr / 8,500 PSI	31.3 gr / 9,400 PSI	33.2 gr / 10,300 PSI	35.0 gr / 11,300 PSI
1 1/4 oz.	IMR Blue	CCI 209M	WAA12R	29.3 gr / 8,300 PSI	31.1 gr / 9,300 PSI	33.0 gr / 10,200 PSI	34.8 gr / 11,100 PSI
1 1/4 oz.	IMR Blue	Fed. 209A	DRA 12 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	DRA 12 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
				<b>1220 fps</b>	<b>1275 fps</b>	<b>1330 fps</b>	
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	CCI 209M	DRA 12 YELLOW	23.4 gr / 9,000 PSI	25.8 gr / 10,200 PSI	26.2 gr / 11,400 PSI	
1 1/4 oz.	572	CCI 209M	Fed. 12S4	22.6 gr / 10,800 PSI	-	-	
1 1/4 oz.	572	CCI 209M	Rem. SP12	23.0 gr / 9,600 PSI	24.6 gr / 10,600 PSI	26.3 gr / 11,500 PSI	
1 1/4 oz.	572	Fed. 209A	DRA 12 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	DRA 12 YELLOW	22.5 gr / 10,000 PSI	23.7 gr / 10,600 PSI	-	
1 1/4 oz.	572	Rem. 209P	Fed. 12S4	22.4 gr / 10,600 PSI	24.2 gr / 11,400 PSI	-	
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	DRA 12 YELLOW	23.5 gr / 9,000 PSI	25.8 gr / 10,200 PSI	28.0 gr / 11,300 PSI	
1 1/4 oz.	572	Win. 209	Fed. 12S4	23.5 gr / 10,000 PSI	24.9 gr / 10,700 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	

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

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
<b>16 GA., 2 3/4", FEDERAL HI POWER PLASTIC PAPER BASE WAD SHELLS</b>							
				<b>1165 fps</b>	<b>1220 fps</b>	<b>1275 fps</b>	
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	
				<b>1165 fps</b>	<b>1220 fps</b>	<b>1275 fps</b>	<b>1300 fps</b>
1 oz.	IMR Blue	CCI 209M	BP/SPTG16	25.7 gr / 6,300 PSI	27.3 gr / 7,000 PSI	29.0 gr / 7,700 PSI	29.7 gr / 8,000 PSI
1 oz.	IMR Blue	CCI 209M	CB 0100-16	25.8 gr / 6,400 PSI	27.3 gr / 7,300 PSI	28.7 gr / 8,100 PSI	29.4 gr / 8,500 PSI
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	Rem. 209P	BP/SPTG16	26.0 gr / 6,300 PSI	27.5 gr / 7,100 PSI	28.9 gr / 7,800 PSI	29.6 gr / 8,200 PSI
1 oz.	IMR Blue	Rem. 209P	CB 0100-16	25.7 gr / 6,500 PSI	27.2 gr / 7,400 PSI	28.6 gr / 8,400 PSI	29.3 gr / 8,800 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
				<b>1165 fps</b>	<b>1220 fps</b>	<b>1275 fps</b>	<b>1300 fps</b>
1 oz	572	CCI 209M	BP/SPTG16	19.5 gr / 6,900 PSI	20.9 gr / 7,800 PSI	22.3 gr / 8,700 PSI	23.0 gr / 9,100 PSI
1 oz	572	CCI 209M	CB 0100-16	20.0 gr / 7,200 PSI	21.3 gr / 7,900 PSI	22.6 gr / 8,600 PSI	23.3 gr / 8,900 PSI
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
				<b>1185 fps</b>	<b>1240 fps</b>	<b>1295 fps</b>	<b>1350 fps</b>
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
<b>16 GA., 2 3/4", FEDERAL HI POWER PLASTIC PAPER BASE WAD SHELLS</b>							
				<b>1185 fps</b>	<b>1240 fps</b>	<b>1295 fps</b>	<b>1350 fps</b>
1 1/8 oz.	IMR Blue	CCI 209M	Rem. SP16	26.3 gr / 7,400 PSI	28.0 gr / 8,300 PSI	29.8 gr / 9,200 PSI	31.5 gr / 10,100 PSI
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	Rem. 209P	BP/SPTG16	26.8 gr / 7,800 PSI	28.5 gr / 8,700 PSI	30.3 gr / 9,700 PSI	32.0 gr / 10,600 PSI
1 1/8 oz.	IMR Blue	Rem. 209P	CB 0100-16	26.5 gr / 8,000 PSI	28.2 gr / 8,900 PSI	29.8 gr / 9,800 PSI	31.5 gr / 10,700 PSI
1 1/8 oz.	IMR Blue	Rem. 209P	Rem. SP16	26.8 gr / 7,600 PSI	28.8 gr / 8,400 PSI	30.8 gr / 9,100 PSI	32.8 gr / 9,900 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

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
<b>16 GA., 2 3/4", REMINGTON SP PLASTIC SHELLS</b>							
				<b>1150 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>	<b>1300 fps</b>
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
				<b>1165 fps</b>	<b>1220 fps</b>	<b>1275 fps</b>	
1 oz	Universal	CCI 209M	BPG/BP	19.5 gr / 8,400 PSI	20.5 gr / 9,600 PSI	21.5 gr / 10,300 PSI	
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	
1 oz	Universal	Win. 209	WAA16	18.5 gr / 9,000 PSI	19.5 gr / 9,900 PSI	20.5 gr / 10,400 PSI	
				<b>1165 fps</b>	<b>1220 fps</b>	<b>1275 fps</b>	<b>1300 fps</b>
1 oz	572	CCI 209M	BP/SPTG16	18.8 gr / 8,300 PSI	20.3 gr / 9,400 PSI	21.7 gr / 10,600 PSI	22.4 gr / 11,100 PSI
1 oz	572	CCI 209M	CB 0100-16	17.6 gr / 8,500 PSI	19.0 gr / 9,700 PSI	20.4 gr / 10,900 PSI	21.0 gr / 11,500 PSI
1 oz	572	CCI 209M	Rem. SP16	18.0 gr / 8,100 PSI	19.5 gr / 9,300 PSI	20.9 gr / 10,500 PSI	21.6 gr / 11,000 PSI
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	21.8 gr / 11,300 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	21.1 gr / 11,500 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	22.1 gr / 11,200 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	20.8 gr / 11,400 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	21.4 gr / 10,600 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	22.5 gr / 10,900 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	21.1 gr / 11,000 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	21.8 gr / 10,600 PSI
				<b>1165 fps</b>	<b>1220 fps</b>	<b>1275 fps</b>	<b>1300 fps</b>
1 oz.	IMR Blue	CCI 209M	BP/SPTG16	23.6 gr / 8,300 PSI	25.0 gr / 9,200 PSI	26.5 gr / 10,200 PSI	27.1 gr / 10,600 PSI
1 oz.	IMR Blue	CCI 209M	CB 0100-16	23.2 gr / 9,000 PSI	24.6 gr / 9,700 PSI	26.1 gr / 10,500 PSI	26.7 gr / 10,800 PSI
1 oz.	IMR Blue	CCI 209M	Rem. SP16	23.3 gr / 8,300 PSI	24.8 gr / 9,100 PSI	26.2 gr / 9,800 PSI	26.9 gr / 10,200 PSI
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	26.6 gr / 10,700 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	26.3 gr / 11,200 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	26.0 gr / 10,600 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	27.4 gr / 10,400 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	27.1 gr / 10,500 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	27.2 gr / 10,300 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	27.3 gr / 10,600 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	26.6 gr / 10,900 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	26.8 gr / 10,300 PSI
				<b>1185 fps</b>	<b>1240 fps</b>		
1 1/8 oz.	IMR Blue	CCI 209M	BP/SPTG16	24.5 gr / 10,400 PSI	26.0 gr / 11,100 PSI		
1 1/8 oz.	IMR Blue	CCI 209M	CB 0100-16	23.9 gr / 10,500 PSI	25.3 gr / 11,200 PSI		
1 1/8 oz.	IMR Blue	CCI 209M	Rem. SP16	24.0 gr / 10,000 PSI	25.5 gr / 11,000 PSI		
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		

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

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
<b>16 GA., 2 3/4", REMINGTON SP PLASTIC SHELLS (CONT.)</b>							
				<b>1185 fps</b>	<b>1240 fps</b>		
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		
<b>16 GA., 2 3/4", WINCHESTER X-PERT PLASTIC SHELLS</b>							
				<b>1165 fps</b>	<b>1220 fps</b>	<b>1275 fps</b>	<b>1300 fps</b>
1 oz.	IMR Blue	CCI 209M	BP/SPTG16	25.1 gr / 6,500 PSI	26.7 gr / 7,200 PSI	28.4 gr / 8,000 PSI	29.1 gr / 8,300 PSI
1 oz.	IMR Blue	CCI 209M	CB 0100-16	24.7 gr / 6,800 PSI	26.3 gr / 7,600 PSI	27.9 gr / 8,400 PSI	28.6 gr / 8,800 PSI
1 oz.	IMR Blue	CCI 209M	Rem. SP16	24.9 gr / 6,400 PSI	26.5 gr / 7,100 PSI	28.2 gr / 7,900 PSI	28.9 gr / 8,200 PSI
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	28.4 gr / 8,800 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	27.6 gr / 9,300 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	27.5 gr / 8,800 PSI
1 oz.	IMR Blue	Rem. 209P	BP/SPTG16	25.1 gr / 6,400 PSI	26.7 gr / 7,200 PSI	28.4 gr / 8,000 PSI	29.1 gr / 8,400 PSI
1 oz.	IMR Blue	Rem. 209P	CB 0100-16	24.8 gr / 6,900 PSI	26.5 gr / 7,600 PSI	28.1 gr / 8,300 PSI	28.9 gr / 8,600 PSI
1 oz.	IMR Blue	Rem. 209P	Rem. SP16	25.0 gr / 6,400 PSI	26.6 gr / 7,100 PSI	28.3 gr / 7,800 PSI	29 gr / 8,100 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	29.1 gr / 8,600 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	28.6 gr / 9,000 PSI
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
				<b>1185 fps</b>	<b>1240 fps</b>	<b>1295 fps</b>	<b>1350 fps</b>
1 1/8 oz.	IMR Blue	CCI 209M	BP/SPTG16	26.0 gr / 8,200 PSI	27.7 gr / 9,100 PSI	29.5 gr / 10,100 PSI	31.2 gr / 11,000 PSI
1 1/8 oz.	IMR Blue	CCI 209M	CB 0100-16	25.8 gr / 8,400 PSI	27.5 gr / 9,300 PSI	29.1 gr / 10,200 PSI	30.8 gr / 11,100 PSI
1 1/8 oz.	IMR Blue	CCI 209M	Rem. SP16	25.9 gr / 8,000 PSI	27.6 gr / 8,900 PSI	29.2 gr / 9,900 PSI	30.9 gr / 10,800 PSI
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	Rem. 209P	BP/SPTG16	26.3 gr / 8,300 PSI	28.1 gr / 9,000 PSI	29.9 gr / 9,800 PSI	31.7 gr / 10,500 PSI
1 1/8 oz.	IMR Blue	Rem. 209P	CB 0100-16	26.0 gr / 8,300 PSI	27.8 gr / 9,100 PSI	29.6 gr / 9,800 PSI	31.4 gr / 10,600 PSI
1 1/8 oz.	IMR Blue	Rem. 209P	Rem. SP16	26.2 gr / 7,700 PSI	28.0 gr / 8,400 PSI	29.8 gr / 9,100 PSI	31.6 gr / 9,800 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
<b>20 GA., 2 3/4", REMINGTON RXP, PREMIER AND STS PLASTIC SHELLS</b>							
				<b>1150 fps</b>	<b>1200 fps</b>		
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		

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
<b>20 GA., 2 3/4", REMINGTON RXP, PREMIER AND STS PLASTIC SHELLS (CONT.)</b>							
				<b>1100 fps</b>	<b>1150 fps</b>		
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		
				<b>1155 fps</b>	<b>1200 fps</b>	<b>1225 fps</b>	<b>1250 fps</b>
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	-
				<b>1250 fps</b>	<b>1300 fps</b>	<b>1350 fps</b>	
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	-	
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	-	
				<b>1150 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>	<b>1300 fps</b>
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	CCI 209	CB 1078-20	15.2 gr / 10,400 PSI	16.2 gr / 11,600 PSI	-	-
7/8 oz.	572	CCI 209	DRV-20	15.2 gr / 9,400 PSI	16.2 gr / 10,500 PSI	17.2 gr / 11,600 PSI	-
7/8 oz.	572	CCI 209	Rem. RXP20	15.2 gr / 9,500 PSI	16.3 gr / 10,800 PSI	17.4 gr / 12,000 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	-	-

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
<b>20 GA., 2 3/4", REMINGTON RXP, PREMIER AND STS PLASTIC SHELLS (CONT.)</b>							
				<b>1150 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>	<b>1300 fps</b>
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	Rem. 209P	CB 1078-20	15.2 gr / 9,100 PSI	16.2 gr / 10,500 PSI	17.2 gr / 11,900 PSI	-
7/8 oz	572	Rem. 209P	DRV-20	15.6 gr / 8,400 PSI	16.6 gr / 9,600 PSI	17.7 gr / 10,800 PSI	18.8 gr / 12,000 PSI
7/8 oz	572	Rem. 209P	Rem. RXP20	15.3 gr / 8,800 PSI	16.3 gr / 9,900 PSI	17.3 gr / 10,900 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
				<b>1165 fps</b>	<b>1220 fps</b>		
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 PS		
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		
				<b>1150 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>	
1 oz.	IMR Blue	CCI 209	BP SG20S	20.0 gr / 8,900 PSI	21.2 gr / 9,600 PSI	22.5 gr / 10,400 PSI	
1 oz.	IMR Blue	CCI 209	Rem. SP20	20.2 gr / 9,900 PSI	21.4 gr / 10,300 PSI	22.6 gr / 10,700 PSI	
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	
				<b>1165 fps</b>			
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			
1 oz	572	Win. 209	Rem. SP 20	16.2 gr / 11,500 PSI			
<b>20 GA., 2 3/4", WINCHESTER COMPRESSION-FORMED AA AND HS TYPE SHELLS</b>							
				<b>1150 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>	
3/4 oz	Internat'l	Rem. 209P	WAA20	12.1 gr / 9,000 PSI	13.2 gr / 10,500 PSI	-	
3/4 oz	Internat'l	Win. 209	WAA20	12.0 gr / 10,100 PSI	13.0 gr / 11,700 PSI	-	

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
<b>20 GA., 2 3/4", WINCHESTER COMPRESSION-FORMED AA AND HS TYPE SHELLS (CONT.)</b>							
				<b>1100 fps</b>	<b>1150 fps</b>		
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	Rem. 209P	DRV-20	13.1 gr / 10,600 PSI	13.9 gr / 11,800 PSI		
7/8 oz Lt.	IMR Green	Rem. 209P	Rem. RXP20	13 gr / 10,300 PSI	13.8 gr / 10,900 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		
				<b>1200 fps</b>			
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			
				<b>1250 fps</b>	<b>1300 fps</b>		
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		
				<b>1150 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>	<b>1300 fps</b>
7/8 oz	WSF	CCI 209	Rem. RXP20	-	17.5 gr / 10,500 PSI	-	-
7/8 oz	WSF	CCI 209	WAA20	-	16.5 gr / 11,300 PSI	-	-
7/8 oz	WSF	Win. 209	Rem. RXP 20	-	17.0 gr / 10,700 PSI	-	-
7/8 oz	WSF	Win. 209	WAA20	-	16.5 gr / 11,200 PSI	-	-
7/8 oz	572	CCI 209	CB 1078-20	15.2 gr / 9,500 PSI	16.4 gr / 10,700 PSI	17.6 gr / 11,900 PSI	-
7/8 oz	572	CCI 209	DRV-20	15.6 gr / 9,000 PSI	16.8 gr / 10,100 PSI	18.0 gr / 11,200 PSI	-
7/8 oz	572	CCI 209	Rem. RXP20	16.0 gr / 8,800 PSI	17.1 gr / 9,700 PSI	18.3 gr / 10,600 PSI	19.4 gr / 11,600 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*			
<b>20 GA., 2 3/4", WINCHESTER COMPRESSION-FORMED AA AND HS TYPE SHELLS (CONT.)</b>							
				<b>1150 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>	<b>1300 fps</b>
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	Rem. 209P	CB 1078-20	15.4 gr / 9,200 PSI	16.7 gr / 10,400 PSI	18.0 gr / 11,600 PSI	-
7/8 oz	572	Rem. 209P	DRV-20	15.5 gr / 8,700 PSI	16.6 gr / 9,600 PSI	17.8 gr / 10,500 PSI	18.9 gr / 11,300 PSI
7/8 oz	572	Rem. 209P	RXP20	15.4 gr / 7,200 PSI	16.5 gr / 8,200 PSI	17.7 gr / 9,200 PSI	18.8 gr / 10,100 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
				<b>1165 fps</b>	<b>1220 fps</b>	<b>1250 fps</b>	
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	-	
				<b>1165 fps</b>			
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. SP 20	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. SP 20	16.4 gr / 11,800 PSI			
1 oz	572	Win. 209	Rem. SP20	16.2 gr / 12,000 PSI			
				<b>1150 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>	
1 oz.	IMR Blue	CCI 209	BP SG20S	19.8 gr / 9,600 PSI	21.2 gr / 10,700 PSI	22.6 gr / 11,800 PSI	
1 oz.	IMR Blue	CCI 209	Rem. SP 20	20.1 gr / 9,900 PSI	21.5 gr / 10,800 PSI	22.8 gr / 11,700 PSI	
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. SP 20	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. SP 20	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. SP 20	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. SP 20	20.0 gr / 9,000 PSI	21.3 gr / 9,800 PSI	22.6 gr / 10,600 PSI	

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
<b>28 GA., 2 3/4", REMINGTON STS PLASTIC SHELLS</b>							
				<b>1200 fps</b>			
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			
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			
				<b>1225 fps</b>	<b>1250 fps</b>	<b>1275 fps</b>	<b>1300 fps</b>
3/4 oz	Longshot	Rem. 209P	PC 28	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	PC 28	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
				<b>1150 fps</b>	<b>1200 fps</b>		
3/4 oz	572	CCI 209	BP SG 28	12.8 gr / 11,100 PSI	13.8 gr / 12,500 PSI		
3/4 oz	572	CCI 209	Fed. 28S1	12.2 gr / 12,000 PSI	-		
3/4 oz	572	CCI 209	PC28	12.5 gr / 11,100 PSI	13.6 gr / 12,000 PSI		
3/4 oz	572	CCI 209	Red Duster	12.4 gr / 10,400 PSI	13.4 gr / 11,900 PSI		
3/4 oz	572	CCI 209	Rem. PT28	12.5 gr / 10,500 PSI	13.6 gr / 12,100 PSI		
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		

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

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
<b>28 GA., 2 3/4", REMINGTON STS PLASTIC SHELLS (CONT.)</b>							
				<b>1150 fps</b>	<b>1200 fps</b>		
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		
				<b>1150 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>	<b>1300 fps</b>
3/4 oz	IMR Blue	CCI 209	DR Red Duster	16.5 gr / 10,000 PSI	17.6 gr / 10,900 PSI	18.8 gr / 11,800 PSI	-
3/4 oz	IMR Blue	CCI 209	Fed. 28S1	16.8 gr / 10,300 PSI	17.9 gr / 11,400 PSI	19.0 gr / 12,400 PSI	-
3/4 oz	IMR Blue	CCI 209	PC28	16.6 gr / 10,300 PSI	17.7 gr / 11,400 PSI	18.8 gr / 12,500 PSI	-
3/4 oz	IMR Blue	CCI 209	Rem. PT28	16.5 gr / 10,200 PSI	17.5 gr / 11,000 PSI	18.5 gr / 11,700 PSI	19.5 gr / 12,500 PSI
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
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
<b>28 GA., 2 3/4", WINCHESTER AA, HS AND SUPER-X HS PLASTIC SHELLS</b>							
				<b>1200 fps</b>	<b>1225 fps</b>		
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	-		
				<b>1200 fps</b>			
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			

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
<b>28 GA., 2 3/4", WINCHESTER AA, HS AND SUPER-X HS PLASTIC SHELLS (CONT.)</b>							
				<b>1200 fps</b>			
3/4 oz	HS-6	Win. 209	WAA28HS	18.0 gr / 10,600 PSI			
				<b>1200 fps</b>	<b>1225 fps</b>	<b>1250 fps</b>	<b>1275 fps</b>
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	-
				<b>1150 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>	
3/4 oz	572	CCI 209	BP SG 28	12.9 gr / 9,700 PSI	14.0 gr / 11,600 PSI	-	
3/4 oz	572	CCI 209	CB 5034-28HS	12.9 gr / 9,000 PSI	13.8 gr / 10,500 PSI	14.8 gr / 12,000 PSI	
3/4 oz	572	CCI 209	Fed. 28S1	12.7 gr / 9,400 PSI	13.6 gr / 10,800 PSI	14.5 gr / 12,300 PSI	
3/4 oz	572	CCI 209	PC28	13.6 gr / 9,000 PSI	14.3 gr / 10,600 PSI	15.0 gr / 12,300 PSI	
3/4 oz	572	CCI 209	Rem. PT28	13.2 gr / 9,400 PSI	14.0 gr / 10,500 PSI	14.8 gr / 11,700 PSI	
3/4 oz	572	Ched. 209	BP SG 28	12.8 gr / 9,000 PSI	14.6 gr / 11,800 PSI	-	
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	
				<b>1150 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>	<b>1300 fps</b>
3/4 oz.	IMR Blue	CCI 209	Fed. 28S1	17.0 gr / 10,400 PSI	18.1 gr / 11,400 PSI	19.2 gr / 12,500 PSI	-
3/4 oz.	IMR Blue	CCI 209	PC28	17.0 gr / 9,600 PSI	18.4 gr / 10,800 PSI	19.7 gr / 11,900 PSI	-
3/4 oz.	IMR Blue	CCI 209	Rem. PT28	17.0 gr / 9,400 PSI	18.0 gr / 10,400 PSI	19.1 gr / 11,300 PSI	20.1 gr / 12,300 PSI
3/4 oz.	IMR Blue	CCI 209	WAA28HS	17.0 gr / 10,000 PSI	18.2 gr / 12,000 PSI	19.5 gr / 12,400 PSI	-
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	20.5 gr / 11,900 PSI

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

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
<b>28 GA., 2 3/4", WINCHESTER AA, HS AND SUPER-X HS PLASTIC SHELLS (CONT.)</b>							
				<b>1150 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>	<b>1300 fps</b>
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	20.0 gr / 12,500 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	20.5 gr / 11,600 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	20.4 gr / 12,000 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	21.0 gr / 12,400 PSI
				<b>1150 fps</b>	<b>1200 fps</b>	<b>1250 fps</b>	
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	
<b>410 BORE, 2 1/2", REMINGTON-PETERS STS PLASTIC SHELLS</b>							
				<b>1200 fps</b>			
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			
<b>410 BORE, 2 1/2", WINCHESTER AA AND HS PLASTIC SHELLS</b>							
				<b>1200 fps</b>	<b>1250 fps</b>	<b>1300 fps</b>	
1/2 oz.	Lil'Gun	Fed. 209A	Fed. 410SC	13.3 gr / 11,900 PSI	-	-	

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*		
<b>410 BORE, 2 1/2", WINCHESTER AA AND HS PLASTIC SHELLS (CONT.)</b>						
				<b>1200 fps</b>	<b>1250 fps</b>	<b>1300 fps</b>
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

### IMR Target®



Fast-burning pistol powder yielding outstanding performance in 25 ACP, 38 Special and 45 ACP

- Perfect for cowboy action target loads, where reduced recoil loads are needed
- For the shooter demanding competition accuracy in a great pistol powder, this is it!

### IMR Red®



Efficient, clean-burning 12-gauge target powder for light 7/8- to 1-1/8-oz. handicap trap loads

- Will produce efficient low-charge weights, mild muzzle report and minimal recoil
- Great for dove and light field 12-gauge loads
- Performs well in various lead pistol target loads, such as match competition loads and cowboy action reduced loads

### IMR Green®



Slightly slower burning than IMR RED, making it an ideal handicap trap powder and a favorite with sporting clays enthusiasts

- Allows the shooter to reach maximum velocity with heavy 1- 1/8-oz. target loads
- Accommodates loads from 7/8 to 1-1/8 -oz. 12-gauge loads
- Produces excellent light 3/4-oz., 20-gauge target loads, especially in Remington STS and Winchester AA HS shells

### IMR Blue®



Slowest burn speed of the new IMR family, IMR Blue is a true magnum propellant yielding outstanding performance in 12-gauge shotshells

- Heavy 12-gauge, 1-1/4- and 1-3/8-oz. field loads for a 2-3/4" shell
- Heavy 3" and 3-1/2" 12-gauge loads are available for the avid turkey hunter
- Ideal burn speed for "back fence games" where 1-1/4- and 1-3/8-oz. loads are the norm
- Data for 10-gauge, 16-gauge and 20-gauge also available, providing true magnum velocities and performance



## 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

Available in 1-LB and 8-LB containers



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

Available in 1-LB and 8-LB containers

