

Basic Reloading Manual



HODGDON
THE BRAND THAT'S TRUE



HODGDON
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H4831SC EXTREME
RIFLE POWDER

RELOADING DATA CENTER
For a complete listing of all our data go to www.hodgdon.com

CALIBER	CHARGE	BULLET	CASE	PRIMER	C.O.L.	VELOCITY
243 Win.	43.7 gr.	100 gr. Sp. BTSP	Win.	Win. LR	2.850"	3100 fps
270 Rem.	56.0 gr.	130 gr. H&S SP	Win.	Win. LR	3.280"	3050 fps
7mm Rem. Mag.	65.0 gr.	180 gr. S&S SP	Win.	Win. LR	3.280"	2710 fps
		140 gr. Nos. PART	Win.	Win. LR	3.280"	3150 fps

MAXIMUM LOADS - DO NOT EXCEED - REDUCE BY 10% TO START

NET WT 8 LBS. (3.63 KGS)

MADE IN U.S.A.

HODGDON
THE BRAND THAT'S TRUE

CLAYS TECHNOLOGY

RELOADING DATA CENTER
For a complete listing of all our data go to www.hodgdon.com

12 Ga. • 1-1/8 oz. Shot	20 Ga. • 7/8 oz. Shot
WAD	PRIMER
Rem. 575	Rem. 575
Rem. 575	Rem. 575
Rem. 575	Rem. 575
Rem. 575	Rem. 575
Rem. 575	Rem. 575
Rem. 575	Rem. 575
Rem. 575	Rem. 575
Rem. 575	Rem. 575
Rem. 575	Rem. 575

MAXIMUM LOADS - DO NOT EXCEED

NET WT 8 LBS. (3.63 KGS)

MADE IN AUSTRALIA • PACKAGED IN U.S.A.

IMR
LEGENDARY POWDERS

4895

SMOKELESS POWDER

DANGER!
EXTREMELY FLAMMABLE
BEFORE USING SEE PRECAUTIONS ON BACK

NET WT. 8 LBS. (3.63 KGS)

Manufactured in Canada
Packaged in USA

WINCHESTER
SMOKELESS PROPELLANTS
FOR LOADING PROFESSIONALS

760

Great Pow Characteristics
Excellent Velocity in a
Wide Range of Rifle Events
Rifle Cartridge of High Energy

HODGDON
THE BRAND THAT'S TRUE

UNIVERSAL
TECHNOLOGY

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MADE IN U.S.A.

HODGDON
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HP-38
PISTOL POWDER

RELOADING DATA CENTER
For a complete listing of all our data go to www.hodgdon.com

CHARGE	BULLET	CASE	PRIMER	C.O.L.	VELOCITY
3.7 gr.	110 gr. EPR G&H	Win.	Win. LR	1.100"	1167 fps
7.0 gr.	100 gr. Cav. L&VC	Win.	Win. LR	1.100"	1300 fps
8.0 gr.	105 gr. H&S SP	Win.	Win. LR	1.100"	1300 fps
8.5 gr.	105 gr. H&S SP	Win.	Win. LR	1.100"	1300 fps
8.8 gr.	200 gr. Cav. L&VC	Win.	Win. LR	1.100"	1167 fps
8.8 gr.	200 gr. Cav. L&VC	Win.	Win. LR	1.100"	1167 fps
8.8 gr.	200 gr. Cav. L&VC	Win.	Win. LR	1.100"	1167 fps
8.8 gr.	200 gr. Cav. L&VC	Win.	Win. LR	1.100"	1167 fps
8.8 gr.	200 gr. Cav. L&VC	Win.	Win. LR	1.100"	1167 fps

MAXIMUM LOADS - DO NOT EXCEED - REDUCE BY 10% TO START

NET WT 8 LBS. (3.63 KGS)

MADE IN U.S.A.

IMR

4831

SMOKELESS POWDER

DANGER!
EXTREMELY FLAMMABLE
BEFORE USING SEE PRECAUTIONS ON BACK

NET WT. 8 LBS. (3.63 KGS)

Manufactured in Canada
Packaged in USA

WINCHESTER
SMOKELESS PROPELLANTS

748

Medium Speed Propellant
with Lower Flame Temperature
for Extended Barrel Wear
for SMALL AND MEDIUM RIFLE

HODGDON
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VARGET
RIFLE POWDER

RELOADING DATA CENTER
For a complete listing of all our data go to www.hodgdon.com

CALIBER	CHARGE	BULLET	CASE	PRIMER	C.O.L.	VELOCITY
270 Rem.	27.5 gr.	55 gr. Spr. SP	Win.	Win. SR	2.200"	3304 fps
308 Rem.	39.5 gr.	40 gr. Nos. BT	Win.	Win. LR	2.350"	3304 fps
308 Rem.	36.5 gr.	55 gr. Spr. SP	Win.	Win. LR	2.350"	3304 fps
308 Rem.	40.0 gr.	55 gr. Spr. SP	Win.	Win. LR	2.350"	3304 fps
308 Rem.	51.0 gr.	168 gr. Nos. BT	Win.	Win. LR	2.350"	3304 fps
308 Rem.	67.0 gr.	150 gr. Nos. BT	Win.	Win. LR	2.350"	3304 fps
		270 gr. Win. FS	Win.	Fed. 210	2.350"	3304 fps

MAXIMUM LOADS - DO NOT EXCEED - REDUCE BY 10% TO START

NET WT 8 LBS. (3.63 KGS)

MADE IN U.S.A.

IMR

4895

SMOKELESS POWDER

DANGER!
EXTREMELY FLAMMABLE
BEFORE USING SEE PRECAUTIONS ON BACK

NET WT. 8 LBS. (3.63 KGS)

Manufactured in Canada
Packaged in USA

IMR

TRAIL BOSS

Technology Powder
Exclusively
lets
order of
laws

NET WT. 5 LBS. (2.27 KGS)

WINCHESTER
SMOKELESS PROPELLANTS

AutoComp
The Competition Pistol Propellant

780

Printed in USA

DANGER - HIGHLY FLAMMABLE
Keep out of reach of children. Read all
warnings on package. Store in cool, dry place.
Use only with permission.



For over 60 years Hodgdon® has supplied the handloader with the most diverse selection of improved technology high performance Rifle, Pistol, and Shotshellpowders. From the historical classic H4895® to the clean burning standard for the industry Clays® to the newest technology Hybrid 100V™ Hodgdon has a powder to meet every handloader's need.



Hodgdon Extreme is an exclusive line of extruded rifle powders developed with extreme weather conditions in mind. The Extreme powders perform just as well at 125° as they do at 0°, better than any other powder on the market. Whether hunting at deer in the dead of winter or prairie dogs in the middle of July, extreme powders give consistent performance load after load.

Newly Developed



Hodgdon Hybrid 100V™ is a new technology rifle powder that marries two technologies: the chemistry of a *Spherical* powder with the geometry of an *Extruded* propellant. Delivering velocities not seen before in a variety of popular cartridges, such as 3,310fps for a 150-grain bullet in the 300 Weatherby Magnum –nearly 100fps faster than the nearest competitor. The unique small grain, part Spherical, part Extruded shape benefits the handloader in two ways; the powder accurately flows smoothly and easily through a measure and charge weights are consistent for ideal load density and pinpoint accuracy. Hybrid 100V sets the performance standard with *winning* precision target shooting and big game hunting performance.



For over 100 years, from before WWI to today, IMR® Legendary Powders have been the standard in Rifle powder performance. The broad IMR extruded powder line offers powders with burn rates perfect for traditional standards like 30-06, 30-30, and 270 to the newest high performance calibers such as the 300WSM and 375 Ruger. IMR powders are also available for Pistol and Shotgun loads.

Super Short
Cut

IMR Super Short Cut powders offer legendary IMR rifle performance improved with grains that are cut 35% shorter. Shorter grains benefit consistency for smooth, even metering and a 4% denser load. Uniformity, versatility, and performance are inherent in the IMR Super Short Cut line.

Newly Developed



The newest of the IMR Super Short Cut line, IMR4007SSC™ breaks new ground offering a versatile burn speed compatible with a wide range of calibers. Applicable from 17 caliber to 416 caliber, the advantages of Super Short Cut technology are now available for loading in your favorite rifle.



Winchester® BALL POWDER® propellants are for LOADING PROFESSIONALS. Only with Winchester smokeless propellants can the loads coming off your home reloading press equal the rigorous performance and quality standards of Winchester factory produced ammunition. Twins in every respect.



New for 2009

AutoComp™ - The Competition Pistol Powder



Developed for the discriminating competition pistol shooter, Winchester AutoComp is ideal at delivering maximum semi-auto cartridge and race pistol compensator performance. Specifically designed for the calibers 38 Super, 9mm, 45 ACP and 40 S&W. AutoComp has a longer duration pressure – time relationship offering a higher volume of gas for higher velocity and improved pistol compensator effectiveness. Translation: faster shots with better accuracy.

Three Powder Reloading Manuals in One

Reload Data from THREE powder companies is included in this one reloading manual; Hodgdon, IMR, and Winchester Smokeless Propellants. Data is listed for most popular Rifle, Pistol, and Shotgun cartridges.

For the most comprehensive up to date reload data, including the most recent new caliber introductions, please go to the Reloading Data Center at hodgdon.com.



Contents	page
Hodgdon New Products	2
IMR New Products	3
Winchester New Products	4
Introduction	5
Powder Descriptions	6-7
Hodgdon Rifle Powders	8
Hodgdon Usage Charts	9
IMR Powder Descriptions	10
IMR Usage Charts	11
Winchester Powder Descriptions	12
Winchester Usage Charts	13
Relative Burn Rate	13
Properties and Storage of Powder	14
Shipping and Storage of Smokeless Propellants	15
Warnings	16
Rifle Data	17-25
Pistol Data	26-28
IMR Trail Boss	29
Cowboy Action Data	30-33
Shotshell	35
Shotshell Wad Chart and Notes on Recoil	35
Shotshell Bushing Charts	36-37
Shotshell Data	38-66
Muzzleloading Products	69
Clays	70
Annual Manual, Customer Service, Online Resource	71

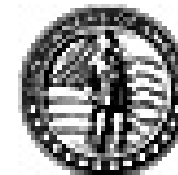
January 2009

Mission Statement

Our mission is to provide quality propellants, other products, and services to sportsmen, governing units, and other businesses in a manner which enhances the quality of life for our stockholders, employees, customers, associates, and suppliers. 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



NRA

Printed in USA



Pistol & Shotgun Powders

In Order of Approximate Burning Rate

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

CLAYS® Introduced in January 1992, CLAYS has “taken the clay target world by storm.” It is the most clean burning, consistent 12 ga. 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 ga., 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 ga., 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 ga. 3/4 oz., 20 ga. 7/8 oz., 16 ga. 1 oz., and even 12 ga.

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 ga., 12 ga., 16 ga., 20 ga., and even the efficient and effective 28 ga. 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 ga., 12 ga., 16 ga., 20 ga., and 28 ga. 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 miniscule 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

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

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

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

▶ **H4895®** H4895 is a most versatile rifle powder. This member of the Extreme Extruded line is great for 17 Remington, 250-3000 Savage, 308 Winchester and 458 Winchester, to name just a few. It is amazingly accurate in every cartridge where it is listed in our data. It had its origin in the 30-06 as a military powder and was the first powder Bruce Hodgdon sold to the loading public.

▶ *Extreme Powders*

▶ **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 of course, the 308 Winchester, plus many more.

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.

H414® This spherical powder gives excellent results in a wide range of uses, from the 22-250 Remington to the 375 H&H. It is simply ideal in the 30-06. As with all of our spherical powders, it delivers incredibly consistent charge weights through nearly any type of powder measure. H414 yields similar results to H4350 in most cartridges, although charge weights will vary.

▶ **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.

▶ **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 to 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.

▶ **H50BMG™** As the name implies, this new generation Extreme Extruded rifle propellant is a clean burning powder designed expressly for the 50 caliber BMG cartridge. Because it shares the same technology as VARGET, H50 BMG displays a high degree of thermal stability in temperature extremes. Tests have conclusively proven that H50BMG yields very low extreme spreads in velocity and pressure. All this translates into small groups at extended ranges!



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.

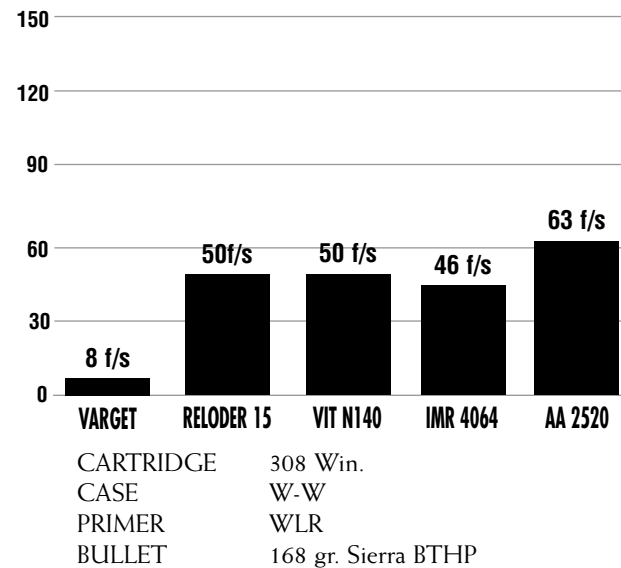
LOT CONSISTENCY

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.
Lil' Gun			X			
H4227			X			
H4198	X		X			
H322	X	X	X	X		
BENCHMARK	X	X	X	X		
H335	X	X	X	X		
H4895	X	X	X	X		
VARGET	X	X	X	X		
BL-C(2)	X	X	X	X		
H380		X				
H414		X		X		
H4350		X		X	X	
HYBRID 100V		X		X	X	
H4831				X	X	
H4831 SC				X	X	
H1000				X	X	
RETUMBO					X	
US869					X	X
H50BMG					X	X

Shotgun Usage

	TARGET				LIGHT FIELD					HEAVY FIELD					
	12 GA	20 GA	28 GA	410 BORE	12 GA	16 GA	20 GA	28 GA	410 BORE	10 GA	12 GA	16 GA	20 GA	28 GA	410 BORE
CLAYS	X				X										
TITEWAD	X				X										
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		
TITEGROUP	X	X		
UNIVERSAL	X	X	X	
HP-38	X	X	X	
HS-6		X	X	
Lil' GUN			X	X
H110			X	X
H4227			X	X



Pistol & Shotgun Powders

In Order of Approximate Burning Rate

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.

PB™ PB is great for Trap, Skeet, and Sporting Clays where heavy 1 ounce and 1-1/8 ounce loads are needed. In pistol it yields top performance in target and plinking loads for such cartridges as the 40 S&W, 45 Auto, etc. The small extruded grains deliver metering that is always super uniform.

SR7625® SR7625 covers the wide range of shotshells from 10 gauge to 28 gauge in both target and field loadings. The versatile powder is equally useful in a large array of handgun cartridges for target, self-defense, and hunting loads.

Hi-Skor 800-X™ This large-grained flake powder is at its best when used in heavy field loads from 10 gauge to 28 gauge. In handgun cartridges 800-X performs superbly in cartridges like the 10mm auto and 44 Remington Magnum. Excellent velocity and uniformity translate into top accuracy.

SR 4756™ This fine-grained, easy-metering propellant has long been a favorite of upland and waterfowl handloaders. Top velocities with great patterns are legendary. Like 800-X, SR 4756 performs extremely well in the big handgun cartridges. Always a top choice.

SR 4759™ This bulky powder really shines as a reduced load propellant for rifle cartridges. Its large grain size gives good loading density for reduced loads, enhancing velocity uniformity.

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

IMR4198™ 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. Proven 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.

IMR 3031™ A propellant with many uses, IMR3031 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 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 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 4320™ Short granulation, easy metering, and perfect for the 223 Remington, 22-250 Remington, 250 Savage, and other medium burn rate cartridges. Long a top choice for the vintage 300 Savage cartridge as well.

IMR 4007 SSC™ Super Short granulated powder with a burn speed that falls between 4320 and 4350. Ideally suited for varmint cartridges like the 220 Swift, 22-250 Remington and 243 Winchester. Additionally, well suited for the venerable 30-06, the 300 Winchester Short Magnum, and the Super Short Magnums 243 and 25 Winchester.

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 4831™ Slightly slower in burn speed than IMR4350, IMR 4831 gives top velocities and performance with heavier bullets in medium-sized magnums.

IMR 7828™ The BIG magnum powder. This slow burner gives real magnum performance to the large over-bored magnums, such as the 300 Remington Ultra Magnum, the 30-378 Weatherby Magnum, and the 7mm Remington Ultra Magnum. This powder is highly regarded by most magnum aficionados.

IMR 7828SSC™ 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.



Rifle Usage

	TARGET	SILHOUETTE	LIGHT	MEDIUM	MAGNUM	50 CAL.
TRAIL BOSS	X		X			
IMR4227			X			
SR4759			X			
IMR4198	X		X			
IMR3031	X	X	X	X		
IMR4895	X	X	X	X		
IMR4064	X	X	X	X		
IMR4320	X	X	X	X		
IMR4007SSC		X		X	X	
IMR4350		X		X	X	
IMR4831				X	X	
IMR7828				X	X	
IMR7828SSC				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
Hi-Skor 700-X	X				X	X									
Hi-Skor 800-X	X	X	X		X	X	X	X		X	X	X	X	X	
PB	X	X			X	X	X				X	X	X		
SR7625	X	X	X		X	X	X	X		X	X	X	X		
SR4756		X	X		X	X	X	X		X	X	X	X		
IMR 4227				X					X						X

Pistol Usage

	TARGET	LIGHT DUTY	MEDIUM DUTY	MAGNUM
Hi-Skor 700-X	X	X		
TRAIL BOSS	X	X		
Hi-Skor 800-X	X	X	X	
PB	X	X		
SR7625	X	X		
SR4756	X	X		
SR4759			X	X
IMR 4227			X	X

WINCHESTER

SMOKELESS PROPELLANTS

FOR LOADING PROFESSIONALS

Pistol & Shotgun Powders

In Order of Approximate Burning Rate

WAALITE™ Superb 12 gauge spherical powder, designed for clean burning, reduced velocity loads for 7/8 oz., 1 oz. and 1-1/8 oz. loadings. This is the same powder used in Winchester's 26 gram, 980 fps, featherlight load. For 7/8, 1 and 1-1/8 ounce loads, we produced data from 970 to 1145 fps, perfect for ladies, new shooters or shooters who are recoil sensitive.

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

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

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

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

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

296® This propellant was developed for Winchester factory-loaded ammunition for 357 Magnum, 444 Magnum, and 410 Bore. Its high loading density provides optimal velocity. 296 is recommended by Winchester for 410 Bore AA loads.

Rifle Powders

In Order of Approximate Burning Rate

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

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

SUPREME 780™ Supreme 780 is a magnum, spherical powder that is used in many of Winchester's factory cartridges. To name a few, it is loaded in 243 Winchester, 270 Winchester and 300 Winchester Magnum. Smooth metering, excellent accuracy and top velocities make this the premier medium to magnum spherical powder for reloading.

Rifle Usage

	TARGET	SILHOUETTE	LIGHT	MEDIUM	MAGNUM	50 CAL.
748	X	X	X	X		
760		X	X	X	X	
SUPREME 780		X		X	X	

Pistol Usage

	TARGET	LIGHT DUTY	MEDIUM DUTY	MAGNUM
WST	X	X		
231	X	X	X	
AUTO COMP	X	X	X	
WSF	X	X		
296			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
WAALITE	X				X										
WST	X				X										
SUPER HANDICAP	X				X										
WSF	X	X			X	X					X				
296				X					X						X

Relative Burn Rate

From Fastest to Slowest

1 NORMA R1	41 Hodgdon LONGSHOT	81 Winchester 748
2 Winchester WAALite	42 Alliant 410	82 Hodgdon BL-C(2)
3 Vihtavouri N310	43 Alliant 2400	83 Hodgdon H380
4 Alliant e3	44 Accurate Arms No. 9	84 IMR 4007SSC
5 Hodgdon TITEWAD	45 NORMA R123	85 Vihtavouri N540
6 Alliant Red Dot	46 Vihtavouri N110	86 Winchester 760
7 Hodgdon CLAYS	47 Hodgdon LIL' GUN	87 Hodgdon H414
8 IMR Hi-Skor 700-X	48 Hodgdon H110	88 Vihtavouri N150
9 Alliant Bullseye	49 Winchester 296	89 Accurate Arms 4350
10 Winchester WST	50 IMR 4227	90 Accurate Arms 2700
11 Hodgdon TITEGROUP	51 Hodgdon H4227	91 IMR 4350
12 Alliant American Select	52 IMR SR4759	92 Hodgdon H4350
13 Accurate Arms Solo 1000	53 Accurate Arms 1680	93 NORMA 204
14 Alliant Green Dot	54 NORMA 200	94 Hodgdon HYBRID 100V
15 IMR Trail Boss	55 Alliant Reloder 7	95 Vihtavouri N550
16 Winchester Super Handicap	56 IMR 4198	96 Alliant Reloder 19
17 Hodgdon INTERNATIONAL	57 Hodgdon H4198	97 IMR 4831
18 IMR PB	58 Vihtavouri N120	98 Accurate Arms 3100
19 Vihtavouri N320	59 Hodgdon H322	99 Vihtavouri N160
20 Accurate Arms No. 2	60 Accurate Arms 2015BR	100 Hodgdon H4831 & H4831SC
21 IMR SR 7625	61 Vihtavouri N130	101 Winchester Supreme 780
22 Hodgdon HP-38	62 IMR 3031	102 NORMA MRP
23 Winchester 231	63 Vihtavouri N133	103 Alliant Reloder 22
24 Alliant 20/28	64 Hodgdon BENCHMARK	104 Vihtavouri N560
25 Alliant Power Pistol	65 Hodgdon H335	105 Vihtavouri N165
26 Alliant Unique	66 Accurate Arms 2230	106 IMR 7828
27 Hodgdon UNIVERSAL	67 Accurate Arms 2460	107 Vihtavouri N170
28 Alliant Herco	68 Hodgdon H4895	108 Hodgdon H1000
29 Winchester WSF	69 Vihtavouri N530	109 Hodgdon RETUMBO
30 Vihtavouri N340	70 IMR 4895	110 Vihtavouri N570
31 IMR Hi-Skor 800-X	71 Vihtavouri N135	111 Accurate Arms 8700
32 IMR SR4756	72 Alliant Reloder 12	112 Hodgdon H870
33 Accurate Arms No. 5	73 IMR 4320	113 Vihtavouri 24N41
34 Hodgdon HS-6	74 Accurate Arms 2495BR	114 Hodgdon H50BMG
35 Winchester, AutoComp	75 IMR 4064	115 Hodgdon US869
36 Vihtavouri 3N37	76 NORMA 202	116 Vihtavouri 20N29
37 Vihtavouri N350	77 Accurate Arms 2520	
38 Vihtavouri 3N38	78 Alliant Reloder 15	
39 Alliant Blue Dot	79 Vihtavouri N140	
40 Accurate Arms No. 7	80 Hodgdon VARGET	

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

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 reclassified 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 nonportable 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 nonportable 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.

Warnings

- Ballistic data shown in this manual was obtained under strictly controlled laboratory conditions.
- 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.
- Ballistic data varies considerably depending on many factors, including components used, how such components are assembled, the type of firearm used, and the reloading techniques and safety precautions utilized by the individual.
- Hodgdon Powder Company disclaims any warranties with respect to any and all products sold or distributed by it, the safety or suitability thereof, or the results obtained, whether express or implied, including without limitation, any implied warranty of merchantability or fitness for a particular purpose and/or any other warranty.
- The individual assumes the risk of safe loading practices. Failure to do so or violation of any of these warnings could result in severe personal injury (including death) or gun damage to the user or bystanders.
- Use flat point bullets in tubular magazines.
- For those loads listed where a starting load is not shown, start 10% below the suggested maximum load and then approach maximums carefully, watching for any sign of pressure (difficult extraction, cratered and flattened or blown primers, and unusual recoil).
- 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 this data. 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.
- Since Hodgdon Powder Company has no control over variations in components, reloading tools or reloader's procedures, the individual is solely responsible for any changes in ballistics that may occur using this data.
- Never exceed the charge recommendations listed in this data.
- Never mix any two powders regardless of type, brand or source.
- Never substitute any smokeless powder for black powder, for Pyrodex®, Triple Seven®, or other black powder substitute.
- 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 product liability or principles of indemnity or contribution. Hodgdon neither assumes nor authorizes any person to assume for it any liability in conjunction with the use of any product or data.
- Use this data with Hodgdon, IMR, and Winchester powders only.

Warnings

- 40 S&W: 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 conditions 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.
- 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 tables. 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.
- 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.
- Damascus barrels should be considered unsafe with any powder.
- H110 and W296 loads should not be reduced more than 3% due to inconsistency of velocity at the lower pressure.

RIFLE AND PISTOL data

This Reloading Data is presented in a format to make it easy to find the intended load information. The sequence of the data is:

3. Caliber Name – smallest to largest
4. Shellcase Capacity – smallest to largest
5. Bullet Weight – lightest to heaviest
6. Powder Burn Rate – slowest to fastest burning

All the Rifle data is presented first, followed by the Pistol data which is in the same formatting sequence. There is a separate third section for smokeless Cowboy Action data.

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.). 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 gauged 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 measured in pounds per square inch (PSI). The two systems do not provide the same maximum number for each cartridge, so no correlation can be made between systems. However, each cartridge has a standard for both systems, and therefore, actual maximums are physically the same.

When working up a load, the reloader should always begin with the starting load, advance in small increments, watch for pressure signs and begin again if changing components.

Generally, the best powder choice is the one which 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 that 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 he also reloads to improve accuracy and performance, creating special loads he cannot find on the dealers' shelves.

Brands

BAR	- Barnes
BTB	- Beartooth Bullets
BERB	- Berry's Bullets
BER	- Berger
BLX	- Bull-X
CPB	- Cast Performance Bullets
FA	- Freedom Arms
HDY	- Hornady
LY	- Lyman
MEI	- Meister
NOS	- Nosler
REM	- Remington
SIE	- Sierra
SFT	- Swift
SPR	- Speer
WDLGH	- Woodleigh
WIN	- Winchester

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

Bullets

AB	- Accu-Bond
A-Max	- Hornady Match
BK	- Blitz King
BR	- Bench Rest
BT	- Ballistic Tip
BTSP	- Boat Tail Spire Point
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
GS	- Grand Slam
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
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
PART	- Partition
PSPCL	- Pointed Soft Point "Core-Lokt"
RN	- Round Nose
SB	- Solid Base
SBP	- Spitzer Boat Tail
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
TMJ	- Totally Metal Jacket
TNT	- Varmint Bullet
TSX	- Triple Shock X Bullet
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

*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
17 REMINGTON FIREBALL CASE: REMINGTON				
BBL: 24" PR: REMINGTON 7 1/2				
20 GR. HDY V-MAX COL: 1.830"				
H335	20.5	4027	50,000 CUP	
Benchmark	20.0C	4013	49,100 CUP	
H322	19.5C	4019	49,200 CUP	
IMR 4198	16.7	4017	50,600 CUP	
H4198	17.3	4037	47,800 CUP	
25 GR. HDY HP COL: 1.800"				
H335	19.4	3744	50,400 CUP	
Benchmark	19.0	3745	48,500 CUP	
H322	18.3	3704	48,900 CUP	
IMR 4198	16.2	3692	50,000 CUP	
H4198	17.0	3789	49,900 CUP	
30 GR. BER HP COL: 1.800"				
H335	18.8	3512	49,000 CUP	
Benchmark	18.7C	3569	49,400 CUP	
H322	18.0	3533	49,300 CUP	
IMR 4198	15.8	3456	49,000 CUP	
H4198	15.9	3481	50,400 CUP	
204 RUGER CASE: HORNADY				
BBL: 24" PR: FEDERAL 205M				
32 GR. HDY V-MAX COL: 2.250"				
Varget	29.0C	3798	47,400 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	
Benchmark	28.0	4047	57,100 PSI	
H322	27.5	4030	56,400 PSI	
IMR 4198	23.5	4006	55,400 PSI	
35 GR. BER HP COL: 2.240"				
Varget	29.0C	3812	53,100 PSI	
IMR 4064	27.5C	3728	51,000 PSI	
BL-C(2)	30.7	3937	54,900 PSI	
IMR 4895	28.3C	3864	55,500 PSI	
H335	27.5	3915	56,600 PSI	
H4895	28.2C	3910	55,700 PSI	
IMR 3031	26.1C	3793	52,800 PSI	
Benchmark	26.6	3863	56,600 PSI	
H322	26.3	3828	55,400 PSI	
40 GR. HDY V-MAX COL: 2.250"				
Varget	28.1C	3647	55,100 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	
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	

BULLET	POWDER	GR	VEL	CUP
22 HORNET CASE: WINCHESTER				
BBL: 24" PR: WINCHESTER SR				
35 GR. HDY V-MAX COL: 1.725"				
H4198	11.5C	2420	26,300 CUP	
H4227	11.6C	2896	42,500 CUP	
H110	12.3	3060	41,400 CUP	
Lil'Gun	13.0	2842	24,000 CUP	
45 GR. HDY SP COL: 1.750"				
IMR 4198	10.5C	2010	20,100 CUP	
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	
222 REMINGTON CASE: WINCHESTER				
BBL: 24" PR: WINCHESTER SR				
40 GR. SIE HP COL: 2.125"				
H335	25.0	3371	44,600 CUP	
H4895	24.0C	3133	34,200 CUP	
Benchmark	25.0	3303	40,700 CUP	
H322	23.0	3313	44,000 CUP	
IMR 4198	21.2C	3583	48,700 PSI	
H4198	21.4	3480	45,700 CUP	
IMR 4227	16.0	3240	45,200 PSI	
50 GR. HDY SP COL: 2.130"				
Varget	25.0C	3114	40,600 CUP	
IMR 4320	25.0C	3100	47,600 PSI	
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	
Benchmark	24.0	3168	45,800 CUP	
H322	22.2	3079	43,200 CUP	
IMR 4198	19.3	3152	49,000 PSI	
H4198	20.5	3160	44,200 CUP	
223 REMINGTON CASE: WINCHESTER				
BBL: 24" PR: WINCHESTER SR				
40 GR. NOS BT COL: 2.280"				
Varget	28.0C	3674	47,200 CUP	
IMR 4320	27.7C	3456	48,900 PSI	
BL-C(2)	28.5	3612	45,400 CUP	
IMR 4895	26.5C	3390	44,200 PSI	
H335	28.0	3572	44,600 CUP	
H4895	27.5C	3573	44,500 CUP	
IMR 3031	25.2C	3498	46,200 PSI	
Benchmark	27.3	3666	51,000 CUP	
H322	25.5	3574	48,000 CUP	
IMR 4198	22.2	3652	53,400 PSI	
H4198	22.5	3601	49,600 CUP	

BULLET	POWDER	GR	VEL	CUP
50 GR. SPR SP COL: 2.210"				
Varget	27.5C	3383	44,800 CUP	
IMR 4320	27.5C	3270	48,900 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 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	
55 GR SPR SP COL: 2.200"				
Varget	27.5C	3384	49,700 CUP	
IMR 4320	26.1C	3146	50,700 PSI	
IMR 4064	25.7C	3201	52,600 PSI	
748	26.3	3150	39,000 CUP	
BL-C(2)	27.5	3313	48,500 CUP	
IMR 4895	26.2C	3219	53,200 PSI	
H335	25.3	3203	49,300 CUP	
H4895	26.0	3315	49,000 CUP	
IMR 3031	24.6C	3233	52,500 PSI	
Benchmark	25.6	3264	50,000 CUP	
H322	23.0	3106	48,900 CUP	
IMR 4198	20.4	3122	53,600 PSI	
H4198	21.0	3150	47,600 CUP	
22-250 REMINGTON CASE: WINCHESTER				
BBL: 24" PR: WINCHESTER LR				
40 GR. NOS BT COL: 2.350"				
H414	41.0	3933	47,100 CUP	
760	41.0	3933	47,100 CUP	
IMR 4007 SSC	40.2C	3973	50,900 PSI	
H380	41.0	3855	39,200 CUP	
Varget	39.5	4135	51,100 CUP	
IMR 4320	39.5	4201	62,600 PSI	
IMR 4064	38.5C	4187	60,500 PSI	
IMR 4895	39.0C	4189	60,200 PSI	
H4895	37.0	4060	48,700 CUP	
IMR 3031	36.3	4224	62,100 PSI	
Benchmark	36.5	4114	50,100 CUP	
50 GR. SIE SP COL: 2.350"				
H4350	42.0	3579	48,900 CUP	
H414	40.0	3765	48,600 CUP	
760	40.0	3765	48,600 CUP	
IMR 4007 SSC	40.2C	3945	63,100 PSI	
H380	41.0	3742	45,300 CUP	
Varget	37.5	3834	50,400 CUP	
IMR 4320	38.0	3864	62,800 PSI	
IMR 4064	37.0	3866	61,900 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	

BULLET	POWDER	GR	VEL	CUP
IMR 3031	35.0	3862	62,600 PSI	
Benchmark	36.0	3903	51,400 CUP	
H322	32.0	3628	50,300 CUP	
55 GR. SPR SP COL: 2.350"				
H4350	39.0	3490	47,800 CUP	
H414	39.0	3582	46,700 CUP	
760	39.0	3582	46,700 CUP	
IMR 4007 SSC	39.0	3786	62,300 PSI	
H380	41.0	3713	50,700 CUP	
Varget	36.5	3664	50,400 CUP	
IMR 4320	36.5	3689	62,200 PSI	
IMR 4064	36.3	3713	62,000 PSI	
BL-C(2)	34.0	3606	49,600 CUP	
IMR 4895	36.5	3725	62,400 PSI	
H335	33.0	3589	51,100 CUP	
H4895	35.5	3670	49,300 CUP	
IMR 3031	34.1	3691	62,500 PSI	
Benchmark	33.6	3674	50,200 CUP	
H322	30.0	3480	49,800 CUP	
Trail Boss	13.0	1984	26,600 PSI	
220 SWIFT CASE: WINCHESTER				
BBL: 24" PR: WINCHESTER LR				
40 GR. SIE HP COL: 2.680"				
H414	46.0	4213	51,600 CUP	
760	46.0	4213	51,600 CUP	
IMR 4007 SSC	45.0C	4122	49,400 CUP	
H380	44.0	4124	50,000 CUP	
Varget	40.5	4113	49,800 CUP	
IMR 4064	40.0	4110	51,400 CUP	
IMR 4895	40.5	4093	51,300 CUP	
H335	40.0	4158	53,100 CUP	
H4895	40.0	4126	52,000 CUP	
IMR 3031	38.5	4189	52,000 CUP	
50 GR. HDY SP COL: 2.680"				
H414	44.0	3826	49,600 CUP	
760	44.0	3826	49,600 CUP	
IMR 4007 SSC	43.0	3922	52,500 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	
55 GR. HDY SP 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	
H414	44.0	3833	53,700 CUP	
760	44.0	3833	53,700 CUP	
IMR 4007 SSC	42.0	3771	52,900 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	

*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
IMR 4895	38.0	3739	53,000 CUP	
H4895	37.0	3698	52,000 CUP	
IMR 3031	35.2	3687	52,700 CUP	

243 WINCHESTER
BBL: 24"

CASE: WINCHESTER
PR: WINCHESTER LR

70 GR. SPR HP		COL: 2.625"
H414	46.0	3568 49,800 CUP
760	46.0	3568 49,800 CUP
IMR 4007 SSC	46.5	3515 50,900 CUP
H380	46.0	3567 48,900 CUP
Varget	40.5	3574 50,100 CUP
IMR 4320	42.5	3541 50,300 CUP
IMR 4064	42.5	3541 50,000 CUP
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 3031	39.0	3485 51,100 CUP
Benchmark	39.3	3491 50,300 CUP

80 GR. SIE BTSP		COL: 2.635"
Hybrid 100V	45.0C	3330 48,400 CUP
H414	45.0	3404 50,100 CUP
760	45.0	3404 50,100 CUP
IMR 4007 SSC	45.0	3319 50,400 CUP
H380	41.2	3223 50,300 CUP
Varget	38.5	3355 50,300 CUP
IMR 4320	40.5	3339 50,600 CUP
IMR 4064	41.0	3320 50,800 CUP
BL-C(2)	38.5	3242 50,600 CUP
IMR 4895	40.2	3290 50,300 CUP
H4895	38.0	3307 50,100 CUP

100 GR. SPR BTSP		COL: 2.650"
H1000	47.0 C	3000 49,800 CUP
IMR 7828	46.0C*	3009 51,100 CUP
Supreme 780	47.5	3046 49,300 CUP
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
H414	40.0	2963 50,600 CUP
IMR 4350	42.0	2958 50,100 CUP
760	40.0	2963 50,600 CUP
IMR 4007 SSC	39.5	2905 50,400 CUP
H380	36.0	2770 50,100 CUP
Varget	33.7	2838 50,400 CUP
IMR 4064	36.5	2902 51,100 CUP
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

75 GR. HDY HP		COL: 2.795"
H4831	53.0	3307 37,500 CUP

BULLET	POWDER	GR	VEL	CUP
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Hybrid 100V	49.0C	3380	42,900 CUP	
H4350	50.0	3422	44,000 CUP	
H414	52.0	3555	45,300 CUP	
760	52.0	3555	45,300 CUP	
H380	48.0	3563	45,600 CUP	
Varget	41.0	3453	43,700 CUP	
BL-C(2)	46.0	3531	46,700 CUP	
H335	46.0	3548	45,000 CUP	
H4895	44.0	3561	47,300 CUP	
Benchmark	41.7	3434	45,000 CUP	

90 GR. SIE HPBT		COL: 2.775"
H4831	52.0	3236 39,500 CUP
Hybrid 100V	49.0C	3282 44,800 CUP
H4350	46.0	3040 43,700 CUP
H414	50.0	3368 44,400 CUP
760	50.0	3368 44,400 CUP
H380	47.0	3364 45,400 CUP
Varget	40.0	3269 44,900 CUP
BL-C(2)	43.5	3231 45,000 CUP
H335	43.0	3300 44,400 CUP
H4895	42.0	3372 47,600 CUP

100 GR. SIE SP		COL: 2.775"
IMR 4831	46.5	2950 44,300 CUP
IMR 4350	44.5	2930 44,600 CUP
IMR 4064	39.5	2945 44,800 CUP
IMR 4895	36.5	2850 45,000 CUP

100 GR. SPR SPBT		COL: 2.770"
H4831	49.0	3010 44,100 CUP
Hybrid 100V	48.0C	3205 45,400 CUP
H4350	45.0	2970 45,400 CUP
H414	45.0	3098 44,500 CUP
760	45.0	3098 44,500 CUP
H380	44.0	3108 46,600 CUP
Varget	38.0	2981 44,900 CUP
BL-C(2)	39.0	2958 45,400 CUP
H335	39.0	3042 47,800 CUP
H4895	38.0	2990 46,100 CUP

25-06 REMINGTON
BBL: 24"

CASE: REMINGTON
PR: REMINGTON 9 1/2

90 GR. SIE HPBT		COL: 3.100"
H1000	62.0C	3330 47,500 CUP
IMR 7828 SSC	59.5C*	3374 52,900 CUP
Supreme 780	57.0	3331 50,300 CUP
H4831	58.0	3481 50,400 CUP
Hybrid 100V	54.0	3404 51,500 CUP
IMR 4831	55.5	3374 51,100 CUP
H4350	53.0	3370 50,700 CUP
H414	51.0	3315 50,200 CUP
IMR 4350	53.5	3348 51,400 CUP
760	51.0	3315 50,200 CUP
IMR 4007 SSC	52.7	3430 51,700 CUP
Varget	45.0	3312 50,400 CUP
IMR 4064	45.8	3298 51,100 CUP
IMR 4895	45.9	3269 49,200 CUP

BULLET	POWDER	GR	VEL	CUP
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H4895	44.0	3257	51,000 CUP	
100 GR. NOS PART			COL: 3.200"	
H1000	59.7C	3212	50,700 CUP	
IMR 7828 SSC	57.2C	3203	51,300 CUP	
Supreme 780	55.5	3229	50,000 CUP	
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	
H414	47.0	3059	50,700 CUP	
IMR 4350	52.8	3257	51,200 CUP	
760	47.0	3059	50,700 CUP	
IMR 4007 SSC	50.8	3256	51,100 CUP	
Varget	44.0	3125	51,400 CUP	
IMR 4064	44.0	3122	50,800 CUP	
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"
Retumbo	60.0C	2991 50,300 CUP
H1000	55.5	2902 50,600 CUP
IMR 7828 SSC	54.0	2923 50,300 CUP
Supreme 780	53.0	2984 50,000 CUP
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

25 WINCHESTER SUPER SHORT MAGNUM
BBL: 24"

CASE: WINCHESTER
PR: WINCHESTER LR

87 GR. SIE SP		COL: 2.300"
IMR 4831	48.2C	3284 60,600 PSI
H414	48.0	3342 58,200 PSI
IMR 4350	47.0C	3276 58,500 PSI
760	48.0	3342 58,200 PSI
IMR 4007 SSC	47.0	3353 61,300 PSI
H380	47.5	3363 62,200 PSI
Varget	44.0	3431 62,600 PSI
IMR 4064	43.3	3412 60,700 PSI
IMR 4895	43.9	3452 61,700 PSI
H4895	43.3	3456 62,300 PSI

100 GR. SPR BT		COL: 2.300"
IMR 7828	49.5C*	3125 60,600 PSI
IMR 4831	48.0C	3183 62,900 PSI
H4350	48.5 C	3233 61,300 PSI
H414	47.5	3221 60,800 PSI
IMR 4350	47.0C	3198 61,400 PSI
760	47.5	3221 60,800 PSI
IMR 4007 SSC	45.5	3187 61,700 PSI
H380	46.5	3190 62,800 PSI
Varget	42.8	3248 62,700 PSI

BULLET	POWDER	GR	VEL	CUP
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IMR 4320	43.0	3227	61,600 PSI	
IMR 4064	42.0	3245	62,400 PSI	
BL-C(2)	44.5	3264	58,900 PSI	
IMR 4895	42.5	3259	62,400 PSI	
H4895	41.5	3243	61,700 PSI	

120 GR. SFT SP		COL: 2.330"
IMR 7828	47.8C*	2931 62,600 PSI
H4831	48.0 C	2902 61,100 PSI
IMR 4831	45.2C	2910 63,600 PSI
H4350	45.5 C	2981 62,400 PSI
H414	44.7	2985 63,100 PSI
IMR 4350	44.3C	2912 62,000 PSI
760	44.7	2985 63,100 PSI
IMR 4007 SSC	42.0	2863 61,300 PSI
H380	43.0	2900 61,200 PSI
Varget	39.0	2878 63,500 PSI
IMR 4320	39.2	2846 63,200 PSI
IMR 4064	38.5	2840 62,000 PSI
BL-C(2)	41.0	2908 62,200 PSI
IMR 4895	39.0	2862 62,600 PSI
H4895	37.7	2840 61,700 PSI

6.5 X 55mm SWEDISH MAUSER
BBL: 24"

CASE: WINCHESTER
PR: WINCHESTER LR

120 GR. NOS BT		COL: 3.000"
IMR 7828 SSC	49.5C	2802 45,600 CUP
H4831	49.5C	2802 45,900 CUP
Hybrid 100V	45.5	2787 45,000 CUP
IMR 4831	48.5C	2913 46,200 CUP
H4350	46.0	2792 45,800 CUP
H414	44.5	2783 46,000 CUP
IMR 4350	46.8C	2863 46,000 CUP
760	44.5	2783 46,000 CUP
IMR 4007 SSC	44.2	2788 45,100 CUP
H380	44.3	2784 46,000 CUP
Varget	39.0	2812 45,300 CUP
IMR 4064	40.0	2764 45,100 CUP
IMR 4895	39.6	2767 45,900 CUP
H4895	37.8	2715 46,000 CUP

140 GR. SPR SP		COL: 3.030"
H1000	51.5C	2651 46,000 CUP
IMR 7828 SSC	48.2	2678 45,800 CUP
Supreme 780	47.8	2592 45,300 CUP
HH4831	47.0	2586 45,700 CUP
Hybrid 100V	44.5	2642 45,200 CUP
IMR 4831	46.3	2700 45,400 CUP
H4350	44.0	2617 45,700 CUP
H414	41.5	2565 45,600 CUP
IMR 4350	45.0	2677 46,000 CUP
760	41.5	2565 45,600 CUP
IMR 4007 SSC	42.8	2591 45,300 CUP
H380	40.5	2520 45,100 CUP
Varget	36.0	2528 46,000 CUP
IMR 4064	38.0	2563 45,800 CUP

*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
IMR 4895	37.8	2550	45,500	CUP
H4895	35.8	2493	45,700	CUP

264 WINCHESTER MAGNUM

BBL: 26" CASE: WINCHESTER PR: WINCHESTER LR

120 GR. SPR SP	COL: 3.250"
Retumbo 70.5	3299 61,700 PSI
H1000 69.7	3267 62,100 PSI
Supreme 780 65.0	3235 61,700 PSI
H4831 64.5	3254 62,000 PSI
Hybrid 100V 60.0	3232 60,600 PSI
IMR 4831 60.7	3212 61,600 PSI
H4350 58.0	3185 61,200 PSI
IMR 4350 60.0	3226 61,900 PSI

140 GR. NOS PART	COL: 3.260"
Retumbo 63.5	3026 63,000 PSI
H1000 58.5	2900 61,800 PSI
Supreme 780 59.0	2927 60,900 PSI
H4831 55.0	2853 59,400 PSI
Hybrid 100V 54.5	2912 61,800 PSI
IMR 4831 55.2	2907 61,700 PSI
H4350 52.0	2829 60,800 PSI
IMR 4350 54.5	2903 61,400 PSI

270 WINCHESTER

BBL: 24" CASE: WINCHESTER PR: WINCHESTER LR

130 GR. HDY SP	COL: 3.180"
H1000 64.0 C	3025 48,100 CUP
IMR 7828 60.2	3085 50,300 CUP
Supreme 780 60.0	3043 61,900 PSI
H4831 60.0 C	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
H414 53.5	3003 50,800 CUP
IMR 4350 55.0	3028 49,900 CUP
760 53.5	3003 50,800 CUP
IMR 4007 SSC 51.5	2949 63,700 PSI
H380 49.8	2884 51,000 CUP
Varget 46.0	2931 49,600 CUP
IMR 4320 47.0	2916 50,200 CUP
IMR 4064 47.5	2932 50,000 CUP
IMR 4895 46.9	2957 50,600 CUP
H4895 45.0	2922 51,000 CUP
Trail Boss 19.7	1537 27,100 PSI

140 GR. SFT SP	COL: 3.280"
H1000 63.0 C	2979 50,800 CUP
IMR 7828 57.2	2939 50,600 CUP
Supreme 780 58.0	2925 60,100 PSI
H4831 58.0 C	2888 50,100 CUP
Hybrid 100V 54.2C	2964 62,300 PSI
IMR 4831 54.0	2896 50,700 CUP
H4350 52.0	2870 50,400 CUP
H414 48.9	2788 49,800 CUP
IMR 4350 53.2	2916 51,000 CUP

BULLET	POWDER	GR	VEL	CUP
760	48.9	2788	49,800	CUP
Varget	43.7	2772	50,500	CUP
IMR 4320	44.5	2775	50,000	CUP
IMR 4064	46.1	2828	50,800	CUP
IMR 4895	45.6	2828	50,100	CUP
H4895	42.6	2768	50,600	CUP

150 GR. HDY SP

BBL: 24" CASE: WINCHESTER PR: WINCHESTER LR

150 GR. HDY SP	COL: 3.285"
H1000 59.0 C	2831 51,000 CUP
IMR 7828 56.8	2850 50,400 CUP
Supreme 780 56.8	2774 61,200 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
H414 48.0	2706 51,200 CUP
IMR 4350 51.6	2809 50,900 CUP
760 48.0	2706 51,200 CUP
IMR 4064 45.0	2719 50,700 CUP
IMR 4895 44.5	2704 50,600 CUP

270 WINCHESTER SHORT MAGNUM

BBL: 24" CASE: WINCHESTER PR: WINCHESTER LRM

130 GR. HDY SP	COL: 2.730"
H1000 73.0C	3168 58,700 PSI
IMR 7828 67.0	3201 63,000 PSI
Supreme 780 69.0	3273 62,800 PSI
H4831 67.0	3228 63,400 PSI
Hybrid 100V 63.0C	3259 64,600 PSI
IMR 4831 63.5	3208 63,300 PSI
H4350 60.5	3226 63,500 PSI
H414 61.0	3235 62,700 PSI
IMR 4350 62.5	3230 63,000 PSI
760 61.0	3235 62,700 PSI
IMR 4007 SSC 59.5	3159 63,400 PSI
H380 59.5	3174 63,200 PSI
Varget 54.0	3169 63,200 PSI
IMR 4064 54.3	3140 63,800 PSI
IMR 4895 54.0	3120 62,500 PSI
Trail Boss 22.5	1832 47,900 PSI

140 GR. SFT SP

140 GR. SFT SP	COL: 2.800"
Retumbo 71.0C	3165 61,300 PSI
H1000 70.0C	3137 63,500 PSI
IMR 7828 64.5	3081 61,900 PSI
Supreme 780 67.4	3163 63,000 PSI
H4831 62.5	3085 63,000 PSI
Hybrid 100V 60.0	3071 61,600 PSI
IMR 4831 61.5	3059 62,600 PSI
H4350 58.0	3087 63,100 PSI
H414 58.0	3068 62,600 PSI
IMR 4350 60.5	3081 62,200 PSI
760 58.0	3068 62,600 PSI
IMR 4007 SSC 57.5	3043 63,000 PSI
H380 56.5	3005 62,700 PSI

BULLET	POWDER	GR	VEL	CUP
150 GR. HDY SP				
Retumbo	70.0C	3071	63,000	PSI
H1000	67.5C	3001	62,800	PSI
IMR 7828	63.1	2952	63,200	PSI
Supreme 780	66.6	3066	58,400	PSI
H4831	60.0	2962	63,100	PSI
Hybrid 100V	59.0	2954	61,800	PSI
IMR 4831	59.3	2916	63,000	PSI
H4350	56.5	2978	63,000	PSI
H414	57.5	2991	63,200	PSI
IMR 4350	58.5	2934	62,200	PSI
760	57.5	2991	63,200	PSI
IMR 4007 SSC 56.0		2892	63,900	PSI
H380	54.5	2885	63,100	PSI

7mm-08 REMINGTON

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

120 GR. NOS BT	COL: 2.800"
H4350 50.0 C	3039 44,600 CUP
H414 49.0	3023 47,600 CUP
760 49.0	3023 47,600 CUP
IMR 4007 SSC 49.0C	3118 49,000 CUP
H380 48.0	2977 43,400 CUP
Varget 45.0	3117 49,900 CUP
IMR 4320 44.7	3001 50,400 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 3031 41.0	2987 50,500 CUP
Benchmark 41.3	2968 49,000 CUP

140 GR. SFT SP

140 GR. SFT SP	COL: 2.750"
H4350 48.0 C	2868 49,800 CUP
H414 46.0	2791 49,500 CUP
IMR 4350 46.5C	2826 50,000 CUP
760 46.0	2791 49,500 CUP
IMR 4007 SSC 46.0	2847 49,600 CUP
H380 45.7	2775 49,400 CUP
Varget 42.2	2819 49,800 CUP
IMR 4320 41.4	2749 49,800 CUP
IMR 4064 40.5	2770 50,300 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 3031 38.3	2695 49,600 CUP
Benchmark 38.3	2688 49,300 CUP
Trail Boss 16.0	1472 43,300 CUP

150 GR. SIE HPBT

150 GR. SIE HPBT	COL: 2.800"
H4350 48.5 C	2823 50,300 CUP
IMR 4350 46.5C	2746 46,600 CUP
760 46.5	2776 50,000 CUP
IMR 4007 SSC 45.5	2804 50,400 CUP
H380 45.5	2748 49,900 CUP

BULLET	POWDER	GR	VEL	CUP
IMR 4320	41.5	2711	49,400	CUP
IMR 4064	40.3	2723	48,800	CUP
Varget	41.3	2731	50,000	CUP
BL-C(2)	41.5	2699	49,600	CUP
H335	37.5	2605	49,900	CUP
H4895	40.5	2723	50,000	CUP
IMR 3031	38.5	2684	49,900	CUP
Benchmark	38.5	2667	50,200	CUP

7 X 57mm MAUSER

BBL: 24" CASE: WINCHESTER PR: WINCHESTER LR

120 GR. NOS BT	COL: 3.000"
H4831 52.5C	2777 40,800 CUP
Hybrid 100V 48.0C	2806 41,700 CUP
H4350 51.0C	2945 45,800 CUP
H414 51.0	2938 45,600 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

140 GR. NOS BT	COL: 3.000"
H4831 49.5C	2719 46,000 CUP
Hybrid 100V 46.5C	2654 43,300 CUP
H4350 46.5	2682 46,000 CUP
H414 47.0	2715 46,000 CUP
760 47.0	2715 46,000 CUP
IMR 4007 SSC 44.5	2645 46,200 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

168 GR. SIE HPBT

168 GR. SIE HPBT	COL: 3.000"
H1000 52.0C	2485 46,000 CUP
H4831 46.0	2393 43,900 CUP
Hybrid 100V 45.5C	2534 45,000 CUP
H4350 42.5	2378 44,100 CUP
H414 42.5	2378 45,000 CUP
760 42.5	2378 45,000 CUP
IMR 4007 SSC 41.0	2472 44,900 CUP
H380 39.5	2272 44,500 CUP
Varget 37.5	2404 45,500 CUP
H4895 34.5	2211 42,600 CUP

280 REMINGTON

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

120 GR. BAR TSX	COL: 3.230"
H4831 63.0C	3124 53,100 PSI
IMR 4831 61.0C	3259 57,400 PSI
H4350 59.0C	3254 57,400 PSI
H414 56.2	3191 56,900 PSI
IMR 4350 59.0C	3210 56,800 PSI
IMR 4007 SSC 56.3	3230 57,400 PSI
H380 55.0	3210 58,000 PSI
Varget 50.7	3177 57,200 PSI

*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
IMR 4064	50.6	3160	57,000 PSI	
748	50.0	3061	56,400 PSI	
BL-C(2)	50.6	3125	55,800 PSI	
H4895	49.9	3171	57,200 PSI	
140 GR. NOS PART				COL: 3.240"
H4831	58.5	2927	48,500 CUP	
Hybrid 100V	54.0C	2847	47,000 CUP	
H4350	53.5	2918	48,500 CUP	
H414	51.0	2867	47,900 CUP	
760	51.0	2867	47,900 CUP	
Varget	45.5	2838	48,100 CUP	
H4895	45.2	2830	48,400 CUP	
160 GR. SFT SP				COL: 3.065"
H1000	61.0C	2714	47,500 CUP	
Supreme 780	56.7	2718	49,500 CUP	
H4831	55.0	2660	49,500 CUP	
Hybrid 100V	52.0C	2712	48,600 CUP	
H4350	49.5	2610	48,900 CUP	
760	47.5	2558	49,700 CUP	
H4895	41.5	2535	49,500 CUP	

7MM WINCHESTER SHORT MAG.
BBL: 24" **CASE: WINCHESTER**
PR: WINCHESTER LRM

BULLET	POWDER	GR	VEL	CUP
140 GR. NOS PART				COL: 2.850"
Retumbo	72.0 C	3046	54,300 PSI	
H1000	72.0 C	3091	59,000 PSI	
IMR 7828	68.2	3155	63,000 PSI	
Supreme 780	71.7	3160	59,900 PSI	
H4831	66.0	3116	62,000 PSI	
Hybrid 100V	63.5	3116	60,200 PSI	
IMR 4831	64.6	3149	62,600 PSI	
H4350	61.5	3133	61,900 PSI	
H414	60.8	3130	62,600 PSI	
IMR 4350	63.2	3161	63,200 PSI	
760	60.8	3130	62,600 PSI	
IMR 4007 SSC	62.0	3129	63,400 PSI	
H380	59.0	3062	63,300 PSI	
Varget	54.5	3063	62,600 PSI	
IMR 4320	54.3	3030	61,200 PSI	
IMR 4064	54.5	3058	62,900 PSI	
IMR 4895	55.0	3073	63,700 PSI	
H4895	52.3	3024	63,000 PSI	

BULLET	POWDER	GR	VEL	CUP
160 GR. SFT SP				COL: 2.850"
Retumbo	70.0 C	2958	59,800 PSI	
H1000	69.5 C	2956	62,800 PSI	
IMR 7828	65.0	2943	63,000 PSI	
Supreme 780	69.0	2968	60,900 PSI	
H4831	63.5	2921	62,600 PSI	
Hybrid 100V	62.5C	2956	61,600 PSI	
IMR 4831	61.4	2907	62,100 PSI	
H4350	59.5	2918	62,200 PSI	
H414	58.7	2904	63,100 PSI	
IMR 4350	61.7	2946	63,400 PSI	
760	58.7	2904	63,100 PSI	

BULLET	POWDER	GR	VEL	CUP
IMR 4007 SSC	59.0	2884	61,900 PSI	
H380	57.0	2832	62,900 PSI	
Varget	51.3	2823	61,100 PSI	
IMR 4320	52.5	2803	62,000 PSI	
H4895	49.0	2762	62,600 PSI	
175 GR. SPR MAG TIP				COL: 2.760"
Retumbo	64.0 C	2800	61,200 PSI	
H1000	62.0 C	2764	63,100 PSI	
IMR 7828	63.0	2788	63,600 PSI	
Supreme 780	68.0	2850	60,500 PSI	
H4831	57.5	2733	63,900 PSI	
Hybrid 100V	58.5	2738	63,200 PSI	
IMR 4831	59.0	2729	61,900 PSI	
H4350	52.5	2672	62,200 PSI	
H414	52.0	2636	61,300 PSI	
IMR 4350	58.0	2729	62,000 PSI	
760	52.0	2636	61,300 PSI	

7MM REM. MAGNUM **CASE: WINCHESTER**
BBL: 24" **PR: WINCHESTER LR**

BULLET	POWDER	GR	VEL	CUP
140 GR. NOS PART				COL: 3.250"
Retumbo	75.0 C	3107	49,400 CUP	
H1000	70.0	3036	50,600 CUP	
IMR 7828	69.0	3095	59,200 PSI	
Supreme 780	69.3	3134	58,000 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	
H414	60.2	2967	49,300 CUP	
IMR 4350	62.8	3045	58,600 PSI	
760	60.2	2967	49,300 CUP	
IMR 4007 SSC	60.0	3025	58,600 PSI	
Trail Boss	24.5	1724	31,000 PSI	

BULLET	POWDER	GR	VEL	CUP
162 GR. HDY SPBT				COL: 3.290"
US869	80.0	2921	54,400 PSI	
Retumbo	73.5 C	2963	50,500 CUP	
H1000	70.0	2905	49,600 CUP	
IMR 7828	65.0	2882	59,000 PSI	
Supreme 780	65.5	2953	59,700 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	

BULLET	POWDER	GR	VEL	CUP
175 GR. NOS PART				COL: 3.290"
US869	77.0	2758	56,200 PSI	
Retumbo	68.0 C	2800	51,200 CUP	
H1000	64.5	2692	50,400 CUP	
IMR 7828	61.0	2707	58,300 PSI	
Supreme 780	63.0	2789	58,800 PSI	
H4831	58.0	2660	50,200 CUP	
Hybrid 100V	57.5	2740	58,200 PSI	
IMR 4831	58.0	2710	58,700 PSI	

BULLET	POWDER	GR	VEL	CUP
H4350	54.0	2617	51,400 CUP	
IMR 4350	57.0	2698	58,800 PSI	

7MM REM. ULTRA MAG. **CASE: REMINGTON**
BBL: 24" **PR: REMINGTON 9 1/2 M**

BULLET	POWDER	GR	VEL	CUP
140 GR. BAR XBT				COL: 3.560"
US 869	104.7	3275	62,400 PSI	
H50BMG	107.0C	3271	62,400 PSI	
Retumbo	96.5C	3353	62,900 PSI	
H1000	95.0	3277	62,700 PSI	
IMR 7828	86.8	3290	62,000 PSI	
H4831	87.0	3279	63,100 PSI	
IMR 4831	79.3	3220	62,000 PSI	

BULLET	POWDER	GR	VEL	CUP
160 GR. NOS PART				COL: 3.600"
US 869	103.0	3192	62,900 PSI	
H50BMG	100.0	3144	63,400 PSI	
Retumbo	94.0	3212	62,800 PSI	
H1000	91.0	3167	63,500 PSI	
IMR 7828	84.5	3140	62,000 PSI	
IMR 4831	76.5	3050	61,000 PSI	

BULLET	POWDER	GR	VEL	CUP
175 GR. SFT SP				COL: 3.600"
US 869	102.0	3077	63,000 PSI	
H50BMG	96.0	3019	63,100 PSI	
Retumbo	91.5	3069	63,400 PSI	
H1000	87.0	3021	63,500 PSI	

30-30 WINCHESTER **CASE: WINCHESTER**
BBL: 24" **PR: WINCHESTER LR**

BULLET	POWDER	GR	VEL	CUP
150 GR. SIE FN				COL: 2.550"
760	35.9	2090	30,000 CUP	
Varget	34.5	2349	36,200 CUP	
IMR 4320	32.5	2127	36,500 CUP	
IMR 4064	33.3	2236	36,200 CUP	
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 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	

BULLET	POWDER	GR	VEL	CUP
160 GR. CAST LFN				COL: 2.485"
Trail Boss	9.0	1195	29,100 CUP	

BULLET	POWDER	GR	VEL	CUP
170 GR. SIE FP				COL: 2.550"
760	33.6	1975	30,000 CUP	
Varget	33.0	2168	36,500 CUP	
IMR 4320	32.5	2068	36,300 CUP	
IMR 4064	31.7	2090	35,300 CUP	
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 3031	29.2	2085	35,800 CUP	

BULLET	POWDER	GR	VEL	CUP
Benchmark	27.0	2001	36,100 CUP	
IMR 4198	22.3	1896	32,100 CUP	
H4198	22.5	1918	32,600 CUP	

308 MARLIN EXPRESS **CASE: HORNADY**
BBL: 24" **PR: WINCHESTER LR**

BULLET	POWDER	GR	VEL	CUP
130 GR. SPR FP				COL: 2.420"
Varget	42.5	2730	46,400 PSI	
IMR 4064	41.5C	2686	45,400 PSI	
748	43.0	2677	40,500 PSI	
BL-C(2)	46.0	2799	45,600 PSI	
IMR 4895	41.7	2700	46,500 PSI	
H335	41.5	2772	45,700 PSI	
H4895	41.7	2762	46,000 PSI	
IMR 3031	38.5	2700	45,800 PSI	
Benchmark	36.5	2635	46,300 PSI	
H322	35.3	2617	45,800 Psi	

BULLET	POWDER	GR	VEL	CUP
150 GR. HDY RN				COL: 2.430"
Varget	41.5C	2572	46,100 PSI	
IMR 4320	41.0 C	2533	46,400 PSI	
748	42.0	2560	42,100 PSI	
BL-C(2)	43.0	2544	41,200 PSI	
IMR 4895	41.0 C	2575	46,500 PSI	
H335	40.0C	2611	46,800 PSI	
H4895	40.5	2607	45,900 PSI	
IMR 3031	37.3 C	2545	46,200 PSI	

BULLET	POWDER	GR	VEL	CUP
170 GR. HDY FP				COL: 2.400"
Varget	39.3 C	2394	46,300 PSI	
IMR 4320	39.4	2383	45,800 PSI	
IMR 4064	39.3 C	2416	46,100 PSI	
748	40.0	2432	45,400 PSI	
BL-C(2)	40.6	2420	44,800 PSI	
H335	37.5	2409	46,300 PSI	
H4895	38.6C	2439	46,300 PSI	
IMR 4895				

*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
Varget	46.0C	2731	50,600	CUP
IMR 4320	46.0	2733	59,300	PSI
IMR 4064	45.9C	2766	58,800	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 3031	42.0	2710	58,900	PSI
Benchmark	42.0	2630	49,300	CUP
Titegroup	8.0	1080	25,000	CUP
Clays	8.0	1060	26,800	CUP
175 GR. SIE HPBT				
H414	49.0	2629	50,100	CUP
760	49.0	2629	50,100	CUP
IMR 4007 SSC	48.0C	2666	56,500	PSI
Varget	45.0C	2690	48,600	CUP
IMR 4320	45.7C	2687	57,600	PSI
IMR 4064	45.6C	2728	59,500	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 3031	41.3	2653	59,100	PSI
Benchmark	41.5	2590	50,800	CUP
30 TC				
BBL: 24"				
150 GR. HDY IB				
Varget	45.8C	2830	56,100	PSI
IMR 4320	46.5C	2861	58,800	PSI
748	46.0	2813	51,600	PSI
BL-C(2)	48.0	2856	55,300	PSI
IMR 4895	45.8C	2863	57,500	PSI
H335	44.8	2907	59,200	PSI
H4895	45.5C	2901	58,900	PSI
IMR 3031	42.5C	2856	60,200	PSI
Benchmark	42.5C	2831	59,400	PSI
H322	42.5C	2857	60,700	PSI
165 GR. BAR TSX				
Varget	45.0C	2748	60,500	PSI
IMR 4320	44.8C	2764	60,200	PSI
748	46.0	2748	53,900	PSI
BL-C(2)	47.5	2796	58,600	PSI
IMR 4895	45.0C	2764	59,800	PSI
H335	43.5	2761	58,700	PSI
H4895	43.4C	2755	59,700	PSI
IMR 3031	41.0C	2708	59,800	PSI
Benchmark	42.0C	2719	58,800	PSI
H322	40.5C	2691	59,600	PSI
180 GR. HDY SP				
Varget	43.8C	2579	59,100	PSI
IMR 4320	43.9C	2601	59,800	PSI
748	44.5	2626	57,900	PSI
BL-C(2)	46.0	2652	59,200	PSI
IMR 4895	43.5C	2599	58,800	PSI

BULLET	POWDER	GR	VEL	CUP
H335	42.0	2580	59,400	PSI
H4895	42.5C	2596	59,400	PSI
IMR 3031	39.9C	2544	59,000	PSI
Benchmark	41.0	2565	59,300	PSI
30-06				
BBL: 24"				
150 GR. NOS BT				
H4350	62.0C	3068	48,400	CUP
H414	60.0	2992	48,600	CUP
IMR 4350	58.0C	2942	57,200	PSI
760	60.0	2992	48,600	CUP
IMR 4007 SSC	55.3	2972	58,000	PSI
H380	59.0	3005	45,900	CUP
Varget	51.0	2975	50,000	CUP
IMR 4320	52.3	3016	58,000	PSI
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 3031	46.7	2887	59,300	PSI
Benchmark	49.5	2944	49,300	CUP
Trail Boss	19.0	1477	26,400	PSI
165 GR. SIE SPBT				
Hybrid 100V	57.0C	2801	52,800	PSI
H4350	59.0	2938	49,400	CUP
H414	56.5	2877	49,700	CUP
IMR 4350	60.0C	2934	57,600	PSI
760	56.5	2877	49,700	CUP
IMR 4007 SSC	55.9	2867	58,300	PSI
H380	56.5	2892	50,000	CUP
Varget	50.5	2873	49,700	CUP
IMR 4320	51.2	2869	58,600	PSI
IMR 4064	52.5	2901	58,900	PSI
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 3031	48.0	2825	57,500	PSI
Benchmark	47.7	2795	49,300	CUP
180 GR. SIE SPBT				
Supreme 780	61.0	2673	54,100	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
H414	55.5	2743	48,700	CUP
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 4320	47.8	2661	58,000	PSI

BULLET	POWDER	GR	VEL	CUP
IMR 4064	48.7	2700	58,200	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
300 RUGER COMPACT MAGNUM				
BBL: 24"				
150 GR. HDY IB				
Hybrid 100V	63.0C	3131	58,800	PSI
H4350	63.5C	3118	61,800	PSI
H414	62.5	3121	61,800	PSI
IMR 4350	63.0C	3081	60,800	PSI
760	62.5	3121	61,800	PSI
IMR 4007 SSC	61.6	3121	63,200	PSI
H380	62.0	3123	62,400	PSI
Varget	56.4	3086	62,700	PSI
IMR 4064	56.2	3114	62,900	PSI
748	57.7	3095	61,300	PSI
IMR 4895	56.0	3081	60,600	PSI
H4895	55.0	3091	62,500	PSI
165 GR. BAR TSX				
Hybrid 100V	61.0C	2962	57,900	PSI
H4350	62.5C	2979	62,700	PSI
H414	59.5	2958	62,200	PSI
IMR 4350	63.0C	2967	62,300	PSI
760	59.5	2958	62,200	PSI
IMR 4007 SSC	60.5C	2976	63,300	PSI
H380	59.0	2951	62,900	PSI
Varget	54.2	2908	62,600	PSI
IMR 4064	54.0	2920	61,400	PSI
748	54.3	2921	62,500	PSI
IMR 4895	54.0	2902	60,700	PSI
H4895	53.0	2917	62,700	PSI
180 GR. HDY SP				
Hybrid 100V	61.0C	2922	62,800	PSI
IMR 4831	62.5C	2840	59,700	PSI
H4350	60.0C	2826	62,600	PSI
H414	58.2	2813	61,100	PSI
IMR 4350	60.8C	2850	62,500	PSI
IMR 4350	60.8C	2850	62,500	PSI
760	58.2	2813	61,100	PSI
IMR 4007 SSC	59.3	2835	62,000	PSI
H380	58.5	2812	62,900	PSI
Varget	52.6	2755	62,700	PSI
IMR 4064	53.2	2777	61,300	PSI
748	54.5	2766	60,600	PSI
IMR 4895	52.5	2766	61,400	PSI
H4895	50.2	2711	60,400	PSI
300 WIN. SHORT MAGNUM				
BBL: 24"				
150 GR. SPR GSSP				
Supreme 780	74.0	3134	59,200	PSI

BULLET	POWDER	GR	VEL	CUP
Hybrid 100V	67.0 C	3127	57,700	PSI
H4350	67.0	3187	63,200	PSI
H414	66.0	3204	63,300	PSI
IMR 4350	68.0	3221	62,100	PSI
760	66.0	3204	63,300	PSI
IMR 4007 SSC	63.7	3220	63,100	PSI
H380	64.0	3141	63,600	PSI
Varget	58.5	3140	63,800	PSI
H4895	54.5	3078	63,100	PSI
IMR 4320	61.0	3172	63,900	PSI
IMR 4064	61.0	3198	63,300	PSI
IMR 4895	60.5	3176	62,300	PSI
H4895	54.5	3078	63,100	PSI
Trail Boss	23.3	1758	31,600	PSI
180 GR. SFT SCIR				
IMR 7828	69.5 C*	2943	62,600	PSI
Supreme 780	70.0	2923	60,800	PSI
Hybrid 100V	64.0 C	2918	59,800	PSI
IMR 4831	66.3 C	2980	62,900	PSI
H4831	70.0 C	2929	64,000	PSI
H4350	64.0	2950	63,900	PSI
H414	62.5	2959	63,000	PSI
IMR 4350	65.0 C	2991	63,700	PSI
760	62.5	2959	63,000	PSI
IMR 4007 SSC	59.8	2927	63,000	PSI
H380	61.0	2884	63,400	PSI
200 GR. SFT SP				
H1000	72.0 C	2737	57,200	PSI
IMR 7828	67.5C*	2793	63,100	PSI
Supreme 780	69.5	2815	61,800	PSI
H4831	66.5C	2802	63,700	PSI
IMR 4831	63.7C	2780	62,200	PSI
H4350	62.0	2792	63,200	PSI
H414	61.0	2803	63,200	PSI
IMR 4350	63.5C	2827	63,700	PSI
760	61.0	2803	63,200	PSI
IMR 4007 SSC	59.8	2788	64,000	PSI
300 WINCHESTER MAGNUM				
BBL: 24"				
150 GR. SIE SP				
H1000	85.0 C	3255	52,200	CUP
IMR 7828	80.0C	3148	55,600	PSI
Supreme 780	81.0	3264	62,500	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	62,500	CUP
H414	68.0	3145	52,500	CUP
IMR 4350	74.0	3254	61,500	PSI
760	68.0	3145	52,500	CUP
IMR 4007 SSC	71.0	3185	61,400	PSI
H380	65.0	3031	52,200	CUP
Varget	60.0	3108	51,400	CUP

*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
IMR 4064	65.5	3205	62,200 PSI	
IMR 4895	65.5	3196	62,300 PSI	
H4895	61.0	3124	52,500 CUP	
Trail Boss	25.5	1687	28,600 PSI	
180 GR. SPR MT-SP				
US869	88.0	2892	COL: 3.285"	
H1000	81.0 C	3042	56,800 PSI	
IMR 7828	78.5C	3034	52,900 CUP	
Supreme 780	72.5	2920	62,000 PSI	
H4831	73.0 C	2966	59,100 PSI	
Hybrid 100V	67.7	2998	53,200 CUP	
IMR 4831	74.0C	3025	62,400 PSI	
H4350	67.0	2918	63,200 PSI	
H414	62.0	2845	53,100 CUP	
IMR 4350	71.0	2974	52,300 CUP	
760	62.0	2845	61,200 PSI	
200 GR. NOS PART				
US869	85.0	2712	COL: 3.340"	
RETUMBO	84.0 C	2962	51,800 PSI	
H1000	79.0 C	2883	52,300 CUP	
IMR 7828	76.0C	2851	52,800 CUP	
Supreme 780	73.5	2870	58,400 PSI	
H4831	72.0 C	2825	57,000 PSI	
Hybrid 100V	66.0	2820	53,100 CUP	
IMR 4831	72.5C	2859	59,400 PSI	
H4350	66.0	2753	60,900 PSI	
IMR 4350	69.5	2860	51,700 CUP	
IMR 4350	69.5	2860	62,600 PSI	
300 WEATHERBY MAGNUM				
BBL: 24"		CASE: REMINGTON PR: FEDERAL 215 M		
150 GR. BAR TSX				
H1000	88.0C	3220	COL: 3.570"	
IMR 7828 SSC	86.5C*	3400	49,900 CUP	
Supreme 780	85.5	3328	54,200 CUP	
H4831	84.0C	3275	50,000 CUP	
Hybrid 100V	76.5	3310	52,900 CUP	
H4831	82.7C	3437	49,100 CUP	
H4350	76.5	3310	54,100 CUP	
H414	72.5	3201	53,800 CUP	
IMR 4350	79.5	3396	53,000 CUP	
IMR 4007 SSC	73.0	3197	54,300 CUP	
H380	69.5	3142	52,800 CUP	
Varget	64.5	3155	53,800 CUP	
IMR 4064	67.0	3244	54,000 CUP	
IMR 4895	66.0	3214	51,900 CUP	
H4895	61.5	3112	53,100 CUP	
Trail Boss	27.5	1656	54,100 CUP	
180 GR. SPR BTSP				
H1000	88.5C	3151	COL: 3.560"	
IMR 7828	80.5	3064	53,500 CUP	
Supreme 780	82.5	3127	53,400 CUP	
H4831	81.5	3096	53,100 CUP	
Hybrid 100V	77.0	3171	54,000 CUP	
IMR 4831	75.5	2997	54,000 CUP	
H4350	73.5	3022	53,500 CUP	
H4350	73.5	3022	54,000 CUP	

BULLET	POWDER	GR	VEL	CUP
H414	71.5	2984	53,000 CUP	
IMR 4350	72.6	3018	53,000 CUP	
760	71.5	2984	53,000 CUP	
IMR 4007 SSC	71.0	2986	53,300 CUP	
H380	67.0	2896	54,000 CUP	
200 GR. SFT				
Retumbo	85.5C	2981	COL: 3.510"	
H1000	85.0C	2963	54,400 CUP	
IMR 7828	78.3	2872	53,400 CUP	
Supreme 780	74.0	2808	53,800 CUP	
H4831	77.5	2869	50,700 CUP	
Hybrid 100V	73.0	2906	52,900 CUP	
IMR 4831	73.0	2806	53,200 CUP	
H4350	71.0	2866	53,400 CUP	
IMR 4350	70.5	2807	54,300 CUP	
IMR 4350	70.5	2807	52,800 CUP	
300 REM. ULTRA MAG.				
BBL: 24"		CASE: REMINGTON PR: REMINGTON 9 1/2M		
150 GR. SIE SPBT				
Retumbo	106.0 C	3531	COL: 3.530"	
H1000	102.0	3457	60,800 PSI	
IMR 7828	92.0	3319	62,900 PSI	
H4831	94.0	3408	63,000 PSI	
IMR 4831	90.5	3380	62,900 PSI	
IMR 4350	86.7	3362	63,700 PSI	
IMR 4350	86.7	3362	63,500 PSI	
180 GR. SPR SPBT				
US869	107.0	3070	COL: 3.530"	
H50BMG	108.0 C	3159	57,300 PSI	
Retumbo	100.5 C	3300	62,100 PSI	
H1000	96.0	3218	62,400 CUP	
IMR 7828	86.5	3069	62,800 PSI	
H4831	89.0	3167	63,200 PSI	
IMR 4831	83.0	3075	62,500 PSI	
IMR 4350	81.0	3071	63,200 PSI	
200 GR. NOS AB				
H50BMG	102.0C	2950	COL: 3.600"	
Retumbo	95.5C	3048	58,900 PSI	
H1000	92.5	2975	62,400 PSI	
IMR 7828	82.0	2857	62,800 PSI	
H4831	85.0	2953	61,800 PSI	
H4831	85.0	2953	63,600 PSI	
30-378 WEATHERBY				
BBL: 26"		CASE: WEATHERBY PR: FEDERAL 215 M		
180 GR. SPR SPBT				
US869	120.0	3302	COL: 3.600"	
H50BMG	120.0 C	3229	47,100 CUP	
Retumbo	113.0 C	3460	47,100 CUP	
H1000	111.0	3412	54,700 CUP	
IMR 7828	98.0	3284	54,300 CUP	
IMR 4831	96.0	3292	52,400 CUP	
H4831	100.0	3301	53,800 CUP	
H4831	100.0	3301	54,500 CUP	
200 GR. BAR XFB				
US869	118.0	3206	COL: 3.645"	
H50BMG	117.0 C	3227	52,500 CUP	
IMR 7828	94.5	3053	54,800 CUP	
IMR 7828	94.5	3053	55,000 CUP	

BULLET	POWDER	GR	VEL	CUP
220 GR. NOS PART				
US869	117.0	3134	COL: 3.600"	
H50BMG	118.5 C	3145	51,400 CUP	
Retumbo	107.5	3155	53,700 CUP	
H1000	104.0	3084	55,000 CUP	
IMR 7828	91.0	2930	53,700 CUP	
IMR 7828	91.0	2930	52,600 CUP	
7.62 X 39mm RUSSIAN				
BBL: 24"		CASE: MIDWAY PR: CCI 200		
125 GR. SPR SP				
BL-C(2)	31.5	2349	COL: 2.150"	
H335	31.5	2408	38,800 CUP	
H4895	29.0	2249	40,900 CUP	
H322	29.0	2323	33,600 CUP	
IMR 4198	24.0	2250	35,400 CUP	
H4198	26.5	2378	42,500 CUP	
IMR 4227	18.5	1995	40,400 CUP	
150 GR. HDY SP				
BL-C(2)	29.5	2090	COL: 2.220"	
H335	29.0	2132	40,400 CUP	
H4895	28.0	2154	42,500 CUP	
H322	28.5	2192	39,300 CUP	
IMR 4198	22.5	2070	40,400 CUP	
H4198	24.5	2122	43,600 CUP	
H4198	24.5	2122	39,800 CUP	
303 BRITISH				
BBL: 24"		CASE: REMINGTON PR: FEDERAL 210		
150 GR. HDY SP				
Varget	43.0	2656	COL: 2.995"	
IMR 4064	44.7	2699	42,700 CUP	
BL-C(2)	48.0	2756	46,400 PSI	
IMR 4895	44.2	2689	39,200 CUP	
H335	42.0	2706	46,600 PSI	
H4895	40.0	2627	43,100 CUP	
IMR 3031	41.0	2632	43,600 CUP	
IMR 3031	41.0	2632	46,100 PSI	
180 GR. SIE SP				
Hybrid 100V	46.0C	2384	COL: 3.075"	
H4350	48.0C	2500	41,700 CUP	
H414	46.0	2435	43,800 CUP	
760	46.0	2435	42,500 CUP	
IMR 4007 SSC	46.0C	2430	42,500 CUP	
Varget	41.0	2440	40,900 CUP	
IMR 4064	41.1	2400	43,400 CUP	
BL-C(2)	45.0	2563	45,700 PSI	
IMR 4895	41.0	2399	43,000 CUP	
H335	39.0	2449	46,100 PSI	
H4895	38.0	2400	42,700 CUP	
IMR 3031	38.3	2341	43,500 CUP	
IMR 3031	38.3	2341	46,500 PSI	
8 X 57mm MAUSER				
BBL: 24"		CASE: REMINGTON PR: REMINGTON 9 1/2		
150 GR. HDY SP				
IMR 4007 SSC	54.5	2791	COL: 2.950"	
Varget	52.4C	2896	40,800 CUP	
IMR 4320	50.5	2818	49,000 CUP	
IMR 4320	50.5	2818	48,800 CUP	

BULLET	POWDER	GR	VEL	CUP
IMR 4064	49.5	2839	46,200 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	48,800 CUP	
IMR 3031	46.5	2815	49,500 CUP	
Benchmark	47.5	2860	47,300 CUP	
Benchmark	47.5	2860	48,800 CUP	
170 GR. HDY RN				
BBL: 24"		CASE: WINCHESTER PR: WINCHESTER LRM		
IMR 4007 SSC	54.5C	2726	COL: 2.825"	
Varget	50.5	2700	45,600 CUP	
IMR 4320	49.8	2680	48,700 CUP	
IMR 4064	48.7	2706	49,200 CUP	
748	54.0	2832	49,300 CUP	
BL-C(2)	53.5	2839	48,500 CUP	
IMR 4895	48.0	2647	48,800 CUP	
H335	49.2	2738	47,900 CUP	
H4895	49.0	2769	48,800 CUP	
IMR 3031	45.5	2640	47,700 CUP	
Benchmark	46.6	2679	48,700 CUP	
Benchmark	46.6	2679	49,100 CUP	
325 WINCHESTER SHORT MAG.				
BBL: 24"		CASE: WINCHESTER PR: WINCHESTER LRM		
180 GR. NOS BT				
H4831	65.8C	2930	COL: 2.840"	
Hybrid 100V	66.0C	2936	62,800 PSI	
IMR 4831	68.5 C	2927	59,200 PSI	
H4350	65.5	2957	61,100 PSI	
H414	65.5	2946	62,200 PSI	
IMR 4350	67.0 C	2954	62,500 PSI	
760	65.5	2946	62,000 PSI	
IMR 4007 SSC	65.0 C	2979	62,800 PSI	
H380	64.0	2925	63,100 PSI	
Varget	58.0	2873	62,700 PSI	
IMR 4320	59.5	2896	62,900 PSI	
IMR 4064	58.0	2865	60,100 PSI	
BL-C(2)	61.0	2936	62,300 PSI	
IMR 4895	58.7	2906	62,700 PSI	
H4895	54.6	2820	62,700 PSI	
H4895	54.6	2820	60,300 PSI	
200 GR. BAR XLC				
IMR 7828	71.0 C*	2784	COL: 2.860"	
IMR 4831	69.5 C	2788	61,600 PSI	
H4350	67.0	2843	58,200 PSI	
H414	65.0	2827	62,900 PSI	
IMR 4350	67.5 C	2818	63,400 PSI	
760	65.0	2827	63,400 PSI	
H380	64.8	2777	60,000 PSI	
Varget	59.0	2762	60,000 PSI	
IMR 4320	60.0	2771	62,300 PSI	
BL-C(2)	60.5	2799	62,700 PSI	
IMR 4895	58.7	2759	61,400 PSI	
H4895	57.3	2739	62,200 PSI	
H4895	57.3	2739	62,200 PSI	
220 GR. SFT SP				
IMR 7828	66.5 C*	2643	COL: 2.845"	
H4831	67.0C	2638	61,500 PSI	
H4831	67.0C	2638	61,300 PSI	

*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
Hybrid 100V	61.0C	2644	60,000 PSI	
IMR 4831	66.0 C	2706	54,900 PSI	
H4350	67.0	2843	62,900 PSI	
H414	61.5	2669	63,200 PSI	
IMR 4350	63.5C	2647	60,600 PSI	
760	61.5	2669	63,200 PSI	
IMR 4007 SSC	61.7	2778	60,900 PSI	
H380	60.0	2627	63,600 PSI	
Varget	54.0	2569	62,400 PSI	
IMR 4320	55.0	2564	61,900 PSI	
IMR 4064	54.0	2585	63,000 PSI	
BL-C(2)	57.3	2622	62,100 PSI	
IMR 4895	54.3	2578	61,700 PSI	
H4895	52.5	2556	63,100 PSI	

338 FEDERAL BBL: 24" **CASE: FEDERAL PR: FEDERAL 210**

180 GR. NOS AB		COL: 2.810"	
748	51.0	2746	51,100 PSI
BL-C(2)	50.0	2648	47,500 PSI
IMR 4895	47.0 C	2624	50,900 PSI
H335	47.0	2712	53,900 PSI
H4895	47.0 C	2682	50,800 PSI
IMR 3031	45.0 C	2705	55,200 PSI
Benchmark	47.0 C	2768	61,300 PSI
H322	45.5 C	2743	59,700 PSI

185 GR. BAR TSX		COL: 2.800"	
Varget	47.0 C	2607	54,700 PSI
IMR 4064	45.0C	2584	53,400 PSI
748	49.0	2665	53,100 PSI
BL-C(2)	49.0	2597	51,100 PSI
IMR 4895	45.0C	2541	51,400 PSI
H335	46.0	2679	56,700 PSI
H4895	46.5 C	2690	58,200 PSI
IMR 3031	44.0C	2666	60,000 PSI
Benchmark	44.0 C	2637	60,100 PSI
H322	43.3 C	2645	59,700 PSI

210 GR. SFT SCIR		COL: 2.820"	
Varget	46.0 C	2503	56,500 PSI
IMR 4064	43.0C	2394	48,800 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	45.0 C	2551	58,100 PSI
IMR 3031	42.5C	2499	57,000 PSI
Benchmark	46.0 C	2514	60,800 PSI
H322	42.3 C	2511	59,200 PSI

338 RUGER COMPACT MAGNUM BBL: 24" **CASE: HORNADY PR: WINCHESTER LRM**

185 GR. BAR TSX		COL: 2.800"	
Varget	57.0C	2867	62,900 PSI
IMR 4320	56.0C	2839	61,800 PSI

BULLET	POWDER	GR	VEL	CUP
IMR 4064	55.2C	2864	62,400 PSI	
748	59.5	2937	62,300 PSI	
BL-C(2)	61.0	2947	62,000 PSI	
IMR 4895	55.5	2863	63,100 PSI	
H335	54.4	2874	62,700 PSI	
H4895	54.8C	2852	60,600 PSI	
IMR 3031	51.5C	2816	63,000 PSI	

200 GR. HDY SP **COL: 2.830"**

H414	63.0	2817	58,500 PSI
IMR 4007 SSC	62.0C	2809	62,300 PSI
Varget	57.0C	2798	64,000 PSI
IMR 4320	56.5	2777	62,400 PSI
IMR 4064	55.0	2772	62,300 PSI
748	59.4	2844	61,600 PSI
BL-C(2)	61.0	2870	62,500 PSI
IMR 4895	56.0	2800	63,200 PSI
H335	54.2	2775	62,200 PSI
H4895	55.3	2803	63,600 PSI
IMR 3031	51.7	2735	63,000 PSI

225 GR. HDY IB **COL: 2.830"**

H414	60.0	2639	58,000 PSI
IMR 4007 SSC	59.0C	2619	58,700 PSI
Varget	53.3	2601	62,200 PSI
IMR 4320	53.5	2607	62,800 PSI
IMR 4064	53.5	2630	62,300 PSI
748	56.0	2654	61,200 PSI
BL-C(2)	58.0	2689	61,500 PSI
IMR 4895	53.5C	2628	62,600 PSI
H335	52.0	2620	62,900 PSI
H4895	52.3	2619	63,300 PSI
IMR 3031	50.0	2584	63,800 PSI

338 WINCHESTER MAGNUM BBL: 24" **CASE: WINCHESTER PR: WIN WLR MAG**

210 GR. NOS PART		COL: 3.280"	
IMR 7828	78.0C*	2895	52,600 CUP
H4831	75.5 C	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
H414	67.0	2848	51,800 CUP
IMR 4350	71.5C	2894	52,800 CUP
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

250 GR. HDY SP **COL: 3.340"**

H1000	76.0 C	2622	46,500 CUP
IMR 7828	75.0C*	2628	51,800 CUP
Supreme 780	73.0	2612	49,300 CUP
H4831	71.5 C	2655	52,300 CUP
Hybrid 100V	68.0C	2643	50,500 CUP

BULLET	POWDER	GR	VEL	CUP
IMR 4831	71.6C	2632	52,400 CUP	
H4350	67.5	2657	51,900 CUP	
H414	65.0	2622	52,900 CUP	
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	

338 LAPUA MAGNUM BBL: 24" **CASE: NORMA PR: FEDERAL 215M**

210 GR. NOS PART		COL: 3.525"	
Retumbo	102.0 C	3142	52,600 CUP
H1000	99.5	3052	52,500 CUP
IMR 7828	93.4	3099	52,900 CUP
H4831	89.0	3006	53,000 CUP
Hybrid 100V	84.0	2948	52,500 CUP
IMR 4831	88.5	3076	53,500 CUP
H4350	82.0	3005	52,200 CUP
IMR 4350	85.0	3034	51,900 CUP

250 GR. HDY SP **COL: 3.550"**

US869	108.0	2879	51,100 CUP
Retumbo	98.0 C	2853	52,000 CUP
H1000	98.0 C	2838	52,800 CUP
IMR 7828	88.5	2802	52,100 CUP
Supreme 780	90.0	2841	50,600 CUP
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

300 GR. SIE HPBT **COL: 3.600"**

US 869	104.0	2677	51,500 CUP
Retumbo	94.0 C	2654	53,400 CUP
H1000	92.0 C	2590	53,000 CUP
IMR 7828	81.0	2566	53,000 CUP
Supreme 780	84.0	2593	50,600 CUP
H4831	79.0	2511	53,100 CUP
IMR 4831	76.0	2541	53,300 CUP

375 H&H MAGNUM BBL: 24" **CASE: WINCHESTER PR: FEDERAL 215 M**

235 GR. SPR SP		COL: 3.600"	
H414	83.0	2749	42,600 CUP
760	83.0	2749	42,600 CUP
H380	81.0	2835	46,800 CUP
Varget	70.0	2819	51,200 CUP
BL-C(2)	85.0	2964	47,100 CUP
H335	74.0	2853	50,000 CUP
H4895	74.0	2895	50,400 CUP
Trail Boss	26.3	1144	

270 GR. WIN FS **COL: 3.600"**

IMR 4831	82.5C	2690	50,700 CUP
H4350	83.0 C	2694	46,800 CUP
H414	78.0	2576	45,500 CUP
IMR 4350	78.5C	2710	53,000 CUP
760	78.0	2576	45,500 CUP

BULLET	POWDER	GR	VEL	CUP
H380	78.0	2632	46,600 CUP	
Varget	67.0	2620	51,600 CUP	
IMR 4320	66.5	2545	52,000 CUP	
IMR 4064	69.0	2655	52,500 CUP	
IMR 4895	65.0	2565	53,000 CUP	
H4895	68.0	2624	50,500 CUP	
IMR 3031	65.5	2610	53,000 CUP	
SR 4759	41.5	2085	53,000 CUP	

300 GR. SIE SPBT **COL: 3.600"**

Hybrid 100V	72.0C	2400	47,400 CUP
IMR 4831	80.0C	2560	48,300 CUP
H4350	81.5 C	2645	49,500 CUP
H414	78.0	2548	46,800 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

375 RUGER BBL: 24" **CASE: HORNADY PR: WINCHESTER LRM**

250 GR. SFT SP		COL: 3.270"	
Hybrid 100V	83.0C	2896	57,200 PSI
IMR 4831	84.5C	2829	58,700 PSI
H4350	82.5	2834	59,000 PSI
IMR 4350	82.0	2811	59,200 PSI
760	80.3	2838	59,400 PSI
IMR 4007 SSC	79.5	2806	58,000 PSI
H380	78.5	2812	59,400 PSI
Varget	72.0	2773	59,000 PSI
IMR 4064	71.0	2763	58,900 PSI

270 GR. HDY SP **COL: 3.310"**

Supreme 780	90.5	2745	59,800 PSI
Hybrid 100V	82.0C	2759	55,900 PSI
IMR 4831	85.0C	2724	54,800 PSI
H4350	83.5C	2783	58,400 PSI
H414	80.5	2757	59,300 PSI
IMR 4350	83.0C	2758	57,200 PSI
760	80.5	2757	59,300 PSI
IMR 4007 SSC	79.6	2771	60,000 PSI

300 GR. HDY RN **COL: 3.280"**

Supreme 780	88.0	2626	59,000 PSI
H4831	88.0C	2611	57,800 PSI
Hybrid 100V	78.5	2645	59,100 PSI
H4350	80.7	2660	59,600 PSI
H414	79.5	2642	60,100 PSI
760	79.5	2642	60,100 PSI
IMR 4007 SSC	76.5	2603	59,000 PSI

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

240 GR. SIE JHP		COL: 2.535"	
IMR 4895	56.0C	2200	38,600 CUP
H335	56.0	2222	38,900 CUP
H4895	53.0C	2069	33,100 CUP

BULLET POWDER GR VEL CUP

223 REMINGTON CASE: WINCHESTER
BBL: 15" PR: WINCHESTER SR

		COL: 2.280"
40 GR. NOS BT		
VARGET	28.0 C 3069	47,200 CUP
BL-C(2)	28.5 2910	45,400 CUP
H335	28.0 3231	44,600 CUP
H4895	27.5 C 3060	44,500 CUP
BENCHMARK	27.3 3174	51,000 CUP
H322	25.5 3087	48,000 CUP
H4198	22.5 3014	49,600 CUP

		COL: 2.210"
50 GR. SPR SP		
VARGET	27.5 C 2959	44,800 CUP
BL-C(2)	28.0 2851	47,100 CUP
H335	26.0 2834	51,700 CUP
H4895	27.5 C 3024	51,300 CUP
BENCHMARK	26.5 2953	50,400 CUP
H322	24.0 2740	49,300 CUP
H4198	21.5 2824	45,900 CUP

		COL: 2.200"
55 GR. SPR SP		
VARGET	27.5 C 2972	49,700 CUP
BL-C(2)	27.5 2816	48,500 CUP
H335	25.3 2799	49,300 CUP
H4895	26.0 2880	49,000 CUP
BENCHMARK	25.6 2840	50,000 CUP
H322	23.0 2638	48,900 CUP
H4198	21.0 2719	47,600 CUP

32 H&R MAGNUM CASE: FEDERAL
BBL: 5" PR: FEDERAL 100

		COL: 1.290"
85 GR. HDY HP		
H4227	9.5 1151	21,000 CUP
LIL'GUN	12.0 1263	16,800 CUP
LONGSHOT	5.0 1167	20,200 CUP
HS-6	5.6 1146	20,200 CUP
AutoComp	4.6 1114	19,200 CUP
UNIVERSAL	4.3 1123	19,000 CUP
231	3.8 1003	20,700 CUP
HP-38	3.8 1003	20,700 CUP
TITEGROUP	3.7 1110	20,900 CUP

		COL: 1.340"
90 GR. SIE JHP		
H4227	10.0 1079	17,000 CUP
LIL'GUN	11.5 1227	18,000 CUP
LONGSHOT	5.0 1139	19,500 CUP
HS-6	6.0 1140	20,200 CUP
AutoComp	4.5 1082	20,300 CUP
UNIVERSAL	4.0 1072	20,000 CUP
HP-38	4.0 1033	20,300 CUP

		COL: 1.345"
100 GR. SPR JHP		
H4227	10.0 1060	19,300 CUP
LIL'GUN	11.0 1208	19,900 CUP
LONGSHOT	4.7 1056	19,300 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
TITEGROUP	3.3 956	19,900 CUP

BULLET POWDER GR VEL CUP

327 FEDERAL MAGNUM CASE: FEDERAL
BBL: 5" PR: FEDERAL 200 PISTOL

		COL: 1.450"
85 GR. HDY XTP		
Longshot	7.2 1549	41,800 PSI
800-X	7.5 1548	36,700 PSI
SR 4756	7.1 1451	37,800 PSI
HS-6	8.5 1561	41,600 PSI
AutoComp	7.0 1518	42,100 PSI
Universal	6.0 1378	38,700 PSI
WSF	7.0 1475	38,200 PSI
231	6.0 1416	39,800 PSI
HP-38	6.0 1416	39,800 PSI
Titegroup	5.8 1438	37,600 PSI

		COL: 1.460"
90 GR. SIE JHC		
Longshot	7.3 1512	42,600 PSI
800-X	7.2 1446	31,700 PSI
SR 4756	7.4 1486	40,500 PSI
HS-6	8.8 1491	36,400 PSI
AutoComp	7.2 1493	42,900 PSI
Universal	5.7 1372	40,900 PSI
WSF	6.6 1426	41,900 PSI
231	6.1 1415	43,000 PSI
HP-38	6.1 1415	43,000 PSI
Titegroup	5.7 1402	39,600 PSI

		COL: 1.450"
100 GR. HDY XTP		
IMR 4227	12.5C 1318	30,000 PSI
296	13.2 1525	38,500 PSI
H110	13.2 1525	38,500 PSI
Lil'Gun	14.0 1431	27,900 PSI
Longshot	6.7 1400	43,500 PSI
800-X	6.9 1434	39,400 PSI
SR 4756	6.6 1352	41,500 PSI
HS-6	7.7 1384	42,000 PSI
AutoComp	6.2 1328	41,400 PSI
Universal	5.4 1250	40,800 PSI
HP-38	5.4 1261	39,800 PSI
Titegroup	5.2 1261	42,800 PSI

32-20 WINCHESTER CASE: REMINGTON
BBL: 5.5" PR: WINCHESTER SP

		COL: 1.550"
85 GR. HDY JHP		
LIL'GUN	8.0 1102	15,700 CUP
TITEGROUP	3.5 961	15,900 CUP

		COL: 1.580"
100 GR. REM JFP		
LIL'GUN	7.5 1018	15,700 CUP
TITEGROUP	3.5 908	16,000 CUP

380 AUTO CASE: REMINGTON
BBL: 3.75" PR: CCI 500

		COL: .955"
90 GR. HDY JHP		
800-X	4.1 870	15,500 CUP
SR 4756	3.6 880	15,500 CUP
AutoComp	4.5 1012	15,000 CUP
Universal	3.6 955	15,700 CUP
231	3.5 957	15,400 CUP
HP-38	3.5 957	15,400 CUP
SR 7625	3.2 880	14,700 CUP
PB	3.0 890	15,700 CUP
Titegroup	3.2 970	15,600 CUP
700-X	2.9 895	15,900 CUP

BULLET POWDER GR VEL CUP

		COL: .980"
100 GR. HDY FMJ		
800-X	4.0 840	14,700 CUP
SR 4756	3.5 875	15,900 CUP
AutoComp	4.2 934	14,400 CUP
Universal	3.4 889	16,100 CUP
231	3.1 843	15,400 CUP
HP-38	3.1 843	15,400 CUP
SR 7625	3.0 855	15,500 CUP
PB	2.8 835	15,400 CUP
Titegroup	3.0 912	14,700 CUP
700-X	2.7 840	15,200 CUP

9MM LUGER CASE: WINCHESTER
BBL: 4" PR: CCI 500

		COL: 1.125"
115 GR. SPR GDHP		
700-X	4.2 1091	31,900 PSI
Longshot	6.0 1203	32,300 PSI
HS-6	7.0 1234	29,400 CUP
AutoComp	5.6 1161	32,500 PSI
Universal	5.0 1149	31,200 CUP
231	5.1 1167	28,100 CUP
HP-38	5.1 1167	28,100 CUP
SR 7625	4.9 1113	32,300 PSI
PB	4.0 1038	32,000 PSI
Titegroup	4.8 1158	30,500 CUP
Clays	3.9 1095	32,600 CUP

		COL: 1.090"
125 GR. SIE FMJ		
Longshot	5.7 1162	33,400 PSI
SR 4756	4.9 1037	28,700 PSI
HS-6	6.8 1169	27,100 CUP
AutoComp	5.2 1120	33,300 PSI
Universal	4.9 1118	30,600 CUP
231	4.8 1088	28,800 CUP
HP-38	4.8 1088	28,800 CUP
SR 7625	4.6 1074	33,700 PSI
PB	3.6 974	33,500 PSI
Titegroup	4.4 1136	30,600 CUP
700-X	3.6 1007	31,000 PSI
Clays	3.7 1056	32,500 CUP

		COL: 1.100"
147 GR. HDY XTP		
Longshot	4.7 1004	33,800 PSI
800-X	4.0 883	28,900 PSI
SR 4756	3.6 834	29,900 PSI
HS-6	5.0 885	27,900 CUP
AutoComp	4.0 916	32,800 PSI
Universal	3.3 869	31,000 CUP
SR 7625	3.3 844	32,900 PSI
Titegroup	3.6 929	27,500 CUP
700-X	2.9 838	32,000 PSI

38 SUPER AUTO CASE: REMINGTON
BBL: 5" PR: REMINGTON 1/2

		COL: 1.245"
115 GR. HDY XTP		
Longshot	7.1 1301	31,600 CUP
800-X	5.9 1015	21,900 CUP
SR 4756	5.2 965	21,800 CUP
HS-6	8.5 1314	31,500 CUP
AutoComp	6.2 1238	32,000 CUP
Universal	5.5 1225	32,300 CUP
231	6.1 1261	32,700 CUP
HP-38	6.1 1261	32,700 CUP
SR 7625	4.5 955	21,800 CUP

BULLET POWDER GR VEL CUP

PB	4.0 955	22,500 CUP
Titegroup	5.3 1208	31,800 CUP
700-X	4.0 955	22,900 CUP

		COL: 1.275"
125 GR. SIE FMJ		
LIL'GUN	14.0 1353	29,800 CUP
Longshot	6.9 1247	32,600 CUP
HS-6	8.3 1271	32,100 CUP
AutoComp	6.2 1173	31,400 CUP
Universal	5.5 1179	32,300 CUP
231	5.7 1159	31,200 CUP
HP-38	5.7 1159	31,200 CUP
Titegroup	5.0 1124	31,800 CUP

		COL: 1.275"
130 GR. SIE FMJ		
Longshot	6.8 1215	32,000 CUP
HS-6	8.2 1231	32,500 CUP
AutoComp	6.1 1144	31,900 CUP
Universal	5.3 1124	32,200 CUP
231	5.5 1134	31,200 CUP
HP-38	5.5 1134	31,200 CUP
Titegroup	4.9 1116	31,000 CUP

147 GR. HDY XTP CASE: 1.275"
AutoComp 5.5 1056 32,900 CUP

38 SUPER AUTO +P CASE: WINCHESTER
BBL: 5" PR: WINCHESTER SP

		COL: 1.280"
115 GR. JHP		
WSF	7.1 1320	34,400 PSI

		COL: 1.280"
124 GR. FMJ		
WSF	6.6 1245	34,600 PSI

		COL: 1.280"
130 GR. FMJ		
WSF	6.3 1200	34,400 PSI

		COL: 1.280"
147 GR. JHP		
WSF	5.6 1070	34,400 PSI

38 SPECIAL CASE: WINCHESTER
BBL: 7.7" PR: WINCHESTER SP

		COL: 1.455"
125 GR. HDY XTP		
SR 4756	6.0 1046	16,400 PSI
HS-6	7.2 1048	16,600 CUP
AutoComp	6.2 1068	16,500 PSI
Universal	5.2 1019	17,000 CUP
231	4.9 934	16,300 CUP
HP-38	4.9 934	16,300 CUP
SR 7625	5.1 999	16,300 PSI
PB	4.1 926	15,700 PSI
TITEGROUP	4.6 1010	15,600 CUP
700-X	4.2 969	17,000 PSI
CLAYS	3.9 937	16,100 CUP

		COL: 1.455"
140 GR. HDY XTP		
HS-6	6.5 933	16,000 CUP
AutoComp	5.5 989	16,600 PSI
Universal	4.8 939	15,400 CUP
231	4.6 861	15,800 CUP
HP-38	4.6 861	15,800 CUP
SR 7625	4.7 872	16,100 PSI
PB	3.8 816	16,100 PSI
Titegroup	4.2 919	15,800 CUP
700-X	3.8 849	16,400 PSI
Clays	3.7 869	16,700 CUP

BULLET	POWDER	GR	VEL	CUP
148 GR. HDY LHBWC				
SR 4756	4.0	854	16,200 PSI	COL: 1.160"
HS-6	5.2	943	14,300 CUP	
AutoComp	4.1	881	15,200 PSI	
Universal	3.8	940	15,600 CUP	
231	4.0	956	15,900 CUP	
HP-38	4.0	956	15,900 CUP	
SR 7625	3.0	767	13,600 PSI	
PB	3.0	840	16,300 PSI	
WST	2.8	735	16,000 PSI	
Trail Boss	2.3	675	15,700 PSI	
Titegroup	3.3	908	11,800 CUP	
700-X	2.5	804	16,000 PSI	
Clays	2.5	836	13,200 CUP	
158 GR. HDY XTP				
H4227	10.0	864	15,500 CUP	COL: 1.455"
SR 4756	5.3	888	16,400 PSI	
HS-6	6.2	862	16,300 CUP	
AutoComp	4.9	865	16,800 PSI	
Universal	4.4	778	16,200 CUP	
231	4.3	779	15,900 CUP	
HP-38	4.3	779	15,900 CUP	
SR 7625	4.5	825	16,300 PSI	
PB	3.9	793	16,500 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				
BBL: 7.7"			CASE: WINCHESTER	PR: WINCHESTER SP
NOTE: +P marked guns only				
125 GR. HDY XTP				
LONGSHOT	7.0	1228	18,300 PSI	COL: 1.455"
SR 4756	6.1	1129	18,300 PSI	
HS-6	7.8	1138	19,500 CUP	
AutoComp	6.4	1073	17,600 PSI	
Universal	5.4	1072	18,900 CUP	
HP-38	5.3	1018	19,800 CUP	
SR 7625	5.2	1043	18,500 PSI	
PB	4.4	985	17,600 PSI	
Titegroup	5.0	1069	18,700 CUP	
700-X	4.4	1023	18,100 PSI	
140 GR. HDY XTP				
H4227	12.4	1121	19,400 CUP	COL: 1.455"
Longshot	6.4	1126	17,700 PSI	
SR 4756	5.6	983	17,800 PSI	
HS-6	7.0	992	18,300 CUP	
AutoComp	5.7	1031	18,000 PSI	
Universal	5.1	1022	19,100 CUP	
HP-38	4.9	892	18,600 CUP	
SR 7625	4.8	935	18,300 PSI	
PB	4.1	874	18,100 PSI	
Titegroup	4.6	984	19,300 CUP	
700-X	4.1	913	18,200 PSI	
158 GR. HDY XTP				
H4227	11.0	964	17,600 CUP	COL: 1.455"
LONGSHOT	5.5	965	17,000 PSI	
SR 4756	5.5	928	17,900 PSI	
HS-6	6.6	926	18,700 CUP	
AutoComp	5.0	885	17,000 PSI	
Universal	4.7	837	19,200 CUP	
HP-38	4.6	807	18,100 CUP	

BULLET	POWDER	GR	VEL	CUP
SR 7625	4.7	881	17,800 PSI	
PB	4.1	836	17,900 PSI	
TITEGROUP	4.3	905	19,300 CUP	
700-X	4.0	866	18,500 PSI	
357 MAGNUM				
BBL: 10"			CASE: WINCHESTER	PR: WINCHESTER SP
125 GR. HDY XTP				
H4227	20.0	1839	42,000 CUP	COL: 1.590"
296	22.0	1966	41,400 CUP	
H110	22.0	1966	41,400 CUP	
Longshot	9.7	1647	42,000 CUP	
SR 4756	7.8	1427	30,600 PSI	
HS-6	10.9	1629	42,100 CUP	
AutoComp	8.2	1455	31,700 PSI	
Universal	7.6	1453	39,600 CUP	
231	8.5	1514	42,700 CUP	
HP-38	8.5	1514	42,700 CUP	
SR 7625	7.5	1401	33,800 PSI	
Titegroup	7.5	1497	41,200 CUP	
700-X	6.4	1399	30,400 PSI	
146 GR. SPR JHP				
H4227	16.0	1566	42,700 CUP	COL: 1.535"
296	17.2	1691	42,600 CUP	
H110	17.2	1691	42,600 CUP	
Longshot	8.6	1483	42,600 CUP	
SR 4756	6.5	1218	27,700 PSI	
HS-6	9.5	1461	41,800 CUP	
AutoComp	7.1	1288	32,300 PSI	
Universal	6.5	1261	39,900 CUP	
231	7.1	1330	42,200 CUP	
HP-38	7.1	1330	42,200 CUP	
SR 7625	6.0	1183	30,000 PSI	
PB	4.7	1035	30,100 PSI	
Titegroup	6.6	1317	42,900 CUP	
700-X	5.7	1233	30,300 PSI	
158 GR. HDY XTP				
H4227	16.0	1520	42,600 CUP	COL: 1.580"
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	
SR 4756	6.5	1146	29,900 PSI	
HS-6	9.5	1375	41,900 CUP	
AutoComp	7.0	1181	33,200 PSI	
Universal	6.3	1133	39,300 CUP	
231	6.9	1220	40,000 CUP	
HP-38	6.9	1220	40,000 CUP	
SR 7625	5.8	1075	29,600 PSI	
PB	4.9	984	31,700 PSI	
Titegroup	6.1	1229	41,900 CUP	
700-X	5.7	1149	31,200 PSI	
180 GR. NOS PART				
H4227	13.7	1308	40,900 CUP	COL: 1.575"
296	13.5	1396	39,100 CUP	
H110	13.5	1396	39,100 CUP	
Lil'Gun	15.0	1422	34,500 CUP	
Longshot	7.2	1167	41,700 CUP	
SR 4756	5.7	888	32,800 PSI	
AutoComp	5.9	997	33,700 PSI	
SR 7625	5.1	838	33,200 PSI	
Titegroup	5.5	1020	40,300 CUP	
700-X	4.7	846	32,500 PSI	

BULLET	POWDER	GR	VEL	CUP
40 S&W				
BBL: 4"			CASE: HORNADY	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.				
135 GR. NOS JHP				
Longshot	11.5	1434	31,900 PSI	COL: 1.125"
HS-6	10.2	1321	33,600 PSI	
AutoComp	8.8	1342	32,700 PSI	
Universal	6.8	1250	32,000 PSI	
WSF	7.8	1273	32,200 PSI	
231	7.0	1244	33,100 PSI	
HP-38	7.0	1244	33,100 PSI	
SR 7625	7.8	1273	32,000 PSI	
PB	6.2	1183	32,500 PSI	
WST	5.9	1143	31,200 PSI	
Titegroup	6.4	1251	33,200 PSI	
700-X	6.6	1263	32,200 PSI	
Clays	4.5	1071	32,900 PSI	
180 GR. HDY XTP				
Longshot	8.0	1159	32,300 PSI	COL: 1.125"
SR 4756	6.6	1018	28,800 PSI	
HS-6	6.9	976	32,500 PSI	
AutoComp	6.3	1053	33,200 PSI	
Universal	5.8	1046	33,400 PSI	
WSF	5.8	1013	32,900 PSI	
231	5.0	947	32,900 PSI	
HP-38	5.0	947	32,900 PSI	
SR 7625	5.7	999	31,700 PSI	
PB	4.5	917	30,400 PSI	
WST	4.3	888	32,400 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				
Longshot	6.0	954	32,500 PSI	COL: 1.125"
800-X	6.1	951	31,000 PSI	
SR 4756	5.5	910	32,900 PSI	
HS-6	6.3	900	32,800 PSI	
AutoComp	5.2	894	32,100 PSI	
Universal	4.7	903	33,600 PSI	
WSF	4.8	867	33,100 PSI	
231	4.7	857	33,400 PSI	
HP-38	4.7	857	33,400 PSI	
SR 7625	4.8	872	32,800 PSI	
PB	3.7	782	32,200 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				
BBL: 10.125"			CASE: REMINGTON	PR: WINCHESTER LP
170 GR. SIE JHC				
H4227	24.9	1745	35,600 CUP	COL: 1.575"
296	26.5	1887	37,400 CUP	
H110	26.5	1887	37,400 CUP	

BULLET	POWDER	GR	VEL	CUP
Longshot	12.5	1646	38,700 CUP	
HS-6	13.7	1597	37,200 CUP	
Universal	10.3	1488	38,700 CUP	
HP-38	9.8	1440	38,300 CUP	
Titegroup	9.2	1470	37,700 CUP	
700-X	8.4	1375	39,800 CUP	
220 GR. SPR JSP				
H4227	20.0	1433	37,500 CUP	COL: 1.580"
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	
44 S&W SPECIAL				
BBL: 8"			CASE: STARLINE	PR: WINCHESTER LP
185 GR. CAST LRNF				
800-X	7.1	1031	12,700 CUP	COL: 1.400"
SR 4756	7.9	1050	14,000 CUP	
Universal	6.4	1031	13,900 CUP	
HP-38	5.6	953	12,500 CUP	
SR 7625	7.2	1043	13,600 CUP	
PB	6.1	1002	13,200 CUP	
Trail Boss	6.6	944	12,600 CUP	
Titegroup	5.5	1025	11,600 CUP	
700-X	5.4	1013	13,500 CUP	
Clays	4.2	930	13,200 CUP	
240 GR. CAST LSWC				
800-X	7.0	945	13,600 CUP	COL: 1.450"
SR 4756	7.4	921	13,300 CUP	
HS-6	8.0	917	13,000 CUP	
AutoComp	6.5	903	13,400 CUP	
Universal	5.6	873	13,300 CUP	
HP-38	5.2	858	13,200 CUP	
SR 7625	6.5	892	13,400 CUP	
PB	5.3	863	13,400 CUP	
Trail Boss	5.2	763	11,700 CUP	
Titegroup	4.8	862	13,100 CUP	
700-X	4.9	869	13,800 CUP	
Clays	4.0	771	13,500 CUP	
44 REMINGTON MAGNUM				
BBL: 8.275"			CASE: WINCHESTER	PR: REMINGTON 2 1/2
200 GR. NOS JHP				
IMR 4227	27.0	1686	37,800 CUP	COL: 1.600"
296	28.5	1806	37,800 CUP	
H110	28.5	1806	37,800 CUP	
Lil'Gun	29.5	1794	36,200 CUP	
Longshot	14.3	1534	34,600 PSI	
800-X	15.5	1600	39,800 CUP	
SR 4756	14.6	1475	39,800 CUP	
HS-6	16.			

BULLET	POWDER	GR	VEL	CUP
700-X	10.1	1300	40,000	CUP
240 GR. NOS JHP			COL: 1.600"	
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
800-X	14.2	1415	39,600	CUP
SR 4756	13.3	1260	39,800	CUP
HS-6	15.1	1417	38,200	CUP
AutoComp	11.5	1250	34,100	PSI
Universal	10.2	1246	38,200	CUP
231	11.0	1272	37,800	CUP
HP-38	11.0	1272	37,800	CUP
Titegroup	10.0	1292	37,700	CUP
300 GR. HDY XTP			COL: 1.600"	
IMR 4227	20.0	1312	38,600	CUP
296	19.0	1325	38,800	CUP
H110	19.0	1325	38,800	CUP
Lil'Gun	17.7	1280	37,600	CUP
Longshot	9.5	1071	34,700	PSI
HS-6	13.0	1214	37,900	CUP
AutoComp	9.0	927	33,500	PSI
Universal	9.6	1113	38,200	CUP
231	10.0	1149	38,100	CUP
HP-38	10.0	1149	38,100	CUP
Titegroup	9.6	1186	38,400	CUP
45 AC			CASE: WINCHESTER	
BBL: 5"			PR: FEDERAL 150	
185 GR. HDY JSWC			COL: 1.195"	
Longshot	8.2	1044	17,000	CUP
800-X	7.9	991	16,700	CUP
SR 4756	8.2	991	16,700	CUP
HS-6	9.5	996	16,800	CUP
AutoComp	7.4	958	16,200	CUP
Universal	6.4	977	16,800	CUP
WSF	7.5	981	17,400	CUP
231	5.9	906	15,800	CUP
HP-38	5.9	906	15,800	CUP
SR 7625	7.3	970	16,500	CUP
PB	5.8	935	16,200	CUP
WST	4.9	866	16,500	CUP
Titegroup	5.5	956	17,000	CUP
700-X	5.5	959	17,100	CUP
Clays	4.9	981	17,400	CUP
200 GR. SPR JHP			COL: 1.155"	
Longshot	7.8	1013	16,900	CUP
800-X	7.4	954	16,600	CUP
SR 4756	7.6	941	14,200	CUP
HS-6	9.0	948	16,400	CUP
AutoComp	7.0	930	16,000	CUP
Universal	6.2	949	17,200	CUP
WSF	6.8	929	16,700	CUP
231	5.9	906	16,700	CUP
HP-38	5.9	906	16,700	CUP
SR 7625	6.6	941	17,100	CUP
PB	5.5	873	16,100	CUP
WST	5.1	898	17,500	CUP
Titegroup	5.2	884	16,900	CUP
700-X	5.3	911	16,700	CUP
Clays	4.3	785	17,700	CUP

BULLET	POWDER	GR	VEL	CUP
230 GR. HDY FMJ FP			COL: 1.200"	
Longshot	6.8	908	17,200	CUP
800-X	7.0	900	16,900	CUP
SR 4756	7.0	867	16,500	CUP
HS-6	8.2	825	15,400	CUP
AutoComp	6.6	871	17,100	CUP
Universal	5.6	844	16,800	CUP
WSF	6.4	851	15,700	CUP
231	5.3	832	16,800	CUP
HP-38	5.3	832	16,800	CUP
SR 7625	6.0	848	16,600	CUP
PB	5.0	807	16,500	CUP
Titegroup	4.8	818	16,700	CUP
700-X	4.9	842	16,600	CUP
Clays	4.0	732	17,000	CUP
45 COLT			CASE: WINCHESTER	
BBL: 7.25"			PR: WINCHESTER LP	
200 GR. CAST LRNFP			COL: 1.600"	
800-X	9.3	1042	13,500	PSI
SR 4756	10.0	986	12,100	PSI
UNIVERSAL	8.8	1067	13,600	CUP
SR 7625	9.1	996	12,800	PSI
PB	8.2	1053	12,800	PSI
TITEGROUP	7.7	1050	12,700	CUP
Trail Boss	6.5	855	11,000	PSI
700-X	6.2	933	12,400	PSI
231	8.0	1002	13,800	CUP
HP-38	8.0	1002	13,800	CUP
CLAYS	5.9	931	13,100	CUP
260 GR. SPR JHP			COL: 1.595"	
800-X	7.6	803	13,600	PSI
SR 4756	8.6	772	12,900	PSI
HS-6	10.7	865	14,000	CUP
AutoComp	8.0	770	13,500	PSI
UNIVERSAL	8.0	813	14,000	CUP
SR 7625	7.5	759	13,500	PSI
PB	6.3	723	13,400	PSI
TITEGROUP	6.3	797	12,500	CUP
231	7.1	787	14,000	CUP
HP-38	7.1	787	14,000	CUP
700-X	5.2	714	12,500	PSI
300 GR. SIE JFP			COL: 1.670"	
HS-6	10.0	730	13,700	CUP
UNIVERSAL	7.3	700	13,700	CUP
TITEGROUP	5.8	682	12,900	CUP
454 CASULL			CASE: FREEDOM ARMS	
BBL: 9.375"			PR: WINCHESTER SR	
260 GR. FA JFP			COL: 1.765"	
H4227	33.0 C	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
260 GR. SPR JHP			COL: 1.675"	
LONGSHOT	15.0	1443	36,600	CUP
HS-6	16.8	1420	36,400	CUP
UNIVERSAL	11.5	1245	34,900	CUP
TITEGROUP	11.0	1270	35,900	CUP
300 GR. FA JFP			COL: 1.775"	
H4227	31.0 C	1702	52,400	CUP

BULLET	POWDER	GR	VEL	CUP
H110	30.0	1716	53,700	CUP
LIL'GUN	31.0	1746	45,000	CUP
296	30.0	1716	53,700	CUP
460 S&W MAGNUM			CASE: STARLINE	
BBL: 10.743"			PR: WINCHESTER LRM	
260 GR. NOS PART			COL: 2.175"	
H4227	43.0 C	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
300 GR. HDY XTP MAG.			COL: 2.160"	
H4227	40.0 C	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
480 RUGER			CASE: HORNADY	
BBL: 7 1/2"			PR: WINCHESTER LP	
325 GR. HDY XTP			COL: 1.620"	
H4227	27.2	1477	45,600	PSI
H110	27.0	1518	44,900	PSI
LIL'GUN	25.1	1525	45,200	PSI
296	27.0	1518	44,900	PSI
LONGSHOT	14.5	1330	47,000	PSI
TITEGROUP	10.7	1158	46,200	PSI
400 GR. HDY XTP			COL: 1.620"	
H4227	21.0	1211	46,100	PSI
H110	20.5	1258	46,600	PSI
LIL'GUN	18.0	1229	45,600	PSI
296	20.5	1258	46,600	PSI
LONGSHOT	11.0	1082	46,900	PSI
TITEGROUP	8.5	959	46,800	PSI
TRAIL BOSS	8.0	717	24,800	PSI
500 S&W MAGNUM			CASE: STARLINE	
BBL: 10"			PR: WINCHESTER LR	
275 GR. BAR XPB			COL: 2.085"	
H4227	44.0	2047	48,400	PSI
H110	45.0	2082	49,300	PSI
LIL'GUN	44.0	2137	50,800	PSI
296	45.0	2082	49,300	PSI
LONGSHOT	24.5	1824	48,900	PSI
TITEGROUP	20.0	1707	50,300	PSI
350 GR. HDY XTP			COL: 1.985"	
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
400 GR. SIE JSP			COL: 2.050"	
H4227	39.5	1698	49,100	PSI
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



IMR TRAIL BOSS POWDER FOR COWBOY ACTION SHOOTING

Trail Boss is designed specifically for low velocity lead bullet loads suitable for Cowboy Action shooting. It is based on a whole new technology which allows very high loading density, good flow through powder measures, stability in regard to temperature variation and most importantly, additional safety to the handloader.

Trail Boss occupies from 50% of available case capacity up to 100% of available case capacity.

A double charge of the maximum loads will either overflow the case or will not exceed SAAMI proof pressures depending upon the cartridge case being loaded. The high load density of Trail Boss will make it very easy to visualize in a case and powder sensors will work more efficiently. The unique appearance of Trail Boss will make it impossible to mistake it for any other product.

Many people wonder how a powder so fluffy with such unusually shaped granules can flow well through a powder measure. Well, flow was an absolute must with this product during development. Powder drop to powder drop consistency with Trail Boss is at least as good as other flake powders. Due to the volume occupied by Trail Boss charges, users of Dillon measures will want to change from their pistol powder charge bar to their rifle powder charge bar for any charge over 5.0 grs. of Trail Boss.



NOTE: 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.

NOTE: Trail Boss works great for reduced loads in rifle. See rifle data section for specific loads. Contact Customer Service at Hodgdon for assistance with Trail Boss reduced loads not shown in this manual.

SMOKELESS PISTOL AND CARBINE

STARTING LOADS				MAXIMUM LOADS				
BULLET	POWDER	GRS.	VEL. fps	CUP	POWDER	GRS.	VEL. fps	CUP
25-20 WINCHESTER								
71 GR LEAD RNFP	H4227	6.0 gr.	1146	13,700	H-4227	7.0 gr.	1346	18,200
	HS-7	4.8 gr.	1202	14,900	HS-7	5.8 gr.	1465	22,800
	HS-6	4.3 gr.	1206	18,700	HS-6	5.3 gr.	1428	21,900
85 GR LEAD RNFP	H4227	6.0 gr.	1129	18,500	H-4227	7.0 gr.	1317	20,500
	HS-7	4.5 gr.	1085	17,700	HS-7	5.8 gr.	1407	26,200
	HS-6	4.5 gr.	1261	19,600	HS-6	5.3 gr.	1391	25,300
90 GR HDY LSWC	HS-6	4.6 gr.	845	10,900	HS-6	5.0 gr.	963	14,800
	UNIVERSAL	3.0 gr.	819	8,400	UNIVERSAL	3.2 gr.	908	11,500
	HP38	2.8 gr.	828	9,600	HP38	3.2 gr.	919	12,500
	TITEGROUP	2.4 gr.	819	10,500	TITEGROUP	2.8 gr.	911	13,300
32 S&W LONG								
90 GR. HDY LSWC	Trail Boss	1.5 gr.	599	5,900	Trail Boss	2.9 gr.	730	8,100
32 H & R MAGNUM								
90 GR LEAD RNFP	HS-6	4.6 gr.	845	10,900	HS-6	5.0 gr.	963	14,800
	UNIVERSAL	3.0 gr.	819	8,400	UNIVERSAL	3.2 gr.	908	11,500
	HP38	2.8 gr.	828	9,600	HP38	3.2 gr.	919	12,500
	TITEGROUP	2.4 gr.	819	10,500	TITEGROUP	2.8 gr.	911	13,300
	Trail Boss	2.4 gr.	751	10,700	Trail Boss	2.8 gr.	785	11,300
32-20 WINCHESTER (COLT PISTOL)								
90 GR LEAD RNFP	HP38	3.2 gr.	833	11,900	HP38	3.5 gr.	969	16,000
	TITEGROUP	3.0 gr.	937	12,300	TITEGROUP	3.4 gr.	1012	15,800
	Trail Boss	2.5 gr.	785	11,400	Trail Boss	2.8 gr.	830	13,900
115 GR LEAD RNFP	UNIVERSAL	3.0 gr.	808	14,200	UNIVERSAL	3.2 gr.	869	16,000
	HP38	3.2 gr.	839	11,100	HP38	3.5 gr.	915	15,600
	TITEGROUP	2.7 gr.	815	12,900	TITEGROUP	3.0 gr.	857	15,300
115 GR CAST LRNFP	Trail Boss	2.2 gr.	642	11,300	Trail Boss	2.5 gr.	707	15,300
32-20 WINCHESTER (RUGER PISTOL AND RIFLE DATA ONLY)								
90 GR LEAD RNFP	HP38	3.5 gr.	969	16,000	HP38	4.5 gr.	1,177	22,800
115 GR LEAD RNFP	UNIVERSAL	3.2 gr.	869	16,000	UNIVERSAL	4.0 gr.	1,037	22,600
	HP38	3.5 gr.	915	15,600	HP38	4.3 gr.	1,045	22,600
38 SHORT COLT								
93 GR AA206 LRN	Trail Boss	1.7 gr.	575		Trail Boss	2.0 gr.	674	
135 GR AA202 LFP	Trail Boss	1.5 gr.	490		Trail Boss	1.7 gr.	526	
38 LONG COLT								
125 GR LEAD RN	UNIVERSAL	3.2 gr.	626		UNIVERSAL	3.7 gr.	772	
	HP38	2.6 gr.	636		HP38	3.2 gr.	766	
	TITEGROUP	2.3 gr.	657		TITEGROUP	2.7 gr.	752	
	CLAYS	2.0 gr.	631		CLAYS	2.5 gr.	765	
	Trail Boss	2.0 gr.	622		Trail Boss	2.4 gr.	705	

SMOKELESS PISTOL AND CARBINE

STARTING LOADS					MAXIMUM LOADS			
BULLET	POWDER	GRS.	VEL. fps	CUP	POWDER	GRS.	VEL. fps	CUP
38 LONG COLT (CONTINUED)								
150 GR LEAD RN	UNIVERSAL	3.0 gr.	631		UNIVERSAL	3.5 gr.	769	
	HP38	2.6 gr.	631		HP38	3.3 gr.	777	
150 GR LEAD RN	TITEGROUP	2.3 gr.	641		TITEGROUP	2.8 gr.	755	
	CLAYS	2.0 gr.	624		CLAYS	2.6 gr.	744	
	Trail Boss	1.8 gr.	541		Trail Boss	2.0 gr.	575	
38 SPECIAL								
90 GR CAST LRNFP	TITEGROUP	3.0 gr.	755	7,700	TITEGROUP	3.5 gr.	969	11,300
	CLAYS	2.5 gr.	705	7,900	CLAYS	3.0 gr.	938	11,400
125 GR LEAD RNFP	UNIVERSAL	4.3 gr.	872	8,700	UNIVERSAL	4.7 gr.	1,036	16,800
	HP38	3.8 gr.	876	10,300	HP38	4.8 gr.	1,071	16,900
	TITEGROUP	3.2 gr.	856	8,400	TITEGROUP	3.8 gr.	985	12,000
	CLAYS	2.5 gr.	810	8,400	CLAYS	3.5 gr.	978	16,900
	Trail Boss	3.0 gr.	753	11,600	Trail Boss	5.3 gr.	952	13,400
135 GR LEAD RNFP	UNIVERSAL	4.1 gr.	924	13,400	UNIVERSAL	4.6 gr.	1,025	16,900
	HP38	3.7 gr.	872	12,500	HP38	4.7 gr.	1,024	17,000
	TITEGROUP	3.1 gr.	824	9,600	TITEGROUP	3.6 gr.	927	12,900
	CLAYS	2.6 gr.	767	11,400	CLAYS	3.3 gr.	910	16,200
158 GR LEAD SWC	UNIVERSAL	3.5 gr.	756	9,600	UNIVERSAL	4.5 gr.	974	16,700
	INTERNATIONAL	3.0 gr.	798	12,400	INTERNATIONAL	3.5 gr.	903	16,100
	HP38	3.1 gr.	782	11,900	HP38	3.7 gr.	834	14,600
	TITEGROUP	3.2 gr.	815	11,500	TITEGROUP	3.8 gr.	920	15,400
	CLAYS	2.8 gr.	812	12,900	CLAYS	3.1 gr.	871	15,100
	Trail Boss	2.7 gr.	661	11,400	Trail Boss	4.2 gr.	804	13,700
357 MAGNUM								
90 GR CAST LRNFP	TITEGROUP	3.0 gr.	850	6,300	TITEGROUP	4.0 gr.	1,107	9,000
	CLAYS	2.7 gr.	780	6,000	CLAYS	3.5 gr.	1,106	12,500
125 GR LEAD RNFP	UNIVERSAL	4.8 gr.	1,046	11,000	UNIVERSAL	6.8 gr.	1,401	34,200
	HP38	4.6 gr.	1,052	13,800	HP38	5.5 gr.	1,185	18,800
	TITEGROUP	4.0 gr.	1,055	13,800	TITEGROUP	5.4 gr.	1,274	22,800
	CLAYS	3.5 gr.	984	11,900	CLAYS	5.3 gr.	1,260	33,000
	Trail Boss	3.5 gr.	874	14,900	Trail Boss	5.3 gr.	1,035	17,900
135 GR LEAD RNFP	UNIVERSAL	4.8 gr.	986	11,700	UNIVERSAL	6.5 gr.	1,314	27,800
	HP38	4.1 gr.	946	11,700	HP38	5.3 gr.	1,027	19,400
	TITEGROUP	3.5 gr.	906	13,100	TITEGROUP	5.2 gr.	1,186	24,500
	CLAYS	3.4 gr.	914	12,200	CLAYS	5.1 gr.	1,207	30,200
158 GR LEAD SWC	UNIVERSAL	4.0 gr.	890	15,700	UNIVERSAL	6.2 gr.	1,247	33,400
	HP38	3.4 gr.	796	12,600	HP38	5.0 gr.	1,109	23,900
	TITEGROUP	3.5 gr.	893	16,100	TITEGROUP	5.0 gr.	1,108	24,900
	CLAYS	3.2 gr.	867	14,400	CLAYS	4.6 gr.	1,079	33,600
	Trail Boss	3.2 gr.	754	16,500	Trail Boss	4.2 gr.	865	20,400
38-40 WCF (IN PSI)								
180 GR LEAD RNFP	UNIVERSAL	6.9 gr.	813	8,200	UNIVERSAL	7.5 gr.	955	11,900
	HP38	5.8 gr.	747	9,400	HP38	6.8 gr.	934	13,500
	TITEGROUP	5.0 gr.	819	7,000	TITEGROUP	6.4 gr.	990	13,300
	CLAYS	4.7 gr.	760	8,700	CLAYS	5.5 gr.	889	13,500
	Trail Boss	4.5 gr.	694	7,300	Trail Boss	5.5 gr.	800	9,900

NEVER Exceed the Loads Listed in This Publication
For complete data, visit our website at www.hodgdon.com

SMOKELESS PISTOL AND CARBINE

STARTING LOADS		MAXIMUM LOADS						
BULLET	POWDER	GRS.	VEL. fps	CUP	POWDER	GRS.	VEL. fps	CUP
44-40 WCF (IN PSI)								
200 GR LEAD RNFP	UNIVERSAL	6.6 gr.	722	10,000	UNIVERSAL	7.3 gr.	777	11,100
	HP38	5.5 gr.	711	9,800	HP38	6.5 gr.	820	12,400
	TITEGROUP	5.0 gr.	758	8,400	TITEGROUP	6.2 gr.	901	12,900
	CLAYS	4.2 gr.	648	8,200	CLAYS	5.0 gr.	765	11,700
	Trail Boss	5.5 gr.	723	7,800	Trail Boss	6.5 gr.	826	11,900
44 RUSSIAN								
160-165 GR LEAD RNFP	HP38	4.5 gr.	878	8,300	HP38	5.2 gr.	1,002	10,400
	TITEGROUP	4.0 gr.	884	6,100	TITEGROUP	5.3 gr.	1,076	12,000
	CLAYS	3.0 gr.	776	7,300	CLAYS	4.0 gr.	977	11,100
	Trail Boss	3.3 gr.	742	7,600	Trail Boss	4.5 gr.	878	11,600
200 GR LEAD RNFP	UNIVERSAL	4.8 gr.	816	8,100	UNIVERSAL	5.7 gr.	970	11,500
	HP38	4.2 gr.	763	7,300	HP38	5.0 gr.	900	11,300
	TITEGROUP	3.5 gr.	738	5,100	TITEGROUP	4.8 gr.	963	11,400
	CLAYS	3.2 gr.	747	8,000	CLAYS	3.7 gr.	837	11,100
	Trail Boss	3.0 gr.	647	7,900	Trail Boss	3.9 gr.	747	10,400
240 GR LEAD RNFP	UNIVERSAL	3.8 gr.	679	6,400	UNIVERSAL	4.6 gr.	841	11,000
	HP38	4.0 gr.	753	8,900	HP38	4.8 gr.	842	11,000
	TITEGROUP	3.5 gr.	732	7,300	TITEGROUP	4.2 gr.	837	11,500
	CLAYS	3.0 gr.	711	9,400	CLAYS	3.5 gr.	769	10,700
	Trail Boss	3.0 gr.	604	8,800	Trail Boss	3.5 gr.	661	10,000
44 COLT								
165 GR LEAD RNFP	HP38	4.5 gr.	826	6,100	HP38	5.5 gr.	983	9,300
	TITEGROUP	4.0 gr.	864	6,300	TITEGROUP	5.0 gr.	1,020	9,300
	CLAYS	3.0 gr.	705	6,600	CLAYS	4.2 gr.	944	9,000
	Trail Boss	3.3 gr.	698	5,400	Trail Boss	4.5 gr.	844	9,700
185 GR LEAD RNFP	HP38	4.5 gr.	807	6,600	HP38	5.3 gr.	928	9,400
	TITEGROUP	3.8 gr.	806	6,200	TITEGROUP	4.8 gr.	950	9,500
	CLAYS	3.0 gr.	692	5,800	CLAYS	4.2 gr.	893	9,600
	Trail Boss	3.2 gr.	643	5,600	Trail Boss	4.0 gr.	751	9,600
200 GR LEAD RNFP	UNIVERSAL	4.8 gr.	762	6,100	UNIVERSAL	5.7 gr.	927	9,900
	HP38	4.5 gr.	799	7,000	HP38	5.3 gr.	881	9,400
	TITEGROUP	4.0 gr.	787	6,300	TITEGROUP	4.8 gr.	912	10,000
	CLAYS	3.2 gr.	710	6,100	CLAYS	3.9 gr.	831	10,000
	Trail Boss	3.0 gr.	595	4,800	Trail Boss	3.9 gr.	711	9,300
240 GR LEAD RNFP	UNIVERSAL	4.5 gr.	769	6,400	UNIVERSAL	5.2 gr.	870	10,400
	HP38	4.2 gr.	733	7,200	HP38	4.9 gr.	827	9,900
	TITEGROUP	3.5 gr.	717	6,300	TITEGROUP	4.3 gr.	826	10,000
	CLAYS	4.0 gr.	706	6,800	CLAYS	4.7 gr.	818	9,500
	Trail Boss	3.0 gr.	563	6,800	Trail Boss	3.4 gr.	625	9,000
44 SPECIAL								
160-165 GR LEAD RNFP	UNIVERSAL	5.5 gr.	851	5,700	UNIVERSAL	6.3 gr.	1,042	10,900
	HP38	4.9 gr.	893	8,200	HP38	6.0 gr.	1,040	12,000
	TITEGROUP	4.5 gr.	865	7,100	TITEGROUP	5.8 gr.	1,035	13,400
	CLAYS	3.6 gr.	836	6,000	CLAYS	4.6 gr.	1,009	13,400
	Trail Boss	4.8 gr.	865	10,700	Trail Boss	7.0 gr.	1,005	12,100
185 GR LEAD RNFP	UNIVERSAL	5.4 gr.	823	7,700	UNIVERSAL	6.4 gr.	1,031	13,900
	HP38	4.4 gr.	810	8,000	HP38	5.6 gr.	953	12,500
	TITEGROUP	4.0 gr.	819	6,600	TITEGROUP	5.5 gr.	1,025	11,600
	CLAYS	3.5 gr.	810	7,800	CLAYS	4.2 gr.	930	13,200
	Trail Boss	4.5 gr.	791	10,400	Trail Boss	6.6 gr.	944	12,600

SMOKELESS PISTOL AND CARBINE

STARTING LOADS		MAXIMUM LOADS						
BULLET	POWDER	GRS.	VEL. fps	CUP	POWDER	GRS.	VEL. fps	CUP
44 SPECIAL (CONTINUED)								
200 GR LEAD RNFP	UNIVERSAL	5.5 gr.	802	8,200	UNIVERSAL	6.5 gr.	960	12,900
	INTERNATIONAL	4.3 gr.	774	7,300	INTERNATIONAL	5.2 gr.	919	13,500
	HP38	4.5 gr.	743	8,300	HP38	5.6 gr.	918	12,500
	TITEGROUP	3.8 gr.	746	5,700	TITEGROUP	5.4 gr.	973	13,100
	CLAYS	3.5 gr.	748	7,800	CLAYS	4.5 gr.	891	14,000
Trail Boss	4.3 gr.	757	8,700	Trail Boss	6.3 gr.	885	13,200	
240 GR LEAD SWC	UNIVERSAL	4.9 gr.	721	8,000	UNIVERSAL	5.6 gr.	873	13,300
	INTERNATIONAL	3.9 gr.	723	8,900	INTERNATIONAL	4.7 gr.	825	13,000
	HP38	4.2 gr.	717	8,400	HP38	5.2 gr.	858	13,200
	TITEGROUP	4.0 gr.	758	9,400	TITEGROUP	4.8 gr.	862	13,100
	CLAYS	3.2 gr.	669	9,000	CLAYS	4.0 gr.	771	13,500
Trail Boss	4.0 gr.	673	9,700	Trail Boss	5.2 gr.	763	11,700	
44 MAGNUM								
160-165 GR LEAD RNFP	UNIVERSAL	6.5 gr.	918	7,700	UNIVERSAL	7.2 gr.	1,059	11,500
	HP38	6.0 gr.	963	10,100	HP38	7.0 gr.	1,088	13,900
	TITEGROUP	5.3 gr.	949	11,800	TITEGROUP	6.5 gr.	1,083	16,400
	CLAYS	4.4 gr.	910	8,500	CLAYS	5.5 gr.	1,064	15,500
	Trail Boss	6.0 gr.	960	17,200	Trail Boss	8.0 gr.	1,086	18,800
185 GR LEAD RNFP	UNIVERSAL	6.4 gr.	919	8,400	UNIVERSAL	7.4 gr.	1,070	12,600
	HP38	5.9 gr.	906	9,400	HP38	7.2 gr.	1,058	14,700
	TITEGROUP	5.3 gr.	902	9,500	TITEGROUP	6.6 gr.	1,082	16,500
	CLAYS	4.2 gr.	839	8,900	CLAYS	6.0 gr.	1,043	18,400
	Trail Boss	6.2 gr.	936	19,500	Trail Boss	7.8 gr.	1,050	21,100
200 GR LEAD RNFP	UNIVERSAL	6.8 gr.	897	10,500	UNIVERSAL	7.8 gr.	1,045	15,400
	INTERNATIONAL	5.3 gr.	854	10,000	INTERNATIONAL	6.8 gr.	1,044	18,300
	HP38	5.8 gr.	875	10,800	HP38	7.4 gr.	1,039	16,700
	TITEGROUP	5.0 gr.	878	11,000	TITEGROUP	6.6 gr.	1,061	17,300
	CLAYS	4.2 gr.	785	8,500	CLAYS	6.4 gr.	1,028	20,200
Trail Boss	6.1 gr.	890	17,900	Trail Boss	7.7 gr.	988	20,700	
45 S&W (SCHOFIELD)								
200 GR LEAD RNFP	UNIVERSAL	6.0 gr.	773	9,100	UNIVERSAL	7.0 gr.	938	13,100
	HP38	5.2 gr.	745	8,800	HP38	6.2 gr.	877	13,000
	TITEGROUP	4.5 gr.	715	6,700	TITEGROUP	6.0 gr.	925	12,100
	CLAYS	4.0 gr.	733	8,300	CLAYS	5.0 gr.	845	13,100
	Trail Boss	4.0 gr.	684	9,000	Trail Boss	5.0 gr.	791	13,200
225-230 GR LEAD RNFP	UNIVERSAL	5.5 gr.	738	9,400	UNIVERSAL	6.0 gr.	816	11,400
	HP38	5.0 gr.	719	9,900	HP38	5.7 gr.	816	12,700
	TITEGROUP	4.5 gr.	702	7,800	TITEGROUP	5.8 gr.	866	12,300
	CLAYS	4.0 gr.	697	9,400	CLAYS	4.7 gr.	783	13,600
	Trail Boss	4.0 gr.	649	9,000	Trail Boss	5.0 gr.	739	13,000

SMOKELESS PISTOL AND CARBINE

BULLET	STARTING LOADS				MAXIMUM LOADS			
	POWDER	GRS.	VEL. fps	CUP	POWDER	GRS.	VEL. fps	CUP
45 S&W (SCHOFIELD) (CONTINUED)								
250 GR LEAD RNFP	UNIVERSAL	6.0 gr.	724	9,900	UNIVERSAL	6.3 gr.	830	13,800
	HP38	4.5 gr.	664	10,100	HP38	5.2 gr.	741	12,100
	TITEGROUP	4.5 gr.	716	7,900	TITEGROUP	5.3 gr.	811	11,600
	CLAYS	4.0 gr.	674	11,000	CLAYS	4.2 gr.	710	12,500
250 GR LRNFP	Trail Boss	3.5 gr.	537	7,300	Trail Boss	4.8 gr.	685	13,200
45 LONG COLT								
160-165 GR LEAD RNFP	UNIVERSAL	6.5 gr.	798	7,400	UNIVERSAL	9.5 gr.	1,197	12,900
	HP38	6.5 gr.	917	7,700	HP38	9.0 gr.	1,177	13,800
	TITEGROUP	6.0 gr.	932	6,000	TITEGROUP	7.0 gr.	1,051	9,100
	CLAYS	5.0 gr.	907	7,500	CLAYS	6.4 gr.	1,083	13,500
	Trail Boss	7.0 gr.	903	8,100	Trail Boss	8.5 gr.	1018	10,800
180 GR LEAD RNFP	UNIVERSAL	6.5 gr.	791	7,100	UNIVERSAL	9.2 gr.	1,161	13,900
	HP38	6.0 gr.	838	6,500	HP38	8.2 gr.	1,087	13,900
	TITEGROUP	5.0 gr.	759	4,600	TITEGROUP	6.9 gr.	1,020	10,900
	CLAYS	4.8 gr.	840	7,900	CLAYS	6.0 gr.	1,016	13,800
	Trail Boss	6.0 gr.	818	9,400	Trail Boss	7.3 gr.	935	12,700
200 GR LEAD RNFP	UNIVERSAL	6.4 gr.	749	5,700	UNIVERSAL	8.8 gr.	1,067	13,600
	HP38	5.9 gr.	761	5,800	HP38	8.0 gr.	1,002	13,800
	TITEGROUP	5.0 gr.	731	4,700	TITEGROUP	7.7 gr.	1,050	12,700
	CLAYS	4.6 gr.	777	5,900	CLAYS	5.9 gr.	931	13,100
	Trail Boss	5.5 gr.	706	8,000	Trail Boss	6.5 gr.	855	11,000
215 GR LEAD RNFP	UNIVERSAL	6.8 gr.	777	6,300	UNIVERSAL	8.6 gr.	1,001	13,800
	HP38	5.9 gr.	758	5,900	HP38	7.8 gr.	965	13,500
	TITEGROUP	5.0 gr.	728	4,800	TITEGROUP	7.2 gr.	983	12,100
	CLAYS	4.6 gr.	754	6,400	CLAYS	5.7 gr.	889	13,400
215 GR CAST LRNFP	Trail Boss	5.5 gr.	725	8,100	Trail Boss	6.5 gr.	820	10,300
225-230 GR LEAD RNFP	UNIVERSAL	6.5 gr.	761	7,600	UNIVERSAL	8.1 gr.	975	13,800
	HP38	5.8 gr.	738	7,300	HP38	7.3 gr.	941	13,700
	TITEGROUP	5.0 gr.	762	7,200	TITEGROUP	6.5 gr.	934	13,000
	CLAYS	4.4 gr.	734	7,600	CLAYS	5.4 gr.	865	13,900
	Trail Boss	5.5 gr.	685	9,100	Trail Boss	6.5 gr.	802	12,400
250 GR LEAD RNFP	HS-6	9.0 gr.	787	7,800	HS-6	10.5 gr.	946	13,300
	UNIVERSAL	6.5 gr.	742	9,200	UNIVERSAL	7.8 gr.	941	13,000
	INTERNATIONAL	5.4 gr.	786	9,200	INTERNATIONAL	6.0 gr.	866	13,400
	HP38	5.8 gr.	785	9,100	HP38	7.1 gr.	916	13,900
	TITEGROUP	5.0 gr.	716	7,600	TITEGROUP	6.2 gr.	881	13,000
	CLAYS	4.2 gr.	713	8,500	CLAYS	5.1 gr.	817	13,400
	Trail Boss	4.5 gr.	606	8,800	Trail Boss	5.8 gr.	727	12,700

LONG RANGE RIFLE

The loads listed below are representative of common calibers used. As there are so many cartridges which could be used, only a few are shown. DO NOT USE ANY FILLER MATERIAL WITH THESE LOADS, as fillers can alter pressure and velocities decidedly.

LONG RANGE RIFLE

BULLET	STARTING LOADS				MAXIMUM LOADS			
	POWDER	GRS.	VEL. fps	CUP	POWDER	GRS.	VEL. fps	CUP
25-35 WINCHESTER								
90 GR LFP W/GC	TITEGROUP	5.0 gr.	1369	18,000	TITEGROUP	7.0 gr.	1513	28,900
	Trail Boss	5.5 gr.	1224	22,000	Trail Boss	8.0 gr.	1414	23,200
30-30 WINCHESTER								
160 GR CAST	H4895	17.5 gr.	1351	15,200	H4895	21.0 gr.	1562	23,100
	H4198	15.0 gr.	1420	15,000	H4198	17.0 gr.	1616	20,600
	Trail Boss	6.5 gr.	997	20,500	Trail Boss	9.0 gr.	1195	29,100
32-40 WINCHESTER								
196 GR CAST	H110*Reduce Maximum 3%				H110	12.0 gr.	1376	19,200
	H4227*Reduce Maximum 3%				H4227	13.0 gr.	1267	18,000
	Trail Boss	5.0 gr.	833	12,500	Trail Boss	6.0 gr.	935	25,300
38-55 WINCHESTER								
250 GR CAST	H4895	21.0 gr.	1197	18,200	H4895	26.0 gr.	1600	26,500
	H4198	18.5 gr.	1408	17,100	H4198	21.0 gr.	1608	23,700
	Trail Boss	6.0 gr.	842	20,300	Trail Boss	7.0 gr.	911	25,600
40-65 WINCHESTER (SINGLE SHOT)								
400 GR BUFFALO ARMS LEAD RNFP	VARGET	35.0 gr.	1438	20,100	VARGET	38.0 gr.	1558	24,800
	H4895	33.0 gr.	1423	19,700	H4895	36.0 gr.	1554	24,200
	BENCHMARK	29.0 gr.	1321	18,800	BENCHMARK	32.5 gr.	1491	25,000
	H322	30.5 gr.	1398	19,200	H322	33.0 gr.	1520	23,900
	H4198	28.0 gr.	1441	21,200	H4198	31.0 gr.	1572	24,700
	H4227	20.0 gr.	1277	18,900	H4227	23.0 gr.	1410	24,900
	Trail Boss	11.0 gr.	889	20,000	Trail Boss	12.0 gr.	915	21,200
45-70 GOVERNMENT								
300 GR CAST	VARGET	45.0 gr.	1599	17,800	VARGET	55.0 gr.	1880	20,600
	H4895	45.0 gr.	1572	14,400	H4895	51.0 gr.	1703	15,500
	H4198	30.0 gr.	1390	14,400	H4198	35.5 gr.	1641	16,100
	Trail Boss	14.0 gr.	1199	14,400	Trail Boss	16.5v	1285	20,900

LONG RANGE RIFLE									
STARTING LOADS					MAXIMUM LOADS				
BULLET	POWDER	GRS.	VEL. fps	CUP	POWDER	GRS.	VEL. fps	CUP	
45-70 GOVERNMENT									
385 GR CAST	VARGET	42.5 gr.	1537	15,400	VARGET	52.5 gr.	1805	21,800	
	H4895	35.0 gr.	1280	11,900	H4895	42.0 gr.	1526	23,100	
	H4198	28.0 gr.	1302	13,300	H4198	32.0 gr.	1483	14,700	
405 GR CAST	VARGET	40.0 gr.	1392	15,600	VARGET	50.0 gr.	1718	20,900	
	H4895	40.0 gr.	1424	14,900	H4895	48.0 gr.	1645	18,900	
	H4198	27.0 gr.	1251	14,200	H4198	31.0 gr.	1459	17,100	
	Trail Boss	12.0 gr.	971	24,500	Trail Boss	13.0 gr.	1007	25,600	
485 GR CAST	H4895	32.0 gr.	1155	15,600	H4895	39.0 gr.	1403	22,700	
	H4198	28.0 gr.	1279	16,400	H4198	32.0 gr.	1434	20,400	
45-120 SHARPS									
350 GR LYMAN #457122	H4895	59.0 gr.	1875	24,800	H4895	64.0 gr.	2031	26,900	
	BENCHMARK	53.0 gr.	1809	24,700	BENCHMARK	57.0 gr.	1922	26,800	
	H322	50.0 gr.	1717	21,000	H322	53.0 gr.	1874	27,700	
	H4198	46.0 gr.	1783	22,500	H4198	49.0 gr.	1903	27,500	
405 GR LYMAN #457193	VARGET	59.0 gr.	1763	24,200	VARGET	63.0 gr.	1858	28,200	
	H4895	58.0 gr.	1849	26,000	H4895	64.0 gr.	2012	28,300	
	BENCHMARK	53.0 gr.	1805	26,500	BENCHMARK	58.0 gr.	1917	27,200	
	H322	49.0 gr.	1665	23,200	H322	52.5 gr.	1793	27,900	
500 GR LYMAN #457125	VARGET	56.0 gr.	1618	24,200	VARGET	61.0 gr.	1737	27,900	
	H4895	54.0 gr.	1641	24,400	H4895	60.0 gr.	1809	28,500	
	BENCHMARK	50.0 gr.	1607	26,600	BENCHMARK	54.5 gr.	1747	28,200	
	H322	48.0 gr.	1568	25,400	H322	52.0 gr.	1695	28,300	
500 GR LYMAN #457125	H4198	42.0 gr.	1523	25,200	H4198	46.5 gr.	1650	28,300	
	50-140 SHARPS								
	425 GR LYMAN #515141	H4831	118.0 gr.	2079	22,800	H4831	125.0 gr.	2209	26,300
		H4350	105.0 gr.	2033	21,600	H4350	114.0 gr.	2242	26,700
VARGET		95.0 gr.	2127	23,600	VARGET	102.5 gr.	2294	28,100	
515 GR LYMAN #515142	H4831	112.0 gr.	1956	23,200	H4831	118.0 gr.	2085	27,500	
	H4350	101.0 gr.	1916	22,000	H4350	108.0 gr.	2091	27,200	
	VARGET	87.0 gr.	1958	24,000	VARGET	95.0 gr.	2088	27,900	

POCKET PISTOL						
STARTING LOADS				MAXIMUM LOADS		
BULLET	POWDER	GRS.	VEL. fps	POWDER	GRS.	VEL. fps
32 S&W						
85 GR CAST	HP38	1.1 gr.	610	HP38	1.4 gr.	680
32 S&W LONG						
90 GR CAST	HP38	1.6 gr.	600	HP38	1.9 gr.	700
38 S&W						
145 GR CAST	HP38	2.2 gr.	595	HP38	2.5 gr.	630
38 SHORT COLT						
90 GR AA 206 LRN	UNIVERSAL	2.9 gr.	634	UNIVERSAL	3.4 gr.	775
	HP38	2.4 gr.	609	HP38	2.8 gr.	749
	TITEGROUP	2.3 gr.	639	TITEGROUP	2.7 gr.	791
	CLAYS	1.8 gr.	634	CLAYS	2.1 gr.	778
135 GR AA 202 LFP	UNIVERSAL	2.4 gr.	624	UNIVERSAL	2.8 gr.	771
	HP38	2.4 gr.	657	HP38	2.8 gr.	777
	TITEGROUP	2.3 gr.	646	TITEGROUP	2.7 gr.	760
	CLAYS	1.8 gr.	648	CLAYS	2.1 gr.	731

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.

Federal 12C1: CB3118-12AR
Federal 12S0: CB2100-12, XXL Orange
Federal 12S3: CB2118-12, DRF3
Hor. Versalite: Down Range DRV-12
Hor. Versalite 20: Down Range DRV-20
Pattern Control Red PC: Post PC
Remington Fig. 8: CB3118-12A, DRRF8
Remington SP 20: Remington SP205
WAA12R: CB1138-12
WAA12: CB1118-12, CB0118-12, WT12, Blue Duster, Down Range XL-1 1/8, DRA12,

Remington TGT12: DRT12
WAA12SL: CB1100-12, Green Duster, Down Range Jammer XL-1, Down Range XL-1 Green, DRA-12-PINK
WAA12L: CB0178-12, XXL PINK
WAA12F114: CB1114-12, DRA-12 Yellow
WAA20: CB1078-20
WAA28: CB1034-28
WAA28HS: CB5034-28HS
WAA41, SPA410, 410SC: CB1050-41
Windjammer: CB4118-12, DWJ-12-RPL

Notes on Recoil

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

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

Where Gw = the weight of the gun in pounds

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

Pw = powder weight in pounds

Mv = muzzle velocity in feet per second

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

Gw = 8 lb.

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

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

Mv = 1200 ft/sec

Substituting the numbers in the formula we find the

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

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

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

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

Lee

BUSHING #	CLAYS	INTER	UNIV	HS-6	H110	TITE WAD	LIL' GUN	LGSH	TITE GRP	700-X	800-X	PB	7625	4756	WST	WSF	WAA LITE	SUPER HCP
.095	10.7	12.3	15.2	21.9	22.5	12.4	23.5	19.1	18.4	10.9	11.0	12.1	14.4	14.7	12.1	18.1	12.0	17.4
.100	11.3	13.0	16.0	23.0	23.7	13.0	24.7	20.1	19.2	11.5	11.6	12.7	15.2	15.5	12.7	19.0	12.6	18.3
.105	11.8	13.7	16.8	24.2	24.9	13.7	26.0	21.1	20.0	12.0	13.0	13.4	15.9	16.3	13.4	20.0	13.3	19.2
.110	12.4	14.3	17.6	25.3	26.1	14.3	27.2	22.1	20.8	12.6	13.7	14.0	16.7	17.0	14.0	21.0	13.9	20.1
.116	13.0	15.1	18.5	26.7	27.5	15.1	28.7	23.3	21.7	13.3	15.9	14.7	17.3	17.9	14.8	22.1	14.6	21.3
.122	13.7	15.9	19.5	28.1	28.9	15.9	30.2	24.5	22.9	14.0	16.7	15.5	18.5	18.9	15.6	23.2	15.4	22.4
.128	14.4	16.6	20.4	29.4	30.3	16.7	31.7	25.7	24.1	14.7	17.5	16.3	19.4	19.8	16.3	24.4	16.1	23.5
.134	15.0	17.5	21.4	30.8	31.8	17.5	33.1	26.9	25.3	15.4	18.3	17.1	20.3	20.7	17.1	25.5	16.9	24.6
.141	15.8	18.4	22.5	32.4	33.4	18.4	34.9	28.3	26.5	16.0	19.2	17.9	21.3	21.8	18.1	26.9	17.8	25.9
.148	16.6	19.3	23.6	34.0	35.1	19.3	36.5	29.8	-	16.7	20.3	18.9	22.4	22.9	19.0	28.2	18.7	27.2
.151	16.7	19.6	24.0	-	-	19.7	37.2	30.4	-	17.1	20.7	19.2	22.9	23.4	19.4	28.8	19.1	27.7
.155	17.3	20.1	24.7	35.7	36.7	20.4	38.2	31.1	-	17.5	21.2	19.7	23.5	24.0	19.9	29.6	19.6	28.5
.163	18.2	21.1	25.9	37.5	38.6	21.4	40.2	32.7	-	18.4	22.3	20.7	24.7	25.2	21.0	31.2	20.5	30.0
.171	19.1	22.0	27.1	39.3	40.5	22.5	42.1	34.3	-	19.3	23.4	21.8	25.9	26.5	22.0	32.9	21.5	31.5
.180	20.1	23.1	28.5	41.4	42.7	23.6	44.4	36.1	-	20.4	24.6	22.8	27.3	27.8	23.2	34.4	22.7	33.2
.189	21.2	24.1	29.9	43.5	44.8	-	46.6	37.9	-	21.4	25.9	24.0	28.6	29.2	24.3	36.2	23.9	34.8
.198	22.1	25.2	31.3	45.5	46.9	26.0	48.8	39.7	-	22.4	27.1	25.1	30.0	30.6	25.5	37.7	25.0	36.5

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Ponsness
Warren

BUSHING #	CLAYS	INTER	UNIV	HS-6	H110	TITE WAD	LIL' GUN	LGSH	TITE GRP	700-X	800-X	PB	7625	4756	WST	WSF	WAA LITE	SUPER HCP
1AX									12.0									
2AX									12.7									
3AX									13.1									
1A					13.7													
2A					14.8													
3A				15.3	15.6			13.0										
A				16.8	17.5			15.0										
B				17.6				15.5	14.5									
C			12.5	18.5				16.5	15.0				12.5	12.7				
C1			13.0	19.6				17.0	16.0				13.2	13.3		16.4	11.4	15.5
D			13.2	20.4				17.3	16.3				13.5	13.6		16.6	11.6	15.7
D1			14.0	21.3				18.2	17.0			11.8	14.3	14.3	12.6	17.7	12.0	17.0
E			15.7	23.5				20.7	19.4		13.3	13.2	16.0	15.9	14.1	20.1	14.0	19.0
E1			16.2	24.0				21.6	20.0		14.0	13.7	16.6	16.6	14.6	20.8	14.3	19.8
E2			17.2	26.1		14.7		22.8	21.3	12.9	14.9	14.5	17.5	17.6	15.2	21.9	15.0	20.9
F			18.1	27.5		15.6		24.2	22.7	13.9	16.0	15.5	18.4	18.7	16.4	23.2	16.1	22.1
F1			18.3	28.3		15.8		24.4	22.9	14.0	16.2	15.6	18.5	18.8	16.5	23.4	16.2	22.2
F2						16.4		25.3	23.5	14.6	16.6	16.0	19.2	19.5	16.9	24.2	16.5	23.1
F6			18.9															
G			20.2	31.2		17.4		26.8	24.7	15.6	17.6	17.1	20.5	20.7	18.1	25.7	17.2	23.3
G1			20.6	32.7		17.7		27.1		15.9	17.8	17.4	20.8	21.0	18.5	26.0	17.3	24.0
H	16.0	18.5	22.0	34.0		18.9		29.0		17.1	19.0	18.7	22.2	22.4	19.7	28.0	18.8	
I	16.7	19.3	22.8	34.4		19.6		30.0		17.6	19.6	19.2	22.9	23.1	20.3	29.0		
J	17.2	19.8	23.9	35.5		20.3		31.2		18.4	20.4	20.0	23.8	24.0	20.9	30.2		
J1	17.6	20.3	24.5	36.9		21.0		32.0		19.2	20.9	20.5	24.6	24.8	21.7	31.1		
K	17.8	20.6	24.8	37.1		21.3		32.5		19.5	21.2	20.8	24.9	25.1	22.0	31.8		
L	18.7	21.6	25.7	39.5		22.2		34.0		20.1	22.1	21.8	26.1	26.3	23.1			
M	19.7	22.5	26.8	41.2		23.4		35.7		21.5	23.7	23.1	27.6	27.8	24.6			
N	20.8	23.7	28.2			25.2		38.0		22.9	25.3	24.6	29.4	29.7				
O	21.0	24.0	28.5					38.5			25.8	25.1	29.8	30.1				
P	21.5	24.5						39.9			26.2	25.5	30.7	31.0				
Q	21.9	25.0						40.1			26.4	25.7	30.8	31.2				
R								41.8			27.5	26.7	32.1	32.5				
S								42.5			28.0	27.2	32.6	33.1				
T								45.4			29.4	27.8	34.7	35.2				
U											31.7			37.3				
V											32.3			38.0				
W											34.9			40.1				
X														40.9				
Y														42.2				

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SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*	
*Velocity is measured in feet per second (fps). Pressure is measured in Pounds per Square Inch (PSI).					
10 GA., 3 1/2", FEDERAL PLASTIC SHELL WITH PAPER BASEWAD					
1165 fps					
2 oz	HS-6	CCI 209M	Rem. SP10 + 2-20 ga. .135" Card	40.0 gr / 9,900 PSI	
1250 fps 1300 fps					
2 oz	Longshot	CCI209M	Rem. SP10 + 1-20 ga. .135" Card	39.4 gr / 9,600 PSI —	
2 oz	Longshot	Fed. 209A	Rem. SP10 + 1-20 ga. .135" Card	40.5 gr / 9,900 PSI 41.2 gr / 11,000 PSI	
1175 fps 1225 fps					
2 oz	SR 4756	Fed. 209A	Rem. SP10 + 2-20 ga. .125" Card	37.0 gr / 10,800 PSI —	
2 oz	SR 4756	Rem. 209P	Rem. SP10 + 2-20 ga. .125" Card	— 41.5 gr / 10,800 PSI	
2 oz	800-X	Fed. 209A	Rem. SP10 + 4-20 ga. .125" Card	32.0 gr / 10,900 PSI —	
1250 fps					
2 1/4 oz	Longshot	CCI209M	Rem. SP10 + 1-20 ga. .135" Card	33.0 gr / 10,800 PSI	
2 1/4 oz	Longshot	Fed. 209A	Rem. SP10 + 1-20 ga. .135" Card	33.0 gr / 10,500 PSI	
2 1/4 oz	Longshot	Rem. 209P	Rem. SP10 + 1-20 ga. .135" Card	34.0 gr / 10,300 PSI	
10 GA., 3 1/2", REMINGTON PLASTIC SHELL WITH YELLOW PLASTIC BASEWAD					
1165 fps					
2 oz	HS-6	CCI 209M	Rem. SP10 + 3-20 ga. .135" Card	40.0 gr / 11,000 PSI	
1200 fps					
2 oz	Longshot	Fed. 209A	Rem. SP10 + 2-20 ga. .135" Card	36.5 gr / 11,000 PSI	
2 oz	Longshot	Rem. 209P	Rem. SP10 + 2-20 ga. .135" Card	37.5 gr / 11,000 PSI	
2 oz	Longshot	Win. 209	Rem. SP10 + 2-20 ga. .135" Card	38.0 gr / 10,700 PSI	
1250 fps					
2 1/4 oz	Longshot	CCI209M	Rem. SP10 + 1-20 ga. .135" Card	33.0 gr / 11,000 PSI	
2 1/4 oz	Longshot	Fed. 209A	Rem. SP10 + 1-20 ga. .135" Card	32.0 gr / 11,000 PSI	
1250 fps					
2 1/4 oz	Longshot	Rem. 209P	Rem. SP10 + 1-20 ga. .135" Card	33.5 gr / 10,800 PSI	
1200 fps					
2 oz	SR 4756	Rem. 209P	Rem. SP10 + 2-20 ga. .125" Card	39.5 gr / 10,800 PSI	
1150 fps					
2 oz	800-X	Rem. 209P	Rem. SP10 + 4-20 ga. .125" Card	30.0 gr / 10,900 PSI	
1250 fps					
2 oz	SR 4756	Win. 209	Rem. SP10 + 1-20 ga. .125" Card	42.0 gr / 10,700 PSI	
1250 fps					
2 oz	800-X	Win. 209	Rem. SP10 + 2-20 ga. .125" Card	35.0 gr / 10,800 PSI	
1150 fps					
2 1/4 oz	SR 4756	Win. 209	Rem. SP10	37.0 gr / 11,000 PSI	
2 1/4 oz	800-X	Win. 209	Rem. SP10	32.0 gr / 10,900 PSI	
10 GA., 3 1/2", WINCHESTER POLYFORMED PLASTIC SHELL W/ PLASTIC BASEWAD					
1165 fps					
2 oz	HS-6	CCI 209M	Rem. SP10 + 2-20 ga. .135" Card	40.0 gr / 10,700 PSI	
1250 fps					
2 oz	Longshot	CCI209M	Rem. SP10 + 2-20 ga. .135" Card	37.0 gr / 10,900 PSI	

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
10 GA., 3 1/2", WINCHESTER POLYFORMED PLASTIC SHELL W/ PLASTIC BASEWAD (CONT.)							
1165 fps							
2 oz	Longshot	Fed. 209A	Rem. SP10 + 2-20 ga. .135" Card	37.0 gr / 11,000 PSI			
2 oz	Longshot	Win. 209	Rem. SP10 + 2-20 ga. .135" Card	38.6 gr / 10,200 PSI			
1200 fps							
2 1/4 oz	Longshot	CCI209M	Rem. SP10	33.5 gr / 11,000 PSI			
2 1/4 oz	Longshot	Fed. 209A	Rem. SP10	31.5 gr / 10,800 PSI			
2 1/4 oz	Longshot	Win. 209	Rem. SP10	37.5 gr / 10,900 PSI			
SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
12 GA., 2 3/4", FEDERAL GOLD MEDAL PLASTIC SHELLS							
1250 fps 1300 fps 1350 fps 1400 fps							
7/8 oz	Titewad	Fed. 209A	Fed. 12SO	19.5 gr / 6,400 PSI	20.5 gr / 7,500 PSI	21.6 gr / 8,800 PSI	22.7 gr / 9,800 PSI
7/8 oz	Titewad	Win. 209	WAA12L	18.4 gr / 6,800 PSI	19.3 gr / 7,400 PSI	20.6 gr / 8,700 PSI	21.9 gr / 9,300 PSI
7/8 oz	Clays	Fed. 209A	WAA12L	19.2 gr / 7,400 PSI	20.0 gr / 8,000 PSI	21.5 gr / 9,700 PSI	22.5 gr / 11,500 PSI
7/8 oz	Clays	Win. 209	WAA12L	19.0 gr / 7,000 PSI	20.3 gr / 8,000 PSI	22.0 gr / 8,800 PSI	23.0 gr / 10,500 PSI
7/8 oz	Internat'l	Fed. 209A	WAA12L	22.3 gr / 7,500 PSI	23.2 gr / 8,300 PSI	24.5 gr / 9,300 PSI	25.7 gr / 10,000 PSI
7/8 oz	Internat'l	Win. 209	WAA12L	23.5 gr / 7,500 PSI	24.3 gr / 7,900 PSI	25.5 gr / 9,100 PSI	27.0 gr / 10,600 PSI
1325 fps 1400 fps							
7/8 oz	WST	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
1150 fps 1200 fps 1250 fps 1300 fps							
24 gm	700-X	Fed. 209A	Fed. 12SO	16.0 gr / 5,500 PSI	17.0 gr / 6,200 PSI	18.0 gr / 6,800 PSI	19.5 gr / 7,800 PSI
24 gm	700-X	Fed. 209A	Rem. TGT12	15.5 gr / 5,000 PSI	16.5 gr / 5,700 PSI	17.5 gr / 6,200 PSI	19.5 gr / 7,100 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	Fed. 12SO	16.5 gr / 4,800 PSI	17.5 gr / 5,300 PSI	18.5 gr / 6,000 PSI	20.5 gr / 7,300 PSI
24 gm	700-X	Rem. 209P	Rem. TGT12	16.0 gr / 4,200 PSI	17.0 gr / 4,800 PSI	18.5 gr / 5,700 PSI	21.0 gr / 6,500 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	Rem. TGT12	15.5 gr / 5,200 PSI	16.5 gr / 5,800 PSI	17.5 gr / 6,400 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
24 gm	PB	Fed. 209A	Fed. 12S3	20.0 gr / 5,200 PSI	21.0 gr / 5,600 PSI	22.5 gr / 6,300 PSI	24.0 gr / 7,000 PSI
24 gm	PB	Fed. 209A	Rem. TGT12	20.0 gr / 4,700 PSI	21.5 gr / 5,300 PSI	23.0 gr / 6,000 PSI	24.5 gr / 6,700 PSI
24 gm	PB	Fed. 209A	WAA12SL	20.0 gr / 5,000 PSI	21.0 gr / 5,300 PSI	22.5 gr / 5,900 PSI	24.5 gr / 6,600 PSI
24 gm	PB	Rem. 209P	Fed. 12S3	21.0 gr / 4,700 PSI	22.0 gr / 5,100 PSI	23.0 gr / 5,600 PSI	25.0 gr / 6,600 PSI
1150 fps 1200 fps 1250 fps 1325 fps							
24 gm	PB	Rem. 209P	Rem. TGT12	21.0 gr / 3,900 PSI	22.5 gr / 4,500 PSI	24.0 gr / 5,200 PSI	25.5 gr / 6,000 PSI
24 gm	PB	Rem. 209P	WAA12SL	21.0 gr / 3,900 PSI	22.5 gr / 4,400 PSI	24.0 gr / 5,100 PSI	25.5 gr / 5,700 PSI
24 gm	PB	Win. 209	Fed. 12S3	20.5 gr / 4,800 PSI	22.0 gr / 5,600 PSI	23.0 gr / 6,100 PSI	24.5 gr / 6,900 PSI
24 gm	PB	Win. 209	Rem. TGT12	20.5 gr / 4,500 PSI	22.0 gr / 5,000 PSI	23.5 gr / 5,700 PSI	25.0 gr / 6,300 PSI
24 gm	PB	Win. 209	WAA12SL	20.5 gr / 4,300 PSI	21.5 gr / 4,800 PSI	23.0 gr / 5,400 PSI	25.0 gr / 6,200 PSI
24 gm	SR 7625	Fed. 209A	Fed. 12SO	23.5 gr / 3,800 PSI	25.0 gr / 4,300 PSI	26.5 gr / 4,900 PSI	28.0 gr / 5,400 PSI
24 gm	SR 7625	Fed. 209A	Rem. TGT12	24.0 gr / 3,700 PSI	25.0 gr / 4,000 PSI	26.5 gr / 4,600 PSI	28.5 gr / 5,400 PSI

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
12 GA., 2 3/4", FEDERAL GOLD MEDAL PLASTIC SHELLS (CONT.)							
				1150 fps	1200 fps	1250 fps	1450 fps
24 gm	SR 7625	Fed. 209A	WAA12SL	23.5 gr/ 3,800 PSI	24.5 gr/ 4,200 PSI	25.5 gr/ 4,800 PSI	27.0 gr/ 5,600 PSI
24 gm	SR 7625	Win. 209	Fed. 12SO	24.5 gr/ 3,700 PSI	25.5 gr/ 4,000 PSI	27.0 gr/ 4,500 PSI	29.0 gr/ 5,200 PSI
24 gm	SR 7625	Win. 209	Rem. TGT12	24.5 gr/ 3,500 PSI	25.5 gr/ 3,700 PSI	27.0 gr/ 4,200 PSI	29.0 gr/ 4,900 PSI
24 gm	SR 7625	Win. 209	WAA12SL	24.5 gr/ 3,500 PS	25.5 gr/ 3,800 PSI	27.0 gr/ 4,600 PSI	28.5 gr/ 5,400 PSI
				1180 fps	1235 fps	1290 fps	1345 fps
1 oz	Titewad	CCI 209	WAA12L	17.2 gr/ 7,900 PSI	18.5 gr/ 9,200 PSI	19.8 gr/ 10,400 PSI	21.1 gr/11,300 PSI
1 oz	Titewad	Fed. 209A	Fed. 12SO	17.8 gr/ 7,100 PSI	19.3 gr/ 8,500 PSI	20.8 gr/ 9,600 PSI	21.7 gr/11,300 PSI
1 oz	Titewad	Fed. 209A	Rem. TGT 12	17.0 gr/ 7,500 PSI	18.4 gr/ 8,700 PSI	19.7 gr/ 9,800 PSI	21.0 gr/11,000 PSI
1 oz	Titewad	Win. 209	Fed. 12SO	18.0 gr/ 7,100 PSI	19.1 gr/ 8,600 PSI	20.3 gr/ 10,300 PSI	22.0 gr/11,300 PSI
1 oz	Titewad	Win. 209	WAA12L	17.4 gr/ 7,500 PSI	18.7 gr/ 8,400 PSI	20.2 gr/ 9,700 PSI	21.7 gr/11,300 PSI
				1125 fps	1180 fps	1235 fps	1290 fps
1 oz	Clays	Fed. 209A	Fed. 12SO	16.8 gr/ 6,700 PSI	17.9 gr/ 7,700 PSI	19.3 gr/ 9,200 PSI	20.3 gr/10,800 PSI
1 oz	Clays	Rem. 209P	Rem. TGT 12	18.2 gr/ 5,900 LUP	19.2 gr/ 6,300 LUP	20.2 gr/ 6,800 LUP	21.2 gr/ 7,300 LUP
1 oz	Clays	Win. 209	WAA12SL	17.2 gr/ 6,200 LUP	18.2 gr/ 7,000 LUP	19.1 gr/ 7,600 LUP	20.0 gr/ 8,300 LUP
				1235 fps	1290 fps	1345 fps	1400 fps
1 oz	Internat'l	CCI 209	WAA12SL	21.5 gr/ 7,300 PSI	22.3 gr/ 8,000 PSI	23.5 gr/ 9,100 PSI	24.7 gr/10,200 PSI
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	Fed. 209A	WAA12SL	19.7 gr/ 7,700 PSI	21.0 gr/ 9,100 PSI	22.3 gr/ 10,500 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
				1100 fps	1150 fps	1200 fps	1250 fps
1 oz	700-X	Fed. 209A	Fed. 12SO	15.0 gr/ 6,100 PSI	16.0 gr/ 6,700 PSI	17.0 gr/ 7,300 PSI	18.5 gr/ 8,200 PSI
1 oz	700-X	Fed. 209A	Rem. TGT12	15.0 gr/ 5,900 PSI	16.0 gr/ 6,500 PSI	17.0 gr/ 7,100 PSI	18.5 gr/ 8,100 PSI
1 oz	700-X	Fed. 209A	WAA12SL	15.0 gr/ 6,000 PSI	16.0 gr/ 6,900 PSI	17.0 gr/ 7,600 PSI	18.5 gr/ 8,500 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
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
1 oz	PB	Fed. 209A	Fed. 12S3	19.5 gr/ 5,400 PSI	20.5 gr/ 5,900 PSI	22.0 gr/ 6,700 PSI	23.0 gr/ 7,100 PSI
1 oz	PB	Fed. 209A	Rem. TGT12	19.5 gr/ 5,100 PSI	20.5 gr/ 5,500 PSI	22.0 gr/ 6,200 PSI	24.0 gr/ 6,800 PSI
1 oz	PB	Fed. 209A	WAA12SL	18.0 gr/ 6,000 PSI	19.5 gr/ 6,600 PSI	21.0 gr/ 7,100 PSI	22.5 gr/ 7,600 PSI
1 oz	PB	Rem. 209P	Fed. 12S3	20.0 gr/ 5,200 PSI	21.0 gr/ 5,700 PSI	22.5 gr/ 6,600 PSI	23.5 gr/ 7,200 PSI
1 oz	PB	Rem. 209P	Rem. TGT12	20.5 gr/ 4,300 PSI	22.0 gr/ 5,200 PSI	23.0 gr/ 5,700 PSI	24.0 gr/ 6,300 PSI
1 oz	PB	Rem. 209P	WAA12SL	20.0 gr/ 4,700 PSI	21.5 gr/ 5,300 PSI	22.5 gr/ 5,800 PSI	24.0 gr/ 6,600 PSI
1 oz	PB	Win. 209	Fed. 12S3	19.5 gr/ 5,100 PSI	21.0 gr/ 5,800 PSI	22.5 gr/ 6,500 PSI	23.5 gr/ 6,900 PSI
1 oz	PB	Win. 209	Rem. TGT12	20.0 gr/ 5,300 PSI	21.0 gr/ 5,900 PSI	22.0 gr/ 6,500 PSI	23.5 gr/ 7,000 PSI
1 oz	PB	Win. 209	WAA12SL	19.5 gr/ 4,900 PSI	21.0 gr/ 5,400 PSI	22.5 gr/ 6,000 PSI	24.0 gr/ 6,700 PSI
1 oz	SR 7625	Fed. 209A	Fed. 12S3	22.0 gr/ 4,500 PSI	23.5 gr/ 5,400 PSI	24.5 gr/ 6,000 PSI	25.5 gr/ 6,600 PSI
1 oz	SR 7625	Fed. 209A	Rem. TGT12	22.0 gr/ 4,200 PSI	23.0 gr/ 4,800 PSI	24.0 gr/ 5,500 PSI	25.5 gr/ 6,200 PSI
1 oz	SR 7625	Fed. 209A	WAA12SL	22.5 gr/ 4,600 PSI	23.5 gr/ 5,200 PSI	24.5 gr/ 5,900 PSI	25.5 gr/ 6,600 PSI

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
12 GA., 2 3/4", FEDERAL GOLD MEDAL PLASTIC SHELLS (CONT.)							
				1100 fps	1150 fps	1200 fps	1250 fps
1 oz	SR 7625	Win. 209	Fed. 12S3	21.5 gr/ 4,700 PSI	22.5 gr/ 5,200 PSI	24.0 gr/ 5,900 PSI	25.5 gr/ 6,600 PSI
1 oz	SR 7625	Win. 209	Rem. TGT12	22.5 gr/ 4,300 PSI	23.5 gr/ 4,700 PSI	25.0 gr/ 5,400 PSI	26.0 gr/ 5,900 PSI
1 oz	SR 7625	Win. 209	WAA12SL	22.5 gr/ 4,600 PSI	23.5 gr/ 4,900 PSI	25.0 gr/ 5,300 PSI	26.0 gr/ 5,600 PSI
				970 fps	1025 fps	1070 fps	1125 fps
1 oz	WAA1ite	Ched. 209	Fed. 12SO	—	14.3 gr/ 5,400 PSI	14.9 gr/ 6,100 PSI	15.7 gr/ 6,900 PSI
1 oz	WAA1ite	Ched. 209	WAA12L	—	13.9 gr/ 5,400 PSI	14.8 gr/ 6,100 PSI	15.7 gr/ 6,800 PSI
1 oz	WAA1ite	Fed. 209A	Fed. 12SO	13.2 gr/ 4,800 PSI	14.2 gr/ 5,900 PSI	14.9 gr/ 6,600 PSI	15.8 gr/ 7,500 PSI
1 oz	WAA1ite	Fed. 209A	WAA12L	12.9 gr/ 4,800 PSI	13.8 gr/ 5,900 PSI	14.5 gr/ 6,700 PSI	15.3 gr/ 7,700 PSI
1 oz	WAA1ite	Rem. 209P	Fed. 12SO	—	13.2 gr/ 5,300 PSI	15.1 gr/ 6,100 PSI	16.3 gr/ 6,900 PSI
1 oz	WAA1ite	Rem. 209P	WAA12L	—	14.7 gr/ 4,900 PSI	15.4 gr/ 5,600 PSI	16.2 gr/ 6,500 PSI
1 oz	WAA1ite	Win. 209	Fed. 12SO	—	14.9 gr/ 5,200 PSI	15.7 gr/ 6,000 PSI	16.5 gr/ 6,800 PSI
1 oz	WAA1ite	Win. 209	WAA12L	—	14.6 gr/ 4,600 PSI	15.1 gr/ 5,300 PSI	15.8 gr/ 6,200 PSI
				1180 fps	1235 fps	1290 fps	
1 oz	WST	CCI 209	Fed. 12SO	—	21.0 gr/ 8,500 PSI	22.5 gr/ 9,500 PSI	
1 oz	WST	Win. 209	Fed. 12SO	20.5 gr/ 7,400 PSI	22.0 gr/ 8,500 PSI	23.0 gr/ 9,300 PSI	
				1180 fps	1235 fps	1290 fps	1345 fps
1 oz	Super Hcp	Ched. 209	WAA12L	19.6 gr/ 5,500 PSI	20.8 gr/ 6,500 PSI	22.0 gr/ 7,500 PSI	23.3 gr/ 8,500 PSI
1 oz	Super Hcp	Fed. 209A	WAA12L	19.5 gr/ 5,700 PSI	20.9 gr/ 6,600 PSI	22.3 gr/ 7,500 PSI	23.8 gr/ 8,600 PSI
1 oz	Super Hcp	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
				1090 fps	1145 fps	1200 fps	1255 fps
1 1/8 oz	Titewad	Ched. 209	Rem. Fig. 8	15.4 gr/ 8,800 PSI	16.7 gr/ 9,900 PSI	18.1 gr/ 11,100 PSI	—
1 1/8 oz	Titewad	Ched. 209	Windjammer	16.0 gr/ 8,100 PSI	17.2 gr/ 9,400 PSI	18.5 gr/ 10,900 PSI	—
1 1/8 oz	Titewad	CCI 209M	G/BP CS12	14.9 gr/ 9,800 PSI	15.9 gr/ 10,800 PSI	—	—
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	Ched. 209	Fed. 12S3	16.8 gr/ 8,000 PSI	18.0 gr/ 9,500 PSI	19.2 gr/ 10,900 PSI	—
1 1/8 oz	Clays	Ched. 209	Rem. Fig. 8	16.5 gr/ 7,600 PSI	17.9 gr/ 9,000 PSI	19.3 gr/ 10,500 PSI	—
1 1/8 oz	Clays	Ched. 209	Windjammer	16.9 gr/ 7,000 PSI	18.2 gr/ 8,400 PSI	19.5 gr/ 9,900 PSI	20.9 gr/11,400 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	—
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	Fed. 209A	Windjammer	16.5 gr/ 7,400 PSI	17.6 gr/ 8,700 PSI	18.8 gr/ 10,100 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
1 1/8 oz	Clays	Win. 209	G/BP PISK	16.6 gr/ 8,800 PSI	17.7 gr/ 10,100 PSI	18.8 gr/ 11,300 PSI	—
1 1/8 oz	Clays	Win. 209	Windjammer	17.3 gr/ 6,300 LUP	18.3 gr/ 7,200 LUP	19.4 gr/ 8,100 LUP	—
1 1/8 oz	Internat'l	Ched. 209	Fed. 12S3	18.2 gr/ 7,300 PSI	19.4 gr/ 8,300 PSI	20.6 gr/ 9,400 PSI	21.8 gr/10,500 PSI
1 1/8 oz	Internat'l	Ched. 209	Rem. Fig. 8	17.9 gr/ 6,800 PSI	19.3 gr/ 7,900 PSI	21.0 gr/ 9,300 PSI	22.0 gr/10,100 PSI
1 1/8 oz	Internat'l	Ched. 209	Windjammer	18.3 gr/ 6,700 PSI	19.5 gr/ 7,800 PSI	20.8 gr/ 9,000 PSI	22.0 gr/10,000 PSI
1 1/8 oz	Internat'l	CCI 209M	Rem. TGT 12	19.5 gr/ 6,800 LUP	20.6 gr/ 7,000 LUP	20.6 gr/ 7,800 LUP	22.5 gr/ 8,600 LUP
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

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
12 GA., 2 3/4", FEDERAL GOLD MEDAL PLASTIC SHELLS (CONT.)							
				1090 fps	1145 fps	1200 fps	1255 fps
1 1/8 oz	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	Fed. 209A	Windjammer	19.0 gr/ 6,200 PSI	19.5 gr/ 6,500 PSI	20.8 gr/ 8,000 PSI	22.5 gr/ 9,200 PSI
1 1/8 oz	Internat'l	Rem. 209P	G/BP CS12	—	18.8 gr/ 8,100 PSI	20.0 gr/ 9,100 PSI	21.2 gr/10,500 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
1 1/8 oz	Internat'l	Win. 209	Windjammer	—	19.5 gr/ 7,000 PSI	20.8 gr/ 8,000 PSI	22.2 gr/ 9,000 PSI
				1200 fps	1255 fps	1310 fps	
1 1/8 oz	Universal	CCI 209	Windjammer	25.2 gr/ 7,300 PSI	26.5 gr/ 8,200 PSI	28.0 gr/ 8,800 PSI	
1 1/8 oz	Universal	Fed. 209A	Fed. 12S3	23.0 gr/ 8,700 PSI	24.4 gr/ 9,600 PSI	25.7 gr/ 10,500 PSI	
1 1/8 oz	Universal	Win. 209	Rem. Fig. 8	24.0 gr/ 8,000 PSI	25.0 gr/ 8,700 PSI	26.8 gr/ 9,500 PSI	
1 1/8 oz	Universal	Win. 209	WAA12	23.2 gr/ 8,800 PSI	24.5 gr/ 9,700 PSI	25.0 gr/ 10,400 PSI	
				1420 fps	1475 fps	1530 fps	1585 fps
1 1/8 oz.	Longshot	CCI 209M	Fed. 12S3	32.2 gr/ 8,400 PSI	33.6 gr/ 9,500 PSI	34.9 gr/ 10,600 PSI	—
1 1/8 oz.	Longshot	CCI 209M	Rem. Fig. 8	32.2 gr/ 8,500 PSI	33.8 gr/ 9,400 PSI	35.5 gr/ 10,400 PSI	37.1 gr/ 11,400PSI
1 1/8 oz.	Longshot	CCI 209M	WAA12	31.4 gr/ 8,800 PSI	33.2 gr/ 9,500 PSI	35.0 gr/ 10,300 PSI	36.8 gr/ 11,000PSI
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/ 11,400PSI
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	Fed. 209A	Windjammer	32.3 gr/ 8,200 PSI	33.9 gr/ 9,200 PSI	35.5 gr/ 10,200 PSI	37.1 gr/ 11,200 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	—
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	Rem. 209P	Windjammer	32.9 gr/ 7,900 PSI	34.4 gr/ 8,800 PSI	35.9 gr/ 9,600 PSI	37.5 gr/ 10,500 PSI
1 1/8 oz.	Longshot	Win. 209	Fed. 12S3	34.2 gr/ 7,100 PSI	35.5 gr/ 8,200 PSI	36.8 gr/ 9,400 PSI	38.1 gr/ 10,600 PSI
1 1/8 oz.	Longshot	Win. 209	Rem. Fig. 8	34.9 gr/ 7,100 PSI	36.0 gr/ 8,100 PSI	37.1 gr/ 9,100 PSI	38.2 gr/ 10,000 PSI
1 1/8 oz.	Longshot	Win. 209	WAA12	34.0 gr/ 7,600 PSI	35.2 gr/ 8,500 PSI	36.4 gr/ 9,400 PSI	37.8 gr/ 10,400 PSI
1 1/8 oz.	Longshot	Win. 209	Windjammer	35.0 gr/ 7,100 PSI	36.2 gr/ 8,000 PSI	37.4 gr/ 8,900 PSI	38.5 gr/ 10,100 PSI
				1100 fps	1150 fps	1200 fps	1250 fps
1 1/8 oz	700-X	Fed. 209A	Fed. 12S3	16.0 gr/ 7,900 PSI	17.0 gr/ 8,600 PSI	18.5 gr/ 9,500 PSI	20.0 gr/10,400 PSI
1 1/8 oz	700-X	Fed. 209A	Rem. TGT12	16.0 gr/ 7,400 PSI	17.0 gr/ 8,200 PSI	18.0 gr/ 9,100 PSI	19.5 gr/10,500 PSI
1 1/8 oz	700-X	Fed. 209A	WAA12SL	16.0 gr/ 7,900 PSI	17.0 gr/ 8,700 PSI	18.0 gr/ 9,500 PSI	19.5 gr/10,600 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	Rem. 209P	Rem. TGT12	16.0 gr/ 6,900 PSI	17.5 gr/ 7,800 PSI	18.5 gr/ 8,500 PSI	20.0 gr/ 9,500 PSI
1 1/8 oz	700-X	Rem. 209P	WAA12SL	16.5 gr/ 7,500 PSI	17.5 gr/ 8,200 PSI	18.5 gr/ 8,700 PSI	20.0 gr/ 9,500 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
1 1/8 oz	700-X	Win. 209	WAA12SL	16.0 gr/ 7,200 PSI	17.0 gr/ 7,900 PSI	18.5 gr/ 9,100 PSI	19.5 gr/ 9,900 PSI
1 1/8 oz	PB	Fed. 209A	Fed. 12S3	19.5 gr/ 6,600 PSI	21.0 gr/ 7,100 PSI	22.5 gr/ 7,600 PSI	24.0 gr/ 8,700 PSI
1 1/8 oz	PB	Fed. 209A	Rem. FIG. 8	20.0 gr/ 6,000 PSI	21.5 gr/ 6,600 PSI	23.0 gr/ 7,300 PSI	24.5 gr/ 8,000 PSI
1 1/8 oz	PB	Fed. 209A	WAA12	19.5 gr/ 6,100 PSI	21.0 gr/ 7,000 PSI	22.5 gr/ 7,900 PSI	24.0 gr/ 8,800 PSI
1 1/8 oz	PB	Fed. 209A	Windjammer	20.5 gr/ 5,900 PSI	21.5 gr/ 6,400 PSI	23.0 gr/ 7,200 PSI	24.0 gr/ 7,800 PSI
1 1/8 oz	PB	Rem. 209P	Fed. 12S3	20.5 gr/ 6,000 PSI	22.0 gr/ 6,500 PSI	23.0 gr/ 7,000 PSI	25.0 gr/ 8,400 PSI
1 1/8 oz	PB	Rem. 209P	Rem. FIG. 8	21.0 gr/ 5,500 PSI	22.5 gr/ 6,100 PSI	23.5 gr/ 6,600 PSI	25.0 gr/ 7,500 PSI
1 1/8 oz	PB	Rem. 209P	WAA12SL	20.5 gr/ 5,700 PSI	21.5 gr/ 6,400 PSI	23.0 gr/ 7,300 PSI	25.0 gr/ 8,000 PSI

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
12 GA., 2 3/4", FEDERAL GOLD MEDAL PLASTIC SHELLS (CONT.)							
				1100 fps	1150 fps	1200 fps	1250 fps
1 1/8 oz	PB	Rem. 209P	Windjammer	21.0 gr/ 5,000 PSI	22.5 gr/ 5,900 PSI	24.0 gr/ 6,400 PSI	25.5 gr/ 6,900 PSI
1 1/8 oz	PB	Win. 209	Fed. 12S3	20.5 gr/ 6,100 PSI	22.0 gr/ 7,000 PSI	23.0 gr/ 7,600 PSI	24.5 gr/ 8,400 PSI
1 1/8 oz	PB	Win. 209	Rem. FIG. 8	21.0 gr/ 5,900 PSI	22.0 gr/ 6,300 PSI	23.5 gr/ 7,000 PSI	25.0 gr/ 7,800 PSI
1 1/8 oz	PB	Win. 209	WAA12SL	21.0 gr/ 6,000 PSI	22.0 gr/ 6,600 PSI	23.5 gr/ 7,500 PSI	25.0 gr/ 8,200 PSI
1 1/8 oz	PB	Win. 209	Windjammer	21.0 gr/ 5,500 PSI	22.0 gr/ 6,000 PSI	23.5 gr/ 7,000 PSI	24.5 gr/ 7,700 PSI
1 1/8 oz	SR 7625	Win. 209	WAA12	22.5 gr/ 5,600 PSI	24.0 gr/ 6,200 PSI	25.0 gr/ 6,600 PSI	26.5 gr/ 7,400 PSI
1 1/8 oz	SR 7625	Win. 209	Windjammer	23.0 gr/ 4,900 PSI	24.5 gr/ 5,400 PSI	26.0 gr/ 6,200 PSI	27.0 gr/ 6,900 PSI
1 1/8 oz	SR 7625	Fed. 209A	Fed. 12S3	22.0 gr/ 5,600 PSI	23.5 gr/ 6,400 PSI	24.5 gr/ 6,900 PSI	26.5 gr/ 7,700 PSI
1 1/8 oz	SR 7625	Fed. 209A	Rem. FIG. 8	22.5 gr/ 5,300 PSI	24.0 gr/ 5,700 PSI	25.5 gr/ 6,600 PSI	26.5 gr/ 7,100 PSI
1 1/8 oz	SR 7625	Fed. 209A	WAA12	21.5 gr/ 6,100 PSI	23.0 gr/ 6,700 PSI	24.5 gr/ 7,400 PSI	26.0 gr/ 8,200 PSI
1 1/8 oz	SR 7625	Fed. 209A	Windjammer	23.0 gr/ 5,100 PSI	24.0 gr/ 5,600 PSI	25.5 gr/ 6,400 PSI	27.0 gr/ 7,400 PSI
1 1/8 oz	SR 7625	Rem. 209P	Fed. 12S3	23.0 gr/ 5,200 PSI	24.5 gr/ 6,000 PSI	25.5 gr/ 6,400 PSI	27.0 gr/ 7,400 PSI
1 1/8 oz	SR 7625	Rem. 209P	Rem. FIG. 8	24.0 gr/ 5,000 PSI	25.5 gr/ 5,700 PSI	27.0 gr/ 6,000 PSI	28.5 gr/ 6,300 PSI
1 1/8 oz	SR 7625	Rem. 209P	WAA12	22.0 gr/ 5,600 PSI	23.5 gr/ 6,000 PSI	25.5 gr/ 6,600 PSI	27.5 gr/ 7,200 PSI
1 1/8 oz	SR 7625	Rem. 209P	Windjammer	24.0 gr/ 4,300 PSI	25.5 gr/ 4,700 PSI	27.0 gr/ 5,400 PSI	28.5 gr/ 6,100 PSI
1 1/8 oz	SR 7625	Win. 209	Fed. 12S3	23.0 gr/ 5,400 PSI	24.5 gr/ 6,200 PSI	25.5 gr/ 6,700 PSI	27.0 gr/ 7,500 PSI
1 1/8 oz	SR 7625	Win. 209	Rem. FIG. 8	23.0 gr/ 5,200 PSI	24.5 gr/ 5,800 PSI	25.5 gr/ 6,300 PSI	27.0 gr/ 7,100 PSI
1 1/8 oz	800-X	CCI 209	Fed. 12S3	21.0 gr/ 5,800 PSI	22.5 gr/ 6,400 PSI	24.0 gr/ 6,800 PSI	26.0 gr/ 7,300 PSI
1 1/8 oz	800-X	CCI 209	Rem. FIG. 8	21.0 gr/ 5,500 PSI	22.5 gr/ 5,900 PSI	24.0 gr/ 6,300 PSI	26.0 gr/ 6,900 PSI
1 1/8 oz	800-X	CCI 209	WAA12	21.5 gr/ 5,200 PSI	22.5 gr/ 5,600 PSI	24.0 gr/ 6,300 PSI	25.5 gr/ 7,100 PSI
1 1/8 oz	800-X	CCI 209	Windjammer	22.5 gr/ 4,200 PSI	23.5 gr/ 4,800 PSI	25.0 gr/ 5,700 PSI	26.0 gr/ 6,300 PSI
1 1/8 oz	800-X	Fed. 209A	Fed. 12S3	20.5 gr/ 5,700 PSI	22.0 gr/ 6,400 PSI	23.0 gr/ 6,900 PSI	25.0 gr/ 7,700 PSI
1 1/8 oz	800-X	Fed. 209A	Rem. FIG. 8	21.0 gr/ 5,400 PSI	22.5 gr/ 6,000 PSI	24.0 gr/ 6,600 PSI	25.5 gr/ 7,100 PSI
1 1/8 oz	800-X	Fed. 209A	WAA12	20.5 gr/ 5,800 PSI	21.5 gr/ 6,300 PSI	23.0 gr/ 7,000 PSI	24.5 gr/ 7,700 PSI
1 1/8 oz	800-X	Fed. 209A	Windjammer	22.0 gr/ 4,900 PSI	23.0 gr/ 5,400 PSI	24.0 gr/ 5,900 PSI	25.5 gr/ 6,700 PSI
1 1/8 oz	800-X	Win. 209	Fed. 12S3	20.5 gr/ 5,700 PSI	22.0 gr/ 6,300 PSI	23.0 gr/ 6,800 PSI	24.5 gr/ 7,500 PSI
1 1/8 oz	800-X	Win. 209	Rem. FIG. 8	21.0 gr/ 5,400 PSI	22.0 gr/ 5,900 PSI	23.5 gr/ 6,500 PSI	25.0 gr/ 7,100 PSI
1 1/8 oz	800-X	Win. 209	WAA12	20.5 gr/ 5,800 PSI	21.5 gr/ 6,300 PSI	23.0 gr/ 7,000 PSI	25.0 gr/ 7,700 PSI
1 1/8 oz	800-X	Win. 209	Windjammer	22.0 gr/ 4,900 PSI	23.0 gr/ 5,400 PSI	24.0 gr/ 5,900 PSI	25.5 gr/ 6,700 PSI
				980 fps	1035 fps	1090 fps	1145 fps
1 1/8 oz	WAALite	Ched. 209	Fed. 12SO	13.6 gr/ 6,500 PSI	14.8 gr/ 7,700 PSI	15.9 gr/ 8,900 PSI	17.0 gr/10,300 PSI
1 1/8 oz	WAALite	Ched. 209	J-XL-1	—	14.6 gr/ 7,000 PSI	15.6 gr/ 8,400 PSI	17.0 gr/10,100 PSI
1 1/8 oz	WAALite	Ched. 209	Rem. TGT12	13.8 gr/ 6,400 PSI	14.7 gr/ 7,400 PSI	15.6 gr/ 8,500 PSI	17.0 gr/10,000 PSI
1 1/8 oz	WAALite	Ched. 209	WAA12SL	13.6 gr/ 6,400 PSI	14.5 gr/ 7,300 PSI	15.5 gr/ 8,300 PSI	16.9 gr/ 9,800 PSI
1 1/8 oz	WAALite	Fed. 209A	Fed. 12SO	13.6 gr/ 6,600 PSI	14.9 gr/ 7,800 PSI	16.1 gr/ 8,800 PSI	17.2 gr/ 9,800 PSI
1 1/8 oz	WAALite	Fed. 209A	J-XL-1	—	14.5 gr/ 7,300 PSI	15.5 gr/ 8,600 PSI	17.0 gr/ 9,600 PSI
1 1/8 oz	WAALite	Fed. 209A	Rem. TGT12	—	14.8 gr/ 7,700 PSI	15.9 gr/ 8,900 PSI	16.8 gr/10,000 PSI
1 1/8 oz	WAALite	Fed. 209A	WAA12SL	13.1 gr/ 6,500 PSI	14.3 gr/ 7,600 PSI	15.5 gr/ 8,700 PSI	16.7 gr/ 9,900 PSI
1 1/8 oz	WAALite	Rem. 209P	Fed. 12SO	13.8 gr/ 6,100 PSI	14.9 gr/ 7,200 PSI	15.9 gr/ 8,200 PSI	17.0 gr/ 9,200 PSI
1 1/8 oz	WAALite	Rem. 209P	J-XL-1	14.0 gr/ 5,500 PSI	15.0 gr/ 6,500 PSI	16.2 gr/ 7,800 PSI	17.1 gr/ 8,800 PSI
1 1/8 oz	WAALite	Rem. 209P	Rem. TGT12	14.0 gr/ 5,900 PSI	15.1 gr/ 7,200 PSI	16.2 gr/ 8,600 PSI	17.0 gr/ 9,600 PSI
1 1/8 oz	WAALite	Rem. 209P	WAA12SL	14.1 gr/ 5,400 PSI	15.2 gr/ 6,700 PSI	16.2 gr/ 7,900 PSI	17.2 gr/ 9,100 PSI
1 1/8 oz	WAALite	Win. 209	Fed. 12SO	14.0 gr/ 5,800 PSI	15.1 gr/ 7,100 PSI	16.1 gr/ 8,300 PSI	17.2 gr/ 9,600 PSI
1 1/8 oz	WAALite	Win. 209	J-XL-1	13.8 gr/ 5,900 PSI	14.9 gr/ 7,000 PSI	15.8 gr/ 7,900 PSI	16.9 gr/ 9,000 PSI

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
12 GA., 2 3/4", FEDERAL GOLD MEDAL PLASTIC SHELLS (CONT.)							
				980 fps	1035 fps	1090 fps	1145 fps
1 1/8 oz	WAA12SL	Win. 209	WAA12SL	13.5 gr / 6,000 PSI	14.7 gr / 7,000 PSI	15.8 gr / 8,400 PSI	17.0 gr / 9,900 PSI
				1145 fps	1200 fps	1255 fps	1310 fps
1 1/8 oz	WST	CCI 209	Fed. 12S3	19.5 gr / 8,500 PSI	21.0 gr / 10,300 PSI	—	—
1 1/8 oz	WST	Win. 209	Fed. 12S3	—	21.0 gr / 9,500 PSI	—	—
1 1/8 oz	Super Hcp	Ched. 209	Fed. 12SO	19.4 gr / 6,400 PSI	20.9 gr / 7,800 PSI	23.4 gr / 10,200 PSI	23.8 gr / 10,600 PSI
1 1/8 oz	Super Hcp	Ched. 209	Rem. TGT12	—	20.5 gr / 7,000 PSI	22.0 gr / 8,100 PSI	23.5 gr / 9,200 PSI
1 1/8 oz	Super Hcp	Ched. 209	WAA12SL	—	21.1 gr / 6,900 PSI	22.3 gr / 8,200 PSI	23.6 gr / 9,700 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	Fed. 209A	Rem. TGT12	—	21.0 gr / 7,400 PSI	22.2 gr / 8,500 PSI	23.8 gr / 10,000 PSI
1 1/8 oz	Super Hcp	Fed. 209A	WAA12SL	19.0 gr / 6,600 PSI	20.5 gr / 7,800 PSI	22.0 gr / 8,900 PSI	23.6 gr / 10,200 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	Rem. 209P	WAA12SL	19.6 gr / 5,800 PSI	21.2 gr / 7,000 PSI	22.8 gr / 8,200 PSI	24.4 gr / 9,400 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
1 1/8 oz	Super Hcp	Win. 209	WAA12SL	19.7 gr / 5,800 PSI	21.4 gr / 7,100 PSI	23.0 gr / 8,300 PSI	24.6 gr / 9,500 PSI
				1220 fps	1330 fps		
1 1/4 oz	Universal	CCI 209	Fed. 12S4	25.0 gr / 10,100 PSI	—		
1 1/4 oz	Universal	Fed. 209A	Fed. 12S4	23.3 gr / 10,400 PSI	—		
1 1/4 oz	Universal	Fio. 616	Rem. SP12	24.7 gr / 9,200 PSI	—		
1 1/4 oz	Universal	Win. 209	WAA12 F114	24.5 gr / 10,300 PSI	—		
1 1/4 oz	HS-6	Win. 209	WAA12F114	32.0 gr / 9,600 LUP	34.5 gr / 10,100 LUP		
				1330 fps	1385 fps	1440 fps	1495 fps
1 1/4 oz	Longshot	CCI 209 M	Fed. 12S3	29.5 gr / 10,200 PSI	30.6 gr / 10,900 PSI	—	—
1 1/4 oz	Longshot	CCI 209M	Rem. R12L	29.8 gr / 8,700 PSI	31.5 gr / 9,500 PSI	33.2 gr / 10,400 PSI	—
1 1/4 oz	Longshot	CCI 209M	WAA12F114	29.2 gr / 9,000 PSI	30.6 gr / 9,900 PSI	32.0 gr / 10,900 PSI	—
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	Fed. 209A	WAA12F114	28.2 gr / 9,900 PSI	29.9 gr / 10,900 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	Rem. 209P	Rem. R12L	29.1 gr / 8,800 PSI	31.1 gr / 9,700 PSI	33.0 gr / 10,500 PSI	—
1 1/4 oz	Longshot	Rem. 209P	WAA12F114	28.3 gr / 9,200 PSI	30.3 gr / 10,100 PSI	32.4 gr / 11,000 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
				1250 fps	1275 fps	1300 fps	1325 fps
1 1/4 oz	PB	Fed. 209A	Fed. 12S4	23.5 gr / 10,500 PSI	25.0 gr / 11,300 PSI	—	—
1 1/4 oz	PB	Fed. 209A	Rem. FIG. 8	—	25.5 gr / 10,500 PSI	—	27.0 gr / 11,500 PSI
1 1/4 oz	PB	Rem. 209P	Fed. 12S4	—	—	26.5 gr / 10,000 PSI	28.0 gr / 11,100 PSI
1 1/4 oz	PB	Rem. 209P	Rem. SP12	—	27.5 gr / 9,200 PSI	—	29.0 gr / 10,500 PSI
1 1/4 oz	PB	Win. 209	Fed. 12S4	—	26.0 gr / 10,800 PSI	—	27.5 gr / 11,500 PSI

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
12 GA., 2 3/4", FEDERAL GOLD MEDAL PLASTIC SHELLS (CONT.)							
				1250 fps	1275 fps	1300 fps	1325 fps
1 1/4 oz	PB	Win. 209	Rem. SP12	—	26.5 gr / 9,800 PSI	—	28.0 gr / 10,600 PSI
1 1/4 oz	SR 7625	Fed. 209A	Fed. 12S3	—	27.0 gr / 10,100 PSI	—	29.0 gr / 11,000 PSI
1 1/4 oz	SR 7625	Fed. 209A	Rem. SP12	—	27.0 gr / 10,000 PSI	—	28.5 gr / 11,000 PSI
1 1/4 oz	SR 7625	Fed. 209A	WAA12	—	27.0 gr / 10,100 PSI	—	28.5 gr / 11,400 PSI
1 1/4 oz	SR 7625	Rem. 209P	Fed. 12S3	—	28.0 gr / 8,900 PSI	—	30.0 gr / 9,700 PSI
1 1/4 oz	SR 7625	Rem. 209P	Rem. SP12	—	29.0 gr / 8,200 PSI	—	30.5 gr / 8,900 PSI
1 1/4 oz	SR 7625	Rem. 209P	Windjammer	—	29.0 gr / 8,300 PSI	—	30.5 gr / 9,000 PSI
1 1/4 oz	SR 7625	Win. 209	Fed. 12S3	—	28.0 gr / 9,200 PSI	—	30.0 gr / 10,300 PSI
1 1/4 oz	SR 7625	Win. 209	WAA12	—	28.0 gr / 9,100 PSI	—	29.5 gr / 10,200 PSI
1 1/4 oz	SR 7625	Win. 209	Windjammer	—	28.5 gr / 8,300 PSI	—	30.0 gr / 9,000 PSI
1 1/4 oz	SR 4756	Fed. 209A	Fed. 12S4	—	30.0 gr / 9,700 PSI	—	31.5 gr / 10,400 PSI
1 1/4 oz	SR 4756	Fed. 209A	Rem. SP12	—	30.0 gr / 9,000 PSI	—	31.5 gr / 9,800 PSI
1 1/4 oz	SR 4756	Fed. 209A	WAA12R	—	30.5 gr / 8,900 PSI	—	31.5 gr / 9,700 PSI
1 1/4 oz	SR 4756	Rem. 209P	Fed. 12S4	—	33.0 gr / 7,600 PSI	—	—
1 1/4 oz	SR 4756	Rem. 209P	WAA12R	—	33.0 gr / 8,000 PSI	—	34.0 gr / 8,900 PSI
1 1/4 oz	SR 4756	Win. 209	Fed. 12S4	—	31.0 gr / 9,100 PSI	—	32.0 gr / 9,800 PSI
1 1/4 oz	SR 4756	Win. 209	Rem. RP12	—	32.0 gr / 8,800 PSI	—	33.0 gr / 9,400 PSI
1 1/4 oz	SR 4756	Win. 209	WAA12R	—	30.5 gr / 8,400 PSI	—	32.0 gr / 8,900 PSI
1 1/4 oz	800-X	Fed. 209A	Fed. 12S4	—	25.0 gr / 9,500 PSI	—	26.5 gr / 10,400 PSI
1 1/4 oz	800-X	Fed. 209A	Rem. SP12	—	25.5 gr / 9,100 PSI	—	27.0 gr / 9,900 PSI
1 1/4 oz	800-X	Fed. 209A	WAA12	—	26.0 gr / 9,200 PSI	—	27.5 gr / 10,100 PSI
1 1/4 oz	800-X	Rem. 209P	Fed. 12S4	—	26.5 gr / 8,900 PSI	—	28.0 gr / 9,700 PSI
1 1/4 oz	800-X	Rem. 209P	Rem. SP12	—	27.0 gr / 7,700 PSI	—	29.0 gr / 8,500 PSI
1 1/4 oz	800-X	Rem. 209P	WAA12	—	27.0 gr / 7,900 PSI	—	28.5 gr / 9,000 PSI
1 1/4 oz	800-X	Win. 209	Fed. 12S3	—	26.0 gr / 8,800 PSI	—	27.5 gr / 9,700 PSI
1 1/4 oz	800-X	Win. 209	Rem. SP12	—	26.0 gr / 8,200 PSI	—	27.5 gr / 9,700 PSI
1 1/4 oz	800-X	Win. 209	WAA12	—	25.5 gr / 8,600 PSI	—	27.5 gr / 9,600 PSI
				1275 fps	1330 fps		
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	—	—
				1185 fps	1240 fps	1295 fps	1350 fps
1 3/8 oz	Longshot	CCI 209 M	Fed. 12S4	23.8 gr / 9,500 PSI	25.4 gr / 10,100 PSI	27.1 gr / 10,900 PSI	—
1 3/8 oz	Longshot	CCI 209 M	Rem. R12H	25.0 gr / 8,500 PSI	26.6 gr / 9,500 PSI	28.2 gr / 10,500 PSI	29.8 gr / 11,500 PSI
1 3/8 oz	Longshot	CCI 209 M	WAA12F114	24 gr. / 9,100 PSI	25.5 gr. / 10,300 PSI	27 gr. / 11,400 PSI	—
1 3/8 oz	Longshot	FED. 209A	Fed. 12S4	24.6 gr / 9,500 PSI	26.2 gr / 10,700 PSI	—	—
1 3/8 oz	Longshot	FED. 209A	Rem. R12H	25.7 gr / 8,600 PSI	27.3 gr / 9,500 PSI	29.0 gr / 10,400 PSI	—
1 3/8 oz	Longshot	FED. 209A	WAA12F114	24.6 gr / 9,300 PSI	26.3 gr / 10,300 PSI	28.0 gr / 11,500 PSI	—
1 3/8 oz	Longshot	REM. 209P	Fed. 12S4	24.8 gr / 8,900 PSI	26.4 gr / 10,300 PSI	27.9 gr / 11,500 PSI	—
1 3/8 oz	Longshot	REM. 209P	Rem. R12H	27.3 gr / 7,700 PSI	28.4 gr / 8,600 PSI	29.5 gr / 9,600 PSI	30.6 gr / 10,500 PSI
1 3/8 oz	Longshot	REM. 209P	WAA12F114	25.2 gr / 8,700 PSI	26.8 gr / 9,700 PSI	28.3 gr / 10,700 PSI	—
1 3/8 oz	Longshot	WIN. 209	Rem. R12H	28.7 gr / 6,900 PSI	29.6 gr / 8,000 PSI	30.6 gr / 9,200 PSI	31.6 gr / 10,400 PSI
1 3/8 oz	Longshot	WIN. 209	WAA12F114	26.5 gr / 8,400 PSI	28.1 gr / 9,100 PSI	29.8 gr / 9,900 PSI	—

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
12 GA., 2 3/4", FEDERAL GOLD MEDAL PLASTIC SHELLS (CONT.)							
				1175 fps	1200 fps	1225 fps	1250 fps
1 3/8 oz	PB	Fed. 209A	Rem. SP12	22.5 gr / 10,900 PSI	—	—	—
1 3/8 oz	PB	Fed. 209A	WAA12R	22.5 gr / 10,800 PSI	—	—	—
1 3/8 oz	PB	Rem. 209P	Rem. SP12	—	24.5 gr / 11,000 PSI	—	—
1 3/8 oz	PB	Rem. 209P	WAA12R	—	—	—	26.5 gr / 11,000 PSI
1 3/8 oz	PB	Win. 209	Rem. SP12	23.5 gr / 11,100 PSI	—	—	—
1 3/8 oz	PB	Win. 209	WAA12R	—	24.0 gr / 11,000 PSI	—	—
1 3/8 oz	SR 7625	Fed. 209A	Rem. SP12	25.0 gr / 11,200 PSI	—	—	—
1 3/8 oz	SR 7625	Fed. 209A	WAA12R	—	26.0 gr / 11,000 PSI	—	—
1 3/8 oz	SR 7625	Rem. 209P	Rem. RP12	—	—	—	28.0 gr / 11,100 PSI
1 3/8 oz	SR 7625	Rem. 209P	WAA12R	—	—	—	28.5 gr / 11,000 PSI
1 3/8 oz	SR 7625	Win. 209	Rem. SP12	—	26.5 gr / 11,200 PSI	—	—
1 3/8 oz	SR 7625	Win. 209	WAA12R	—	27.0 gr / 11,000 PSI	—	—
1 3/8 oz	SR 4756	Fed. 209A	Rem. RP12	—	—	—	30.0 gr / 10,900 PSI
				1300 fps	1325 fps	1350 fps	
1 3/8 oz	SR 4756	Fed. 209A	WAA12R	31.5 gr / 11,000 PSI	—	—	—
1 3/8 oz	SR 4756	Rem. 209P	Rem. RP12	—	—	34.5 gr / 10,900 PSI	—
1 3/8 oz	SR 4756	Rem. 209P	WAA12R	—	—	35.0 gr / 10,500 PSI	—
1 3/8 oz	SR 4756	Win. 209	Rem. RP12	—	33.0 gr / 11,200 PSI	—	—
1 3/8 oz	SR 4756	Win. 209	WAA12R	—	34.0 gr / 11,000 PSI	—	—
				1225 fps	1275 fps		
1 3/8 oz	800-X	Fed. 209A	Fed. 12S4	25.0 gr / 10,900 PSI	—	—	—
1 3/8 oz	800-X	Fed. 209A	Rem. SP12	—	26.5 gr / 11,000 PSI	—	—
1 3/8 oz	800-X	Fed. 209A	WAA12R	—	26.0 gr / 11,000 PSI	—	—
1 3/8 oz	800-X	Rem. 209P	Fed. 12S4	—	27.0 gr / 9,700 PS	—	—
				1275 fps	1325 fps	1375 fps	
1 3/8 oz	800-X	Rem. 209P	Rem. SP12	—	—	32.0 gr / 11,000 PSI	—
1 3/8 oz	800-X	Rem. 209P	WAA12R	—	—	30.5 gr / 11,000 PSI	—
1 3/8 oz	800-X	Win. 209	Fed. 12S4	26.0 gr / 11,000 PSI	—	—	—
1 3/8 oz	800-X	Win. 209	Rem. SP12	—	29.0 gr / 10,900 PSI	—	—
1 3/8 oz	800-X	Win. 209	WAA12R	—	27.5 gr / 11,000 PSI	—	—
				1205 fps	1260 fps	1315 fps	
1 1/2 oz	Longshot	Fed. 209A	Fed. 12S4	25.5 gr / 11,400 PSI	—	—	—
1 1/2 oz	Longshot	Fed. 209A	WAA12R	25.6 gr / 10,200 PSI	27.2 gr / 11,500 PSI	—	—
1 1/2 oz	Longshot	Win. 209	Fed. 12S4	26.8 gr / 10,200 PSI	28.0 gr / 11,400 PSI	—	—
1 1/2 oz	Longshot	Win. 209	WAA12R	27.2 gr / 9,000 PSI	29.1 gr / 10,200 PSI	31.0 gr / 11,500 PSI	—
				1150 fps	1175 fps	1200 fps	1225 fps
1 1/2 oz	SR 7625	Fed. 209A	Rem. RP12	25.0 gr / 11,400 PSI	—	—	—
1 1/2 oz	SR 7625	Fed. 209A	WAA12R	25.5 gr / 11,200 PSI	—	—	—
1 1/2 oz	SR 7625	Rem. 209P	Rem. RP12	—	27.5 gr / 11,100 PSI	—	—
1 1/2 oz	SR 7625	Rem. 209P	WAA12R	—	28.0 gr / 11,000 PSI	—	—
1 1/2 oz	SR 7625	Win. 209	Rem. RP12	25.5 gr / 11,000 PSI	—	—	—
1 1/2 oz	SR 7625	Win. 209	WAA12R	26.5 gr / 11,000 PSI	—	—	—
1 1/2 oz	SR 4756	Fed. 209A	Rem. RP12	—	27.5 gr / 11,000 PSI	—	—
1 1/2 oz	SR 4756	Fed. 209A	WAA12R	—	28.0 gr / 11,100 PSI	—	—

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
12 GA., 2 3/4", FEDERAL GOLD MEDAL PLASTIC SHELLS (CONT.)							
				1150 fps	1175 fps	1200 fps	1225 fps
1 1/2 oz	SR 4756	Rem. 209P	Rem. RP12	—	—	—	30.5 gr / 11,100 PSI
1 1/2 oz	SR 4756	Win. 209	Rem. RP12	—	28.5 gr / 11,000 PSI	—	—
1 1/2 oz	SR 4756	Win. 209	WAA12R	—	—	30.0 gr / 10,800 PSI	—
1 1/2 oz	800-X	Fed. 209A	Fed. 12S4	—	—	24.5 gr / 11,200 PSI	—
1 1/2 oz	800-X	Fed. 209A	Rem. SP12	—	—	—	26.5 gr / 11,000 PSI
1 1/2 oz	800-X	Fed. 209A	WAA12R	—	—	—	26.0 gr / 11,200 PSI
1 1/2 oz	800-X	Rem. 209P	Fed. 12S4	—	—	26.0 gr / 10,400 PSI	—
				1175 fps	1225 fps	1250 fps	
1 1/2 oz	800-X	Rem. 209P	Rem. RP12	—	—	28.5 gr / 11,000 PSI	—
1 1/2 oz	800-X	Win. 209	Fed. 12S4	25.0 gr / 11,000 PSI	—	—	—
1 1/2 oz	800-X	Win. 209	Rem. SP12	—	27.0 gr / 11,100 PSI	—	—
1 1/2 oz	800-X	Win. 209	WAA12R	—	—	27.0 gr / 11,000 PSI	—
12 GA., 2 3/4", FEDERAL PAPER SHELLS							
				1250 fps	1325 fps	1400 fps	1475 fps
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	—
				1250 fps	1325 fps	1400 fps	1475 fps
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 / 11,100 PSI
7/8 oz	Internat'l	CCI 209M	Fed. 12S3	—	22.4 gr / 8,000 PSI	24.0 gr / 9,300 PSI	25.7 gr / 10,600 PSI
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	—
				1180 fps	1235 fps	1290 fps	1345 fps
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	—
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	Windjammer	18.0 gr / 5,800 PSI	19.5 gr / 7,300 PSI	20.5 gr / 8,800 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	—
				1180 fps	1235 fps	1290 fps	1345 fps
1 oz	Internat'l	CCI 209M	Fed. 12C1	—	21.6 gr / 7,200 PSI	22.8 gr / 8,500 PSI	24.0 gr / 9,700 PSI
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
				1090 fps	1145 fps	1200 fps	1255 fps
1 1/8 oz	Titewad	Ched. 209	Fed. 12S3	15.9 gr / 8,300 PSI	17.2 gr / 9,700 PSI	18.6 gr / 11,300 PSI	—
1 1/8 oz	Titewad	Ched. 209	Rem. Fig. 8	16.2 gr / 8,300 PSI	17.5 gr / 9,600 PSI	18.8 gr / 10,800 PSI	—
1 1/8 oz	Titewad	Ched. 209	Windjammer	15.9 gr / 8,000 PSI	17.4 gr / 9,400 PSI	18.9 gr / 10,800 PSI	—
1 1/8 oz	Titewad	CCI 209M	Fed. 12C1	16.3 gr / 8,600 PSI	17.5 gr / 9,800 PSI	18.6 gr / 10,900 PSI	—
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	—

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
12 GA., 2 3/4", FEDERAL PAPER SHELLS (CONT.)							
				1090 fps	1145 fps	1200 fps	1255 fps
1 1/8 oz	Titewad	Fed. 209A	Fed. 12S4	16.2 gr/ 9,000 PSI	17.2 gr/ 9,600 PSI	18.4 gr/ 10,800 PSI	—
1 1/8 oz	Titewad	Fio. 616	Hor. Versalite	16.0 gr/ 8,000 PSI	17.0 gr/ 9,100 PSI	18.4 gr/ 10,500 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	Ched. 209	Windjammer	17.5 gr/ 6,000 PSI	18.7 gr/ 7,800 PSI	20.0 gr/ 9,800 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	Fed. 209A	Fed. 12S3	17.0 gr/ 7,400 PSI	18.0 gr/ 8,700 PSI	19.5 gr/ 10,500 PSI	—
1 1/8 oz	Clays	Fio. 616	Hor. Versalite	16.8 gr/ 7,500 PSI	17.5 gr/ 8,600 PSI	19.0 gr/ 10,300 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	—
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	Ched. 209	Rem. Fig. 8	17.9 gr/ 6,900 PSI	19.1 gr/ 8,000 PSI	20.4 gr/ 9,200 PSI	21.7 gr/10,400 PSI
1 1/8 oz	Internat'l	Ched. 209	Windjammer	18.5 gr/ 6,700 PSI	19.7 gr/ 7,800 PSI	20.9 gr/ 8,800 PSI	22.1 gr/ 9,900 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	Fed. 209A	Fed. 12S4	18.8 gr/ 7,000 PSI	19.5 gr/ 7,500 PSI	21.0 gr/ 10,000 PSI	22.0 gr/11,200 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
1 1/8 oz	Internat'l	Rem. 209P	Fed. 12C1	—	21.8 gr/ 7,800 PSI	22.9 gr/ 9,000 PSI	—
				1365 fps	1420 fps	1475 fps	1530 fps
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	Fed. 209A	G/BP Z21	30.6 gr/ 8,100 PSI	31.4 gr/ 9,400 PSI	32.2 gr/ 10,600 PSI	—
1 1/8 oz	Longshot	Rem. 209P	Fed. 12C1	—	33.6 gr/ 8,500 PSI	34.6 gr/ 9,500 PSI	35.5 gr/10,300 PSI
1 1/8 oz	Longshot	Win. 209	WAA12 F114	—	—	35.7 gr/ 8,700 PSI	36.5 gr/10,100 PSI
12 GA., 2 3/4", FIOCCHI, VICTORY,PMC AND NOBEL SPORT PLASTIC SHELLS (LOW BASEWAD)							
				1250 fps	1300 fps	1350 fps	1400 fps
7/8 oz	Titewad	Fed. 209A	Fed. 12S0	18.7 gr/ 7,400 PSI	19.7 gr/ 8,600 PSI	20.7 gr/ 9,700 PSI	22.0 gr/10,500 PSI
7/8 oz	Titewad	Fio. 616	Fed. 12S0	18.2 gr/ 7,800 PSI	19.5 gr/ 8,900 PSI	20.5 gr/ 10,000 PSI	21.5 gr/11,200 PSI
7/8 oz	Titewad	Win. 209	WAA12SL	18.4 gr/ 7,500 PSI	19.5 gr/ 8,400 PSI	20.6 gr/ 9,300 PSI	21.5 gr/10,000 PSI
				1200 fps	1250 fps	1300 fps	1350 fps
7/8 oz	Clays	Fed. 209A	Rem. TGT 12	16.5 gr/ 6,400 PSI	17.7 gr/ 7,300 PSI	18.7 gr/ 7,400 PSI	—
7/8 oz	Clays	Fio. 616	Fed. 12S0	16.6 gr/ 6,800 PSI	17.8 gr/ 7,500 PSI	19.2 gr/ 8,500 PSI	—
7/8 oz	Clays	Win. 209	WAA12SL	16.8 gr/ 6,200 PSI	18.0 gr/ 7,200 PSI	19.0 gr/ 8,000 PSI	—
7/8 oz	Internat'l	CCI 209SC	WAA12SL	—	21.0 gr/ 7,300 PSI	22.0 gr/ 8,100 PSI	22.5 gr/ 8,500 PSI
				1180 fps	1235 fps	1290 fps	1345 fps
1 oz	Titewad	Fed. 209A	Fed. 12S0	17.0 gr/ 8,400 PSI	19.0 gr/ 10,200 PSI	20.0 gr/ 11,100 PSI	—
1 oz	Titewad	Fio. 616	Rem. Fig. 8	17.0 gr/ 8,200 PSI	18.0 gr/ 9,200 PSI	19.5 gr/ 10,300 PSI	—
1 oz	Titewad	Win. 209	WAA12SL	17.2 gr/ 7,400 PSI	18.5 gr/ 8,900 PSI	19.8 gr/ 9,800 PSI	—
1 oz	Clays	Win. 209	WAA12SL	17.1 gr/ 7,800 PSI	18.5 gr/ 9,200 PSI	19.3 gr/ 10,600 PSI	—
1 oz	Internat'l	Win. 209	WAA12SL	19.0 gr/ 7,100 PSI	20.0 gr/ 8,600 PSI	21.1 gr/ 9,600 PSI	—
				1090 fps	1145 fps	1200 fps	1255 fps
1 1/8 oz	Titewad	Ched. 209	Fio. TL1	15.6 gr/ 8,800 PSI	17.0 gr/ 10,400 PSI	—	—
1 1/8 oz	Titewad	Ched. 209	Rem. Fig. 8	15.5 gr/ 8,500 PSI	17.0 gr/ 9,600 PSI	18.5 gr/ 10,800 PSI	—

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
12 GA., 2 3/4", FIOCCHI, VICTORY,PMC AND NOBEL SPORT PLASTIC SHELLS (LOW BASEWAD) (CONT.)							
				1090 fps	1145 fps	1200 fps	1255 fps
1 1/8 oz	Titewad	Ched. 209	WAA12	15.5 gr/ 8,600 PSI	16.8 gr/ 9,800 PSI	18.1 gr/ 11,000 PSI	—
1 1/8 oz	Titewad	Fio. 616	Fio. TL1	15.3 gr/ 9,300 PSI	16.4 gr/ 10,500 PSI	17.7 gr/ 11,400 PSI	—
1 1/8 oz	Titewad	Win. 209	WAA12	16.2 gr/ 7,900 PSI	16.9 gr/ 8,500 PSI	18.5 gr/ 10,000 PSI	—
1 1/8 oz	Clays	Ched. 209	Fio. TL1	16.8 gr/ 8,300 PSI	18.1 gr/ 9,500 PSI	19.5 gr/ 10,800 PSI	—
1 1/8 oz	Clays	Ched. 209	Rem. Fig. 8	16.9 gr/ 7,100 PSI	18.3 gr/ 8,700 PSI	19.7 gr/ 10,300 PSI	—
1 1/8 oz	Clays	Ched. 209	WAA12	16.7 gr/ 7,700 PSI	17.9 gr/ 9,100 PSI	19.2 gr/ 10,500 PSI	—
1 1/8 oz	Clays	CCI 209	Hor. Versalite	17.9 gr/ 6,300 LUP	18.9 gr/ 7,000 LUP	20.0 gr/ 7,700 LUP	—
1 1/8 oz	Clays	Fed. 209A	Fed. 12S3	16.5 gr/ 9,100 PSI	17.0 gr/ 10,000 PSI	—	—
1 1/8 oz	Clays	Fio. 616	Fio. TL1	16.5 gr/ 7,000 LUP	17.9 gr/ 8,000 LUP	19.4 gr/ 9,100 LUP	—
1 1/8 oz	Clays	Rem. 209P	Rem. Fig. 8	17.6 gr/ 6,200 LUP	18.8 gr/ 6,800 LUP	19.9 gr/ 7,500 LUP	—
1 1/8 oz	Clays	Win. 209	WAA12	16.3 gr/ 6,800 LUP	17.6 gr/ 8,000 LUP	18.9 gr/ 9,200 LUP	—
1 1/8 oz	Internat'l	Ched. 209	Fio. TL1	17.9 gr/ 7,000 PSI	19.3 gr/ 8,200 PSI	20.7 gr/ 9,400 PSI	22.0 gr/10,400 PSI
1 1/8 oz	Internat'l	Ched. 209	Rem. Fig. 8	18.2 gr/ 6,600 PSI	19.5 gr/ 7,700 PSI	20.8 gr/ 8,700 PSI	22.1 gr/ 9,700 PSI
1 1/8 oz	Internat'l	Ched. 209	WAA12	17.9 gr/ 7,000 PSI	19.1 gr/ 7,900 PSI	20.1 gr/ 8,700 PSI	21.7 gr/10,000 PSI
1 1/8 oz	Internat'l	Fed. 209A	Fio. TL1	18.0 gr/ 7,800 PSI	18.5 gr/ 8,300 PSI	20.0 gr/ 10,400 PSI	—
1 1/8 oz	Internat'l	Fio. 616	Fio. TL1	19.3 gr/ 7,400 LUP	20.3 gr/ 7,700 LUP	21.0 gr/ 8,300 LUP	22.6 gr/ 9,900 LUP
1 1/8 oz	Internat'l	Win. 209	WAA12	19.2 gr/ 7,000 LUP	19.7 gr/ 7,400 LUP	21.0 gr/ 8,500 LUP	22.0 gr/ 9,800 LUP
				1200 fps	1255 fps	1310 fps	
1 1/8 oz	Universal	Fio. 616	Fio. TL1	23.4 gr/ 8,600 PSI	25.0 gr/ 9,800 PSI	26.5 gr/ 10,600 PSI	—
1 1/8 oz	Universal	Win. 209	WAA12	23.3 gr/ 9,100 PSI	24.0 gr/ 9,600 PSI	25.0 gr/ 10,800 PSI	—
				1420 fps	1475 fps	1530 fps	1585 fps
1 1/8 oz	Longshot	Fio. 616	Fed. 12S3	33.2 gr/ 8,000 PSI	34.7 gr/ 8,900 PSI	36.2 gr/ 9,800 PSI	37.8 gr/10,700 PSI
1 1/8 oz	Longshot	Fio. 616	Fio. TL1	33.4 gr/ 8,300 PSI	34.8 gr/ 9,300 PSI	36.2 gr/ 10,300 PSI	37.6 gr/11,200 PSI
1 1/8 oz	Longshot	Fio. 616	Rem. Fig. 8	33.4 gr/ 7,500 PSI	34.9 gr/ 8,500 PSI	36.4 gr/ 9,400 PSI	37.9 gr/10,300 PSI
1 1/8 oz	Longshot	Fio. 616	WAA12	32.7 gr/ 8,400 PSI	34.0 gr/ 9,300 PSI	35.3 gr/ 10,100 PSI	36.6 gr/11,000 PSI
1 1/8 oz	Longshot	Fio. 616	Windjammer	33.7 gr/ 7,600 PSI	35.3 gr/ 8,400 PSI	36.8 gr/ 9,200 PSI	38.3 gr/10,000 PSI
				1220 fps	1330 fps		
1 1/4 oz	Universal	Fio. 616	WAA12F114	24.0 gr/ 10,900 PSI	—	—	—
1 1/4 oz	Universal	Win. 209	Rem. SP12	24.0 gr/ 10,900 PSI	—	—	—
1 1/4 oz	HS-6	Win. 209	Rem. R12H	—	35.0 gr/ 9,200 LUP	—	—
				1185 fps	1240 fps	1295 fps	1350 fps
1 3/8 oz	Longshot	Fio. 616	G/BP Sport	25.6 gr/ 8,000 PSI	27.3 gr/ 9,200 PSI	28.9 gr/ 10,400 PSI	30.8 gr/11,500 PSI
1 3/8 oz	Longshot	Fio. 616	Rem. SP12	—	27.4 gr/ 8,700 PSI	28.9 gr/ 9,700 PSI	30.5 gr/10,700 PSI
1 3/8 oz	Longshot	Win. 209	Fed. 12S4	26.0 gr/ 8,300 PSI	27.5 gr/ 9,300 PSI	29.0 gr/ 10,400 PSI	—
12 GA., 2 3/4", REMINGTON STS, OR NITRO 27, OR GUN CLUB PLASTIC SHELLS							
				1250 fps	1300 fps	1350 fps	1400 fps
7/8 oz	Titewad	CCI 209	Rem. TGT 12	16.9 gr/ 9,400 PSI	17.8 gr/ 10,800 PSI	19.0 gr/ 11,400 PSI	—
7/8 oz	Titewad	CCI 209	WAA12L	16.8 gr/ 10,100 PSI	18.8 gr/ 10,700 PSI	19.0 gr/ 11,500 PSI	—
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	Fed. 209A	WAA12L	17.0 gr/ 9,600 PSI	18.0 gr/ 10,700 PSI	19.0 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	CB-4100-12	18.7 gr/ 7,000 PSI	19.8 gr/ 7,800 PSI	20.9 gr/ 8,500 PSI	22.1 gr/ 9,400 PSI

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
12 GA., 2 3/4", REMINGTON STS, OR NITRO 27, OR GUN CLUB PLASTIC SHELLS (CONT.)							
				1250 fps	1300 fps	1350 fps	1400 fps
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
				1200 fps	1250 fps	1300 fps	1350 fps
7/8 oz	Clays	CCI 209	Rem. TGT 12	16.1 gr/ 7,900 PSI	17.3 gr/ 9,400 PSI	18.3 gr/ 10,100 PSI	19.6 gr/ 11,200 PSI
7/8 oz	Clays	CCI 209	WAA12L	16.3 gr/ 8,800 PSI	17.3 gr/ 9,900 PSI	18.7 gr/ 11,200 PSI	—
7/8 oz	Clays	Fed. 209A	Fed. 12SO	16.3 gr/ 8,900 PSI	17.3 gr/ 9,600 PSI	18.5 gr/ 11,500 PSI	—
7/8 oz	Clays	Fed. 209A	Rem. TGT 12	16.1 gr/ 8,700 PSI	17.3 gr/ 9,800 PSI	18.3 gr/ 11,100 PSI	—
7/8 oz	Clays	Fed. 209A	WAA12L	16.0 gr/ 8,100 PSI	17.0 gr/ 10,200 PSI	18.2 gr/ 10,800 PSI	—
7/8 oz	Clays	Rem. 209P	CB-4100-12	16.9 gr/ 5,800 PSI	18.2 gr/ 6,700 PSI	19.6 gr/ 7,600 PSI	20.9 gr/ 8,400 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	Fed. 12SO	16.0 gr/ 7,500 PSI	17.2 gr/ 8,200 PSI	18.8 gr/ 9,100 PSI	—
7/8 oz	Clays	Rem. 209P	WAA12SL	—	18.0 gr/ 8,400 PSI	19.5 gr/ 10,200 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	CB-4100-12	18.8 gr/ 5,200 PSI	19.8 gr/ 6,100 PSI	20.8 gr/ 7,000 PSI	21.8 gr/ 7,900 PSI
				1200 fps	1250 fps	1300 fps	1350 fps
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
				1250 fps	1300 fps	1350 fps	1400 fps
7/8 oz	Internat'l	CCI 209	Rem. TGT 12	19.8 gr/ 6,900 PSI	20.8 gr/ 7,800 PSI	21.9 gr/ 8,700 PSI	22.9 gr/ 9,600 PSI
7/8 oz	Internat'l	CCI 209	WAA12L	20.0 gr/ 7,100 PSI	20.9 gr/ 7,900 PSI	21.9 gr/ 8,700 PSI	22.8 gr/ 9,500 PSI
7/8 oz	Internat'l	Fed. 209A	Fed. 12SO	19.3 gr/ 7,700 PSI	20.4 gr/ 8,700 PSI	21.4 gr/ 9,600 PSI	22.5 gr/ 10,600 PSI
7/8 oz	Internat'l	Fed. 209A	Rem. TGT 12	19.1 gr/ 7,300 PSI	20.2 gr/ 8,200 PSI	21.3 gr/ 9,000 PSI	22.4 gr/ 9,900 PSI
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	Fed. 12SO	20.2 gr/ 6,900 PSI	21.2 gr/ 7,800 PSI	22.2 gr/ 8,700 PSI	23.2 gr/ 9,500 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
				1150 fps	1200 fps	1250 fps	1325 fps
24 gm	700-X	Fed. 209A	Fed. 12SO	15.0 gr/ 6,600 PSI	16.0 gr/ 7,400 PSI	17.0 gr/ 8,100 PSI	18.5 gr/ 9,200 PSI
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	Fed. 12SO	15.0 gr/ 6,100 PSI	16.0 gr/ 7,200 PSI	17.0 gr/ 8,200 PSI	18.5 gr/ 9,800 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	Fed. 12SO	15.0 gr/ 6,300 PSI	16.0 gr/ 7,200 PSI	17.0 gr/ 8,100 PSI	18.5 gr/ 9,400 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
24 gm	PB	Fed. 209A	Fed. 12SO	18.0 gr/ 6,300 PSI	19.0 gr/ 6,900 PSI	20.5 gr/ 7,800 PSI	22.0 gr/ 8,700 PSI
24 gm	PB	Fed. 209A	Rem. TGT12	18.0 gr/ 5,500 PSI	19.5 gr/ 6,300 PSI	20.5 gr/ 6,700 PSI	22.5 gr/ 7,800 PSI
24 gm	PB	Fed. 209A	WAA12SL	17.5 gr/ 6,400 PSI	18.5 gr/ 7,100 PSI	20.0 gr/ 8,100 PSI	21.5 gr/ 9,000 PSI

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
12 GA., 2 3/4", REMINGTON STS, OR NITRO 27, OR GUN CLUB PLASTIC SHELLS (CONT.)							
				1150 fps	1200 fps	1250 fps	1325 fps
24 gm	PB	Rem. 209P	Fed. 12SO	19.0 gr/ 5,300 PSI	20.5 gr/ 6,300 PSI	21.5 gr/ 6,800 PSI	23.5 gr/ 7,700 PSI
24 gm	PB	Rem. 209P	Rem. TGT12	19.5 gr/ 4,800 PSI	20.5 gr/ 5,200 PSI	22.0 gr/ 6,000 PSI	23.5 gr/ 6,900 PSI
24 gm	PB	Rem. 209P	WAA12SL	18.5 gr/ 5,400 PSI	19.5 gr/ 6,200 PSI	21.0 gr/ 7,300 PSI	22.5 gr/ 8,000 PSI
24 gm	PB	Win. 209	Fed. 12SO	19.0 gr/ 5,400 PSI	20.5 gr/ 6,300 PSI	21.5 gr/ 6,800 PSI	23.5 gr/ 7,700 PSI
24 gm	PB	Win. 209	Rem. TGT12	19.0 gr/ 5,200 PSI	20.0 gr/ 5,700 PSI	21.0 gr/ 6,200 PSI	23.0 gr/ 7,300 PSI
24 gm	PB	Win. 209	WAA12SL	18.0 gr/ 5,600 PSI	19.5 gr/ 6,400 PSI	20.5 gr/ 7,000 PSI	22.5 gr/ 8,100 PSI
24 gm	SR 7625	Fed. 209A	Fed. 12SO	21.5 gr/ 5,300 PSI	22.5 gr/ 5,700 PSI	24.0 gr/ 6,500 PSI	25.0 gr/ 7,300 PSI
24 gm	SR 7625	Fed. 209A	Rem. FIG. 8	22.0 gr/ 4,700 PSI	23.0 gr/ 5,200 PSI	24.5 gr/ 6,000 PSI	26.0 gr/ 6,800 PSI
24 gm	SR 7625	Fed. 209A	WAA12SL	20.5 gr/ 5,700 PSI	21.5 gr/ 6,200 PSI	23.0 gr/ 6,800 PSI	25.0 gr/ 7,500 PSI
24 gm	SR 7625	Rem. 209P	Fed. 12SO	21.5 gr/ 4,600 PSI	23.0 gr/ 5,300 PSI	24.0 gr/ 5,800 PSI	26.0 gr/ 6,900 PSI
24 gm	SR 7625	Rem. 209P	Rem. FIG. 8	22.0 gr/ 4,200 PSI	23.5 gr/ 4,900 PSI	24.5 gr/ 5,300 PSI	26.5 gr/ 6,200 PSI
24 gm	SR 7625	Rem. 209P	WAA12SL	21.5 gr/ 4,800 PSI	23.0 gr/ 5,300 PSI	24.5 gr/ 5,800 PSI	26.0 gr/ 6,800 PSI
24 gm	SR 7625	Win. 209	Fed. 12SO	22.5 gr/ 4,800 PSI	23.5 gr/ 5,300 PSI	24.5 gr/ 6,000 PSI	26.0 gr/ 6,900 PSI
24 gm	SR 7625	Win. 209	Rem. FIG. 8	22.5 gr/ 4,600 PSI	23.5 gr/ 5,100 PSI	24.5 gr/ 5,600 PSI	26.5 gr/ 6,500 PSI
24 gm	SR 7625	Win. 209	WAA12SL	21.0 gr/ 5,300 PSI	22.0 gr/ 5,900 PSI	23.0 gr/ 6,400 PSI	24.5 gr/ 7,300 PSI
				1050 fps	1100 fps	1150 fps	
7/8 oz	WAA12L	Ched. 209	Fed. 12SO	12.8 gr/ 6,000 PSI	13.4 gr/ 6,800 PSI	14.5 gr/ 8,200 PSI	
7/8 oz	WAA12L	Ched. 209	WAA12SL	12.5 gr/ 6,300 PSI	13.3 gr/ 7,300 PSI	14.3 gr/ 8,500 PSI	
7/8 oz	WAA12L	Fed. 209A	Fed. 12SO	12.9 gr/ 6,400 PSI	13.9 gr/ 7,400 PSI	14.8 gr/ 8,400 PSI	
7/8 oz	WAA12L	Fed. 209A	WAA12SL	12.6 gr/ 6,400 PSI	13.3 gr/ 7,100 PSI	14.5 gr/ 8,300 PSI	
7/8 oz	WAA12L	Rem. 209P	Fed. 12SO	12.9 gr/ 5,900 PSI	13.7 gr/ 7,200 PSI	14.8 gr/ 8,300 PSI	
7/8 oz	WAA12L	Rem. 209P	WAA12SL	12.6 gr/ 5,800 PSI	13.3 gr/ 6,700 PSI	14.5 gr/ 8,100 PSI	
7/8 oz	WAA12L	Win. 209	Fed. 12SO	13.4 gr/ 6,000 PSI	14.1 gr/ 6,800 PSI	14.9 gr/ 7,700 PSI	
7/8 oz	WAA12L	Win. 209	WAA12SL	12.9 gr/ 5,400 PSI	13.8 gr/ 6,800 PSI	14.8 gr/ 8,200 PSI	
				1325 fps	1400 fps		
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		
				1125 fps	1180 fps	1235 fps	1290 fps
1 oz	Titewad	CCI 209	Rem. TGT 12	15.2 gr/ 8,200 PSI	16.4 gr/ 9,100 PSI	17.7 gr/ 10,500 PSI	19.0 gr/ 11,400 PSI
1 oz	Titewad	CCI 209	WAA12L	15.8 gr/ 8,200 PSI	16.8 gr/ 9,000 PSI	17.8 gr/ 10,500 PSI	—
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	Fed. 209A	WAA12SL	15.8 gr/ 8,000 PSI	17.0 gr/ 8,600 PSI	18.2 gr/ 10,100 PSI	19.4 gr/ 11,000 PSI
1 oz	Titewad	Fio. 616	Windjammer	—	—	18.0 gr/ 9,600 PSI	19.2 gr/10,800PSI
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
1 oz	Titewad	Rem. 209P	Rem. TGT 12	—	16.7 gr/ 7,800 PSI	18.2 gr/ 9,600 PSI	19.4 gr/11,300PSI
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	—
1 oz	Clays	CCI 209	Rem. TGT 12	15.4 gr/ 8,700 PSI	16.6 gr/ 9,600 PSI	18.2 gr/ 11,400 PSI	—
1 oz	Clays	CCI 209	WAA12SL	15.1 gr/ 8,500 PSI	16.3 gr/ 10,100 PSI	17.5 gr/ 11,200 PSI	—
1 oz	Clays	Fed. 209A	WAA12SL	15.6 gr/ 9,200 PSI	16.5 gr/ 10,800 PSI	17.7 gr/ 11,300 PSI	—

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
12 GA., 2 3/4", REMINGTON STS, OR NITRO 27, OR GUN CLUB PLASTIC SHELLS (CONT.)							
				1125 fps	1180 fps	1235 fps	1290 fps
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
1 oz	Clays	Win. 209	Windjammer	17.3 gr/ 5,500 PSI	18.4 gr/ 7,100 PSI	19.5 gr/ 8,600 PSI	20.6 gr/ 10,200 PSI
				1180 fps	1235 fps	1290fps	1345 fps
1 oz	Internat'l	CCI 209	Rem. TGT 12	19.0 gr/ 6,800 PSI	20.0 gr/ 7,900 PSI	21.0 gr/ 9,000 PSI	22.0 gr/ 10,100 PSI
1 oz	Internat'l	CCI 209	WAA12SL	18.6 gr/ 7,400 PSI	19.8 gr/ 8,500 PSI	21.0 gr/ 9,500 PSI	22.3 gr/ 10,600 PSI
1 oz	Internat'l	Fed. 209A	Rem. TGT 12	18.2 gr/ 7,900 PSI	19.2 gr/ 9,000 PSI	20.2 gr/ 10,000 PSI	21.3 gr/ 11,100 PSI
1 oz	Internat'l	Fed. 209A	WAA12SL	17.8 gr/ 7,500 PSI	19.0 gr/ 8,800 PSI	20.3 gr/ 10,200 PSI	21.5 gr/ 11,500 PSI
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
				1100 fps	1150 fps	1200 fps	1250 fps
1 oz	700-X	Fed. 209A	Fed. 12S3	14.5 gr/ 8,000 PSI	15.5 gr/ 8,900 PSI	17.0 gr/ 10,300 PSI	18.0 gr/ 11,200 PSI
1 oz	700-X	Fed. 209A	Rem. TGT12	14.5 gr/ 7,200 PSI	15.5 gr/ 8,100 PSI	16.5 gr/ 9,100 PSI	17.5 gr/ 10,000 PSI
1 oz	700-X	Fed. 209A	WAA12SL	14.5 gr/ 7,700 PSI	15.5 gr/ 8,600 PSI	16.5 gr/ 9,500 PSI	18.0 gr/ 10,800 PSI
1 oz	700-X	Rem. 209P	Fed. 12S3	14.5 gr/ 7,400 PSI	15.5 gr/ 8,300 PSI	17.0 gr/ 9,700 PSI	18.0 gr/ 10,600 PSI
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
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	Fed. 12S3	14.5 gr/ 7,800 PSI	15.5 gr/ 8,700 PSI	17.0 gr/ 10,100 PSI	18.0 gr/ 11,100 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
1 oz	PB	Fed. 209A	Fed. 12S3	18.0 gr/ 6,500 PSI	19.0 gr/ 7,200 PSI	20.5 gr/ 8,300 PSI	22.0 gr/ 9,300 PSI
1 oz	PB	Fed. 209A	Rem. TGT12	18.5 gr/ 6,200 PSI	19.5 gr/ 6,700 PSI	21.0 gr/ 7,400 PSI	22.5 gr/ 8,200 PSI
1 oz	PB	Fed. 209A	WAA12SL	18.0 gr/ 7,000 PSI	19.0 gr/ 7,500 PSI	20.5 gr/ 8,200 PSI	22.0 gr/ 8,900 PSI
1 oz	PB	Rem. 209P	Fed. 12S3	18.5 gr/ 6,100 PSI	20.0 gr/ 7,100 PSI	21.0 gr/ 7,800 PSI	22.5 gr/ 8,500 PSI
1 oz	PB	Rem. 209P	Rem. TGT12	19.0 gr/ 5,700 PSI	20.0 gr/ 6,300 PSI	21.5 gr/ 7,100 PSI	22.5 gr/ 7,600 PSI
1 oz	PB	Rem. 209P	WAA12SL	18.0 gr/ 6,500 PSI	19.5 gr/ 7,200 PSI	20.5 gr/ 7,700 PSI	22.5 gr/ 8,700 PSI
1 oz	PB	Win. 209	Fed. 12S3	19.0 gr/ 6,300 PSI	20.0 gr/ 7,000 PSI	21.0 gr/ 7,700 PSI	22.5 gr/ 8,700 PSI
1 oz	PB	Win. 209	Rem. TGT12	19.0 gr/ 5,700 PSI	20.0 gr/ 6,300 PSI	21.0 gr/ 6,800 PSI	22.5 gr/ 7,700 PSI
1 oz	PB	Win. 209	WAA12	18.5 gr/ 5,900 PSI	19.5 gr/ 6,500 PSI	21.0 gr/ 7,300 PSI	22.5 gr/ 8,100 PSI
1 oz	SR 7625	Fed. 209A	Fed. 12S3	20.0 gr/ 6,100 PSI	21.0 gr/ 6,700 PSI	22.5 gr/ 7,600 PSI	23.5 gr/ 8,300 PSI
1 oz	SR 7625	Fed. 209A	Rem. TGT12	20.5 gr/ 5,300 PSI	22.0 gr/ 6,300 PSI	23.0 gr/ 6,900 PSI	24.0 gr/ 7,400 PSI
1 oz	SR 7625	Fed. 209A	WAA12SL	19.0 gr/ 4,200 PSI	20.5 gr/ 5,700 PSI	22.0 gr/ 7,200 PSI	23.5 gr/ 8,500 PSI
1 oz	SR 7625	Rem. 209P	Fed. 12S3	20.0 gr/ 6,000 PSI	21.0 gr/ 6,300 PSI	22.5 gr/ 6,900 PSI	24.0 gr/ 7,800 PSI
1 oz	SR 7625	Rem. 209P	Rem. TGT12	21.5 gr/ 5,100 PSI	22.5 gr/ 5,700 PSI	23.5 gr/ 6,200 PSI	25.0 gr/ 7,000 PSI

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
12 GA., 2 3/4", REMINGTON STS, OR NITRO 27, OR GUN CLUB PLASTIC SHELLS (CONT.)							
				1100 fps	1150 fps	1200 fps	1250 fps
1 oz	SR 7625	Rem. 209P	WAA12SL	21.0 gr/ 5,800 PSI	22.0 gr/ 6,200 PSI	23.0 gr/ 6,800 PSI	24.5 gr/ 8,100 PSI
1 oz	SR 7625	Win. 209	Fed. 12S3	21.0 gr/ 5,300 PSI	22.0 gr/ 6,000 PSI	23.0 gr/ 6,800 PSI	24.0 gr/ 7,900 PSI
1 oz	SR 7625	Win. 209	Rem. TGT12	21.0 gr/ 5,300 PSI	22.0 gr/ 5,700 PSI	23.0 gr/ 6,300 PSI	24.5 gr/ 7,100 PSI
1 oz	SR 7625	Win. 209	WAA12SL	20.0 gr/ 5,700 PSI	21.5 gr/ 6,100 PSI	23.0 gr/ 6,700 PSI	24.0 gr/ 7,200 PSI
				970 fps	1025 fps	1070 fps	1125 fps
1 oz	WAA1ite	Ched. 209	J-XL-1	—	12.5 gr/ 7,500 PSI	13.3 gr/ 8,300 PSI	14.3 gr/ 9,400 PSI
1 oz	WAA1ite	Ched. 209	Rem. TGT12	12.0 gr/ 6,200 PSI	12.9 gr/ 7,100 PSI	13.8 gr/ 8,000 PSI	14.8 gr/ 9,000 PSI
1 oz	WAA1ite	Ched. 209	WAA12SL	11.9 gr/ 6,400 PSI	12.6 gr/ 7,300 PSI	13.4 gr/ 8,300 PSI	14.8 gr/ 10,000 PSI
1 oz	WAA1ite	Fed. 209A	J-XL-1	11.9 gr/ 6,200 PSI	13.0 gr/ 7,400 PSI	13.9 gr/ 8,300 PSI	14.9 gr/ 9,300 PSI
1 oz	WAA1ite	Fed. 209A	Rem. TGT12	12.0 gr/ 6,000 PSI	13.0 gr/ 7,100 PSI	13.8 gr/ 8,000 PSI	14.8 gr/ 9,100 PSI
1 oz	WAA1ite	Fed. 209A	WAA12SL	12.0 gr/ 6,300 PSI	13.0 gr/ 7,500 PSI	13.9 gr/ 8,700 PSI	14.9 gr/ 10,000 PSI
1 oz	WAA1ite	Rem. 209P	J-XL-1	12.3 gr/ 5,600 PSI	13.2 gr/ 6,900 PSI	13.9 gr/ 7,900 PSI	14.8 gr/ 9,200 PSI
1 oz	WAA1ite	Rem. 209P	Rem. TGT12	12.3 gr/ 5,800 PSI	13.2 gr/ 7,200 PSI	13.9 gr/ 8,200 PSI	14.8 gr/ 9,500 PSI
1 oz	WAA1ite	Rem. 209P	WAA12SL	12.0 gr/ 5,500 PSI	13.0 gr/ 6,900 PSI	13.8 gr/ 8,100 PSI	14.9 gr/ 9,600 PSI
1 oz	WAA1ite	Win. 209	J-XL-1	12.3 gr/ 5,600 PSI	13.2 gr/ 6,900 PSI	13.9 gr/ 7,900 PSI	14.7 gr/ 9,000 PSI
1 oz	WAA1ite	Win. 209	Rem. TGT12	12.4 gr/ 5,700 PSI	13.3 gr/ 6,700 PSI	14.0 gr/ 7,500 PSI	14.9 gr/ 8,500 PSI
1 oz	WAA1ite	Win. 209	WAA12SL	12.2 gr/ 5,600 PSI	13.2 gr/ 7,000 PSI	13.9 gr/ 7,900 PSI	14.9 gr/ 9,200 PSI
				1180 fps	1235 fps	1290 fps	
1 oz	WST	CCI 209	Fed. 12S3	18.5 gr/ 8,800 PSI	19.5 gr/ 9,500 PSI	20.5 gr/ 10,800 PSI	—
1 oz	WST	CCI 209	WAA12SL	19.0 gr/ 8,000 PSI	20.0 gr/ 8,900 PSI	20.5 gr/ 9,700 PSI	—
1 oz	WST	Win. 209	Fed. 12S3	19.0 gr/ 8,200 PSI	20.0 gr/ 8,900 PSI	21.0 gr/ 9,700 PSI	—
1 oz	WST	Win. 209	WAA12SL	—	19.5 gr/ 8,000 PSI	21.0 gr/ 10,000 PSI	—
				1180 fps	1235 fps	1290 fps	1345 fps
1 oz	Super Hcp	Ched. 209	J-XL-1	18.1 gr/ 6,800 PSI	19.6 gr/ 8,100 PSI	21.0 gr/ 9,200 PSI	22.5 gr/ 10,400 PSI
1 oz	Super Hcp	Ched. 209	Rem. TGT12	18.5 gr/ 6,700 PSI	20.1 gr/ 7,800 PSI	21.8 gr/ 9,100 PSI	22.8 gr/ 9,900 PSI
1 oz	Super Hcp	Ched. 209	WAA12SL	18.6 gr/ 6,900 PSI	19.9 gr/ 8,000 PSI	21.2 gr/ 9,000 PSI	22.6 gr/ 10,100 PSI
1 oz	Super Hcp	Fed. 209A	J-XL-1	18.0 gr/ 7,300 PSI	19.3 gr/ 8,300 PSI	20.6 gr/ 9,400 PSI	22.0 gr/ 10,500 PSI
1 oz	Super Hcp	Fed. 209A	Rem. TGT12	18.1 gr/ 7,000 PSI	19.4 gr/ 8,100 PSI	20.8 gr/ 9,300 PSI	22.0 gr/ 10,400 PSI
1 oz	Super Hcp	Fed. 209A	WAA12SL	18.1 gr/ 7,200 PSI	19.3 gr/ 8,300 PSI	20.6 gr/ 9,400 PSI	21.9 gr/ 10,600 PSI
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
				1090 fps	1145 fps	1200 fps	1255 fps
1 1/8 oz	Titewad	Ched. 209	Rem. Fig. 8	15.3 gr/ 10,400 PSI	16.2 gr/ 11,000 PSI	—	—
1 1/8 oz	Titewad	Ched. 209	WAA12	15.0 gr/ 10,400 PSI	15.8 gr/ 11,400 PSI	—	—
1 1/8 oz	Titewad	Ched. 209	Windjammer	15.5 gr/ 9,400 PSI	16.5 gr/ 10,500 PSI	—	—
1 1/8 oz	Titewad	CCI 209	Rem. Fig. 8	15.0 gr/ 10,600 PSI	15.8 gr/ 11,300 PSI	—	—
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	Fed. 209A	Windjammer	15.3 gr/ 9,000 PSI	16.3 gr/ 9,500 PSI	17.8 gr/ 11,100 PSI	—
1 1/8 oz	Titewad	Fio. 616	Rem. Fig. 8	15.0 gr/ 10,000 PSI	16.0 gr/ 11,000 PSI	—	—

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
				1090 fps	1145 fps	1200 fps	1255 fps
12 GA., 2 3/4", REMINGTON STS, OR NITRO 27, OR GUN CLUB PLASTIC SHELLS (CONT.)							
1 1/8 oz	Titewad	Fio. 616	WAA12	15.0 gr/ 9,400 PSI	16.0 gr/ 10,600 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	Rem. 209P	Windjammer	15.3 gr/ 9,000 PSI	16.5 gr/ 10,200 PSI	17.6 gr/ 11,400 PSI	—
1 1/8 oz	Titewad	Win. 209	Fed. 12S3	16.0 gr/ 9,600 PSI	17.0 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	Titewad	Win. 209	Windjammer	16.1 gr/ 9,100 PSI	17.2 gr/ 10,400 PSI	18.5 gr/ 11,500 PSI	—
1 1/8 oz	Clays	Ched. 209	Rem. Fig. 8	16.0 gr/ 9,100 PSI	17.2 gr/ 10,400 PSI	—	—
1 1/8 oz	Clays	Ched. 209	WAA12	15.5 gr/ 9,500 PSI	16.4 gr/ 10,600 PSI	—	—
1 1/8 oz	Clays	Ched. 209	Windjammer	15.7 gr/ 8,100 PSI	17.0 gr/ 9,500 PSI	18.3 gr/ 10,800 PSI	—
1 1/8 oz	Clays	CCI 209	Rem. Fig. 8	16.8 gr/ 7,400 PSI	18.0 gr/ 9,300 PSI	19.3 gr/ 11,400 PSI	—
1 1/8 oz	Clays	CCI 209	WAA12	15.9 gr/ 8,500 PSI	17.2 gr/ 10,300 PSI	18.2 gr/ 11,500 PSI	—
1 1/8 oz	Clays	CCI 209	Windjammer	16.6 gr/ 6,400 LUP	18.0 gr/ 7,500 LUP	19.4 gr/ 8,600 LUP	—
1 1/8 oz	Clays	Fed. 209A	Rem. Fig. 8	15.8 gr/ 9,500 PSI	16.9 gr/ 10,700 PSI	—	—
1 1/8 oz	Clays	Fed. 209A	WAA12	15.5 gr/ 9,900 PSI	16.6 gr/ 11,200 PSI	—	—
1 1/8 oz	Clays	Fed. 209A	Windjammer	16.2 gr/ 8,500 PSI	17.3 gr/ 10,000 PSI	18.4 gr/ 11,400 PSI	—
1 1/8 oz	Clays	Fio. 616	Rem. Fig. 8	15.8 gr/ 8,600 PSI	17.0 gr/ 10,500 PSI	—	—
1 1/8 oz	Clays	Fio. 616	WAA12	15.8 gr/ 9,100 PSI	16.8 gr/ 10,600 PSI	—	—
1 1/8 oz	Clays	Fio. 616	Windjammer	15.9 gr/ 8,100 PSI	17.2 gr/ 9,500 PSI	18.4 gr/ 10,800 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	Rem. 209P	Windjammer	16.3 gr/ 8,100 PSI	17.5 gr/ 9,500 PSI	18.8 gr/ 11,100 PSI	—
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	—
1 1/8 oz	Clays	Win. 209	Windjammer	16.8 gr/ 7,700 PSI	18.1 gr/ 9,100 PSI	19.4 gr/ 10,500 PSI	—
1 1/8 oz	Internat'l	Ched. 209	Rem. Fig. 8	17.6 gr/ 7,800 PSI	18.7 gr/ 8,900 PSI	19.8 gr/ 10,100 PSI	21.0 gr/ 11,300 PSI
1 1/8 oz	Internat'l	Ched. 209	WAA12	17.1 gr/ 8,000 PSI	18.3 gr/ 9,200 PSI	19.5 gr/ 10,400 PSI	—
1 1/8 oz	Internat'l	Ched. 209	Windjammer	17.7 gr/ 7,500 PSI	18.8 gr/ 8,600 PSI	19.9 gr/ 9,600 PSI	21.1 gr/ 10,800 PSI
1 1/8 oz	Internat'l	CCI 209	Rem. Fig. 8	17.8 gr/ 7,400 PSI	19.0 gr/ 8,800 PSI	20.2 gr/ 10,200 PSI	21.3 gr/ 11,400 PSI
1 1/8 oz	Internat'l	CCI 209	WAA12	17.1 gr/ 7,800 PSI	18.3 gr/ 8,900 PSI	19.6 gr/ 10,200 PSI	20.9 gr/ 11,400 PSI
1 1/8 oz	Internat'l	CCI 209	Windjammer	19.2 gr/ 6,100 LUP	19.8 gr/ 6,500 LUP	21.2 gr/ 7,500 LUP	22.3 gr/ 8,300 LUP
1 1/8 oz	Internat'l	Fed. 209A	Rem. Fig. 8	16.9 gr/ 8,200 PSI	18.0 gr/ 9,300 PSI	19.3 gr/ 10,700 PSI	—
1 1/8 oz	Internat'l	Fed. 209A	WAA12	16.7 gr/ 8,300 PSI	17.9 gr/ 9,600 PSI	19.1 gr/ 10,800 PSI	—
1 1/8 oz	Internat'l	Fed. 209A	Windjammer	16.9 gr/ 7,600 PSI	18.2 gr/ 8,900 PSI	19.6 gr/ 10,200 PSI	20.9 gr/ 11,400 PSI
1 1/8 oz	Internat'l	Fio. 616	Rem. Fig. 8	17.3 gr/ 7,900 PSI	18.5 gr/ 9,000 PSI	19.7 gr/ 10,100 PSI	20.9 gr/ 11,300 PSI
1 1/8 oz	Internat'l	Fio. 616	WAA12	17.2 gr/ 8,300 PSI	18.3 gr/ 9,500 PSI	19.4 gr/ 10,700 PSI	—
1 1/8 oz	Internat'l	Fio. 616	Windjammer	17.3 gr/ 6,900 PSI	18.7 gr/ 8,400 PSI	20.0 gr/ 9,800 PSI	21.4 gr/ 11,200 PSI
1 1/8 oz	Internat'l	Rem. 209P	Fed. 12S3	17.6 gr/ 6,900 LUP	18.3 gr/ 7,800 LUP	19.4 gr/ 9,000 LUP	20.6 gr/ 10,200 LUP
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	Rem. 209P	Windjammer	—	19.2 gr/ 8,400 PSI	20.3 gr/ 9,400 PSI	21.5 gr/ 10,500 PSI
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

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
				1090 fps	1145 fps	1200 fps	1255 fps
12 GA., 2 3/4", REMINGTON STS, OR NITRO 27, OR GUN CLUB PLASTIC SHELLS (CONT.)							
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	Internat'l	Win. 209	Windjammer	19.4 gr/ 8,200 PSI	20.1 gr/ 8,900 PSI	22.1 gr/ 10,300 PSI	—
1 1/8 oz	Titigroup	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	Titigroup	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	Titigroup	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	Titigroup	Win. 209	WAA12	14.7 gr/ 8,300 PSI	15.8 gr/ 9,400 PSI	16.8 gr/ 10,500 PSI	—
1200 fps 1255 fps 1310 fps							
1 1/8 oz	Universal	CCI 209	Windjammer	23.2 gr/ 8,400 PSI	24.4 gr/ 9,100 PSI	25.7 gr/ 10,200 PSI	—
1 1/8 oz	Universal	Fed. 209A	Fed. 12S3	21.7 gr/ 10,200 PSI	22.7 gr/ 11,000 PSI	—	—
1 1/8 oz	Universal	Win. 209	Rem. Fig. 8	22.5 gr/ 8,900 PSI	23.7 gr/ 9,900 PSI	25.0 gr/ 10,800 PSI	—
1 1/8 oz	Universal	Win. 209	WAA12	21.5 gr/ 9,800 PSI	23.0 gr/ 10,700 PSI	—	—
1420 fps 1475 fps 1530 fps 1585 fps							
1 1/8 oz	Longshot	CCI 209M	Fed. 12S3	30.6 gr/ 10,000 PSI	31.9 gr/ 11,000 PSI	—	—
1 1/8 oz	Longshot	CCI 209M	Hor. Vers.	31.7 gr/ 9,000 PSI	32.9 gr/ 9,900 PSI	34.1 gr/ 10,900 PSI	—
1 1/8 oz	Longshot	CCI 209M	Rem. R12L	31.0 gr/ 9,600 PSI	32.7 gr/ 10,400 PSI	34.5 gr/ 11,400 PSI	—
1 1/8 oz	Longshot	CCI 209M	WAA12	30.9 gr/ 9,800 PSI	32.3 gr/ 10,600 PSI	33.6 gr/ 11,400 PSI	—
1 1/8 oz	Longshot	CCI 209M	Windjammer	31.7 gr/ 9,000 PSI	33.3 gr/ 9,800 PSI	34.8 gr/ 10,600 PSI	36.4 gr/ 11,500 PSI
1 1/8 oz	Longshot	Fed. 209A	Fed. 12S3	29.4 gr/ 10,700 PSI	31.1 gr/ 11,600 PSI	—	—
1 1/8 oz	Longshot	Fed. 209A	Rem. R12L	29.8 gr/ 10,200 PSI	31.2 gr/ 11,100 PSI	—	—
1 1/8 oz	Longshot	Fed. 209A	WAA12	29.4 gr/ 10,900 PSI	—	—	—
1 1/8 oz	Longshot	Fed. 209A	Windjammer	30.6 gr/ 9,300 PSI	32.1 gr/ 10,300 PSI	33.6 gr/ 11,300 PSI	—
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	Rem. 209P	Windjammer	32.0 gr/ 8,600 PSI	33.5 gr/ 9,700 PSI	35.0 gr/ 10,900 PSI	—
1 1/8 oz	Longshot	Win. 209	Fed. 12S3	31.9 gr/ 8,500 PSI	33.0 gr/ 9,800 PSI	34.2 gr/ 11,100 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	—
1 1/8 oz	Longshot	Win. 209	Windjammer	33.4 gr/ 7,700 PSI	34.3 gr/ 8,800 PSI	35.3 gr/ 10,000 PSI	36.3 gr/ 11,100 PSI
1100 fps 1150 fps 1200 fps 1250 fps							
1 1/8 oz	700-X	Fed. 209A	Fed. 12S3	15.0 gr/ 9,300 PSI	16.0 gr/ 10,200 PSI	17.5 gr/ 11,500 PSI	—
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	Fed. 209A	Windjammer	15.5 gr/ 8,400 PSI	16.5 gr/ 9,500 PSI	17.5 gr/ 10,400 PSI	18.5 gr/ 11,100 PSI
1 1/8 oz	700-X	Rem. 209P	Fed. 12S3	15.0 gr/ 8,900 PSI	16.5 gr/ 10,200 PSI	17.5 gr/ 11,100 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	Rem. 209P	Windjammer	15.5 gr/ 7,600 PSI	16.5 gr/ 8,400 PSI	18.0 gr/ 9,600 PSI	19.0 gr/ 10,500 PSI
1 1/8 oz	700-X	Win. 209	Fed. 12S3	15.5 gr/ 9,000 PSI	16.5 gr/ 9,800 PSI	17.5 gr/ 10,900 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	—
1 1/8 oz	700-X	Win. 209	Windjammer	15.5 gr/ 8,000 PSI	16.5 gr/ 8,900 PSI	17.5 gr/ 9,800 PSI	19.0 gr/ 11,100 PSI
1 1/8 oz	PB	Fed. 209A	Fed. 12S4	18.5 gr/ 8,400 PSI	19.5 gr/ 8,800 PSI	21.0 gr/ 9,600 PSI	23.0 gr/ 10,900 PSI

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
12 GA., 2 3/4", REMINGTON STS, OR NITRO 27, OR GUN CLUB PLASTIC SHELLS (CONT.)							
				1100 fps	1150 fps	1200 fps	1250 fps
1 1/8 oz	PB	Fed. 209A	Rem. FIG. 8	19.5 gr / 7,500 PSI	20.5 gr / 8,100 PSI	22.0 gr / 8,900 PSI	23.5 gr / 9,600 PSI
1 1/8 oz	PB	Fed. 209A	WAA12	18.5 gr / 8,200 PSI	20.0 gr / 9,200 PSI	21.0 gr / 9,900 PSI	23.0 gr / 11,000 PSI
1 1/8 oz	PB	Fed. 209A	Windjammer	19.5 gr / 6,800 PSI	20.5 gr / 7,500 PSI	22.0 gr / 8,500 PSI	23.5 gr / 9,500 PSI
1 1/8 oz	PB	Rem. 209P	Fed. 12S4	19.0 gr / 7,700 PSI	20.0 gr / 8,400 PSI	21.5 gr / 9,300 PSI	23.0 gr / 10,000 PSI
1 1/8 oz	PB	Rem. 209P	Rem. FIG. 8	20.0 gr / 6,800 PS	21.5 gr / 7,500 PSI	23.0 gr / 8,400 PSI	24.5 gr / 9,300 PSI
1 1/8 oz	PB	Rem. 209P	WAA12	19.5 gr / 7,300 PSI	20.5 gr / 8,000 PSI	22.0 gr / 8,700 PSI	23.5 gr / 9,500 PSI
1 1/8 oz	PB	Rem. 209P	Windjammer	20.0 gr / 6,300 PSI	21.0 gr / 6,900 PSI	22.5 gr / 7,900 PSI	24.0 gr / 8,900 PSI
1 1/8 oz	PB	Win. 209	Fed. 12S4	19.0 gr / 7,700 PSI	20.5 gr / 8,500 PSI	21.5 gr / 9,100 PSI	23.5 gr / 10,400 PSI
1 1/8 oz	PB	Win. 209	Rem. FIG. 8	19.5 gr / 6,900 PSI	21.0 gr / 7,900 PSI	22.0 gr / 8,400 PSI	23.5 gr / 9,300 PSI
1 1/8 oz	PB	Win. 209	WAA12	19.0 gr / 7,700 PSI	20.0 gr / 8,400 PSI	22.0 gr / 9,400 PSI	23.5 gr / 10,200 PSI
1 1/8 oz	PB	Win. 209	Windjammer	20.0 gr / 6,700 PSI	21.0 gr / 7,300 PSI	22.5 gr / 8,200 PSI	24.0 gr / 9,100 PSI
1 1/8 oz	SR 7625	Fed. 209A	Fed. 12S3	20.0 gr / 7,300 PSI	21.0 gr / 8,100 PSI	22.5 gr / 9,100 PSI	24.0 gr / 10,000 PSI
1 1/8 oz	SR 7625	Fed. 209A	Rem. RXP12	20.5 gr / 7,200 PSI	22.0 gr / 8,000 PSI	23.0 gr / 8,600 PSI	24.5 gr / 9,400 PSI
1 1/8 oz	SR 7625	Fed. 209A	WAA12	19.5 gr / 7,900 PSI	20.5 gr / 8,500 PSI	22.0 gr / 9,700 PSI	23.0 gr / 10,500 PSI
1 1/8 oz	SR 7625	Fed. 209A	Windjammer	21.0 gr / 6,500 PSI	22.0 gr / 7,200 PSI	23.5 gr / 7,800 PSI	25.0 gr / 8,400 PSI
1 1/8 oz	SR 7625	Rem. 209P	Fed. 12S3	21.0 gr / 7,200 PSI	22.0 gr / 7,800 PSI	23.5 gr / 8,700 PSI	24.5 gr / 9,500 PSI
1 1/8 oz	SR 7625	Rem. 209P	Rem. RXP12	21.0 gr / 6,500 PSI	22.5 gr / 7,400 PSI	24.0 gr / 8,200 PSI	25.5 gr / 9,000 PSI
1 1/8 oz	SR 7625	Rem. 209P	WAA12	20.0 gr / 7,100 PSI	21.5 gr / 8,000 PSI	23.0 gr / 8,700 PSI	24.5 gr / 9,400 PSI
1 1/8 oz	SR 7625	Rem. 209P	Windjammer	21.5 gr / 6,000 PSI	23.0 gr / 6,700 PSI	24.0 gr / 7,300 PSI	25.5 gr / 8,400 PSI
1 1/8 oz	SR 7625	Win. 209	Fed. 12S3	20.5 gr / 6,700 PSI	22.0 gr / 7,800 PSI	23.5 gr / 8,800 PSI	24.5 gr / 9,600 PSI
1 1/8 oz	SR 7625	Win. 209	Rem. RXP12	21.0 gr / 6,200 PSI	22.5 gr / 7,400 PSI	23.5 gr / 7,900 PSI	25.0 gr / 8,800 PSI
1 1/8 oz	SR 7625	Win. 209	WAA12	20.5 gr / 7,000 PSI	22.0 gr / 7,900 PSI	23.0 gr / 8,600 PSI	24.5 gr / 9,500 PSI
1 1/8 oz	SR 7625	Win. 209	Windjammer	21.5 gr / 5,900 PSI	22.5 gr / 6,500 PSI	24.0 gr / 7,700 PSI	25.0 gr / 8,500 PSI
1 1/8 oz	800-X	CCI 209	Fed. 12S3	19.5 gr / 7,000 PSI	20.5 gr / 7,600 PSI	22.0 gr / 8,500 PSI	23.5 gr / 9,400 PSI
1 1/8 oz	800-X	CCI 209	Rem. FIG. 8	19.5 gr / 6,500 PSI	21.0 gr / 7,200 PSI	22.0 gr / 7,600 PSI	24.0 gr / 8,700 PSI
1 1/8 oz	800-X	CCI 209	WAA12	19.5 gr / 6,900 PSI	20.5 gr / 7,500 PSI	21.5 gr / 8,200 PSI	23.0 gr / 9,100 PSI
1 1/8 oz	800-X	CCI 209	Windjammer	20.0 gr / 6,000 PSI	21.0 gr / 6,700 PSI	22.0 gr / 7,300 PSI	23.5 gr / 8,200 PSI
1 1/8 oz	800-X	Fed. 209A	Fed. 12S3	19.0 gr / 7,300 PSI	20.0 gr / 8,000 PSI	21.5 gr / 9,000 PSI	23.0 gr / 9,900 PSI
1 1/8 oz	800-X	Fed. 209A	Rem. FIG. 8	19.5 gr / 6,900 PSI	20.5 gr / 7,500 PSI	22.0 gr / 8,400 PSI	23.5 gr / 9,200 PSI
1 1/8 oz	800-X	Fed. 209A	WAA12	19.0 gr / 7,200 PSI	20.0 gr / 8,000 PSI	21.0 gr / 8,700 PSI	22.5 gr / 9,700 PSI
1 1/8 oz	800-X	Fed. 209A	Windjammer	20.0 gr / 6,500 PSI	21.0 gr / 7,200 PSI	22.0 gr / 7,900 PSI	23.0 gr / 8,600 PSI
1 1/8 oz	800-X	Win. 209	Fed. 12S3	19.0 gr / 6,800 PSI	20.0 gr / 7,500 PSI	21.5 gr / 8,500 PS	23.0 gr / 9,600 PSI
1 1/8 oz	800-X	Win. 209	Rem. FIG. 8	19.5 gr / 6,500 PSI	20.5 gr / 7,200 PSI	22.0 gr / 8,100 PSI	23.5 gr / 8,900 PSI
1 1/8 oz	800-X	Win. 209	WAA12	19.0 gr / 6,900 PSI	20.0 gr / 7,800 PSI	21.0 gr / 8,600 PSI	22.5 gr / 9,600 PSI
1 1/8 oz	800-X	Win. 209	Windjammer	20.0 gr / 6,200 PSI	21.0 gr / 6,900 PSI	22.0 gr / 7,500 PSI	23.5 gr / 8,400 PSI
				980 fps	1035 fps	1090 fps	1145 fps
1 1/8 oz	WAA1Lite	Ched. 209	Rem. FIG. 8	12.8 gr / 8,200 PSI	13.9 gr / 9,500 PSI	14.9 gr / 10,800 PSI	-
1 1/8 oz	WAA1Lite	Ched. 209	WAA12	12.5 gr / 8,200 PSI	13.6 gr / 10,300 PSI	14.7 gr / 11,500 PSI	-
1 1/8 oz	WAA1Lite	Ched. 209	WJ-12-RPL	12.8 gr / 7,400 PSI	13.9 gr / 8,600 PSI	15.2 gr / 10,000 PSI	16.1 gr / 11,000 PSI
1 1/8 oz	WAA1Lite	Fed. 209A	Rem. FIG. 8	12.9 gr / 7,900 PSI	13.8 gr / 9,300 PSI	14.8 gr / 10,800 PSI	-
1 1/8 oz	WAA1Lite	Fed. 209A	WAA12	13.1 gr / 8,400 PSI	13.9 gr / 9,500 PSI	14.8 gr / 10,800 PSI	-
1 1/8 oz	WAA1Lite	Fed. 209A	WJ-12-RPL	12.8 gr / 7,600 PSI	13.7 gr / 8,700 PSI	14.6 gr / 9,800 PSI	15.5 gr / 10,900 PSI
1 1/8 oz	WAA1Lite	Rem. 209P	Rem. FIG. 8	12.9 gr / 8,100 PSI	13.9 gr / 9,500 PSI	14.9 gr / 10,900 PSI	-
1 1/8 oz	WAA1Lite	Rem. 209P	WAA12	12.7 gr / 8,000 PSI	13.7 gr / 9,500 PSI	14.8 gr / 11,100 PSI	-

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
12 GA., 2 3/4", REMINGTON STS, OR NITRO 27, OR GUN CLUB PLASTIC SHELLS (CONT.)							
				980 fps	1035 fps	1090 fps	1145 fps
1 1/8 oz	WAA1Lite	Rem. 209P	WJ-12-RPL	13.2 gr / 7,300 PSI	14.2 gr / 8,700 PSI	15.1 gr / 9,700 PSI	16.0 gr / 11,000 PSI
1 1/8 oz	WAA1Lite	Win. 209	Rem. FIG. 8	13.0 gr / 7,500 PSI	14.0 gr / 8,900 PSI	15.0 gr / 10,200 PSI	15.6 gr / 11,500 PSI
1 1/8 oz	WAA1Lite	Win. 209	WAA12	12.9 gr / 7,600 PSI	13.9 gr / 9,400 PSI	14.7 gr / 10,800 PSI	-
1 1/8 oz	WAA1Lite	Win. 209	WJ-12-RPL	13.0 gr / 7,100 PSI	14.0 gr / 8,300 PSI	15.2 gr / 9,700 PSI	16.0 gr / 10,900 PSI
				1145 fps	1200 fps	1255 fps	1310 fps
1 1/8 oz	WST	CCI 209	Rem. FIG. 8	18.5 gr / 10,200 PSI	-	-	-
1 1/8 oz	WST	CCI 209	Rem. RXP12	18.5 gr / 10,800 PSI	-	-	-
1 1/8 oz	WST	CCI 209	WAA12	18.0 gr / 10,800 PSI	-	-	-
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	Ched. 209	DRV-12	18.0 gr / 8,500 PSI	19.4 gr / 10,000 PSI	20.8 gr / 11,500 PSI	-
1 1/8 oz	Super Hcp	Ched. 209	Rem. FIG. 8	17.8 gr / 8,400 PSI	19.3 gr / 9,800 PSI	20.9 gr / 11,400 PSI	-
1 1/8 oz	Super Hcp	Ched. 209	WAA12	17.9 gr / 8,300 PSI	19.3 gr / 9,800 PSI	20.8 gr / 11,300 PSI	-
1 1/8 oz	Super Hcp	Ched. 209	WJ-12-RPL	18.0 gr / 7,200 PSI	19.5 gr / 8,400 PSI	21.1 gr / 9,900 PSI	22.8 gr / 11,400 PSI
1 1/8 oz	Super Hcp	Fed. 209A	DRV-12	17.8 gr / 9,200 PSI	19.3 gr / 10,600 PSI	-	-
1 1/8 oz	Super Hcp	Fed. 209A	Rem. FIG. 8	17.6 gr / 8,600 PSI	19.1 gr / 10,200 PSI	-	-
1 1/8 oz	Super Hcp	Fed. 209A	WAA12	17.4 gr / 8,800 PSI	19.2 gr / 10,300 PSI	-	-
1 1/8 oz	Super Hcp	Fed. 209A	WJ-12-RPL	18.0 gr / 7,500 PSI	19.3 gr / 8,600 PSI	20.6 gr / 9,900 PSI	21.8 gr / 11,100 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
				1145 fps	1310 fps	1365 fps	1400 fps
1 1/8 oz	WSF	Win. 209	Fed. 12S3	-	-	28.0 gr / 8,900 PSI	29.0 gr / 9,500 PSI
1 1/8 oz	WSF	Win. 209	WAA12	-	27.0 gr / 9,700 PSI	28.5 gr / 10,700 PSI	-
				1220 fps	1330 fps		
1 1/4 oz	Universal	CCI 209	Rem. SP12	23.7 gr / 9,200 PSI	-		
1 1/4 oz	Universal	CCI 209	WAA12F114	23.1 gr / 10,800 PSI	-		
1 1/4 oz	Universal	CCI 209M	Rem. SP12	23.5 gr / 10,800 PSI	-		
1 1/4 oz	Universal	CCI 209M	WAA12F114	23.0 gr / 11,300 PSI	-		
1 1/4 oz	Universal	Fed. 209A	Rem. SP12	22.5 gr / 11,300 PSI	-		
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	-		
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		
				1330 fps	1385 fps	1440 fps	1495 fps
1 1/4 oz	Longshot	CCI 209M	Fed. 12S4	27.0 gr / 11,400 PSI	-	-	-

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
12 GA., 2 3/4", REMINGTON STS, OR NITRO 27, OR GUN CLUB PLASTIC SHELLS (CONT.)							
				1330 fps	1385 fps	1440 fps	1495 fps
1 1/4 oz	Longshot	CCI 209M	Rem. R12L	27.7 gr / 10,600 PSI	28.7 gr / 11,500 PSI	—	—
1 1/4 oz	Longshot	CCI 209M	WAA12F114	26.4 gr / 11,500 PSI	—	—	—
1 1/4 oz	Longshot	Fed. 209A	Fed. 12S4	27.0 gr / 11,500 PSI	—	—	—
1 1/4 oz	Longshot	Fed. 209A	Rem. R12L	27.5 gr / 10,600 PSI	—	—	—
1 1/4 oz	Longshot	Fed. 209A	WAA12F114	27.3 gr / 11,400 PSI	—	—	—
1 1/4 oz	Longshot	Rem. 209P	Fed. 12S4	27.4 gr / 10,900 PSI	—	—	—
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	Fed. 12S4	28.3 gr / 9,900 PSI	29.6 gr / 11,100 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	—	—
				1225 fps	1275 fps	1325 fps	
1 1/4 oz	PB	Rem. 209P	Rem. SP12	23.0 gr / 10,600 PSI	24.5 gr / 11,500 PSI	—	—
1 1/4 oz	SR 7625	Fed. 209A	Rem. SP12	24.0 gr / 10,600 PSI	25.5 gr / 11,500 PSI	—	—
1 1/4 oz	SR 7625	Fed. 209A	WAA12R	24.0 gr / 9,900 PSI	26.0 gr / 11,300 PSI	—	—
1 1/4 oz	SR 7625	Rem. 209P	Rem. SP12	—	27.5 gr / 10,600 PSI	28.5 gr / 11,500 PSI	—
1 1/4 oz	SR 7625	Rem. 209P	WAA12R	—	27.0 gr / 10,300 PSI	28.5 gr / 11,400 PSI	—
1 1/4 oz	SR 7625	Win. 209	Rem. SP12	—	26.5 gr / 10,800 PSI	27.5 gr / 11,500 PSI	—
1 1/4 oz	SR 7625	Win. 209	WAA12R	—	27.0 gr / 10,200 PSI	29.0 gr / 11,500 PSI	—
1 1/4 oz	SR 4756	Fed. 209A	Fed. 12S4	26.5 gr / 10,700 PSI	27.5 gr / 11,400 PSI	—	—
1 1/4 oz	SR 4756	Fed. 209A	Rem. RP12	—	26.5 gr / 10,500 PSI	28.0 gr / 11,500 PSI	—
1 1/4 oz	SR 4756	Fed. 209A	WAA12R	—	28.0 gr / 10,600 PSI	29.0 gr / 11,400 PSI	—
1 1/4 oz	SR 4756	Rem. 209P	Rem. SP12	—	30.0 gr / 9,300 PSI	31.5 gr / 10,400 PSI	—
1 1/4 oz	800-X	Fed. 209A	Fed. 12S3	—	24.0 gr / 11,200 PSI	—	—
1 1/4 oz	800-X	Fed. 209A	Rem. FIG. 8	—	24.0 gr / 10,200 PSI	25.5 gr / 11,100 PSI	—
1 1/4 oz	800-X	Fed. 209A	WAA12	—	24.0 gr / 11,400 PSI	—	—
1 1/4 oz	800-X	Fed. 209A	Windjammer	—	24.0 gr / 9,900 PSI	25.5 gr / 10,900 PSI	—
1 1/4 oz	800-X	Rem. 209P	Fed. 12S3	—	24.5 gr / 10,500 PSI	26.0 gr / 11,400 PSI	—
1 1/4 oz	800-X	Rem. 209P	Rem. SP12	—	24.5 gr / 9,500 PSI	26.0 gr / 10,200 PSI	—
1 1/4 oz	800-X	Rem. 209P	WAA12	—	24.5 gr / 10,300 PSI	26.0 gr / 11,100 PSI	—
1 1/4 oz	800-X	Rem. 209P	Windjammer	—	25.0 gr / 9,000 PSI	26.5 gr / 10,000 PSI	—
1 1/4 oz	800-X	Win. 209	Fed. 12S4	—	24.5 gr / 10,600 PSI	26.0 gr / 11,500 PSI	—
1 1/4 oz	800-X	Win. 209	Rem. SP12	—	24.5 gr / 10,100 PSI	26.0 gr / 11,000 PSI	—
				1225 fps	1275 fps	1325 fps	
1 1/4 oz	800-X	Win. 209	WAA12	—	24.5 gr / 11,000 PSI	25.5 gr / 11,500 PSI	—
1 1/4 oz	800-X	Win. 209	Windjammer	—	24.5 gr / 9,700 PSI	—	—
				1220 fps	1275 fps	1330 fps	
1 1/4 oz	WSF	CCI 209	WAA12F114	25.5 gr / 9,100 PSI	27.0 gr / 10,200 PSI	28.5 gr / 10,900 PSI	—
1 1/4 oz	WSF	Win. 209	WAA12F114	—	27.5 gr / 9,700 PSI	29.5 gr / 10,400 PSI	—
				1185 fps	1240 fps	1295 fps	
1 3/8 oz	Longshot	CCI 209M	Fed. 12S4	23.1 gr / 11,200 PSI	—	—	—
1 3/8 oz	Longshot	CCI 209M	G/BP Sport	23.1 gr / 10,000 PSI	24.9 gr / 11,500 PSI	—	—
1 3/8 oz	Longshot	CCI 209M	Rem. SP12	24.1 gr / 10,300 PSI	25.3 gr / 11,300 PSI	—	—
1 3/8 oz	Longshot	FED. 209A	FED. 12S4	22.5 gr / 10,800 PSI	—	—	—

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
12 GA., 2 3/4", REMINGTON STS, OR NITRO 27, OR GUN CLUB PLASTIC SHELLS (CONT.)							
				1185 fps	1240 fps	1295 fps	
1 3/8 oz	Longshot	FED. 209A	G/BP Sport	23.1 gr / 10,100 PSI	24.7 gr / 11,500 PSI	—	—
1 3/8 oz	Longshot	FED. 209A	Rem. SP12	22.9 gr / 9,700 PSI	25.0 gr / 11,000 PSI	—	—
1 3/8 oz	Longshot	REM. 209P	Fed. 12S4	23.0 gr / 10,600 PSI	—	—	—
1 3/8 oz	Longshot	REM. 209P	G/BP Sport	23.4 gr / 9,300 PSI	25.2 gr / 10,800 PSI	—	—
1 3/8 oz	Longshot	REM. 209P	Rem. SP12	23.4 gr / 9,300 PSI	26.1 gr / 10,200 PSI	27.7 gr / 11,500 PSI	—
1 3/8 oz	Longshot	WIN. 209	FED. 12S4	23.5 gr / 9,900 PSI	—	—	—
1 3/8 oz	Longshot	WIN. 209	G/BP Sport	23.5 gr / 9,400 PSI	25.3 gr / 10,500 PSI	—	—
1 3/8 oz	Longshot	WIN. 209	Rem. SP12	24.9 gr / 8,800 PSI	26.1 gr / 10,400 PSI	—	—
				1100 fps	1150 fps	1200 fps	1250 fps
1 3/8 oz	PB	Fed. 209A	Rem. SP12	19.5 gr / 11,000 PSI	—	—	—
1 3/8 oz	PB	Fed. 209A	WAA12R	19.5 gr / 10,900 PSI	—	—	—
1 3/8 oz	PB	Rem. 209P	Rem. SP12	—	21.0 gr / 11,000 PSI	—	—
1 3/8 oz	PB	Rem. 209P	WAA12R	—	21.5 gr / 10,900 PSI	—	—
1 3/8 oz	PB	Win. 209	Rem. RP12	20.5 gr / 11,100 PSI	—	—	—
1 3/8 oz	PB	Win. 209	WAA12R	—	21.5 gr / 11,000 PSI	—	—
1 3/8 oz	SR 7625	Fed. 209A	Rem. SP12	22.0 gr / 11,200 PSI	—	—	—
1 3/8 oz	SR 7625	Fed. 209A	WAA12R	21.5 gr / 10,800 PSI	—	—	—
1 3/8 oz	SR 7625	Rem. 209P	Rem. RP12	—	—	24.5 gr / 10,800 PSI	—
1 3/8 oz	SR 7625	Rem. 209P	WAA12R	—	—	25.0 gr / 11,000 PSI	—
1 3/8 oz	SR 7625	Win. 209	Rem. RP12	—	23.0 gr / 11,100 PSI	—	—
1 3/8 oz	SR 7625	Win. 209	WAA12R	—	23.5 gr / 10,900 PSI	—	—
1 3/8 oz	SR 4756	Fed. 209A	Rem. SP12	—	—	26.0 gr / 11,000 PSI	—
1 3/8 oz	SR 4756	Fed. 209A	WAA12R	—	—	26.0 gr / 11,100 PSI	—
1 3/8 oz	SR 4756	Rem. 209P	Rem. SP12	—	—	—	30.0 gr / 10,900 PSI
				1300 fps			
1 3/8 oz	SR 4756	Rem. 209P	WAA12R	30.5 gr / 11,100 PSI	—	—	—
				1100 fps	1150 fps	1200 fps	1250 fps
1 3/8 oz	SR 4756	Win. 209	Rem. RP12	—	—	—	29.0 gr / 11,100 PSI
1 3/8 oz	SR 4756	Win. 209	WAA12R	—	—	—	28.5 gr / 10,900 PSI
1 3/8 oz	800-X	Fed. 209A	Rem. RP12	—	—	22.5 gr / 11,000 PSI	—
1 3/8 oz	800-X	Fed. 209A	WAA12R	—	—	23.0 gr / 11,100 PSI	—
				1225 fps	1250 fps	1275 fps	
1 3/8 oz	800-X	Rem. 209P	Fed. 12S4	24.0 gr / 11,100 PSI	—	—	—
1 3/8 oz	800-X	Rem. 209P	Rem. SP12	—	—	26.5 gr / 11,000 PSI	—
1 3/8 oz	800-X	Rem. 209P	WAA12R	—	—	25.5 gr / 11,100 PSI	—
1 3/8 oz	800-X	Win. 209	Rem. SP12	24.0 gr / 11,000 PSI	—	—	—
1 3/8 oz	800-X	Win. 209	WAA12R	—	24.5 gr / 10,900 PSI	—	—
				1205 fps	1260 fps		
1 1/2 oz	Longshot	Rem. 209P	Rem. RP12	25.0 gr / 11,500 PSI	—	—	—
1 1/2 oz	Longshot	Rem. 209P	WAA12R	24.8 gr / 11,000 PSI	—	—	—
1 1/2 oz	Longshot	Win. 209	Rem. RP12	25.6 gr / 10,400 PSI	—	—	—
1 1/2 oz	Longshot	Win. 209	WAA12R	26.1 gr / 10,500 PSI	27.0 gr / 11,300 PSI	—	—

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*
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12 GA., 2 3/4", REMINGTON STS, OR NITRO 27, OR GUN CLUB PLASTIC SHELLS (CONT.)

1150 fps				
1 1/2 oz	SR 4756	Rem. 209P	Rem. RP12	27.0 gr/ 11,200 PSI
1 1/2 oz	SR 4756	Rem. 209P	WAA12R	27.5 gr/ 11,000 PSI
1 1/2 oz	SR 4756	Win. 209	WAA12R	26.5 gr/ 11,200 PSI
1 1/2 oz	800-X	Fed. 209A	Rem. RP12	22.0 gr/ 11,200 PSI
1 1/2 oz	800-X	Fed. 209A	WAA12R	22.5 gr/ 11,300 PSI
1 1/2 oz	800-X	Rem. 209P	Rem. RP12	23.0 gr/ 11,200 PSI
1 1/2 oz	800-X	Rem. 209P	WAA12R	23.5 gr/ 11,200 PSI
1 1/2 oz	800-X	Win. 209	Rem. RP12	22.5 gr/ 11,300 PSI
1 1/2 oz	800-X	Win. 209	WAA12R	23.0 gr/ 11,200 PSI

12 GA., 2 3/4", WINCHESTER COMPRESSION-FORMED AA AND HS PLASTIC SHELLS

1250 fps					1300 fps					1350 fps					1400 fps				
7/8 oz	Titewad	Fed. 209A	WAA12L	17.8 gr/ 8,600 PSI	18.8 gr/ 9,100 PSI	19.8 gr/ 10,700 PSI	—			—			—						
7/8 oz	Titewad	Rem. 209P	Fed. 12SO	17.4 gr/ 9,200 PSI	18.6 gr/ 10,100 PSI	19.4 gr/ 11,300 PSI	—			—			—						
7/8 oz	Titewad	Fio. 616	Rem. TGT 12	17.5 gr/ 8,100 PSI	19.2 gr/ 8,900 PSI	20.1 gr/ 9,800 PSI	21.3 gr/ 10,500 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	Fed. 12SO	17.3 gr/ 9,300 PSI	18.5 gr/ 10,400 PSI	19.5 gr/ 11,300 PSI	—			—			—						
7/8 oz	Titewad	Win. 209	Rem. TGT12	17.1 gr/ 9,300 PSI	18.1 gr/ 9,900 PSI	19.5 gr/ 10,800 PSI	—			—			—						
7/8 oz	Titewad	Win. 209	WAA12L	17.8 gr/ 8,600 PSI	19.1 gr/ 9,500 PSI	20.2 gr/ 10,300 PSI	21.4 gr/ 10,800 PSI			—			—						

1200 fps					1250 fps					1300 fps					1350 fps				
7/8 oz	Clays	CCI 209M	Rem. TGT 12	16.5 gr/ 7,100 PSI	17.5 gr/ 7,800 PSI	18.5 gr/ 8,900 PSI	—			—			—						
7/8 oz	Clays	CCI 209M	WAA12L	15.8 gr/ 7,500 PSI	17.1 gr/ 9,200 PSI	18.0 gr/ 10,600 PSI	—			—			—						
7/8 oz	Clays	Fed. 209A	Fed. 12SO	16.0 gr/ 8,800 PSI	17.4 gr/ 9,400 PSI	18.3 gr/ 11,300 PSI	—			—			—						
7/8 oz	Clays	Fed. 209A	Rem. TGT12	16.0 gr/ 6,900 PSI	17.2 gr/ 9,300 PSI	18.5 gr/ 9,900 PSI	19.5 gr/ 11,400 PSI			—			—						
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	Fed. 209A	WAA12SL	—	18.0 gr/ 8,500 PSI	19.0 gr/ 9,700 PSI	—			—			—						
7/8 oz	Clays	Rem. 209P	Fed. 12SO	16.8 gr/ 7,100 PSI	18.0 gr/ 8,600 PSI	19.0 gr/ 9,200 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	Fed. 12SO	17.1 gr/ 7,400 PSI	18.0 gr/ 8,000 PSI	20.0 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	WAA12SL	16.9 gr/ 7,100 LUP	18.1 gr/ 7,400 LUP	19.7 gr/ 8,400 LUP	—			—			—						
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			—			—						

1250 fps					1300 fps					1350 fps					1400 fps				
7/8 oz	Internat'l	CCI 209M	Rem. TGT12	19.0 gr/ 7,400 PSI	20.0 gr/ 8,900 PSI	20.8 gr/ 8,900 PSI	22.0 gr/ 10,400 PSI			—			—						
7/8 oz	Internat'l	CCI 209M	WAA12L	18.8 gr/ 7,600 PSI	20.0 gr/ 8,000 PSI	21.0 gr/ 9,500 PSI	22.4 gr/ 10,500 PSI			—			—						
7/8 oz	Internat'l	CCI 209M	Fed. 12SO	19.0 gr/ 8,200 PSI	20.0 gr/ 9,100 PSI	21.0 gr/ 10,200 PSI	22.0 gr/ 11,000 PSI			—			—						
7/8 oz	Internat'l	Ched. 209	WAA12L	20.0 gr/ 7,000 PSI	21.2 gr/ 7,500 PSI	22.0 gr/ 8,400 PSI	22.8 gr/ 9,300 PSI			—			—						
7/8 oz	Internat'l	Fed. 209A	Rem. TGT12	18.6 gr/ 8,300 PSI	19.7 gr/ 9,000 PSI	20.6 gr/ 10,000 PSI	22.0 gr/ 10,800 PSI			—			—						
7/8 oz	Internat'l	Fed. 209A	WAA12SL	20.0 gr/ 7,800 PSI	21.0 gr/ 8,600 PSI	22.0 gr/ 9,500 PSI	—			—			—						
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			—			—						

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*
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12 GA., 2 3/4", WINCHESTER COMPRESSION-FORMED AA AND HS PLASTIC SHELLS (CONT.)

1250 fps					1300 fps					1350 fps					1400 fps				
7/8 oz	Internat'l	Win. 209	Fed. 12SO	19.5 gr/ 8,100 PSI	20.9 gr/ 8,500 PSI	21.9 gr/ 9,500 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			—			—						

1150 fps					1200 fps					1250 fps					1325 fps				
24 gm	700-X	Fed. 209A	Fed. 12SO	15.0 gr/ 6,400 PSI	16.0 gr/ 7,100 PSI	17.0 gr/ 7,900 PSI	18.5 gr/ 9,000 PSI			—			—						
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	Fed. 12SO	15.0 gr/ 5,000 PSI	16.5 gr/ 5,600 PSI	18.0 gr/ 6,300 PSI	19.5 gr/ 7,600 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	Fed. 12SO	14.5 gr/ 6,600 PSI	15.5 gr/ 7,300 PSI	17.0 gr/ 8,300 PSI	18.5 gr/ 9,300 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			—			—						
24 gm	PB	Fed. 209A	Fed. 12SO	18.5 gr/ 5,500 PSI	19.5 gr/ 6,000 PSI	21.0 gr/ 6,600 PSI	23.0 gr/ 7,900 PSI			—			—						
24 gm	PB	Fed. 209A	Rem. FIG. 8	18.0 gr/ 5,200 PSI	19.5 gr/ 5,800 PSI	21.0 gr/ 6,500 PSI	23.0 gr/ 7,200 PSI			—			—						
24 gm	PB	Fed. 209A	WAA12SL	18.0 gr/ 5,800 PSI	19.0 gr/ 6,200 PSI	20.5 gr/ 6,900 PSI	22.5 gr/ 7,800 PSI			—			—						
24 gm	PB	Rem. 209P	Fed. 12SO	19.5 gr/ 4,900 PSI	20.5 gr/ 5,400 PSI	22.0 gr/ 6,100 PSI	24.0 gr/ 6,800 PSI			—			—						
24 gm	PB	Rem. 209P	Rem. FIG. 8	19.5 gr/ 4,500 PSI	20.5 gr/ 5,000 PSI	22.0 gr/ 5,800 PSI	23.5 gr/ 6,700 PSI			—			—						
24 gm	PB	Rem. 209P	WAA12SL	18.5 gr/ 4,800 PSI	20.0 gr/ 5,400 PSI	21.5 gr/ 6,100 PSI	23.5 gr/ 7,200 PSI			—			—						
24 gm	PB	Win. 209	Fed. 12SO	19.0 gr/ 5,200 PSI	20.0 gr/ 5,800 PSI	21.5 gr/ 6,600 PSI	23.0 gr/ 7,500 PSI			—			—						
24 gm	PB	Win. 209	Rem. FIG. 8	19.0 gr/ 4,900 PSI	20.5 gr/ 5,400 PSI	22.0 gr/ 6,100 PSI	23.5 gr/ 6,800 PSI			—			—						
24 gm	PB	Win. 209	WAA12SL	18.0 gr/ 5,500 PSI	19.5 gr/ 6,000 PSI	21.0 gr/ 6,500 PSI	22.5 gr/ 7,500 PSI			—			—						
24 gm	SR 7625	Fed. 209A	Fed. 12SO	22.0 gr/ 4,400 PSI	23.0 gr/ 4,800 PSI	24.5 gr/ 5,400 PSI	26.0 gr/ 6,400 PSI			—			—						
24 gm	SR 7625	Fed. 209A	Rem. FIG. 8	22.0 gr/ 4,200 PSI	23.0 gr/ 4,700 PSI	24.5 gr/ 5,300 PSI	26.5 gr/ 6,200 PSI			—			—						
24 gm	SR 7625	Fed. 209A	WAA12SL	21.0 gr/ 4,600 PSI	22.5 gr/ 5,000 PSI	24.0 gr/ 5,400 PSI	26.0 gr/ 6,400 PSI			—			—						
24 gm	SR 7625	Rem. 209P	Fed. 12SO	22.5 gr/ 4,000 PSI	24.0 gr/ 4,400 PSI	25.5 gr/ 5,200 PSI	27.0 gr/ 6,000 PSI			—			—						
24 gm	SR 7625	Rem. 209P	Rem. FIG. 8	23.0 gr/ 3,700 PSI	24.0 gr/ 4,200 PSI	25.5 gr/ 4,800 PSI	27.5 gr/ 5,700 PSI			—			—						
24 gm	SR 7625	Rem. 209P	WAA12SL	22.5 gr/ 3,700 PSI	24.0 gr/ 4,400 PSI	25.0 gr/ 4,800 PSI	27.0 gr/ 5,500 PSI			—			—						
24 gm	SR 7625	Win. 209	Fed. 12SO	22.0 gr/ 4,100 PSI	23.5 gr/ 4,700 PSI	25.0 gr/ 5,300 PSI	27.0 gr/ 6,200 PSI			—			—						
24 gm	SR 7625	Win. 209	Rem. FIG. 8	22.0 gr/ 4,300 PSI	23.0 gr/ 4,600 PSI	24.5 gr/ 5,100 PSI	26.5 gr/ 5,900 PSI			—			—						
24 gm	SR 7625	Win. 209	WAA12SL	22.5 gr/ 4,200 PSI	23.5 gr/ 4,700 PSI	25.0 gr/ 5,300 PSI	27.0 gr/ 6,000 PSI			—			—						

1050 fps					1100 fps					1150 fps					
7/8 oz	WAA1Lite	Ched. 209	Fed. 12SO	12.8 gr/ 5,900 PSI	13.6 gr/ 6,800 PSI	14.3 gr/ 7,600 PSI	—			—			—		
7/8 oz	WAA1Lite	Ched. 209	WAA12SL	12.5 gr/ 5,500 PSI	13.4 gr/ 6,600 PSI	14.2 gr/ 7,500 PSI	—			—			—		
7/8 oz	WAA1Lite	Fed. 209A	Fed. 12SO	12.8 gr/ 6,000 PSI	13.6 gr/ 6,900 PSI	14.5 gr/ 7,800 PSI	—			—			—		
7/8 oz	WAA1Lite	Fed. 209A	WAA12SL	12.6 gr/ 5,400 PSI	13.4 gr/ 6,500 PSI	14.2 gr/ 7,600 PSI	—			—			—		
7/8 oz	WAA1Lite	Rem. 209P	Fed. 12SO	12.7 gr/ 5,900 PSI	13.4 gr/ 6,800 PSI	14.3 gr/ 8,000 PSI	—			—			—		
7/8 oz	WAA1Lite	Rem. 209P	WAA12SL	12.6 gr/ 5,400 PSI	13.4 gr/ 6,500 PSI	14.1 gr/ 7,400 PSI	—			—			—		
7/8 oz	WAA1Lite	Win. 209	Fed. 12SO	13.1 gr/ 5,100 PSI	14.0 gr/ 6,300 PSI	14.9 gr/ 7,500 PSI	—			—			—		
7/8 oz	WAA1Lite	Win. 209	WAA12SL	12.8 gr/ 5,500 PSI	13.6 gr/ 6,500 PSI	14.5 gr/ 7,700 PSI	—			—			—		

1325 fps					1355 fps					1400 fps					
7/8 oz	WST	CCI 209	WAA12L	—	—	23.5 gr/ 7,200 PSI	—			—			—		
7/8 oz	WST	Fed. 209A	WAA12L	—	—	23.5 gr/ 7,400 PSI	—			—			—		

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
12 GA., 2 3/4", WINCHESTER COMPRESSION-FORMED AA AND HS PLASTIC SHELLS (CONT.)							
				1325 fps	1355 fps	1400 fps	
7/8 oz	WST*	Win. 209	WAA12L	—	22.0 gr / 7,900 PSI	—	23.5 gr / 8,200 PSI
				980 fps	1035 fps	1090 fps	1145 fps
**26 gm	WAA12L	Win. 209	WAA12SL	12.0 gr / 5,600 PSI	13.0 gr / 6,800 PSI	13.8 gr / 7,600 PSI	14.8 gr / 8,800 PSI
				1125 fps	1180 fps	1235 fps	1290 fps
1 oz	Titewad	Fed. 209A	Rem.TGT12	15.7 gr / 7,600 PSI	17.3 gr / 8,800 PSI	18.1 gr / 10,000 PSI	19.4 gr / 11,200 PSI
1 oz	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	Fio. 616	Windjammer	—	16.6 gr / 8,300 PSI	18.2 gr / 9,600 PSI	19.5 gr / 10,700 PSI
1 oz	Titewad	Rem. 209P	Fed. 12S0	15.7 gr / 8,700 PSI	16.5 gr / 10,000 PSI	18.0 gr / 11,200 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	Rem. 209P	Windjammer	—	17.3 gr / 7,900 PSI	18.3 gr / 9,400 PSI	19.5 gr / 9,900 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	CCI 209	Fed. 12S0	15.8 gr / 9,000 PSI	17.0 gr / 10,500 PSI	—	—
1 oz	Clays	CCI 209	Rem. TGT 12	16.6 gr / 6,700 LUP	17.7 gr / 7,700 LUP	18.7 gr / 8,500 LUP	19.8 gr / 9,500 LUP
1 oz	Clays	CCI 209	WAA12SL	15.7 gr / 7,900 PSI	17.0 gr / 8,700 PSI	18.4 gr / 10,900 PSI	—
1 oz	Clays	CCI 209	Windjammer	16.3 gr / 6,500 PSI	17.5 gr / 7,600 PSI	18.8 gr / 9,000 PSI	20.3 gr / 10,700 PSI
1 oz	Clays	Fed. 209A	Rem.TGT12	15.2 gr / 7,800 PSI	16.7 gr / 9,500 PSI	18.2 gr / 11,000 PSI	—
1 oz	Clays	Fed. 209A	WAA12SL	15.4 gr / 8,500 PSI	16.9 gr / 9,000 PSI	18.4 gr / 10,900 PSI	—
1 oz	Clays	Fed. 209A	Windjammer	15.1 gr / 7,900 PSI	16.8 gr / 9,200 PSI	18.2 gr / 11,200 PSI	—
1 oz	Clays	Rem. 209P	Fed. 12S0	16.0 gr / 8,200 PSI	17.4 gr / 9,400 PSI	18.7 gr / 11,400 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
				1180 fps	1235 fps	1290 fps	1345 fps
1 oz	Internat'l	CCI 209	Rem.TGT12	18.0 gr / 7,400 PSI	19.2 gr / 8,700 PSI	20.2 gr / 10,000 PSI	—
1 oz	Internat'l	CCI 209	WAA12SL	19.2 gr / 6,700 LUP	20.6 gr / 7,500 LUP	22.3 gr / 8,800 LUP	—
1 oz	Internat'l	Fed. 209A	Rem.TGT12	17.8 gr / 9,000 PSI	18.8 gr / 9,700 PSI	20.0 gr / 10,500 PSI	—
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	Fed. 12S0	18.8 gr / 9,100 PSI	20.0 gr / 9,900 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	Fed. 12S0	18.4 gr / 8,700 PSI	19.6 gr / 10,500 PSI	20.7 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	Titigroup	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	Titigroup	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	Titigroup	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	Titigroup	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
				1100 fps	1150 fps	1200 fps	1250 fps
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	Fed. 209A	Rem. TGT12	15.0 gr / 6,900 PSI	16.0 gr / 7,500 PSI	17.0 gr / 8,200 PSI	18.5 gr / 9,400 PSI

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
12 GA., 2 3/4", WINCHESTER COMPRESSION-FORMED AA AND HS PLASTIC SHELLS (CONT.)							
				1100 fps	1150 fps	1200 fps	1250 fps
1 oz	700-X	Fed. 209A	WAA12SL	15.0 gr / 7,300 PSI	16.0 gr / 8,000 PSI	17.0 gr / 8,700 PSI	18.5 gr / 9,700 PSI
1 oz	700-X	Rem. 209P	Fed. 12S3	15.0 gr / 7,100 PSI	16.5 gr / 7,900 PSI	17.5 gr / 8,600 PSI	18.5 gr / 9,300 PSI
1 oz	700-X	Rem. 209P	Rem. TGT12	15.5 gr / 5,800 PSI	16.5 gr / 6,200 PSI	18.0 gr / 7,100 PSI	19.0 gr / 7,700 PSI
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	Fed. 12S3	14.5 gr / 8,200 PSI	15.5 gr / 8,800 PSI	17.0 gr / 9,700 PSI	18.0 gr / 10,500 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
1 oz	PB	Fed. 209A	Fed. 12S3	18.0 gr / 6,100 PSI	19.5 gr / 7,200 PSI	20.5 gr / 7,900 PSI	22.0 gr / 8,900 PSI
1 oz	PB	Fed. 209A	Rem. FIG. 8	18.5 gr / 5,300 PSI	20.0 gr / 6,100 PSI	21.0 gr / 6,600 PSI	22.5 gr / 7,400 PSI
1 oz	PB	Fed. 209A	WAA12	18.5 gr / 6,200 PSI	19.5 gr / 6,900 PSI	21.0 gr / 7,900 PSI	22.5 gr / 8,600 PSI
1 oz	PB	Rem. 209P	Fed. 12S3	19.0 gr / 5,100 PSI	20.5 gr / 6,000 PSI	22.0 gr / 6,900 PSI	23.5 gr / 7,600 PSI
1 oz	PB	Rem. 209P	Rem. FIG. 8	19.0 gr / 4,500 PSI	21.0 gr / 5,300 PSI	22.0 gr / 5,700 PSI	23.5 gr / 6,700 PSI
1 oz	PB	Rem. 209P	WAA12	19.0 gr / 5,700 PSI	20.0 gr / 6,200 PSI	21.5 gr / 7,100 PSI	22.5 gr / 7,700 PSI
1 oz	PB	Win. 209	Fed. 12S3	19.0 gr / 5,900 PSI	20.5 gr / 6,800 PSI	21.5 gr / 7,400 PSI	23.0 gr / 8,100 PSI
1 oz	PB	Win. 209	Rem. FIG. 8	19.0 gr / 5,400 PSI	20.0 gr / 5,800 PSI	21.5 gr / 6,500 PSI	23.0 gr / 7,200 PSI
1 oz	PB	Win. 209	Rem. TGT12	18.0 gr / 4,800 PSI	19.5 gr / 5,600 PSI	21.5 gr / 6,700 PSI	23.0 gr / 7,500 PSI
1 oz	PB	Win. 209	WAA12	18.5 gr / 5,900 PSI	20.0 gr / 6,500 PSI	21.5 gr / 7,100 PSI	23.0 gr / 7,900 PSI
1 oz	SR 7625	Fed. 209A	Fed. 12S3	20.5 gr / 5,400 PSI	21.5 gr / 5,900 PSI	23.0 gr / 6,600 PSI	24.5 gr / 7,300 PSI
1 oz	SR 7625	Fed. 209A	Rem. RXP12	21.5 gr / 5,000 PSI	22.5 gr / 5,400 PSI	23.5 gr / 5,900 PSI	25.0 gr / 6,700 PSI
1 oz	SR 7625	Fed. 209A	WAA12	20.0 gr / 6,000 PSI	21.5 gr / 6,300 PSI	23.5 gr / 6,900 PSI	25.0 gr / 7,400 PSI
1 oz	SR 7625	Rem. 209P	Fed. 12S3	22.0 gr / 4,500 PSI	23.5 gr / 5,300 PSI	24.5 gr / 6,000 PSI	25.5 gr / 6,900 PSI
1 oz	SR 7625	Rem. 209P	Rem. RXP12	22.5 gr / 4,200 PSI	23.5 gr / 4,700 PSI	24.5 gr / 5,200 PSI	25.5 gr / 6,000 PSI
1 oz	SR 7625	Rem. 209P	WAA12	21.5 gr / 5,000 PSI	22.5 gr / 5,700 PSI	23.5 gr / 6,200 PSI	25.0 gr / 7,100 PSI
1 oz	SR 7625	Win. 209	Fed. 12S3	22.0 gr / 5,300 PSI	23.0 gr / 5,900 PSI	24.0 gr / 6,500 PSI	25.0 gr / 7,100 PSI
1 oz	SR 7625	Win. 209	Rem. RXP12	22.0 gr / 4,600 PSI	23.5 gr / 5,000 PSI	25.0 gr / 5,700 PSI	26.0 gr / 6,200 PSI
1 oz	SR 7625	Win. 209	WAA12	21.5 gr / 4,900 PSI	23.0 gr / 5,500 PSI	24.0 gr / 5,800 PSI	25.5 gr / 6,600 PSI
				970 fps	1025 fps	1070 fps	1125 fps
1 oz	WAA12L	Ched. 209	J-XL-1	11.8 gr / 5,900 PSI	12.7 gr / 6,900 PSI	13.6 gr / 8,000 PSI	14.6 gr / 9,100 PSI
1 oz	WAA12L	Ched. 209	Rem. TGT12	11.8 gr / 5,700 PSI	12.8 gr / 6,700 PSI	13.7 gr / 7,700 PSI	14.8 gr / 8,800 PSI
1 oz	WAA12L	Ched. 209	WAA12SL	11.6 gr / 6,100 PSI	12.7 gr / 7,200 PSI	13.6 gr / 8,100 PSI	14.7 gr / 9,300 PSI
1 oz	WAA12L	Fed. 209A	J-XL-1	12.0 gr / 6,300 PSI	12.9 gr / 7,200 PSI	13.8 gr / 8,300 PSI	14.8 gr / 9,400 PSI
1 oz	WAA12L	Fed. 209A	Rem. TGT12	12.0 gr / 6,300 PSI	12.8 gr / 7,100 PSI	13.7 gr / 8,000 PSI	14.8 gr / 9,100 PSI
1 oz	WAA12L	Fed. 209A	WAA12SL	11.7 gr / 6,200 PSI	12.8 gr / 7,500 PSI	13.7 gr / 8,600 PSI	14.7 gr / 9,700 PSI
1 oz	WAA12L	Rem. 209P	J-XL-1	11.9 gr / 5,100 PSI	12.9 gr / 6,300 PSI	13.8 gr / 7,400 PSI	14.8 gr / 8,100 PSI
1 oz	WAA12L	Rem. 209P	Rem. TGT12	11.8 gr / 5,300 PSI	12.8 gr / 6,500 PSI	13.7 gr / 7,500 PSI	14.7 gr / 8,600 PSI
1 oz	WAA12L	Rem. 209P	WAA12SL	11.8 gr / 5,600 PSI	12.8 gr / 6,800 PSI	13.7 gr / 7,800 PSI	14.8 gr / 9,000 PSI
1 oz	WAA12L	Win. 209	J-XL-1	12.4 gr / 4,900 PSI	13.2 gr / 6,200 PSI	13.9 gr / 7,300 PSI	14.6 gr / 8,400 PSI
1 oz	WAA12L	Win. 209	Rem. TGT12	12.1 gr / 5,500 PSI	13.0 gr / 6,500 PSI	13.8 gr / 7,400 PSI	14.7 gr / 8,500 PSI
				1180 fps	1235 fps	1290 fps	
1 oz	WST	CCI 209	Fed. 12S0	19.0 gr / 8,300 PSI	—	20.5 gr / 9,500 PSI	21.5 gr / 10,700 PSI
1 oz	WST	CCI 209	WAA12L	—	—	21.0 gr / 8,400 PSI	22.5 gr / 10,200 PSI
1 oz	WST	CCI 209	WAA12SL	—	—	21.5 gr / 7,900 PSI	22.5 gr / 9,400 PSI
1 oz	WST	Fed. 209A	WAA12SL	19.0 gr / 7,900 PSI	—	20.0 gr / 8,900 PSI	21.0 gr / 9,800 PSI
1 oz	WST	Win. 209	Fed. 12S0	19.0 gr / 8,000 PSI	—	20.5 gr / 9,500 PSI	22.0 gr / 10,900 PSI

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
12 GA., 2 3/4", WINCHESTER COMPRESSION-FORMED AA AND HS PLASTIC SHELLS (CONT.)							
				1180 fps	1235 fps	1290 fps	1345 fps
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	Ched. 209	J-XL-1	18.9 gr/ 7,300 PSI	19.8 gr/ 8,400 PSI	20.8 gr/ 9,600 PSI	21.7 gr/10,700 PSI
1 oz	Super Hcp	Ched. 209	Rem. TGT12	18.6 gr/ 7,400 PSI	19.9 gr/ 8,600 PSI	21.2 gr/ 9,800 PSI	22.4 gr/10,900 PSI
1 oz	Super Hcp	Ched. 209	WAA12SL	18.6 gr/ 7,400 PSI	19.8 gr/ 8,600 PSI	21.0 gr/ 9,900 PSI	22.2 gr/11,200 PSI
1 oz	Super Hcp	Fed. 209A	J-XL-1	18.1 gr/ 7,800 PSI	19.5 gr/ 8,900 PSI	20.8 gr/ 9,900 PSI	22.1 gr/10,900 PSI
1 oz	Super Hcp	Fed. 209A	Rem. TGT12	18.2 gr/ 7,900 PSI	19.5 gr/ 9,100 PSI	20.7 gr/ 10,200 PSI	22.0 gr/11,200 PSI
1 oz	Super Hcp	Fed. 209A	WAA12SL	18.3 gr/ 8,000 PSI	19.5 gr/ 9,100 PSI	20.8 gr/ 10,300 PSI	22.0 gr/11,300 PSI
1 oz	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	22.0 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
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
				1090 fps	1145 fps	1200 fps	1255 fps
1 1/8 oz	Titewad	Ched. 209	Rem. Fig. 8	15.7 gr/ 9,500 PSI	16.6 gr/ 10,700 PSI	—	—
1 1/8 oz	Titewad	Ched. 209	WAA12	15.3 gr/ 9,900 PSI	16.4 gr/ 10,900 PSI	—	—
1 1/8 oz	Titewad	Ched. 209	Windjammer	15.9 gr/ 8,700 PSI	16.8 gr/ 10,100 PSI	—	—
1 1/8 oz	Titewad	CCI 209	Rem. Fig. 8	15.3 gr/ 10,300 PSI	16.5 gr/ 11,200 PSI	—	—
1 1/8 oz	Titewad	CCI 209	WAA12	15.3 gr/ 10,300 PSI	16.0 gr/ 10,900 PSI	—	—
1 1/8 oz	Titewad	CCI 209	Windjammer	15.3 gr/ 8,600 PSI	16.6 gr/ 9,400 PSI	17.8 gr/ 10,900 PSI	—
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	Fed. 209A	Hor. Vers.	15.3 gr/ 10,600 PSI	16.3 gr/ 11,400 PSI	—	—
1 1/8 oz	Titewad	Fed. 209A	Rem. Fig. 8	15.6 gr/ 10,000 PSI	16.6 gr/ 10,600 PSI	—	—
1 1/8 oz	Titewad	Fed. 209A	WAA12	15.4 gr/ 9,700 PSI	16.4 gr/ 10,800 PSI	—	—
1 1/8 oz	Titewad	Fed. 209A	Windjammer	15.4 gr/ 9,400 PSI	16.0 gr/ 10,600 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	Rem. 209P	Windjammer	15.5 gr/ 9,100 PSI	16.2 gr/ 10,000 PSI	17.0 gr/ 11,100 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	Titewad	Win. 209	Windjammer	15.3 gr/ 8,300 PSI	16.3 gr/ 9,600 PSI	17.8 gr/ 10,500 PSI	—
1 1/8 oz	Clays	Ched. 209	Rem. Fig. 8	16.4 gr/ 8,800 PSI	17.5 gr/ 10,200 PSI	—	—
1 1/8 oz	Clays	Ched. 209	WAA12	15.8 gr/ 9,400 PSI	17.2 gr/ 10,700 PSI	—	—
1 1/8 oz	Clays	Ched. 209	Windjammer	15.7 gr/ 7,900 PSI	17.4 gr/ 9,500 PSI	19.0 gr/ 11,100 PSI	—
1 1/8 oz	Clays	CCI 209	Rem. Fig. 8	16.0 gr/ 8,700 PSI	16.8 gr/ 9,600 PSI	—	—
1 1/8 oz	Clays	CCI 209	WAA12	16.0 gr/ 8,900 PSI	17.0 gr/ 9,800 PSI	18.1 gr/ 11,300 PSI	—
1 1/8 oz	Clays	CCI 209	Windjammer	16.0 gr/ 8,200 PSI	16.8 gr/ 8,600 PSI	18.5 gr/ 11,100 PSI	—
1 1/8 oz	Clays	Fed. 209A	Rem. Fig. 8	15.8 gr/ 10,700 PSI	16.6 gr/ 11,100 PSI	—	—
1 1/8 oz	Clays	Fed. 209A	Windjammer	16.0 gr/ 9,100 PSI	16.7 gr/ 10,300 PSI	18.0 gr/ 11,400 PSI	—
1 1/8 oz	Clays	Fed. 209A	WAA12	15.0 gr/ 9,700 PSI	16.0 gr/ 10,800 PSI	—	—
1 1/8 oz	Clays	Fio. 616	WAA12	15.5 gr/ 9,400 PSI	16.0 gr/ 10,900 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	—	—

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
12 GA., 2 3/4", WINCHESTER COMPRESSION-FORMED AA AND HS PLASTIC SHELLS (CONT.)							
				1090 fps	1145 fps	1200 fps	1255 fps
1 1/8 oz	Clays	Rem. 209P	Windjammer	16.5 gr/ 8,100 PSI	17.5 gr/ 9,400 PSI	18.5 gr/ 10,400 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	—
1 1/8 oz	Internat'l	Ched. 209	Rem. Fig. 8	17.4 gr/ 7,900 PSI	18.5 gr/ 9,200 PSI	19.7 gr/ 10,500 PSI	—
1 1/8 oz	Internat'l	Ched. 209	WAA12	16.9 gr/ 8,100 PSI	18.1 gr/ 9,600 PSI	19.3 gr/ 11,100 PSI	—
1 1/8 oz	Internat'l	Ched. 209	Windjammer	17.9 gr/ 8,000 PSI	18.9 gr/ 9,200 PSI	19.8 gr/ 10,300 PSI	20.8 gr/ 11,500 PSI
1 1/8 oz	Internat'l	CCI 209	Fed. 12S3	—	19.2 gr/ 7,900 LUP	20.0 gr/ 8,300 LUP	21.6 gr/10,200 LUP
1 1/8 oz	Internat'l	CCI 209	Hor. Vers.	16.7 gr/ 8,600 PSI	17.2 gr/ 9,600 PSI	18.2 gr/ 11,300 PSI	—
1 1/8 oz	Internat'l	CCI 209	Rem. Fig. 8	17.0 gr/ 9,300 PSI	17.8 gr/ 10,100 PSI	18.5 gr/ 11,200 PSI	—
1 1/8 oz	Internat'l	CCI 209	WAA12	17.0 gr/ 9,700 PSI	17.4 gr/ 10,500 PSI	18.2 gr/ 11,400 PSI	—
1 1/8 oz	Internat'l	CCI 209	Windjammer	17.0 gr/ 8,300 PSI	17.7 gr/ 8,800 PSI	19.5 gr/ 9,800 PSI	20.5 gr/ 11,500 PSI
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	Fed. 209A	Windjammer	17.4 gr/ 6,900 PSI	18.0 gr/ 7,700 PSI	19.5 gr/ 9,500 PSI	21.3 gr/11,200 PSI
1 1/8 oz	Internat'l	Fio. 616	Rem. Fig. 8	16.3 gr/ 8,600 PSI	17.6 gr/ 9,500 PSI	18.3 gr/ 10,200 PSI	—
1 1/8 oz	Internat'l	Fio. 616	WAA12	16.3 gr/ 9,600 PSI	17.0 gr/ 11,000 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	Rem. 209P	Windjammer	17.2 gr/ 8,100 PSI	18.3 gr/ 8,300 PSI	19.2 gr/ 9,000 PSI	20.8 gr/ 10,800 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	—
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	Internat'l	Win. 209	Windjammer	17.3 gr/ 7,900 PSI	18.0 gr/ 8,600 PSI	19.5 gr/ 9,800 PSI	20.8 gr/ 10,300 PSI
1 1/8 oz	Titegroup	Rem. 209P	Rem. Fig. 8	14.7 gr/ 8,500 PSI	15.9 gr/ 9,700 PSI	17.0 gr/ 10,700 PSI	—
1 1/8 oz	Titegroup	Rem. 209P	WAA12	14.6 gr/ 8,400 PSI	15.6 gr/ 9,600 PSI	16.5 gr/ 10,600 PSI	—
1 1/8 oz	Titegroup	Win. 209	Rem. Fig. 8	14.9 gr/ 8,200 PSI	15.9 gr/ 9,200 PSI	16.9 gr/ 10,200 PSI	—
1 1/8 oz	Titegroup	Win. 209	WAA12	14.9 gr/ 7,900 PSI	15.9 gr/ 9,000 PSI	17.4 gr/ 10,400 PSI	18.4 gr/ 11,400 PSI
				1200 fps	1255 fps	1310 fps	
1 1/8 oz	Universal	CCI 209	Windjammer	23.3 gr/ 8,000 PSI	24.3 gr/ 9,300 PSI	—	—
1 1/8 oz	Universal	CCI 209M	Hor. Versalite	22.0 gr/ 9,900 PSI	23.0 gr/ 10,700 PSI	—	—
1 1/8 oz	Universal	Fed. 209A	WAA12	21.5 gr/ 9,600 PSI	22.8 gr/ 10,700 PSI	23.6 gr/ 11,300 PSI	—
1 1/8 oz	Universal	Win. 209	Rem. Fig. 8	22.5 gr/ 9,000 PSI	23.5 gr/ 10,000 PSI	24.5 gr/ 10,700 PSI	—
1 1/8 oz	Universal	Win. 209	WAA12	22.0 gr/ 10,000 PSI	22.7 gr/ 10,600 PSI	—	—
				1420 fps	1475 fps	1530 fps	1585 fps
1 1/8 oz	Longshot	CCI 209M	Fed. 12S3	30.9 gr/ 10,200 PSI	32.4 gr/ 11,300 PSI	—	—
1 1/8 oz	Longshot	CCI 209M	Rem. R12H	31.5 gr/ 9,200 PSI	32.9 gr/ 10,200 PSI	34.2 gr/ 11,200 PSI	—
1 1/8 oz	Longshot	CCI 209M	WAA12	30.9 gr/ 10,000 PSI	32.5 gr/ 10,900 PSI	—	—
1 1/8 oz	Longshot	CCI 209M	Windjammer	32.2 gr/ 8,700 PSI	33.7 gr/ 9,600 PSI	35.1 gr/ 10,500 PSI	—
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	Rem. R12H	31.0 gr/ 9,800 PSI	32.6 gr/ 10,500 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	Fed. 12S3	30.3 gr/ 10,500 PSI	31.7 gr/ 11,400 PSI	—	—

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
12 GA., 2 3/4", WINCHESTER COMPRESSION-FORMED AA AND HS PLASTIC SHELLS (CONT.)							
				1420 fps	1475 fps	1530 fps	1585 fps
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	Rem. 209P	Windjammer	31.9 gr / 8,800 PSI	33.7 gr / 9,600 PSI	35.4 gr / 10,200 PSI	—
1 1/8 oz	Longshot	Win. 209	Fed. 12S3	32.6 gr / 8,800 PSI	34.1 gr / 9,500 PSI	35.7 gr / 10,300 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	—
				1100 fps	1150 fps	1200 fps	1250 fps
1 1/8 oz	700-X	Fed. 209A	Fed. 12S3	15.5 gr / 9,000 PSI	16.5 gr / 9,900 PSI	18.0 gr / 11,200 PSI	—
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	Fed. 209A	Windjammer	15.0 gr / 8,200 PSI	16.0 gr / 9,000 PSI	17.5 gr / 10,100 PSI	19.0 gr / 11,000 PSI
1 1/8 oz	700-X	Rem. 209P	Fed. 12S3	15.5 gr / 7,800 PSI	16.5 gr / 8,600 PSI	18.0 gr / 9,700 PSI	19.5 gr / 10,900 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	Rem. 209P	Windjammer	16.0 gr / 6,800 PSI	17.5 gr / 7,600 PSI	19.0 gr / 8,500 PSI	20.5 gr / 9,300 PSI
1 1/8 oz	700-X	Win. 209	Fed. 12S3	15.5 gr / 9,500 PSI	16.5 gr / 10,400 PSI	17.5 gr / 11,100 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	—
1 1/8 oz	700-X	Win. 209	Windjammer	15.5 gr / 8,100 PSI	16.5 gr / 8,900 PSI	17.5 gr / 9,700 PSI	19.0 gr / 11,000 PSI
1 1/8 oz	PB	Fed. 209A	Fed. 12S4	19.0 gr / 7,600 PSI	20.5 gr / 8,300 PSI	22.0 gr / 9,100 PSI	23.5 gr / 10,100 PSI
1 1/8 oz	PB	Fed. 209A	Rem. RXP12	19.5 gr / 7,100 PSI	20.5 gr / 7,600 PSI	22.0 gr / 8,400 PSI	23.5 gr / 9,300 PSI
1 1/8 oz	PB	Fed. 209A	WAA12	19.0 gr / 7,500 PSI	20.5 gr / 8,200 PSI	22.0 gr / 8,900 PSI	23.5 gr / 9,700 PSI
1 1/8 oz	PB	Fed. 209A	Windjammer	19.5 gr / 6,400 PSI	21.0 gr / 7,000 PSI	22.5 gr / 7,800 PSI	24.0 gr / 8,700 PSI
1 1/8 oz	PB	Rem. 209P	Fed. 12S4	19.5 gr / 6,900 PSI	20.5 gr / 7,700 PSI	22.0 gr / 8,600 PSI	24.0 gr / 9,600 PSI
1 1/8 oz	PB	Rem. 209P	Rem. RXP12	20.0 gr / 6,400 PSI	21.0 gr / 7,000 PSI	22.5 gr / 8,000 PSI	24.0 gr / 8,900 PSI
1 1/8 oz	PB	Rem. 209P	WAA12	20.0 gr / 6,500 PSI	21.0 gr / 7,100 PSI	23.0 gr / 7,700 PSI	24.5 gr / 8,800 PSI
1 1/8 oz	PB	Rem. 209P	Windjammer	20.0 gr / 5,700 PSI	21.5 gr / 6,400 PSI	23.0 gr / 7,300 PSI	24.5 gr / 7,900 PSI
1 1/8 oz	PB	Win. 209	Fed. 12S4	19.5 gr / 7,400 PSI	20.5 gr / 8,000 PSI	22.0 gr / 8,900 PSI	23.5 gr / 9,900 PSI
1 1/8 oz	PB	Win. 209	Rem. RXP12	20.0 gr / 6,900 PSI	21.0 gr / 7,500 PSI	22.5 gr / 8,500 PSI	24.0 gr / 9,500 PSI
1 1/8 oz	PB	Win. 209	WAA12	19.5 gr / 6,900 PSI	21.0 gr / 7,700 PSI	22.5 gr / 8,600 PSI	24.0 gr / 9,400 PSI
1 1/8 oz	PB	Win. 209	Windjammer	20.0 gr / 6,200 PSI	21.5 gr / 6,900 PSI	23.0 gr / 7,400 PSI	24.5 gr / 8,400 PSI
1 1/8 oz	SR 7625	Fed. 209A	Fed. 12S4	21.0 gr / 6,800 PSI	22.5 gr / 7,600 PSI	23.5 gr / 8,300 PSI	25.0 gr / 9,300 PSI
1 1/8 oz	SR 7625	Fed. 209A	Rem. RXP12	21.5 gr / 6,100 PSI	22.5 gr / 6,800 PSI	24.0 gr / 7,700 PSI	25.5 gr / 8,600 PSI
1 1/8 oz	SR 7625	Fed. 209A	WAA12	21.0 gr / 6,800 PSI	22.5 gr / 7,400 PSI	23.5 gr / 7,900 PSI	25.5 gr / 9,100 PSI
1 1/8 oz	SR 7625	Fed. 209A	Windjammer	22.0 gr / 5,400 PSI	23.5 gr / 6,400 PSI	24.5 gr / 7,200 PSI	25.5 gr / 7,900 PSI
1 1/8 oz	SR 7625	Rem. 209P	Fed. 12S4	21.5 gr / 6,500 PSI	22.5 gr / 7,200 PSI	24.0 gr / 8,100 PSI	25.5 gr / 9,100 PSI
1 1/8 oz	SR 7625	Rem. 209P	Rem. RXP12	22.0 gr / 5,800 PSI	23.0 gr / 6,300 PSI	24.5 gr / 7,400 PSI	25.5 gr / 8,200 PSI
1 1/8 oz	SR 7625	Rem. 209P	WAA12	22.0 gr / 6,000 PSI	23.0 gr / 6,400 PSI	24.5 gr / 7,200 PSI	26.0 gr / 8,000 PSI
1 1/8 oz	SR 7625	Rem. 209P	Windjammer	22.0 gr / 5,100 PSI	23.5 gr / 5,900 PSI	24.5 gr / 6,400 PSI	26.0 gr / 7,200 PSI
1 1/8 oz	SR 7625	Win. 209	Fed. 12S4	21.0 gr / 6,700 PSI	22.5 gr / 7,500 PSI	24.0 gr / 8,400 PSI	25.5 gr / 9,200 PSI
1 1/8 oz	SR 7625	Win. 209	Rem. RXP12	22.0 gr / 6,200 PSI	23.0 gr / 6,600 PSI	24.5 gr / 7,500 PSI	26.0 gr / 8,300 PSI
1 1/8 oz	SR 7625	Win. 209	WAA12	21.0 gr / 6,400 PSI	22.5 gr / 7,300 PSI	23.5 gr / 7,900 PSI	25.5 gr / 9,600 PSI
1 1/8 oz	SR 7625	Win. 209	Windjammer	22.0 gr / 5,700 PSI	23.0 gr / 6,200 PSI	24.5 gr / 6,900 PSI	26.0 gr / 7,900 PSI

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
12 GA., 2 3/4", WINCHESTER COMPRESSION-FORMED AA AND HS PLASTIC SHELLS (CONT.)							
				1100 fps	1150 fps	1200 fps	1250 fps
1 1/8 oz	800-X	CCI 209	Fed. 12S3	20.5 gr / 5,800 PSI	22.0 gr / 6,400 PSI	23.0 gr / 6,800 PSI	24.5 gr / 7,800 PSI
1 1/8 oz	800-X	CCI 209	Rem. FIG. 8	21.0 gr / 5,200 PSI	22.0 gr / 5,700 PSI	23.5 gr / 6,300 PSI	25.5 gr / 6,900 PSI
1 1/8 oz	800-X	CCI 209	WAA12	20.5 gr / 5,800 PSI	22.0 gr / 6,500 PSI	23.0 gr / 7,000 PSI	24.5 gr / 7,700 PSI
1 1/8 oz	800-X	CCI 209	Windjammer	21.5 gr / 4,800 PSI	22.5 gr / 5,400 PSI	24.0 gr / 5,800 PSI	26.0 gr / 6,200 PSI
1 1/8 oz	800-X	Fed. 209A	Fed. 12S3	19.5 gr / 6,400 PSI	21.0 gr / 7,100 PSI	22.5 gr / 7,800 PSI	24.0 gr / 8,500 PSI
1 1/8 oz	800-X	Fed. 209A	Rem. FIG. 8	20.5 gr / 5,200 PSI	21.5 gr / 5,700 PSI	23.0 gr / 6,700 PSI	24.5 gr / 7,700 PSI
1 1/8 oz	800-X	Fed. 209A	WAA12	20.0 gr / 6,600 PSI	21.0 gr / 7,000 PSI	22.5 gr / 7,800 PSI	24.0 gr / 8,600 PSI
1 1/8 oz	800-X	Fed. 209A	Windjammer	21.0 gr / 5,100 PSI	22.0 gr / 5,800 PSI	23.0 gr / 6,500 PSI	24.5 gr / 7,600 PSI
1 1/8 oz	800-X	Win. 209	Fed. 12S3	20.0 gr / 6,500 PSI	21.5 gr / 7,100 PSI	22.5 gr / 7,600 PSI	24.0 gr / 8,400 PSI
1 1/8 oz	800-X	Win. 209	Rem. FIG. 8	20.0 gr / 6,100 PSI	21.0 gr / 6,600 PSI	22.5 gr / 7,000 PSI	24.5 gr / 7,700 PSI
1 1/8 oz	800-X	Win. 209	WAA12	20.0 gr / 6,600 PSI	21.0 gr / 7,200 PSI	22.0 gr / 7,800 PSI	24.0 gr / 8,800 PSI
1 1/8 oz	800-X	Win. 209	Windjammer	20.5 gr / 5,400 PSI	21.5 gr / 6,000 PSI	22.5 gr / 6,700 PSI	24.0 gr / 7,700 PSI
				980 fps	1035 fps	1090 fps	1145 fps
1 1/8 oz	WAALite	Ched. 209	Rem. FIG. 8	12.3 gr / 8,100 PSI	13.4 gr / 9,400 PSI	14.6 gr / 10,700 PSI	—
1 1/8 oz	WAALite	Ched. 209	WAA12	12.5 gr / 8,300 PSI	13.6 gr / 9,800 PSI	14.6 gr / 11,200 PSI	—
1 1/8 oz	WAALite	Ched. 209	WJ-12-RPL	12.2 gr / 7,700 PSI	13.3 gr / 8,800 PSI	14.5 gr / 9,900 PSI	15.6 gr / 11,000 PSI
1 1/8 oz	WAALite	Fed. 209A	Rem. FIG. 8	12.5 gr / 8,000 PSI	13.5 gr / 9,300 PSI	14.5 gr / 10,500 PSI	—
1 1/8 oz	WAALite	Fed. 209A	WAA12	12.1 gr / 8,500 PSI	13.3 gr / 10,300 PSI	—	—
1 1/8 oz	WAALite	Fed. 209A	WJ-12-RPL	12.1 gr / 7,900 PSI	13.3 gr / 9,100 PSI	14.4 gr / 10,200 PSI	—
1 1/8 oz	WAALite	Rem. 209P	Rem. FIG. 8	12.1 gr / 7,800 PSI	13.3 gr / 9,200 PSI	14.3 gr / 10,400 PSI	15.0 gr / 11,300 PSI
1 1/8 oz	WAALite	Rem. 209P	WAA12	12.2 gr / 7,800 PSI	13.2 gr / 9,300 PSI	14.1 gr / 10,700 PSI	—
1 1/8 oz	WAALite	Rem. 209P	WJ-12-RPL	12.4 gr / 7,300 PSI	13.5 gr / 8,500 PSI	14.5 gr / 9,600 PSI	15.4 gr / 10,500 PSI
1 1/8 oz	WAALite	Win. 209	Rem. FIG. 8	12.5 gr / 7,300 PSI	13.6 gr / 8,900 PSI	14.8 gr / 10,600 PSI	—
1 1/8 oz	WAALite	Win. 209	WAA12	12.3 gr / 7,700 PSI	13.3 gr / 9,200 PSI	14.2 gr / 10,500 PSI	—
1 1/8 oz	WAALite	Win. 209	WJ-12-RPL	12.6 gr / 7,200 PSI	13.7 gr / 8,500 PSI	14.7 gr / 9,600 PSI	15.5 gr / 10,500 PSI
				1145 fps	1200 fps	1255 fps	1310 fps
1 1/8 oz	WST	CCI 209	Fed. 12S3	19.0 gr / 9,500 PSI	20.5 gr / 10,800 PSI	—	—
1 1/8 oz	WST	CCI 209	Rem. FIG. 8	19.0 gr / 9,000 PSI	20.5 gr / 10,000 PSI	—	—
1 1/8 oz	WST	CCI 209	Rem. RXP12	19.5 gr / 8,800 PSI	20.5 gr / 10,300 PSI	—	—
1 1/8 oz	WST	CCI 209	WAA12	19.0 gr / 9,100 PSI	20.5 gr / 10,300 PSI	—	—
1 1/8 oz	WST	Fed. 209A	WAA12	18.5 gr / 10,700 PSI	—	—	—
1 1/8 oz	WST	Win. 209	Fed. 12S3	19.0 gr / 9,800 PSI	20.0 gr / 10,900 PSI	—	—
1 1/8 oz	WST	Win. 209	Rem. FIG. 8	19.0 gr / 8,400 PSI	20.5 gr / 10,000 PSI	—	—
1 1/8 oz	WST	Win. 209	Rem. RXP12	19.0 gr / 8,700 PSI	20.0 gr / 9,700 PSI	—	—
1 1/8oz	WST	Win. 209	WAA12	18.5 gr / 8,600 PSI	20.0 gr / 9,800 PSI	—	—
1 1/8 oz	Super Hcp	Ched. 209	DRV-12	18.1 gr / 7,800 PSI	19.4 gr / 9,600 PSI	20.7 gr / 11,400 PSI	—
1 1/8 oz	Super Hcp	Ched. 209	Rem. FIG. 8	18.5 gr / 8,500 PSI	19.7 gr / 9,700 PSI	21.0 gr / 11,100 PSI	—
1 1/8 oz	Super Hcp	Ched. 209	WAA12	17.8 gr / 8,500 PSI	19.1 gr / 9,900 PSI	20.5 gr / 11,400 PSI	—
1 1/8 oz	Super Hcp	Ched. 209	Windjammer	18.4 gr / 7,400 PSI	19.9 gr / 8,700 PSI	21.4 gr / 9,900 PSI	22.9 gr / 11,200 PSI
1 1/8 oz	Super Hcp	Fed. 209A	DRV-12	17.4 gr / 8,700 PSI	18.9 gr / 10,200 PSI	—	—
1 1/8 oz	Super Hcp	Fed. 209A	Rem. FIG. 8	18.1 gr / 8,300 PSI	19.5 gr / 9,800 PSI	20.9 gr / 11,200 PSI	—
1 1/8 oz	Super Hcp	Fed. 209A	WAA12	17.4 gr / 8,800 PSI	18.9 gr / 10,300 PSI	—	—
1 1/8 oz	Super Hcp	Fed. 209A	Windjammer	17.9 gr / 8,200 PSI	19.5 gr / 9,700 PSI	21.0 gr / 11,100 PSI	—
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	—

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
12 GA., 2 3/4", WINCHESTER COMPRESSION-FORMED AA AND HS PLASTIC SHELLS (CONT.)							
				1145 fps	1200 fps	1255 fps	1310 fps
1 1/8 oz	Super Hcp	Rem. 209P	Rem. FIG. 8	18.1 gr / 7,700 PSI	19.6 gr / 9,400 PSI	21.0 gr / 10,900 PSI	—
1 1/8 oz	Super Hcp	Rem. 209P	WAA12	18.4 gr / 7,600 PSI	19.6 gr / 9,100 PSI	20.8 gr / 10,700 PSI	—
1 1/8 oz	Super Hcp	Rem. 209P	Windjammer	19.2 gr / 7,800 PSI	20.4 gr / 9,100 PSI	21.6 gr / 10,400 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	Super Hcp	Win. 209	Windjammer	19.4 gr / 7,800 PSI	20.5 gr / 9,000 PSI	21.6 gr / 10,100 PSI	22.7 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
				1145 fps	1310 fps	1365 fps	1400 fps
1 1.8 oz	WSF	Win. 209	Fed. 12S3	—	27.5 gr / 8,500 PSI	28.5 gr / 9,500 PSI	29.5 gr / 10,800 PSI
1 1/8 oz	WSF	Win. 209	WAA12	—	27.5 gr / 8,700 PSI	29.0 gr / 9,900 PSI	30.0 gr / 10,600 PSI
				1220 fps	1250 fps		
1 1/4 oz	Universal	CCI 209	Rem. SP12	22.5 gr / 10,700 PSI	23.9 gr / 11,100 PSI		
1 1/4 oz	Universal	CCI 209	WAA12 F114	23.5 gr / 10,000 PSI	—		
1 1/4 oz	Universal	CCI 209M	Rem. SP12	23.3 gr / 11,100 PSI	—		
1 1/4 oz	Universal	CCI 209M	WAA12F114	22.5 gr / 11,400 PSI	—		
1 1/4 oz	Universal	Fed. 209A	Rem. SP12	22.4 gr / 11,500 PSI	—		
1 1/4 oz	Universal	Fed. 209A	WAA12F114	22.6 gr / 11,500 PSI	—		
1 1/4 oz	Universal	Rem. 209P	Rem. SP12	23.3 gr / 10,600 PSI	24.2 gr / 11,200 PSI		
1 1/4 oz	Universal	Rem. 209P	WAA12F114	23.0 gr / 11,500 PSI	—		
1 1/4 oz	Universal	Win. 209	Rem. SP12	22.8 gr / 10,700 PSI	23.3 gr / 11,400 PSI		
1 1/4 oz	Universal	Win. 209	WAA12 F114	23.0 gr / 10,900 PSI	—		
				1220 fps	1330 fps		
1 1/4 oz	HS-6	Win. 209	WAA12F114	30.0 gr / 8,800 LUP	33.0 gr / 10,500 LUP		
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		
				1330 fps	1385 fps	1440 fps	
1 1/4 oz	Longshot	CCI 209M	Rem. SP12	29.3 gr / 8,900 PSI	30.7 gr / 9,900 PSI	32.1 gr / 10,800 PSI	
1 1/4 oz	Longshot	CCI 209M	WAA12F114	29.3 gr / 10,200 PSI	30.1 gr / 11,300 PSI	—	
1 1/4 oz	Longshot	CCI 209M	Fed. 12S4	28.5 gr / 10,900 PSI	—	—	
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	Fed. 12S4	28.5 gr / 11,000 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	Fed. 12S4	29.8 gr / 9,400 PSI	31.1 gr / 10,500 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	—	
				1225 fps	1275 fps	1325 fps	
1 1/4 oz	PB	Win. 209	WAA12R	23.5 gr / 10,500 PSI	25.0 gr / 11,500 PSI	—	
1 1/4 oz	SR 7625	Fed. 209A	Rem. SP12	—	26.0 gr / 11,000 PSI	27.0 gr / 11,500 PSI	
1 1/4 oz	SR 7625	Fed. 209A	WAA12R	—	26.5 gr / 10,900 PSI	27.5 gr / 11,500 PSI	
1 1/4 oz	SR 7625	Rem. 209P	Fed. 12S4	—	26.5 gr / 10,700 PSI	28.0 gr / 11,500 PSI	

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
12 GA., 2 3/4", WINCHESTER COMPRESSION-FORMED AA AND HS PLASTIC SHELLS (CONT.)							
				1225 fps	1275 fps	1325 fps	
1 1/4 oz	SR 7625	Rem. 209P	Rem. SP12	—	28.0 gr / 10,200 PSI	29.0 gr / 10,900 PSI	
1 1/4 oz	SR 7625	Rem. 209P	WAA12R	—	28.0 gr / 9,100 PSI	29.5 gr / 10,300 PSI	
1 1/4 oz	SR 7625	Win. 209	Fed. 12S4	25.0 gr / 10,200 PSI	26.5 gr / 11,400 PSI	—	
1 1/4 oz	SR 7625	Win. 209	Rem. SP12	—	27.5 gr / 10,300 PSI	29.0 gr / 11,400 PSI	
1 1/4 oz	SR 7625	Win. 209	WAA12	—	27.0 gr / 11,000 PSI	28.0 gr / 11,500 PSI	
1 1/4 oz	SR 4756	Fed. 209A	Fed. 12S4	26.0 gr / 10,700 PSI	27.5 gr / 11,500 PSI	—	
1 1/4 oz	SR 4756	Fed. 209A	Rem. SP12	—	28.5 gr / 10,800 PSI	29.5 gr / 11,500 PSI	
1 1/4 oz	SR 4756	Fed. 209A	WAA12R	—	28.5 gr / 10,600 PSI	30.0 gr / 11,500 PSI	
1 1/4 oz	SR 4756	Rem. 209P	Fed. 12S4	29.5 gr / 8,400 PSI	—	—	
1 1/4 oz	SR 4756	Rem. 209P	Rem. RP12	—	30.5 gr / 9,600 PSI	31.5 gr / 10,600 PSI	
1 1/4 oz	SR 4756	Rem. 209P	WAA12R	—	31.5 gr / 8,200 PSI	33.0 gr / 9,000 PSI	
1 1/4 oz	SR 4756	Win. 209	Fed. 12S4	27.5 gr / 9,500 PSI	—	—	
1 1/4 oz	SR 4756	Win. 209	Rem. SP12	—	30.0 gr / 10,000 PSI	31.5 gr / 11,000 PSI	
1 1/4 oz	SR 4756	Win. 209	WAA12R	—	30.5 gr / 9,400 PSI	32.0 gr / 10,300 PSI	
1 1/4 oz	800-X	Fed. 209A	Fed. 12S4	—	24.5 gr / 10,600 PSI	26.0 gr / 11,500 PSI	
1 1/4 oz	800-X	Fed. 209A	Rem. SP12	—	25.0 gr / 9,800 PSI	26.5 gr / 10,700 PSI	
1 1/4 oz	800-X	Fed. 209A	WAA12	—	24.5 gr / 10,400 PSI	26.0 gr / 11,400 PSI	
1 1/4 oz	800-X	Fed. 209A	Windjammer	—	24.5 gr / 9,300 PSI	26.0 gr / 10,000 PSI	
1 1/4 oz	800-X	Rem. 209P	Fed. 12S4	—	26.0 gr / 8,600 PSI	27.5 gr / 9,600 PSI	
1 1/4 oz	800-X	Rem. 209P	Rem. SP12	—	27.5 gr / 7,800 PSI	29.0 gr / 8,500 PSI	
1 1/4 oz	800-X	Rem. 209P	WAA12	—	27.0 gr / 8,200 PSI	28.5 gr / 9,600 PSI	
1 1/4 oz	800-X	Rem. 209P	Windjammer	—	26.0 gr / 8,100 PSI	28.5 gr / 9,000 PSI	
1 1/4 oz	800-X	Win. 209	Fed. 12S3	—	25.0 gr / 10,000 PSI	26.5 gr / 10,900 PSI	
1 1/4 oz	800-X	Win. 209	Rem. SP12	—	25.0 gr / 9,400 PSI	26.5 gr / 10,200 PSI	
1 1/4 oz	800-X	Win. 209	WAA12	—	25.0 gr / 9,900 PSI	26.5 gr / 10,700 PSI	
1 1/4 oz	800-X	Win. 209	Windjammer	—	25.5 gr / 9,000 PSI	27.0 gr / 10,000 PSI	
				1220 fps	1275 fps	1310 fps	1330 fps
1 1/4 oz	WSF	CCI 209	Rem. RXP12	—	29.0 gr / 10,400 PSI	—	—
1 1/4 oz	WSF	CCI 209	Rem. SP12	—	—	—	28.0 gr / 9,800 PSI
1 1/4 oz	WSF	Fed. 209A	WAA12F114	—	—	27.0 gr / 10,700 PSI	—
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	WSF	Win. 209	WAA12F114	—	28.0 gr / 9,700 PSI	—	29.5 gr / 10,600 PSI
				1185 fps	1240 fps	1295 fps	
1 3/8 oz	Longshot	CCI 209M	BP Ultra Short Euro	23.7 gr / 9,300 PSI	25.1 gr / 10,600 PSI	—	
1 3/8 oz	Longshot	CCI 209M	Rem. RP12	23.1 gr / 10,200 PSI	24.8 gr / 10,900 PSI	—	
1 3/8 oz	Longshot	CCI 209M	WAA12R	23.5 gr / 9,700 PSI	25.2 gr / 11,000 PSI	—	
1 3/8 oz	Longshot	FED. 209A	BP Ultra Short Euro	24.0 gr / 9,500 PSI	25.4 gr / 10,600 PSI	—	
1 3/8 oz	Longshot	FED. 209A	Rem. RP12	23.6 gr / 9,500 PSI	25.3 gr / 10,700 PSI	—	
1 3/8 oz	Longshot	FED. 209A	WAA12R	23.5 gr / 10,100 PSI	25.2 gr / 10,900 PSI	—	
1 3/8 oz	Longshot	REM. 209P	BP Ultra Short Euro	23.9 gr / 8,900 PSI	25.6 gr / 10,300 PSI	—	
1 3/8 oz	Longshot	REM. 209P	Rem. RP12	23.5 gr / 9,500 PSI	25.6 gr / 10,200 PSI	27.5 gr / 11,100 PSI	

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*		
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12 GA., 2 3/4", WINCHESTER COMPRESSION-FORMED AA AND HS PLASTIC SHELLS (CONT.)

				1185 fps	1240 fps	1295 fps			
1 3/8 oz	Longshot	REM. 209P	WAA12R	24.3 gr/ 8,800 PSI	25.7 gr/ 10,200 PSI	27.0 gr/ 11,500 PSI			
1 3/8 oz	Longshot	WIN. 209	BP Ultra Short Euro	24.4 gr/ 9,000 PSI	26.1 gr/ 10,300 PSI	27.8 gr/ 11,500 PSI			
1 3/8 oz	Longshot	WIN. 209	Rem. RP12	24.5 gr/ 8,500 PSI	26.4 gr/ 9,600 PSI	28.3 gr/ 10,800 PSI			
1 3/8 oz	Longshot	WIN. 209	WAA12R	24.6 gr/ 8,700 PSI	26.4 gr/ 9,800 PSI	28.1 gr/ 10,900 PSI			
				1200 fps	1250 fps	1300 fps	1350 fps		
1 3/8 oz	SR 4756	Fed. 209A	Rem. SP12	27.5 gr/ 11,200 PSI	—	—	—		
1 3/8 oz	SR 4756	Fed. 209A	WAA12R	27.0 gr/ 10,900 PSI	—	—	—		
1 3/8 oz	SR 4756	Rem. 209P	Rem. RP12	—	31.0 gr/ 10,900 PSI	—	—		
1 3/8 oz	SR 4756	Rem. 209P	WAA12R	—	—	32.0 gr/ 10,600 PSI	—		
1 3/8 oz	SR 4756	Win. 209	Rem. SP12	—	28.5 gr/ 11,000 PSI	—	—		
1 3/8 oz	SR 4756	Win. 209	WAA12R	—	30.0 gr/ 11,200 PSI	—	—		
1 3/8 oz	800-X	Fed. 209A	Fed. 12S4	22.5 gr/ 11,100 PSI	—	—	—		
1 3/8 oz	800-X	Fed. 209A	Rem. SP12	—	25.0 gr/ 11,100 PSI	—	—		
1 3/8 oz	800-X	Fed. 209A	WAA12R	—	25.5 gr/ 11,000 PSI	—	—		
1 3/8 oz	800-X	Rem. 209P	Fed. 12S4	—	—	27.0 gr/ 11,100 PSI	—		
1 3/8 oz	800-X	Rem. 209P	Rem. RP12	—	—	—	30.0 gr/ 11,200 PSI		
1 3/8 oz	800-X	Rem. 209P	WAA12R	—	—	29.0 gr/ 10,100 PSI	—		
1 3/8 oz	800-X	Win. 209	Fed. 12S4	23.5 gr/ 11,100 PSI	—	—	—		
1 3/8 oz	800-X	Win. 209	Rem. SP1	—	26.0 gr/ 11,100 PSI	—	—		
1 3/8 oz	800-X	Win. 209	WAA12R	—	—	26.0 gr/ 11,000 PSI	—		
				1205 fps	1260 fps				
1 1/2 oz	Longshot	CCI 209M	Rem. SP12	25.9 gr/ 11,400 PSI	—				
1 1/2 oz	Longshot	CCI 209M	WAA12R	25.0 gr/ 11,300 PSI	—				
1 1/2 oz	Longshot	Fed. 209A	Rem. RP12	25.5 gr/ 11,100 PSI	—				
1 1/2 oz	Longshot	Fed. 209A	WAA12R	25.0 gr/ 11,000 PSI	—				
1 1/2 oz	Longshot	Rem. 209P	Rem. RP12	25.5 gr/ 11,100 PSI	—				
1 1/2 oz	Longshot	Rem. 209P	WAA12R	26.0 gr/ 10,800 PSI	—				
1 1/2 oz	Longshot	Win. 209	Rem. RP12	27.0 gr/ 9,900 PSI	28.0 gr/ 11,400 PSI				
1 1/2 oz	Longshot	Win. 209	WAA12R	26.4 gr/ 10,100 PSI	28.0 gr/ 11,500 PSI				

12 GA., 3", FEDERAL PLASTIC SHELL, 7/16" BASE WAD

				1250 fps	1300 fps	1350 fps			
1 1/2 oz	800-X	Win. 209	Fed. 12S4	29.0 gr/ 10,600 PSI	—	—			
1 1/2 oz	800-X	Win. 209	Rem. R12H	—	30.0 gr/ 10,500 PSI	—			
1 1/2 oz	SR 4756	Fed. 209A	Rem. RP12	—	33.5 gr/ 10,800 PSI	—			
1 1/2 oz	SR 4756	Fed. 209A	WAA12R	33.0 gr/ 10,700 PSI	—	—			
1 1/2 oz	SR 4756	Rem. 209P	Rem. RP12	—	37.0 gr/ 9,100 PSI	—			
1 1/2 oz	SR 4756	Rem. 209P	WAA12R	—	37.0 gr/ 9,600 PSI	—			
1 1/2 oz	SR 4756	Win. 209	Rem. RP12	—	37.0 gr/ 9,900 PSI	—			
				1250 fps	1300 fps	1350 fps			
1 1/2 oz	SR 4756	Win. 209	WAA12R	—	37.0 gr/ 10,400 PSI	—			
1 1/2 oz	800-X	Fed. 209A	Fed. 12S4	27.5 gr/ 10,800 PSI	—	—			
1 1/2 oz	800-X	Fed. 209A	Rem. R12H	29.0 gr/ 10,700 PSI	—	—			
1 1/2 oz	800-X	Rem. 209P	Fed. 12S4	—	31.0 gr/ 10,600 PSI	—			

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*		
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12 GA., 3", FEDERAL PLASTIC SHELL, 7/16" BASE WAD (CONT.)

				1250 fps	1300 fps	1350 fps			
1 1/2 oz	800-X	Rem. 209P	Rem. R12H	—	—	33.0 gr/ 10,600 PSI			
				1225 fps	1280 fps	1335 fps			
1 5/8 oz	Longshot	CCI209M	Fed. 12S4	28.3 gr/ 10,600 PSI	—	—			
1 5/8 oz	Longshot	CCI209M	WAA12	28.8 gr/ 10,200 PSI	30.8 gr/ 11,200 PSI	—			
1 5/8 oz	Longshot	Fed. 209A	Fed. 12S4	28.3 gr/ 10,800 PSI	—	—			
1 5/8 oz	Longshot	Fed. 209A	WAA12	29.1 gr/ 10,000 PSI	—	—			
1 5/8 oz	Longshot	Win. 209	Fed. 12S4	30.0 gr/ 10,300 PSI	—	—			
1 5/8 oz	Longshot	Win. 209	WAA12	30.9 gr/ 9,500 PSI	32.0 gr/ 10,600 PSI	—			
				1175 fps	1200 fps	1225 fps	1250 fps		
1 5/8 oz	SR 4756	Fed. 209A	Rem. RP12	31.0 gr/ 11,000 PSI	—	—	—		
1 5/8 oz	SR 4756	Fed. 209A	WAA12R	31.0 gr/ 10,800 PSI	—	—	—		
1 5/8 oz	SR 4756	Rem. 209P	Rem. RP12	—	—	—	34.5 gr/ 10,800 PSI		
1 5/8 oz	SR 4756	Rem. 209P	WAA12R	—	—	—	35.5 gr/ 10,900 PSI		
1 5/8 oz	SR 4756	Win. 209	Rem. RP12	—	—	—	36.0 gr/ 10,800 PSI		
1 5/8 oz	SR 4756	Win. 209	WAA12R	—	—	—	35.5 gr/ 10,800 PSI		
1 5/8 oz	800-X	Fed. 209A	Rem. SP12	26.0 gr/ 10,800 PSI	—	—	—		
1 5/8 oz	800-X	Fed. 209A	WAA12R	26.0 gr/ 10,800 PSI	—	—	—		
1 5/8 oz	800-X	Rem. 209P	Rem. SP12	—	28.0 gr/ 10,800 PSI	—	—		
1 5/8 oz	800-X	Rem. 209P	WAA12R	—	27.5 gr/ 10,900 PSI	—	—		
1 5/8 oz	800-X	Win. 209	Rem. SP12	—	—	29.0 gr/ 10,900 PSI	—		
1 5/8 oz	800-X	Win. 209	WAA12R	—	—	28.5 gr/ 11,000 PSI	—		
				1150 fps	1175 fps				
1 3/4 oz	800-X	Fed. 209A	WAA12R	25.5 gr/ 10,700 PSI	—				
1 3/4 oz	800-X	Rem. 209P	Rem. RP12	—	28.0 gr/ 10,500 PSI				
1 3/4 oz	800-X	Rem. 209P	WAA12R	—	28.0 gr/ 10,600 PSI				
1 3/4 oz	800-X	Win. 209	Rem. RP12	27.5 gr/ 10,600 PSI	—				
1 3/4 oz	800-X	Win. 209	WAA12R	—	27.5 gr/ 10,800 PSI				
				1155 fps	1210 fps				
1 7/8 oz	Longshot	CCI209M	Rem. SP12	27.7 gr/ 10,600 PSI	—				
1 7/8 oz	Longshot	Fed. 209A	Rem. SP12	27.1 gr/ 11,200 PSI	—				
1 7/8 oz	Longshot	Win. 209	Rem. SP12	27.9 gr/ 9,900 PSI	29.5 gr/ 11,400 PSI				
1 7/8 oz	Longshot	Win. 209	Win. WAA12R + .070" card	28.0 gr/ 10,500 PSI	—				

12 GA., 3", REMINGTON-PETERS PLASTIC GAME SHELLS

				1275 fps	1300 fps	1325 fps			
1 1/2 oz	SR 7625	Win. 209	Rem. RXP12	34.0 gr/ 10,600 PSI	—	—			
1 1/2 oz	SR 7625	Win. 209	Rem. SP12	33.5 gr/ 10,700 PSI	—	—			
1 1/2 oz	SR 4756	Win. 209	Rem. SP12	—	—	38.5 gr/ 10,500 PSI			
1 1/2 oz	800-X	Win. 209	Rem. SP12	—	30.5 gr/ 10,600 PSI	—			
1 1/2 oz	800-X	Win. 209	WAA12	29.5 gr/ 10,800 PSI	—	—			
				1225 fps	1280 fps	1335 fps			
1 5/8 oz	Longshot	CCI209M	Rem. SP12	28.9 gr/ 9,700 PSI	31.0 gr/ 10,600 PSI	—			
1 5/8 oz	Longshot	CCI209M	WAA12F114	28.0 gr/ 10,400 PSI	—	—			

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*		
12 GA., 3", REMINGTON-PETERS PLASTIC GAME SHELLS (CONT.)						
				1225 fps	1280 fps	1335 fps
1 5/8 oz	Longshot	Rem. 209P	Rem. SP12	29.7 gr / 9,000 PSI	31.3 gr / 10,200 PSI	—
1 5/8 oz	Longshot	Rem. 209P	WAA12F114	29.0 gr / 10,300 PSI	—	—
				1225 fps	1280 fps	1335 fps
1 5/8 oz	Longshot	Win. 209	Rem. SP12	29.9 gr / 9,300 PSI	32.2 gr / 10,300 PSI	34.4 gr / 11,200 PSI
1 5/8 oz	Longshot	Win. 209	WAA12F114	29.8 gr / 9,600 PSI	31.2 gr / 11,300 PSI	—
				1150 fps	1200 fps	1250 fps
1 5/8 oz	SR 4756	Fed. 209A	Rem. RP12	30.5 gr / 10,900 PSI	—	—
1 5/8 oz	SR 4756	Fed. 209A	WAA12R	—	30.0 gr / 11,000 PSI	—
1 5/8 oz	SR 4756	Rem. 209P	Rem. RP12	—	—	34.0 gr / 10,900 PSI
1 5/8 oz	SR 4756	Rem. 209P	WAA12R	—	—	34.0 gr / 10,900 PSI
1 5/8 oz	SR 4756	Win. 209	Rem. RP12	—	—	33.5 gr / 10,800 PSI
1 5/8 oz	SR 4756	Win. 209	WAA12R	—	—	35.0 gr / 11,000 PSI
1 5/8 oz	800-X	Fed. 209A	Rem. R12H	25.5 gr / 10,900 PSI	—	—
1 5/8 oz	800-X	Fed. 209A	WAA12	25.5 gr / 10,900 PSI	—	—
1 5/8 oz	800-X	Rem. 209P	Rem. SP12	—	28.0 gr / 10,900 PSI	—
1 5/8 oz	800-X	Rem. 209P	WAA12	—	27.5 gr / 10,800 PSI	—
1 5/8 oz	800-X	Win. 209	Rem. SP12	—	28.0 gr / 10,800 PSI	—
1 5/8 oz	800-X	Win. 209	WAA12	—	28.0 gr / 10,800 PSI	—
				1155 fps	1210 fps	
1 7/8 oz	Longshot	CCI209M	Rem. SP12	27.6 gr / 10,900 PSI	—	
1 7/8 oz	Longshot	Rem. 209P	Rem. SP12	28.4 gr / 11,000 PSI	—	
1 7/8 oz	Longshot	Win. 209	Rem. SP12	29.1 gr / 8,600 PSI	30.8 gr / 11,000 PSI	
12 GA., 3", WINCHESTER POLYFORMED PLASTIC GAME SHELLS (PLASTIC BASEWAD)						
				1225 fps	1280 fps	1335 fps
1 5/8 oz	Longshot	CCI209M	Rem. R12L	31.6 gr / 9,800 PSI	32.9 gr / 10,200 PSI	34.5 gr / 11,400 PSI
1 5/8 oz	Longshot	CCI209M	WAA12F114	—	31.6 gr / 10,700 PSI	—
1 5/8 oz	Longshot	Rem. 209P	Rem. R12L	32.2 gr / 8,500 PSI	33.9 gr / 9,200 PSI	35.7 gr / 10,000 PSI
1 5/8 oz	Longshot	Rem. 209P	WAA12F114	—	31.4 gr / 10,400 PSI	—
1 5/8 oz	Longshot	Win. 209	Rem. R12L	33.6 gr / 7,200 PSI	34.8 gr / 8,700 PSI	36.1 gr / 10,300 PSI
1 5/8 oz	Longshot	Win. 209	WAA12F114	—	32.7 gr / 10,400 PSI	34.0 gr / 11,500 PSI
				1155 fps	1210 fps	
1 7/8 oz	Longshot	CCI209M	Rem. SP12	28.5 gr / 9,900 PSI	31.0 gr / 11,500 PSI	
1 7/8 oz	Longshot	CCI209M	WAA12R + .070" card	28.5 gr / 10,400 PSI	—	
1 7/8 oz	Longshot	Rem. 209P	Rem. SP12	29.9 gr / 8,300 PSI	31.0 gr / 11,100 PSI	
1 7/8 oz	Longshot	Rem. 209P	WAA12R + .070" card	29.3 gr / 9,500 PSI	30.9 gr / 11,500 PSI	
1 7/8 oz	Longshot	Win. 209	Rem. SP12	30.2 gr / 9,500 PSI	32.0 gr / 10,700 PSI	
1 7/8 oz	Longshot	Win. 209	WAA12R + .070" card	29.5 gr / 8,800 PSI	31.3 gr / 11,000 PSI	
12 GA., 3" WINCHESTER COMPRESSION-FORMED SUPER-X TYPE SHELLS						
				1200 fps	1250 fps	1300 fps
1 5/8 oz	SR 4756	Fed. 209A	Rem. SP12	33.0 gr / 10,900 PSI	—	—
1 5/8 oz	SR 4756	Fed. 209A	WAA12F114	31.0 gr / 10,800 PSI	—	—
1 5/8 oz	SR 4756	Rem. 209P	Rem. RP12	—	—	35.5 gr / 10,900 PSI
1 5/8 oz	SR 4756	Rem. 209P	WAA12R	—	—	37.5 gr / 11,000 PSI

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*		
12 GA., 3" WINCHESTER COMPRESSION-FORMED SUPER-X TYPE SHELLS (CONT.)						
				1200 fps	1250 fps	1300 fps
1 5/8 oz	SR 4756	Win. 209	Rem. RP12	—	—	37.5 gr / 11,000 PSI
1 5/8 oz	SR 4756	Win. 209	WAA12R	—	—	38.5 gr / 10,900 PSI
1 5/8 oz	800-X	Fed. 209A	Rem. RXP12	28.5 gr / 11,000 PSI	—	—
1 5/8 oz	800-X	Fed. 209A	WAA12	28.0 gr / 10,800 PSI	—	—
1 5/8 oz	800-X	Rem. 209P	Rem. RXP12	—	31.5 gr / 11,000 PSI	—
1 5/8 oz	800-X	Rem. 209P	WAA12	—	30.0 gr / 10,900 PSI	—
1 5/8 oz	800-X	Win. 209	Rem. RXP12	—	30.5 gr / 11,000 PSI	—
1 5/8 oz	800-X	Win. 209	WAA12	—	30.5 gr / 11,000 PSI	—
12 GA., 3 1/2", FEDERAL STEEL SHOTSHELLS (LEAD SHOT LOADS)						
				1250 fps	1300 fps	
1 7/8 oz	Longshot	Fed. 209A	Fed. 12S0 + 1-20 ga. .135" Card	36.3 gr / 12,200 PSI	—	
1 7/8 oz	Longshot	Fed. 209A	WAA12L + 1-20 ga. .135" Card	37.0 gr / 12,300 PSI	—	
1 7/8 oz	Longshot	Fed. 209A	WAA12SL + 1-20 ga. .135" Card	37.0 gr / 12,500 PSI	—	
1 7/8 oz	Longshot	Rem. 209P	Fed. 12S0 + 1-20 ga. .135" Card	37.8 gr / 11,400 PSI	39.4 gr / 13,300 PSI	
1 7/8 oz	Longshot	Rem. 209P	WAA12L + 1-20 ga. .135" Card	37.3 gr / 12,100 PSI	39.2 gr / 13,400 PSI	
1 7/8 oz	Longshot	Rem. 209P	WAA12SL + 1-20 ga. .135" Card	36.8 gr / 12,400 PSI	39.0 gr / 13,000 PSI	
				1200 fps		
2 oz	Longshot	Fed. 209A	Fed. 12S3 + 1-20 ga. .135" Card	35.0 gr / 12,900 PSI		
2 oz	Longshot	Fed. 209A	WAA12SL	34.8 gr / 13,300 PSI		
2 oz	Longshot	Rem. 209P	Fed. 12S3 + 1-20 ga. .135" Card	35.5 gr / 12,400 PSI		
2 oz	Longshot	Rem. 209P	WAA12SL	35.3 gr / 12,300 PSI		
				1150 fps		
2 1/4 oz	Longshot	Fed. 209A	Fed. 12S3	32.0 gr / 13,700 PSI		
2 1/4 oz	Longshot	Fed. 209A	Rem. RXP	31.0 gr / 13,200 PSI		
2 1/4 oz	Longshot	Fed. 209A	WAA12	31.0 gr / 13,700 PSI		
2 1/4 oz	Longshot	Rem. 209P	Fed. 12S3	33.0 gr / 12,900 PSI		
2 1/4 oz	Longshot	Rem. 209P	Rem. RXP	33.0 gr / 12,600 PSI		
2 1/4 oz	Longshot	Rem. 209P	WAA12	33.0 gr / 13,400 PSI		
12 GA., 3 1/2", REMINGTON STEEL SHOTSHELLS (LEAD SHOT LOADS)						
				1250 fps		
1 7/8 oz	Longshot	Fed. 209A	Fed. 12S0 + 1-20 ga. .135" Card	36.0 gr / 13,600 PSI		
1 7/8 oz	Longshot	Fed. 209A	Rem. TGT12 + 1-20 ga. .135" Card	36.0 gr / 13,200 PSI		
1 7/8 oz	Longshot	Fed. 209A	WAA12SL + 1-20 ga. .135" Card	36.1 gr / 13,000 PSI		
1 7/8 oz	Longshot	Rem. 209P	Fed. 12S0 + 1-20 ga. .135" Card	36.4 gr / 13,000 PSI		
1 7/8 oz	Longshot	Rem. 209P	Rem. TGT12 + 1-20 ga. .135" Card	36.0 gr / 13,100 PSI		
1 7/8 oz	Longshot	Rem. 209P	WAA12SL + 1-20 ga. .135" Card	36.5 gr / 13,200 PSI		
				1200 fps		
2 oz	Longshot	Fed. 209A	Rem. TGT12	33.8 gr / 13,000 PSI		
2 oz	Longshot	Rem. 209P	Fed. 12S3 + 1-20 ga. .135" Card	34.0 gr / 13,300 PSI		
2 oz	Longshot	Rem. 209P	Rem. TGT12	34.0 gr / 13,300 PSI		
				1150 fps	1175 fps	
2 1/4 oz	Longshot	Fed. 209A	Fed. 12S3	29.4 gr / 13,100 PSI	29.9 gr / 13,600 PSI	
2 1/4 oz	Longshot	Fed. 209A	Rem. RXP	29.3 gr / 13,300 PSI	30.0 gr / 13,900 PSI	
2 1/4 oz	Longshot	Fed. 209A	WAA12	29.5 gr / 13,600 PSI	—	

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
12 GA., 3 1/2", REMINGTON STEEL SHOTSHELLS (LEAD SHOT LOADS) (CONT.)							
				1150 fps	1175 fps		
2 1/4 oz	Longshot	Rem. 209P	Rem. RXP	31.0 gr / 13,700 PSI	—		
2 1/4 oz	Longshot	Rem. 209P	WAA12	30.0 gr / 13,000 PSI	30.9 gr / 13,500 PSI		
12 GA., 3 1/2", WINCHESTER STEEL SHOTSHELLS (LEAD SHOT LOADS)							
				1250 fps	1300 fps		
1 7/8 oz	Longshot	Fed. 209A	Fed. 12S3 + 1-20 ga. .135" Card	35.5 gr / 13,400 PSI	—		
1 7/8 oz	Longshot	Fed. 209A	WAA12 + 1-20 ga. .135" Card	35.9 gr / 13,000 PSI	—		
1 7/8 oz	Longshot	Fed. 209A	WAA12SL + 1-20 ga. .135" Card	37.0 gr / 12,800 PSI	—		
1 7/8 oz	Longshot	Win. 209	Fed. 12S3 + 1-20 ga. .135" Card	37.9 gr / 11,200 PSI	39.5 gr / 12,400 PSI		
1 7/8 oz	Longshot	Win. 209	WAA12 + 1-20 ga. .135" Card	37.2 gr / 11,900 PSI	39.8 gr / 13,100 PSI		
1 7/8 oz	Longshot	Win. 209	WAA12SL + 1-20 ga. .135" Card	38.6 gr / 11,100 PSI	—		
				1200 fps			
2 oz	Longshot	Fed. 209A	Fed. 12S3 + 1-20 ga. .135" Card	34.2 gr / 13,400 PSI			
2 oz	Longshot	Fed. 209A	WAA12 + 1-20 ga. .135" Card	35.0 gr / 13,200 PSI			
2 oz	Longshot	Win. 209	Fed. 12S3 + 1-20 ga. .135" Card	38.0 gr / 11,300 PSI			
2 oz	Longshot	Win. 209	WAA12 + 1-20 ga. .135" Card	36.0 gr / 12,800 PSI			
				1150 fps			
2 1/4 oz	Longshot	Rem. 209P	Fed. 12S4 + 1-20 ga. .135" Card	31.0 gr / 13,500 PSI			
2 1/4 oz	Longshot	Rem. 209P	Rem. R12H + 1-20 ga. .135" Card	31.5 gr / 12,400 PSI			
2 1/4 oz	Longshot	Rem. 209P	WAA12F114 + 1-20 ga. .135" Card	32.0 gr / 14,000 PSI			
2 1/4 oz	Longshot	Win. 209	Fed. 12S4	31.5 gr / 13,300 PSI			
2 1/4 oz	Longshot	Win. 209	Rem. R12H + 1-20 ga. .135" Card	32.0 gr / 13,200 PSI			
2 1/4 oz	Longshot	Win. 209	WAA12F114 + 1-20 ga. .135" Card	32.0 gr / 12,600 PSI			
16 GA., 2 3/4", FEDERAL HI POWER PLASTIC PAPER BASE WAD SHELLS							
				1165 fps	1220 fps	1275 fps	
1 oz	Universal	CCI 209M	Activ G-28	21.5 gr / 7,500 PSI	22.5 gr / 8,200 PSI	24.2 gr / 9,000 PSI	
1 oz	Universal	Fed. 209A	BPG/BP	21.0 gr / 7,400 PSI	22.0 gr / 8,200 PSI	23.5 gr / 9,200 PSI	
1 oz	Universal	Win. 209	WAA16	20.7 gr / 7,600 PSI	22.3 gr / 8,200 PSI	23.5 gr / 8,900 PSI	
				1275 fps	1325 fps	1350 fps	1375 fps
1 oz	PB	Fed. 209A	WAA16	21.5 gr / 11,000 PSI	—	—	—
1 oz	PB	Rem. 209P	Rem. SP16	—	—	25.0 gr / 11,200 PSI	—
1 oz	PB	Win. 209	WAA16	—	23.5 gr / 11,200 PSI	—	—
1 oz	SR 7625	Fed. 209A	WAA16	—	—	24.5 gr / 11,000 PSI	—
1 oz	SR 7625	Rem. 209P	Rem. SP16	—	—	—	26.5 gr / 10,400 PSI
				1325 fps			
1 oz	SR 7625	Win. 209	WAA16	25.0 gr / 9,900 PSI			
				1200 fps	1250 fps	1350 fps	1375 fps
1 oz	SR 4756	Fed. 209A	WAA16	—	25.0 gr / 8,500 PSI	—	—
1 oz	SR 4756	Rem. 209P	Rem. SP16	27.0 gr / 6,400 PSI	—	—	—
1 oz	SR 4756	Win. 209	WAA16	25.0 gr / 7,200 PSI	—	—	—
1 oz	800-X	Fed. 209A	Rem. SP16	—	—	—	24.0 gr / 10,400 PSI
1 oz	800-X	Rem. 209P	Rem. SP16	—	—	25.0 gr / 8,300 PSI	—
1 oz	800-X	Win. 209	WAA16	—	—	—	24.5 gr / 10,200 PSI

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
16 GA., 2 3/4", FEDERAL HI POWER PLASTIC PAPER BASE WAD SHELLS (CONT.)							
				1200 fps	1250 fps	1300 fps	
1 1/8 oz	PB	Rem. 209P	Rem. SP16	21.0 gr / 10,500 PSI	—	—	
1 1/8 oz	PB	Win. 209	Rem. SP16	20.5 gr / 11,000 PSI	—	—	
1 1/8 oz	SR 7625	Fed. 209A	Rem. SP16	22.0 gr / 11,000 PSI	—	—	
1 1/8 oz	SR 7625	Rem. 209P	Rem. SP16	23.0 gr / 9,000 PSI	—	—	
1 1/8 oz	SR 7625	Win. 209	Rem. SP16	—	23.0 gr / 10,800 PSI	—	
1 1/8 oz	800-X	Fed. 209A	Rem. SP16	—	—	22.5 gr / 11,000 PSI	
1 1/8 oz	800-X	Rem. 209P	Rem. SP16	—	—	24.5 gr / 10,100 PSI	
1 1/8 oz	800-X	Win. 209	Rem. SP16	—	—	22.5 gr / 10,800 PSI	
16 GA., 2 3/4", REMINGTON SP PLASTIC SHELLS							
				1165 fps	1220 fps	1275 fps	
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	
				1200 fps	1250 fps	1300 fps	1350 fps
1 oz	PB	Fed. 209A	Rem. SP16	17.5 gr / 11,200 PSI	—	—	—
1 oz	PB	Rem. 209P	Rem. SP16	—	20.0 gr / 10,700 PSI	—	—
1 oz	PB	Win. 209	WAA16	19.0 gr / 11,000 PSI	—	—	—
1 oz	SR 7625	Fed. 209A	Rem. SP16	—	21.0 gr / 11,200 PSI	—	—
1 oz	SR 7625	Rem. 209P	Rem. SP16	—	—	23.5 gr / 11,200 PSI	—
1 oz	SR 7625	Win. 209	WAA16	—	—	22.5 gr / 11,200 PSI	—
1 oz	SR 4756	Fed. 209A	Rem. SP16	—	—	23.5 gr / 11,000 PSI	—
1 oz	SR 4756	Rem. 209P	Rem. SP16	—	—	—	29.0 gr / 10,100 PSI
1 oz	800-X	Fed. 209A	Rem. SP16	—	—	20.5 gr / 11,200 PSI	—
1 oz	800-X	Rem. 209P	Rem. SP16	—	—	—	24.0 gr / 11,100 PSI
1 oz	800-X	Win. 209	WAA16	—	—	21.5 gr / 11,000 PSI	—
				1175 fps	1200 fps	1225 fps	
1 1/8 oz	SR 7625	Rem. 209P	Rem. SP16	—	22.0 gr / 11,000 PSI	—	
1 1/8 oz	SR 7625	Win. 209	Rem. SP16	21.0 gr / 10,900 PSI	—	—	
1 1/8 oz	SR 4756	Fed. 209A	Rem. SP16	22.0 gr / 10,900 PSI	—	—	
1 1/8 oz	SR 4756	Rem. 209P	Rem. SP16	24.0 gr / 9,500 PSI	—	—	
1 1/8 oz	SR 4756	Win. 209	Rem. SP16	—	—	23.5 gr / 11,000 PSI	
1 1/8 oz	800-X	Fed. 209A	Rem. SP16	—	19.0 gr / 10,800 PSI	—	
1 1/8 oz	800-X	Rem. 209P	Rem. SP16	—	—	21.0 gr / 10,800 PSI	
1 1/8 oz	800-X	Win. 209	Rem. SP16	—	—	19.5 gr / 10,900 PSI	
16 GA., 2 3/4", WINCHESTER X-PERT PLASTIC SHELLS							
				1250 fps			
1 oz	PB	Fed. 209A	WAA16	19.5 gr / 11,200 PSI			
1 oz	PB	Rem. 209P	Rem. SP16	21.0 gr / 10,800 PSI			
				1200 fps	1250 fps	1300 fps	1350 fps
1 oz	PB	Win. 209	WAA16	19.0 gr / 10,900 PSI	—	—	—
1 oz	SR 7625	Fed. 209A	WAA16	—	20.5 gr / 10,900 PSI	—	—
1 oz	SR 7625	Rem. 209P	Rem. SP16	—	—	23.0 gr / 11,200 PSI	—

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
16 GA., 2 3/4", REMINGTON SP PLASTIC SHELLS (CONT.)							
				1200 fps	1250 fps	1300 fps	1350 fps
1 oz	SR 7625	Win. 209	WAA16	—	22.0 gr / 11,000 PSI	—	—
1 oz	SR 4756	Fed. 209A	Rem. SP16	—	22.5 gr / 10,900 PSI	—	—
1 oz	SR 4756	Rem. 209P	Rem. SP16	—	—	—	27.0 gr / 9,900 PSI
1 oz	800-X	Fed. 209A	WAA16	—	—	—	22.5 gr / 10,800 PSI
1 oz	800-X	Rem. 209P	Rem. SP16	—	—	—	24.0 gr / 9,000 PSI
1 oz	800-X	Win. 209	WAA16	—	—	—	23.0 gr / 11,200 PSI
				1150 fps	1200 fps	1250 fps	
1 1/8 oz	SR 7625	Rem. 209P	Rem. SP16	19.5 gr / 10,900 PSI	—	—	
1 1/8 oz	SR 7625	Win. 209	Rem. SP16	19.0 gr / 10,900 PSI	—	—	
1 1/8 oz	SR 4756	Fed. 209A	Rem. SP16	20.5 gr / 10,800 PSI	—	—	
1 1/8 oz	SR 4756	Rem. 209P	Rem. SP16	23.0 gr / 8,900 PSI	—	—	
1 1/8 oz	SR 4756	Win. 209	Rem. SP16	—	22.5 gr / 11,100 PSI	—	
1 1/8 oz	800-X	Fed. 209A	Rem. SP16	—	19.0 gr / 10,900 PSI	—	
1 1/8 oz	800-X	Rem. 209P	Rem. SP16	—	—	22.0 gr / 10,100 PSI	
1 1/8 oz	800-X	Win. 209	Rem. SP16	—	20.0 gr / 11,000 PSI	—	
20 GA., 2 3/4", FEDERAL PLASTIC TARGET SHELLS							
				1200 fps	1225 fps	1250 fps	
7/8 oz	Internat'l	CCI 209SC	Fed. 20S1	15.0 gr / 11,100 PSI	15.6 gr / 11,800 PSI	—	
7/8 oz	Internat'l	CCI 209SC	PC20	14.7 gr / 10,400 PSI	—	—	
7/8 oz	Internat'l	CCI 209SC	Rem. RXP20	14.5 gr / 10,000 PSI	15.5 gr / 10,700 PSI	—	
7/8 oz	Internat'l	CCI 209SC	WAA20F1	14.7 gr / 10,300 PSI	15.3 gr / 11,600 PSI	—	
7/8 oz	Internat'l	CCI 209SC	Windjammer	15.0 gr / 10,700 PSI	15.5 gr / 11,800 PSI	—	
7/8 oz	Internat'l	Fed. 209A	Fed. 20S1	14.5 gr / 11,500 PSI	—	—	
7/8 oz	Internat'l	Fed. 209A	Rem. RXP20	14.7 gr / 11,100 PSI	—	—	
7/8 oz	Internat'l	Fed. 209A	WAA20F1	14.5 gr / 11,500 PSI	—	—	
7/8 oz	Internat'l	Fed. 209A	Windjammer	14.5 gr / 11,300 PSI	14.9 gr / 12,000 PSI	—	
7/8 oz	Internat'l	Rem. 209P	Fed. 20S1	15.3 gr / 10,700 PSI	—	—	
7/8 oz	Internat'l	Rem. 209P	WAA20F1	15.0 gr / 10,200 PSI	15.5 gr / 11,300 PSI	16.0 gr / 11,500 PSI	
7/8 oz	Internat'l	Rem. 209P	Windjammer	15.3 gr / 10,700 PSI	16.0 gr / 11,400 PSI	—	
7/8 oz	Internat'l	Win. 209	Fed. 20S1	14.6 gr / 11,400 PSI	—	—	
7/8 oz	Internat'l	Win. 209	Rem. RXP20	14.7 gr / 10,200 PSI	15.3 gr / 11,300 PSI	—	
7/8 oz	Internat'l	Win. 209	WAA20F1	14.5 gr / 10,500 PSI	15.1 gr / 11,500 PSI	—	
7/8 oz	Internat'l	Win. 209	Windjammer	14.5 gr / 10,800 PSI	—	—	
7/8 oz	Universal	Fed. 209A	Fed. 20S1	16.7 gr / 10,000 PSI	17.0 gr / 10,700 PSI	—	
7/8 oz	Universal	Fed. 209A	PC20	17.0 gr / 10,000 PSI	—	—	
7/8 oz	Universal	Fed. 209A	Rem. RXP20	17.0 gr / 9,800 PSI	17.7 gr / 10,200 PSI	18.0 gr / 10,400 PSI	
7/8 oz	Universal	Fed. 209A	WAA20F1	17.0 gr / 10,100 PSI	17.5 gr / 10,500 PSI	17.8 gr / 10,800 PSI	
7/8 oz	Universal	Fed. 209A	Windjammer	17.0 gr / 9,600 PSI	17.5 gr / 10,300 PSI	18.0 gr / 10,800 PSI	
7/8 oz	Universal	Rem. 209P	Fed. 20S1	18.0 gr / 9,300 PSI	—	—	
7/8 oz	Universal	Rem. 209P	Rem. RXP20	18.5 gr / 8,400 PSI	19.0 gr / 9,100 PSI	—	
7/8 oz	Universal	Rem. 209P	WAA20F1	17.8 gr / 8,700 PSI	18.3 gr / 9,500 PSI	—	
7/8 oz	Universal	Rem. 209P	Windjammer	18.0 gr / 8,900 PSI	18.5 gr / 9,400 PSI	—	
7/8 oz	Universal	Win. 209	Fed. 20S1	17.4 gr / 9,600 PSI	18.0 gr / 10,300 PSI	—	
7/8 oz	Universal	Win. 209	PC20	17.5 gr / 9,400 PSI	—	—	

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
20 GA., 2 3/4", FEDERAL PLASTIC TARGET SHELLS (CONT.)							
				1200 fps	1225 fps	1250 fps	
7/8 oz	Universal	Win. 209	Rem. RXP20	17.5 gr / 9,300 PSI	18.2 gr / 9,800 PSI	—	
7/8 oz	Universal	Win. 209	WAA20	17.0 gr / 9,300 PSI	17.5 gr / 9,900 PSI	18.0 gr / 10,200 PSI	
7/8 oz	Universal	Win. 209	WAA20F1	17.0 gr / 10,000 PSI	17.4 gr / 10,200 PSI	17.9 gr / 10,400 PSI	
7/8 oz	Universal	Win. 209	Windjammer	17.5 gr / 9,200 PSI	18.2 gr / 9,900 PSI	18.5 gr / 10,400 PSI	
				1300 fps	1350 fps	1400 fps	1450 fps
7/8 oz	Longshot	CCI209M	Fed. 20S1	20.5 gr / 8,900 PSI	21.5 gr / 9,800 PSI	22.6 gr / 10,900 PSI	—
7/8 oz	Longshot	CCI209M	Rem. RXP20	21.1 gr / 8,500 PSI	22.1 gr / 9,200 PSI	23.2 gr / 9,900 PSI	24.2 gr / 10,700 PSI
7/8 oz	Longshot	CCI209M	WAA20	21.0 gr / 8,700 PSI	21.7 gr / 9,700 PSI	22.3 gr / 10,600 PSI	—
7/8 oz	Longshot	Fed. 209A	Fed. 20S1	20.3 gr / 9,300 PSI	21.3 gr / 10,200 PSI	22.3 gr / 11,100 PSI	—
7/8 oz	Longshot	Fed. 209A	Rem. RXP20	20.5 gr / 8,800 PSI	21.6 gr / 9,800 PSI	22.7 gr / 10,700 PSI	23.8 gr / 11,800 PSI
7/8 oz	Longshot	Fed. 209A	WAA20	20.6 gr / 8,900 PSI	21.7 gr / 9,800 PSI	22.8 gr / 10,600 PSI	23.9 gr / 11,400 PSI
7/8 oz	Longshot	Rem. 209P	Fed. 20S1	20.6 gr / 8,800 PSI	21.7 gr / 9,700 PSI	22.8 gr / 10,500 PSI	24.0 gr / 11,900 PSI
7/8 oz	Longshot	Rem. 209P	Rem. RXP20	22.5 gr / 8,200 PSI	23.2 gr / 9,000 PSI	23.9 gr / 9,700 PSI	24.5 gr / 10,400 PSI
7/8 oz	Longshot	Rem. 209P	WAA20	20.8 gr / 8,600 PSI	21.9 gr / 9,400 PSI	22.9 gr / 10,200 PSI	24.0 gr / 11,000 PSI
7/8 oz	Longshot	Win. 209	Fed. 20S1	21.5 gr / 8,100 PSI	22.6 gr / 8,900 PSI	23.7 gr / 9,700 PSI	25.0 gr / 11,000 PSI
7/8 oz	Longshot	Win. 209	Rem. RXP20	—	24.1 gr / 7,700 PSI	24.9 gr / 8,700 PSI	25.7 gr / 9,600 PSI
7/8 oz	Longshot	Win. 209	WAA20	22.3 gr / 7,500 PSI	23.3 gr / 8,300 PSI	24.3 gr / 9,200 PSI	25.0 gr / 10,800 PSI
				1200 fps			
7/8 oz	700-X	Fed. 209A	Fed. 20S1	14.0 gr / 11,900 PSI	—	—	
7/8 oz	700-X	Fed. 209A	Rem. RXP20	14.5 gr / 11,500 PSI	—	—	
7/8 oz	700-X	Fed. 209A	WAA20	14.5 gr / 11,700 PSI	—	—	
7/8 oz	700-X	Fed. 209A	Windjammer	14.5 gr / 11,800 PSI	—	—	
7/8 oz	700-X	Rem. 209P	Fed. 20S1	14.5 gr / 11,600 PSI	—	—	
7/8 oz	700-X	Rem. 209P	Rem. RXP 20	15.0 gr / 11,100 PSI	—	—	
7/8 oz	700-X	Rem. 209P	WAA20	14.5 gr / 11,300 PSI	—	—	
7/8 oz	700-X	Rem. 209P	Windjammer	14.5 gr / 11,400 PSI	—	—	
7/8 oz	700-X	Win. 209	Rem. RXP 20	14.5 gr / 11,000 PSI	—	—	
7/8 oz	700-X	Win. 209	WAA20	14.5 gr / 11,200 PSI	—	—	
7/8 oz	700-X	Win. 209	Windjammer	14.5 gr / 11,200 PSI	—	—	
7/8 oz	PB	Fed. 209A	Fed. 20S1	17.5 gr / 10,000 PSI	—	—	
7/8 oz	PB	Fed. 209A	Rem. RXP 20	17.5 gr / 9,300 PSI	—	—	
7/8 oz	PB	Fed. 209A	WAA20	17.5 gr / 9,400 PSI	—	—	
7/8 oz	PB	Fed. 209A	Windjammer	17.5 gr / 9,500 PSI	—	—	
7/8 oz	PB	Rem. 209P	Fed. 20S1	17.5 gr / 9,400 PSI	—	—	
7/8 oz	PB	Rem. 209P	Rem. RXP 20	17.5 gr / 8,900 PSI	—	—	
7/8 oz	PB	Rem. 209P	WAA20	17.5 gr / 9,300 PSI	—	—	
7/8 oz	PB	Rem. 209P	Windjammer	18.0 gr / 9,500 PSI	—	—	
7/8 oz	PB	Win. 209	Fed. 20S1	17.5 gr / 10,100 PSI	—	—	
7/8 oz	PB	Win. 209	Rem. RXP 20	18.0 gr / 9,000 PSI	—	—	
7/8 oz	PB	Win. 209	WAA20	17.5 gr / 9,400 PSI	—	—	
7/8 oz	PB	Win. 209	Windjammer	17.5 gr / 9,500 PSI	—	—	
7/8 oz	SR 7625	Fed. 209A	Fed. 20S1	18.5 gr / 8,700 PSI	—	—	
7/8 oz	SR 7625	Fed. 209A	Rem. RXP20	19.0 gr / 8,700 PSI	—	—	
7/8 oz	SR 7625	Fed. 209A	WAA20	18.5 gr / 9,200 PSI	—	—	

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*		
20 GA., 2 3/4", FEDERAL PLASTIC TARGET SHELLS (CONT.)						
1200 fps						
7/8 oz	SR 7625	Fed. 209A	Windjammer	18.5 gr/	8,600 PSI	
7/8 oz	SR 7625	Rem. 209P	Fed. 20S1	19.0 gr/	8,300 PSI	
7/8 oz	SR 7625	Rem. 209P	Rem. RXP 20	19.5 gr/	8,300 PSI	
7/8 oz	SR 7625	Rem. 209P	WAA20	18.5 gr/	8,500 PSI	
7/8 oz	SR 7625	Rem. 209P	Windjammer	19.0 gr/	8,300 PSI	
7/8 oz	SR 7625	Win. 209	Fed. 20S1	18.5 gr/	8,600 PSI	
7/8 oz	SR 7625	Win. 209	Rem. RXP20	18.5 gr/	8,500 PSI	
7/8 oz	SR 7625	Win. 209	WAA20	18.5 gr/	8,400 PSI	
7/8 oz	SR 7625	Win. 209	Windjammer	19.0 gr/	9,100 PSI	
7/8 oz	SR 4756	Fed. 209A	Fed. 20S1	20.5 gr/	8,700 PSI	
7/8 oz	SR 4756	Fed. 209A	Rem. RXP20	21.0 gr/	7,800 PSI	
7/8 oz	SR 4756	Fed. 209A	WAA20F1	20.5 gr/	8,500 PSI	
7/8 oz	SR 4756	Fed. 209A	Windjammer	20.5 gr/	8,700 PSI	
7/8 oz	SR 4756	Rem. 209P	Fed. 20S1	21.5 gr/	7,600 PSI	
7/8 oz	SR 4756	Rem. 209P	Rem. RXP20	21.5 gr/	7,000 PSI	
7/8 oz	SR 4756	Rem. 209P	WAA20F1	21.5 gr/	7,900 PSI	
7/8 oz	SR 4756	Rem. 209P	Windjammer	21.5 gr/	7,900 PSI	
7/8 oz	SR 4756	Win. 209	Fed. 20S1	20.5 gr/	8,500 PSI	
7/8 oz	SR 4756	Win. 209	Rem. RXP 20	21.0 gr/	7,900 PSI	
7/8 oz	SR 4756	Win. 209	WAA20F1	20.5 gr/	8,200 PSI	
7/8 oz	SR 4756	Win. 209	Windjammer	20.5 gr/	8,300 PSI	
7/8 oz	800-X	Fed. 209A	Fed. 20S1	17.0 gr/	8,200 PSI	
7/8 oz	800-X	Fed. 209A	Rem. RXP20	17.5 gr/	7,600 PSI	
7/8 oz	800-X	Fed. 209A	WAA20	17.5 gr/	8,000 PSI	
7/8 oz	800-X	Fed. 209A	Windjammer	17.5 gr/	8,000 PSI	
7/8 oz	800-X	Rem. 209P	Fed. 20S1	17.5 gr/	7,900 PSI	
7/8 oz	800-X	Rem. 209P	Rem. RXP 20	18.0 gr/	7,600 PSI	
7/8 oz	800-X	Rem. 209P	WAA20	17.5 gr/	7,600 PSI	
7/8 oz	800-X	Rem. 209P	Windjammer	17.0 gr/	7,300 PSI	
7/8 oz	800-X	Win. 209	Fed. 20S1	17.5 gr/	8,300 PSI	
7/8 oz	800-X	Win. 209	Rem. RXP 20	17.5 gr/	8,000 PSI	
7/8 oz	800-X	Win. 209	WAA20	17.5 gr/	8,100 PSI	
7/8 oz	800-X	Win. 209	Windjammer	17.5 gr/	8,000 PSI	
1165 fps 1220 fps 1250 fps						
1 oz	HS-6	CCI 209M	WAA20F1	21.5 gr/	9,800 PSI	23.0 gr/ 11,200 PSI
1 oz	HS-6	CCI 209M	REM SP20	21.3 gr/	10,000 PSI	22.5 gr/ 10,800 PSI
1 oz	HS-6	Fed. 209A	REM SP20	21.0 gr/	10,100 PSI	22.5 gr/ 11,300 PSI
1 oz	HS-6	Fed. 209A	WAA20F1	21.0 gr/	9,700 PSI	22.5 gr/ 11,200 PSI
1 oz	HS-6	Win. 209	REM SP20	21.5 gr/	9,900 PSI	23.0 gr/ 10,900 PSI 24.0 gr/ 11,700 PSI
1 oz	HS-6	Win. 209	WAA20F1	21.5 gr/	10,100 PSI	23.0 gr/ 11,700 PSI
1165 fps 1220 fps 1275 fps						
1 oz	Longshot	CCI 209M	Fed. 20S1	17.7 gr/	9,200 PSI	19.1 gr/ 10,500 PSI 20.5 gr/ 11,800 PSI
1 oz	Longshot	CCI 209M	Rem. SP20	—	19.5 gr/ 10,400 PSI	20.6 gr/ 11,800 PSI

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
20 GA., 2 3/4", FEDERAL PLASTIC TARGET SHELLS (CONT.)							
1165 fps 1220 fps 1275 fps							
1 oz	Longshot	CCI 209M	WAA20F1	—	18.9 gr/ 10,400 PSI	20.5 gr/ 11,800 PSI	
1 oz	Longshot	Fed. 209A	Fed. 20S1	16.8 gr/	9,400 PSI	18.5 gr/ 10,600 PSI 20.3 gr/ 11,800 PSI	
1 oz	Longshot	Fed. 209A	Rem. SP20	17.4 gr/	9,400 PSI	18.9 gr/ 10,500 PSI 20.4 gr/ 11,700 PSI	
1 oz	Longshot	Fed. 209A	WAA20F1	17.7 gr/	9,100 PSI	18.9 gr/ 10,100 PSI 20.2 gr/ 11,200 PSI	
1 oz	Longshot	Rem. 209P	Fed. 20S1	17.7 gr/	8,700 PSI	19.0 gr/ 10,100 PSI 20.2 gr/ 11,400 PSI	
1 oz	Longshot	Rem. 209P	Rem. RXP20	19.0 gr/	8,700 PSI	19.8 gr/ 9,600 PSI 20.7 gr/ 10,600 PSI	
1 oz	Longshot	Rem. 209P	WAA20F1	17.1 gr/	9,100 PSI	18.8 gr/ 10,000 PSI 20.6 gr/ 10,900 PSI	
1 oz	Longshot	Win. 209	Fed. 20S1	18.6 gr/	9,000 PSI	19.7 gr/ 9,900 PSI 20.9 gr/ 10,800 PSI	
1 oz	Longshot	Win. 209	Rem. RXP20	19.8 gr/	8,100 PSI	20.7 gr/ 8,900 PSI 21.5 gr/ 9,700 PSI	
1 oz	Longshot	Win. 209	WAA20F1	17.8 gr/	8,400 PSI	19.5 gr/ 9,400 PSI 21.0 gr/ 10,300 PSI	
1250 fps 1275 fps 1300 fps 1325 fps							
1 oz	SR 7625	Rem. 209P	Rem. SP 20	21.0 gr/	11,400 PSI	—	—
1 oz	SR 7625	Win. 209	WAA20F1	20.5 gr/	11,600 PSI	—	—
1 oz	800-X	Fed. 209A	Fed. 20S1	19.0 gr/	11,500 PSI	—	—
1 oz	800-X	Fed. 209A	Rem. SP 20	18.5 gr/	11,600 PSI	—	—
1 oz	800-X	Fed. 209A	WAA20F1	—	19.0 gr/ 11,800 PSI	—	—
1 oz	800-X	Rem. 209P	Fed. 20S1	—	20.0 gr/ 11,100 PSI	—	—
1 oz	800-X	Rem. 209P	Rem. SP 20	—	—	—	21.0 gr/ 11,400 PSI
1 oz	800-X	Rem. 209P	WAA20F1	—	—	—	21.0 gr/ 11,600 PSI
1 oz	800-X	Win. 209	Fed. 20S1	—	19.5 gr/ 11,600 PSI	—	—
1 oz	800-X	Win. 209	Rem. SP 20	—	—	20.0 gr/ 11,700 PSI	—
1 oz	800-X	Win. 209	WAA20F1	—	—	19.5 gr/ 11,500 PSI	—
20 GA., 2 3/4", REMINGTON RXP, PREMIER AND STS PLASTIC SHELLS							
1150 fps 1200 fps 1250 fps							
3/4 oz	Internat'l	CCI 209M	PC20	12.2 gr/	9,400 PSI	13.0 gr/ 10,800 PSI	—
3/4 oz	Internat'l	CCI 209M	WAA20	12.0 gr/	9,200 PSI	13.1 gr/ 10,700 PSI	—
3/4 oz	Internat'l	Rem. 209P	PC20	12.5 gr/	8,400 PSI	13.7 gr/ 9,500 PSI	—
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	PC20	12.5 gr/	9,000 PSI	13.2 gr/ 10,200 PSI	14.2 gr/ 11,800 PSI
3/4 oz	Internat'l	Win. 209	WAA20	12.0 gr/	9,000 PSI	13.2 gr/ 10,400 PSI	—
1100 fps 1150 fps							
7/8 oz Lt.	Internat'l	Ched. 209	Rem. RXP20	12.9 gr/	10,200 PSI	13.1 gr/ 10,500 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	Ched. 209	DRV-20	15.0 gr/	9,300 PSI	15.4 gr/ 9,700 PSI	—
7/8 oz Lt.	Universal	Ched. 209	Rem. RXP20	15.0 gr/	8,900 PSI	15.5 gr/ 9,500 PSI	—
7/8 oz Lt.	Universal	Ched. 209	WAA20	14.5 gr/	9,700 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/	10,100 PSI	—	—
7/8 oz Lt.	PB	Ched. 209	DRV-20	14.5 gr/	10,300 PSI	15.0 gr/ 11,100 PSI	—

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*		
20 GA., 2 3/4", REMINGTON RXP, PREMIER AND STS PLASTIC SHELLS (CONT.)						
				1100 fps		1150 fps
7/8 oz Lt.	PB	Ched. 209	Rem. RXP20	14.4 gr/ 9,300 PSI	15.0 gr/ 10,100 PSI	
7/8 oz Lt.	PB	Rem. 209P	DRV-20	14.4 gr/ 9,700 PSI	15.0 gr/ 10,700 PSI	
7/8 oz Lt.	PB	Rem. 209P	Rem. RXP20	14.5 gr/ 9,300 PSI	15.0 gr/ 9,900 PSI	
7/8 oz Lt.	PB	Win. 209	DRV-20	14.5 gr/ 10,200 PSI	15.0 gr/ 10,800 PSI	
7/8 oz Lt.	PB	Win. 209	Rem. RXP20	14.5 gr/ 9,200 PSI	15.0 gr/ 10,100 PSI	
7/8 oz Lt.	Super Hcp	Ched. 209	WAA20	12.4 gr/ 10,700 PSI	12.9 gr/ 11,500 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	
				1200 fps		1225 fps
7/8 oz	Internat'l	Rem. 209P	RXP20	14.0 gr/ 10,700 PSI	—	
7/8 oz	Internat'l	Win. 209	PC20	14.0 gr/ 11,000 PSI	—	
7/8 oz	Internat'l	Win. 209	WAA20	14.0 gr/ 11,900 PSI	—	
7/8 oz	Universal	Fed. 209A	Fed. 20S1	15.0 gr/ 11,900 PSI	—	
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	Fed. 209A	WAA20F1	15.0 gr/ 11,200 PSI	15.5 gr/ 12,000 PSI	
7/8 oz	Universal	Rem. 209P	Fed. 20S1	16.0 gr/ 10,700 PSI	16.2 gr/ 11,100 PSI	16.5 gr/ 11,400 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	Rem. 209P	Windjammer	16.0 gr/ 10,600 PSI	16.5 gr/ 11,200 PSI	
7/8 oz	Universal	Win. 209	Fed. 20S1	15.5 gr/ 10,800 PSI	16.0 gr/ 11,500 PSI	
7/8 oz	Universal	Win. 209	Rem. RXP 20	16.0 gr/ 10,400 PSI	16.7 gr/ 11,400 PSI	
7/8 oz	Universal	Win. 209	Windjammer	16.0 gr/ 10,800 PSI	16.5 gr/ 11,500 PSI	
				1250 fps		1300 fps
7/8 oz	Longshot	CCI209M	Fed. 20S1	16.9 gr/ 10,400 PSI	18.0 gr/ 11,600 PSI	
7/8 oz	Longshot	CCI209M	PC20	17.7 gr/ 9,500 PSI	18.4 gr/ 10,600 PSI	19.6 gr/ 12,000 PSI
7/8 oz	Longshot	CCI209M	Rem. RXP20	17.7 gr/ 9,500 PSI	18.7 gr/ 10,800 PSI	19.6 gr/ 12,000 PSI
7/8 oz	Longshot	CCI209M	WAA20	17.0 gr/ 10,700 PSI	18.1 gr/ 11,700 PSI	
7/8 oz	Longshot	CCI209M	Windjammer	17.3 gr/ 10,000 PSI	18.1 gr/ 11,300 PSI	
7/8 oz	Longshot	Fed. 209A	Fed. 20S1	17.5 gr/ 10,800 PSI	18.3 gr/ 12,000 PSI	
7/8 oz	Longshot	Fed. 209A	PC20	17.6 gr/ 10,200 PSI	18.6 gr/ 11,200 PSI	
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	Fed. 209A	Windjammer	17.2 gr/ 10,400 PSI	18.5 gr/ 11,900 PSI	
7/8 oz	Longshot	Rem. 209P	Fed. 20S1	17.5 gr/ 10,200 PSI	18.4 gr/ 11,600 PSI	
7/8 oz	Longshot	Rem. 209P	PC20	17.7 gr/ 9,500 PSI	18.8 gr/ 10,700 PSI	19.9 gr/ 11,900 PSI
				1250 fps		1300 fps
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	Rem. 209P	Windjammer	17.8 gr/ 10,100 PSI	18.9 gr/ 11,200 PSI	
7/8 oz	Longshot	Win. 209	PC20	18.8 gr/ 8,700 PSI	19.8 gr/ 10,100 PSI	20.7 gr/ 11,300 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	
7/8 oz	Longshot	Win. 209	Windjammer	18.4 gr/ 9,000 PSI	19.4 gr/ 10,500 PSI	20.3 gr/ 12,000 PSI
7/8 oz	Longshot	Win. 209	Fed. 20S1	18.1 gr/ 10,000 PSI	19.1 gr/ 11,100 PSI	

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*		
20 GA., 2 3/4", REMINGTON RXP, PREMIER AND STS PLASTIC SHELLS (CONT.)						
				1200 fps		
7/8 oz	PB	Fed. 209A	Rem. RXP 20	16.0 gr/ 11,600 PSI		
7/8 oz	PB	Fed. 209A	WAA20F1	16.0 gr/ 11,900 PSI		
7/8 oz	PB	Fed. 209A	Windjammer	15.5 gr/ 11,900 PSI		
7/8 oz	PB	Rem. 209P	CB 1078-20	16.0 gr/ 11,800 PSI		
7/8 oz	PB	Rem. 209P	Fed. 20S1	15.5 gr/ 11,800 PSI		
7/8 oz	PB	Rem. 209P	Rem. RXP20	16.0 gr/ 11,000 PSI		
7/8 oz	PB	Rem. 209P	WAA20F1	16.0 gr/ 11,400 PSI		
7/8 oz	PB	Rem. 209P	Windjammer	16.0 gr/ 11,700 PSI		
7/8 oz	PB	Win. 209	Rem. RXP20	16.0 gr/ 11,100 PSI		
7/8 oz	PB	Win. 209	WAA20F1	16.0 gr/ 11,100 PSI		
7/8 oz	PB	Win. 209	Windjammer	16.0 gr/ 11,700 PSI		
7/8 oz	SR 7625	Fed. 209A	Fed. 20S1	16.5 gr/ 12,000 PSI		
7/8 oz	SR 7625	Fed. 209A	Rem. RXP 20	17.0 gr/ 11,000 PSI		
7/8 oz	SR 7625	Fed. 209A	WAA20	16.5 gr/ 12,000 PSI		
7/8 oz	SR 7625	Fed. 209A	Windjammer	16.5 gr/ 11,400 PSI		
7/8 oz	SR 7625	Rem. 209P	Fed. 20S1	17.0 gr/ 11,100 PSI		
7/8 oz	SR 7625	Rem. 209P	RXP20	17.0 gr/ 10,100 PSI		
7/8 oz	SR 7625	Rem. 209P	Windjammer	17.0 gr/ 11,000 PSI		
7/8 oz	SR 7625	Rem. 209P	WAA20	17.0 gr/ 11,000 PSI		
7/8 oz	SR 7625	Win. 209	Fed. 20S1	17.0 gr/ 11,800 PSI		
7/8 oz	SR 7625	Win. 209	Rem. RXP20	17.0 gr/ 10,300 PSI		
7/8 oz	SR 7625	Win. 209	WAA20	17.0 gr/ 10,900 PSI		
7/8 oz	SR 7625	Win. 209	Windjammer	17.0 gr/ 10,800 PSI		
7/8 oz	SR 4756	Fed. 209A	Rem. SP 20	17.5 gr/ 10,600 PSI		
7/8 oz	SR 4756	Fed. 209A	WAA20F1	17.5 gr/ 10,200 PSI		
7/8 oz	SR 4756	Rem. 209P	Rem. SP 20	18.5 gr/ 10,200 PSI		
7/8 oz	SR 4756	Rem. 209P	WAA20F1	18.5 gr/ 9,500 PSI		
7/8 oz	SR 4756	Win. 209	Rem. SP 20	18.5 gr/ 10,300 PSI		
7/8 oz	SR 4756	Win. 209	WAA20F1	19.0 gr/ 9,600 PSI		
7/8 oz	800-X	Fed. 209A	Fed. 20S1	16.0 gr/ 10,000 PSI		
7/8 oz	800-X	Fed. 209A	Rem. RXP 20	16.0 gr/ 9,100 PSI		
7/8 oz	800-X	Fed. 209A	WAA20	16.0 gr/ 9,300 PSI		
7/8 oz	800-X	Fed. 209A	Windjammer	16.0 gr/ 9,500 PSI		
7/8 oz	800-X	Rem. 209P	Fed. 20S1	16.0 gr/ 9,600 PSI		
7/8 oz	800-X	Rem. 209P	Rem. RXP 20	16.5 gr/ 9,100 PSI		
7/8 oz	800-X	Rem. 209P	WAA20	16.5 gr/ 9,100 PSI		
7/8 oz	800-X	Rem. 209P	Windjammer	16.5 gr/ 9,500 PSI		
7/8 oz	800-X	Win. 209	Fed. 20S1	16.0 gr/ 9,600 PSI		
7/8 oz	800-X	Win. 209	Rem. RXP20	16.5 gr/ 9,500 PSI		
7/8 oz	800-X	Win. 209	WAA20	16.0 gr/ 9,300 PSI		
7/8 oz	800-X	Win. 209	Windjammer	16.0 gr/ 9,500 PSI		
7/8 oz	WSF	CCI 209	Fed. 20S1	17.5 gr/ 11,100 PSI	—	—
7/8 oz	WSF	CCI 209	Rem. RXP20	17.5 gr/ 9,700 PSI	—	—
7/8 oz	WSF	CCI 209	WAA20	17.0 gr/ 10,500 PSI	—	—

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*		
20 GA., 2 3/4", REMINGTON RXP, PREMIER AND STS PLASTIC SHELLS (CONT.)						
1200 fps						
7/8 oz	WSF	Win. 209	Fed. 20S1	17.0 gr / 11,300 PSI	—	—
7/8 oz	WSF	Win. 209	Rem. RXP20	17.5 gr / 10,600 PSI	—	—
7/8 oz	WSF	Win. 209	WAA20	17.0 gr / 10,500 PSI	—	—
1165 fps 1220 fps						
1 oz	HS-6	CCI 209	Rem. SP 20	20.5 gr / 11,500 PSI	—	—
1 oz	HS-6	CCI 209	WAA20F1	20.5 gr / 11,900 PSI	—	—
1 oz	HS-6	CCI 209	Windjammer	19.6 gr / 11,200 PSI	—	—
1 oz	HS-6	CCI 209M	Fed. 20S1	19.5 gr / 11,600 PSI	—	—
1 oz	HS-6	CCI 209M	WAA20F1	19.7 gr / 11,300 PSI	—	—
1 oz	HS-6	Fed. 209A	Rem. SP 20	19.5 gr / 11,400 PSI	—	—
1 oz	HS-6	Fed. 209A	WAA20F1	19.5 gr / 11,100 PSI	—	—
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	Rem. 209P	Windjammer	20.8 gr / 10,900 PSI	—	—
1 oz	HS-6	Win. 209	Fed. 20S1	19.7 gr / 11,500 PSI	—	—
1 oz	HS-6	Win. 209	Rem. SP 20	20.0 gr / 11,200 PSI	—	—
1 oz	HS-6	Win. 209	WAA20F1	20.3 gr / 11,200 PSI	—	—
1 oz	HS-6	Win. 209	Windjammer	20.0 gr / 11,200 PSI	—	—
1 oz	Longshot	CCI 209M	Rem. SP20	16.5 gr / 11,700 PSI	—	—
1 oz	Longshot	CCI 209M	WAA20F1	16.5 gr / 11,000 PSI	—	—
1 oz	Longshot	Fed. 209A	WAA20F1	15.9 gr / 11,200 PSI	16.5 gr / 12,000 PSI	—
1 oz	Longshot	Rem. 209P	Rem. SP20	16.0 gr / 11,100 PSI	—	—
1 oz	Longshot	Rem. 209P	WAA20F1	15.9 gr / 10,900 PSI	17.3 gr / 12,000 PSI	—
1 oz	Longshot	Win. 209	Rem. SP20	16.0 gr / 10,400 PSI	17.8 gr / 12,000 PSI	—
1 oz	Longshot	Win. 209	WAA20F1	16.3 gr / 9,900 PSI	18.0 gr / 12,000 PSI	—
1150 fps 1175 fps 1200 fps						
1 oz	SR 4756	Rem. 209P	Rem. SP 20	—	—	19.5 gr / 11,500 PSI
1 oz	SR 4756	Win. 209	Rem. SP 20	18.5 gr / 11,700 PSI	—	—
1 oz	800-X	Fed. 209A	Rem. SP 20	—	16.0 gr / 11,800 PSI	—
1 oz	800-X	Fed. 209A	WAA20F1	15.5 gr / 11,800 PSI	—	—
1 oz	800-X	Rem. 209P	Fed. 20S1	16.0 gr / 11,200 PSI	—	—
1 oz	800-X	Rem. 209P	Rem. SP 20	—	—	17.5 gr / 11,900 PSI
1 oz	800-X	Rem. 209P	WAA20F1	—	—	17.0 gr / 11,700 PSI
1 oz	800-X	Win. 209	Fed. 20S1	16.0 gr / 11,700 PSI	—	—
1 oz	800-X	Win. 209	Rem. RXP 20	—	—	17.0 gr / 11,800 PSI
1 oz	800-X	Win. 209	WAA20F1	—	—	16.5 gr / 11,800 PSI
20 GA., 2 3/4", WINCHESTER COMPRESSION-FORMED AA TYPE SHELLS						
1150 fps 1200 fps 1250 fps						
3/4 oz	Internat'l	CCI 209M	PC20	12.3 gr / 10,200 PSI	13.1 gr / 11,900 PSI	—
3/4 oz	Internat'l	CCI 209M	WAA20	12.1 gr / 10,100 PSI	12.7 gr / 11,500 PSI	—
3/4 oz	Internat'l	Rem. 209P	PC20	12.5 gr / 9,000 PSI	14.0 gr / 10,900 PSI	—
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	PC20	12.2 gr / 10,400 PSI	13.0 gr / 11,300 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*	
20 GA., 2 3/4", WINCHESTER COMPRESSION-FORMED AA TYPE SHELLS (CONT.)					
1100 fps 1150 fps					
7/8 oz Lt.	Universal	Ched. 209	DRV-20	14.5 gr / 10,100 PSI	15.5 gr / 11,800 PSI
7/8 oz Lt.	Universal	Ched. 209	Rem. RXP20	15.0 gr / 9,800 PSI	15.5 gr / 10,400 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.	PB	Ched. 209	DRV-20	14.1 gr / 10,800 PSI	14.7 gr / 11,600 PSI
7/8 oz Lt.	PB	Ched. 209	Rem. RXP20	14.0 gr / 10,800 PSI	14.8 gr / 10,800 PSI
7/8 oz Lt.	PB	Rem. 209P	DRV-20	14.2 gr / 10,500 PSI	14.8 gr / 11,600 PSI
7/8 oz Lt.	PB	Rem. 209P	Rem. RXP20	14.3 gr / 9,400 PSI	14.8 gr / 10,300 PSI
7/8 oz Lt.	PB	Win. 209	DRV-20	14.2 gr / 10,900 PSI	14.8 gr / 11,600 PSI
7/8 oz Lt.	PB	Win. 209	Rem. RXP20	14.5 gr / 9,700 PSI	15.0 gr / 10,700 PSI
7/8 oz Lt.	Super Hcp	Ched. 209	WAA20	12.3 gr / 11,000 PSI	—
7/8 oz Lt.	Super Hcp	Rem. 209P	WAA20	12.3 gr / 11,000 PSI	12.9 gr / 11,900 PSI
7/8 oz Lt.	Super Hcp	Win. 209	WAA20	12.4 gr / 11,000 PSI	12.9 gr / 11,800 PSI
1200 fps					
7/8 oz	Internat'l	Rem. 209P	Rem. RXP20	14.0 gr / 10,800 PSI	—
7/8 oz	Internat'l	Win. 209	PC20	14.0 gr / 11,200 PSI	—
7/8 oz	Internat'l	Win. 209	WAA20	14.0 gr / 11,800 PSI	—
7/8 oz	Universal	CCI 209SC	Fed. 20S1	14.6 gr / 11,800 PSI	—
7/8 oz	Universal	CCI 209SC	PC20	15.5 gr / 11,600 PSI	—
7/8 oz	Universal	CCI 209SC	Rem. RXP20	15.3 gr / 11,100 PSI	—
7/8 oz	Universal	CCI 209SC	WAA20F1	15.1 gr / 11,600 PSI	—
7/8 oz	Universal	CCI 209SC	Windjammer	15.5 gr / 11,900 PSI	—
7/8 oz	Universal	Fed. 209A	Fed. 20S1	14.3 gr / 12,000 PSI	—
7/8 oz	Universal	Fed. 209A	PC20	14.7 gr / 11,900 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	Fed. 209A	Windjammer	15.8 gr / 11,700 PSI	—
7/8 oz	Universal	Rem. 209P	Fed. 20S1	15.3 gr / 11,500 PSI	—
7/8 oz	Universal	Rem. 209P	PC20	15.5 gr / 11,100 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	Rem. 209P	Windjammer	16.0 gr / 11,700 PSI	—
7/8 oz	Universal	Win. 209	Fed. 20S1	14.7 gr / 12,000 PSI	—
7/8 oz	Universal	Win. 209	Rem. RXP20	15.0 gr / 11,000 PSI	—
7/8 oz	Universal	Win. 209	Windjammer	15.0 gr / 11,800 PSI	—
7/8 oz	Universal	Win. 209	WAA20	15.5 gr / 10,200 PSI	—
1250 fps 1300 fps 1350 fps					
7/8 oz	Longshot	CCI209M	Fed. 20S1	17.3 gr / 11,000 PSI	—
7/8 oz	Longshot	CCI209M	PC20	17.4 gr / 11,000 PSI	18.5 gr / 11,800 PSI
7/8 oz	Longshot	CCI209M	Rem.RXP20	17.7 gr / 9,800 PSI	18.5 gr / 11,200 PSI
7/8 oz	Longshot	CCI209M	WAA20	17.2 gr / 10,900 PSI	18.0 gr / 11,900 PSI
7/8 oz	Longshot	CCI209M	Windjammer	17.6 gr / 10,700 PSI	18.4 gr / 12,000 PSI

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*		
20 GA., 2 3/4", WINCHESTER COMPRESSION-FORMED AA TYPE SHELLS (CONT.)						
				1250 fps	1300 fps	1350 fps
7/8 oz	Longshot	Fed. 209A	Fed. 20S1	17.5 gr/ 11,800 PSI	—	—
7/8 oz	Longshot	Fed. 209A	PC20	17.8 gr/ 11,000 PSI	18.4 gr/ 11,900 PSI	—
7/8 oz	Longshot	Fed. 209A	Rem.RXP20	17.8 gr/ 11,400 PSI	18.9 gr/ 12,000 PSI	—
7/8 oz	Longshot	Fed. 209A	WAA20	17.4 gr/ 11,900 PSI	—	—
7/8 oz	Longshot	Fed. 209A	Windjammer	17.4 gr/ 11,200 PSI	18.5 gr/ 12,000 PSI	—
7/8 oz	Longshot	Rem. 209P	Fed. 20S1	17.6 gr/ 10,800 PSI	18.5 gr/ 12,000 PSI	—
7/8 oz	Longshot	Rem. 209P	PC20	17.9 gr/ 10,900 PSI	18.6 gr/ 11,600 PSI	—
7/8 oz	Longshot	Rem. 209P	Rem.RXP20	17.7 gr/ 10,400 PSI	18.7 gr/ 11,400 PSI	—
7/8 oz	Longshot	Rem. 209P	WAA20	17.2 gr/ 11,100 PSI	18.4 gr/ 11,800 PSI	—
7/8 oz	Longshot	Rem. 209P	Windjammer	17.9 gr/ 10,700 PSI	18.5 gr/ 11,900 PSI	—
7/8 oz	Longshot	Win. 209	Fed. 20S1	17.6 gr/ 10,600 PSI	18.6 gr/ 11,400 PSI	—
7/8 oz	Longshot	Win. 209	PC20	18.3 gr/ 9,600 PSI	19.4 gr/ 10,600 PSI	20.5 gr/ 11,600 PSI
7/8 oz	Longshot	Win. 209	Rem.RXP20	18.4 gr/ 9,800 PSI	19.3 gr/ 10,700 PSI	—
7/8 oz	Longshot	Win. 209	WAA20	17.8 gr/ 10,600 PSI	18.6 gr/ 11,700 PSI	—
7/8 oz	Longshot	Win. 209	Windjammer	18.4 gr/ 10,100 PSI	19.1 gr/ 11,000 PSI	20.0 gr/ 12,000 PSI
				1200 fps		
7/8 oz	PB	Fed. 209A	Rem. RXP20	16.0 gr/ 11,900 PSI		
7/8 oz	PB	Fed. 209A	WAA20	15.5 gr/ 11,700 PSI		
7/8 oz	PB	Fed. 209A	Windjammer	15.5 gr/ 11,900 PSI		
7/8 oz	PB	Rem. 209P	Rem. RXP 20	16.0 gr/ 10,900 PSI		
7/8 oz	PB	Rem. 209P	WAA20	16.0 gr/ 11,600 PSI		
7/8 oz	PB	Rem. 209P	Windjammer	16.0 gr/ 11,300 PSI		
7/8 oz	PB	Win. 209	Rem. RXP 20	16.0 gr/ 11,400 PSI		
7/8 oz	PB	Win. 209	WAA20	16.0 gr/ 11,700 PSI		
7/8 oz	PB	Win. 209	Windjammer	16.5 gr/ 11,800 PSI		
7/8 oz	SR 7625	Fed. 209A	Fed. 20S1	16.5 gr/ 11,700 PSI		
7/8 oz	SR 7625	Fed. 209A	Rem. RXP20	17.0 gr/ 10,800 PSI		
7/8 oz	SR 7625	Fed. 209A	WAA20	16.5 gr/ 11,700 PSI		
7/8 oz	SR 7625	Fed. 209A	Windjammer	16.5 gr/ 11,900 PSI		
7/8 oz	SR 7625	Rem. 209P	Fed. 20S1	16.5 gr/ 11,100 PSI		
7/8 oz	SR 7625	Rem. 209P	RXP20	17.0 gr/ 10,100 PSI		
7/8 oz	SR 7625	Rem. 209P	WAA20	17.0 gr/ 10,900 PSI		
7/8 oz	SR 7625	Rem. 209P	Windjammer	17.5 gr/ 10,300 PSI		
7/8 oz	SR 7625	Win. 209	Rem. RXP 20	17.0 gr/ 10,600 PSI		
7/8 oz	SR 7625	Win. 209	WAA20	17.0 gr/ 10,600 PSI		
7/8 oz	SR 7625	Win. 209	Windjammer	17.0 gr/ 10,900 PSI		
7/8 oz	SR 7625	Win. 209	Fed. 20S1	16.5 gr/ 11,700 PSI		
7/8 oz	800-X	Fed. 209A	Fed. 20S1	16.0 gr/ 9,700 PSI		
7/8 oz	800-X	Fed. 209A	Rem. RXP 20	16.5 gr/ 8,800 PSI		
7/8 oz	800-X	Fed. 209A	WAA20	16.5 gr/ 9,400 PSI		
7/8 oz	800-X	Fed. 209A	Windjammer	16.5 gr/ 10,100 PSI		
7/8 oz	800-X	Rem. 209P	Fed. 20S1	16.5 gr/ 8,200 PSI		
7/8 oz	800-X	Rem. 209P	Rem. RXP 20	16.5 gr/ 7,500 PSI		
7/8 oz	800-X	Rem. 209P	WAA20	16.5 gr/ 9,300 PSI		

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
20 GA., 2 3/4", WINCHESTER COMPRESSION-FORMED AA TYPE SHELLS (CONT.)							
				1200 fps			
7/8 oz	800-X	Rem. 209P	Windjammer	16.5 gr/ 8,400 PSI			
7/8 oz	WSF	CCI 209	Fed. 20S1	16.5 gr/ 11,400 PSI			
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			
				1165 fps	1220 fps	1250 fps	
1 oz	HS-6	Rem. 209P	Rem. SP20	19.8 gr/ 11,900 PSI	—	—	
1 oz	HS-6	Rem. 209P	WAA20F1	19.5 gr/ 11,800 PSI	—	—	
1 oz	HS-6	Win. 209	WAA20F1	21.5 gr/ 10,000 LUP	22.5 gr/ 10,900 LUP	—	
1 oz	HS-6	Win. 209	Rem. SP20	23.0 gr/ 10,100 LUP	24.0 gr/ 10,800 LUP	—	
1 oz	Longshot	CCI 209M	Rem. SP20	16.7 gr/ 11,700 PSI	—	—	
1 oz	Longshot	CCI 209M	WAA20F1	15.5 gr/ 11,900 PSI	—	—	
1 oz	Longshot	Fed. 209A	WAA20F1	15.5 gr/ 11,900 PSI	—	—	
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	—	
				1150 fps	1200 fps		
1 oz	800-X	Fed. 209A	Rem. RXP 20	15.0 gr/ 11,700 PSI	—	—	
1 oz	800-X	Fed. 209A	WAA20F1	14.5 gr/ 11,800 PSI	—	—	
1 oz	800-X	Rem. 209P	Rem. RXP20	—	17.0 gr/ 10,800 PSI	—	
1 oz	800-X	Rem. 209P	WAA20F1	—	17.0 gr/ 11,500 PSI	—	
1 oz	800-X	Win. 209	Rem. RXP20	16.0 gr/ 11,600 PSI	—	—	
1 oz	800-X	Win. 209	WAA20F1	15.5 gr/ 11,500 PSI	—	—	
20 GA., 3", FEDERAL PLASTIC SHELLS							
				1175 fps	1230 fps	1285 fps	
1 1/8 oz	Longshot	CCI 209M	Fed. 20S1	19.6 gr/ 9,000 PSI	21.0 gr/ 10,300 PSI	22.4 gr/ 11,500 PSI	
1 1/8 oz	Longshot	CCI 209M	Rem. RXP20	19.4 gr/ 9,000 PSI	21.0 gr/ 10,000 PSI	22.6 gr/ 10,900 PSI	
1 1/8 oz	Longshot	CCI 209M	WAA20	19.2 gr/ 8,300 PSI	20.7 gr/ 10,600 PSI	—	
1 1/8 oz	Longshot	Fed. 209A	Fed. 20S1	19.3 gr/ 9,300 PSI	20.6 gr/ 10,900 PSI	21.9 gr/ 12,000 PSI	
1 1/8 oz	Longshot	Fed. 209A	Rem. RXP20	19.6 gr/ 9,000 PSI	21.1 gr/ 10,600 PSI	22.7 gr/ 11,000 PSI	
1 1/8 oz	Longshot	Fed. 209A	WAA20	19.6 gr/ 9,700 PSI	20.7 gr/ 10,900 PSI	—	
1 1/8 oz	Longshot	Rem. 209P	Fed. 20S1	19.4 gr/ 9,000 PSI	20.3 gr/ 10,300 PSI	22.2 gr/ 11,600 PSI	
1 1/8 oz	Longshot	Rem. 209P	Rem. RXP20	19.5 gr/ 8,600 PSI	21.1 gr/ 9,900 PSI	22.7 gr/ 11,200 PSI	
1 1/8 oz	Longshot	Rem. 209P	WAA20	19.4 gr/ 9,100 PSI	20.3 gr/ 10,400 PSI	22.1 gr/ 11,600 PSI	
1 1/8 oz	Longshot	Win. 209	Fed. 20S1	20.6 gr/ 8,200 PSI	21.7 gr/ 9,500 PSI	22.7 gr/ 10,600 PSI	
1 1/8 oz	Longshot	Win. 209	Rem. RXP20	20.3 gr/ 8,500 PSI	21.7 gr/ 9,600 PSI	23.0 gr/ 10,600 PSI	
1 1/8 oz	Longshot	Win. 209	WAA20	19.6 gr/ 8,800 PSI	21.0 gr/ 10,100 PSI	22.4 gr/ 11,300 PSI	
				1150 fps	1200 fps	1250 fps	1300 fps
1 1/8 oz	SR 4756	Fed. 209A	Fed. 20S1	21.0 gr/ 11,400 PSI	—	—	—
1 1/8 oz	SR 4756	Fed. 209A	Rem. SP 20	—	21.5 gr/ 11,700 PSI	—	—
1 1/8 oz	SR 4756	Fed. 209A	WAA20	20.5 gr/ 11,700 PSI	—	—	—
1 1/8 oz	SR 4756	Rem. 209P	Fed. 20S1	—	—	24.0 gr/ 11,200 PSI	—

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
20 GA., 3", FEDERAL PLASTIC SHELLS (CONT.)							
				1150 fps	1200 fps	1250 fps	1300 fps
1 1/8 oz	SR 4756	Rem. 209P	Rem. SP 20	—	—	24.5 gr / 11,200 PSI	—
1 1/8 oz	SR 4756	Rem. 209P	WAA20	—	—	24.0 gr / 11,000 PSI	—
1 1/8 oz	SR 4756	Win. 209	Fed. 20S1	—	21.5 gr / 11,300 PSI	—	—
1 1/8 oz	SR 4756	Win. 209	Rem. SP 20	—	23.0 gr / 11,500 PSI	—	—
1 1/8 oz	SR 4756	Win. 209	WAA20	—	22.5 gr / 11,700 PSI	—	—
1 1/8 oz	800-X	Fed. 209A	Fed. 20S1	—	19.0 gr / 11,600 PSI	—	—
1 1/8 oz	800-X	Fed. 209A	Rem. RXP20	—	19.5 gr / 11,500 PSI	—	—
1 1/8 oz	800-X	Fed. 209A	WAA20	—	19.5 gr / 11,500 PSI	—	—
1 1/8 oz	800-X	Rem. 209P	Fed. 20S1	—	—	—	22.0 gr / 11,700 PSI
1 1/8 oz	800-X	Rem. 209P	Rem. SP20	—	—	21.0 gr / 11,600 PSI	—
1 1/8 oz	800-X	Rem. 209P	WAA20	—	—	—	22.0 gr / 11,400 PSI
1 1/8 oz	800-X	Win. 209	Fed. 20S1	—	19.5 gr / 11,600 PSI	—	—
1 1/8 oz	800-X	Win. 209	Rem. SP 20	—	19.5 gr / 11,500 PSI	—	—
1 1/8 oz	800-X	Win. 209	WAA20	—	19.0 gr / 11,400 PSI	—	—
				1185 fps	1240 fps		
1 1/4 oz	Longshot	CCI 209M	Fed. 20S1	20.2 gr / 11,300 PSI	—		
1 1/4 oz	Longshot	CCI 209M	Rem. RXP20	21.0 gr / 11,000 PSI	—		
1 1/4 oz	Longshot	CCI 209M	WAA20F1	20.3 gr / 11,400 PSI	—		
1 1/4 oz	Longshot	Fed. 209A	Fed. 20S1	20.2 gr / 11,700 PSI	—		
1 1/4 oz	Longshot	Fed. 209A	Rem. RXP20	20.9 gr / 11,300 PSI	—		
1 1/4 oz	Longshot	Fed. 209A	WAA20F1	20.2 gr / 11,500 PSI	—		
1 1/4 oz	Longshot	Rem. 209P	Fed. 20S1	20.5 gr / 11,600 PSI	—		
1 1/4 oz	Longshot	Rem. 209P	Rem. RXP20	21.5 gr / 10,400 PSI	—		
1 1/4 oz	Longshot	Rem. 209P	WAA20F1	19.9 gr / 11,200 PSI	—		
1 1/4 oz	Longshot	Win. 209	Fed. 20S1	20.4 gr / 10,300 PSI	—		
1 1/4 oz	Longshot	Win. 209	Rem. RXP20	21.3 gr / 10,600 PSI	—		
1 1/4 oz	Longshot	Win. 209	WAA20F1	21.2 gr / 10,300 PSI	22.2 gr / 11,500 PSI		
				1100 fps	1125 fps	1150 fps	1175 fps
1 1/4 oz	800-X	Fed. 209A	Rem. SP 20	17.5 gr / 11,500 PSI	—	—	—
1 1/4 oz	800-X	Fed. 209A	WAA20F1	—	18.0 gr / 11,700 PSI	—	—
1 1/4 oz	800-X	Rem. 209P	Rem. SP 20	—	—	19.5 gr / 11,400 PSI	—
1 1/4 oz	800-X	Rem. 209P	WAA20F1	—	—	—	20.0 gr / 11,000 PSI
1 1/4 oz	800-X	Win. 209	Rem. SP 20	18.0 gr / 11,400 PSI	—	—	—
1 1/4 oz	800-X	Win. 209	WAA20F1	—	18.5 gr / 11,400 PSI	—	—
20 GA., 3", REMINGTON PREMIER PLASTIC SHELLS							
				1175 fps	1230 fps		
1 1/8 oz	Longshot	CCI 209M	PC20	17.6 gr / 11,400 PSI	—		
1 1/8 oz	Longshot	CCI 209M	Rem. RXP20	17.7 gr / 11,500 PSI	—		
1 1/8 oz	Longshot	Rem. 209P	PC20	17.6 gr / 10,900 PSI	—		
1 1/8 oz	Longshot	Rem. 209P	Rem. RXP20	17.7 gr / 11,500 PSI	—		
1 1/8 oz	Longshot	Rem. 209P	WAA20	17.6 gr / 12,000 PSI	—		
1 1/8 oz	Longshot	Win. 209	Fed. 20S1	18.2 gr / 10,800 PSI	—		
1 1/8 oz	Longshot	Win. 209	PC20	18.3 gr / 10,500 PSI	19.3 gr / 12,000 PSI		
1 1/8 oz	Longshot	Win. 209	Rem. RXP20	17.7 gr / 10,200 PSI	—		

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
20 GA., 3", REMINGTON PREMIER PLASTIC SHELLS (CONT.)							
				1175 fps	1230 fps		
1 1/8 oz	Longshot	Win. 209	WAA20	18.1 gr / 11,400 PSI	—		
				1100 fps	1150 fps		
1 1/8 oz	800-X	Fed. 209A	Fed. 20S1	15.5 gr / 11,600 PSI	—		
1 1/8 oz	800-X	Fed. 209A	Rem. SP 20	15.5 gr / 11,800 PSI	—		
1 1/8 oz	800-X	Fed. 209A	WAA20	15.5 gr / 11,600 PSI	—		
1 1/8 oz	800-X	Rem. 209P	Fed. 20S1	—	17.0 gr / 11,600 PSI		
1 1/8 oz	800-X	Rem. 209P	Rem. SP 20	—	17.0 gr / 11,700 PSI		
1 1/8 oz	800-X	Rem. 209P	WAA20	16.0 gr / 11,100 PSI	—		
1 1/8 oz	800-X	Win. 209	Fed. 20S1	16.5 gr / 11,500 PSI	—		
1 1/8 oz	800-X	Win. 209	Rem. SP 20	16.0 gr / 11,600 PSI	—		
1 1/8 oz	800-X	Win. 209	WAA20	16.0 gr / 11,600 PSI	—		
				28 GA., 2 3/4", CHEDDITE PLASTIC SHELLS			
				1200 fps	1225 fps	1250 fps	
3/4 oz	Universal	Ched. 209	Fed. 28S1	14.5 gr / 11,000 PSI	14.9 gr / 11,800 PSI	—	
3/4 oz	Universal	Ched. 209	Rem. PT28	14.5 gr / 10,700 PSI	15.2 gr / 11,700 PSI	15.4 gr / 12,300 PSI	
3/4 oz	Universal	Fio. 616	Fed. 28S1	14.2 gr / 11,300 PSI	14.4 gr / 12,400 PSI	—	
3/4 oz	Universal	Fio. 616	Rem. PT28	14.2 gr / 11,400 PSI	14.5 gr / 12,400 PSI	—	
				1225 fps	1250 fps	1275 fps	1300 fps
3/4 oz	Longshot	Ched. 209	Fed. 28S1	15.2 gr / 10,300 PSI	15.6 gr / 10,800 PSI	16.0 gr / 11,300 PSI	16.4 gr / 11,800 PSI
3/4 oz	Longshot	Ched. 209	Rem. PT28	14.9 gr / 9,600 PSI	15.5 gr / 10,100 PSI	16.0 gr / 10,600 PSI	16.6 gr / 11,100 PSI
3/4 oz	Longshot	Fio. 616	Fed. 28S1	15.0 gr / 10,300 PSI	15.5 gr / 10,900 PSI	15.9 gr / 11,400 PSI	16.4 gr / 12,100 PSI
3/4 oz	Longshot	Fio. 616	Rem. PT28	15.1 gr / 9,400 PSI	15.6 gr / 10,000 PSI	16.1 gr / 10,500 PSI	16.6 gr / 11,100 PSI
				1200 fps	1225 fps	1250 fps	1275 fps
13/16 oz	Universal	Ched. 209	Fed. 28S1	14.5 gr / 12,400 PSI			
13/16 oz	Universal	Ched. 209	Rem. PT28	14.7 gr / 12,500 PSI			
13/16 oz	Longshot	Ched. 209	Fed. 28S1	15.2 gr / 10,800 PSI	15.6 gr / 11,400 PSI	16.0 gr / 12,100 PSI	—
13/16 oz	Longshot	Ched. 209	Rem. PT28	15.2 gr / 10,000 PSI	15.7 gr / 10,500 PSI	16.2 gr / 11,000 PSI	16.7 gr / 11,600 PSI
13/16 oz	Longshot	Fio. 616	Fed. 28S1	15.0 gr / 10,900 PSI	15.5 gr / 11,700 PSI	16.0 gr / 12,500 PSI	—
13/16 oz	Longshot	Fio. 616	Rem. PT28	14.9 gr / 10,300 PSI	15.4 gr / 10,400 PSI	15.8 gr / 11,400 PSI	16.3 gr / 12,000 PSI
				28 GA., 2 3/4", FEDERAL PLASTIC TARGET SHELLS			
				1200 fps	1225 fps	1250 fps	
3/4 oz	Universal	Fed. 209A	Rem. PT28	14.2 gr / 11,400 PSI	—	—	
3/4 oz	Universal	Win. 209	Fed. 28S1	14.5 gr / 10,700 PSI	15.0 gr / 11,500 PSI	15.5 gr / 12,400 PSI	
3/4 oz	Universal	Win. 209	PC28	14.8 gr / 10,700 PSI	15.2 gr / 11,300 PSI	15.6 gr / 11,900 PSI	
3/4 oz	Universal	Win. 209	Rem. PT28	14.5 gr / 10,200 PSI	15.2 gr / 10,900 PSI	15.8 gr / 11,700 PSI	
				1225 fps	1250 fps	1275 fps	1300 fps
3/4 oz	Longshot	CCI209M	Fed. 28S1	15.3 gr / 10,000 PSI	15.8 gr / 10,600 PSI	16.3 gr / 11,200 PSI	16.8 gr / 11,800 PSI
3/4 oz	Longshot	CCI209M	Rem. PT28	15.5 gr / 9,900 PSI	15.9 gr / 10,600 PSI	16.3 gr / 11,200 PSI	16.6 gr / 11,700 PSI
3/4 oz	Longshot	Fed. 209A	Fed. 28S1	15.2 gr / 11,000 PSI	15.6 gr / 11,600 PSI	15.9 gr / 12,000 PSI	—
3/4 oz	Longshot	Fed. 209A	Rem. PT28	15.3 gr / 10,400 PSI	15.8 gr / 11,000 PSI	16.2 gr / 11,400 PSI	16.7 gr / 12,000 PSI
3/4 oz	Longshot	Rem. 209P	Fed. 28S1	15.1 gr / 10,500 PSI	15.6 gr / 11,100 PSI	16.0 gr / 11,500 PSI	16.5 gr / 12,000 PSI
3/4 oz	Longshot	Rem. 209P	Rem. PT28	15.1 gr / 9,800 PSI	15.6 gr / 10,400 PSI	16.1 gr / 11,100 PSI	16.6 gr / 11,800 PSI
3/4 oz	Longshot	Win. 209	Fed. 28S1	15.7 gr / 10,200 PSI	16.1 gr / 10,800 PSI	16.5 gr / 11,400 PSI	16.9 gr / 11,900 PSI

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
28 GA., 2 3/4", FEDERAL PLASTIC TARGET SHELLS (CONT.)							
				1225 fps	1250 fps	1275 fps	1300 fps
3/4 oz	Longshot	Win. 209	Rem. PT28	15.8 gr / 9,600 PSI	16.2 gr / 10,000 PSI	16.6 gr / 10,400 PSI	17.0 gr / 10,800 PSI
				1150 fps	1200 fps		
3/4 oz	PB	Fed. 209A	Rem. PT28	13.0 gr / 12,300 PSI	—		
3/4 oz	PB	Fed. 209A	WAA28	13.0 gr / 12,400 PSI	—		
3/4 oz	PB	Rem. 209P	Fed. 28S1	—	14.0 gr / 12,200 PSI		
3/4 oz	PB	Rem. 209P	PC 28	—	14.5 gr / 11,500 PSI		
3/4 oz	PB	Rem. 209P	Rem. PT28	—	14.5 gr / 11,700 PSI		
3/4 oz	PB	Rem. 209P	WAA28	—	14.5 gr / 11,400 PSI		
3/4 oz	PB	Win. 209	Fed. 28S1	—	14.0 gr / 12,500 PSI		
3/4 oz	PB	Win. 209	PC 28	—	14.5 gr / 12,000 PSI		
3/4 oz	PB	Win. 209	Rem. PT28	—	14.5 gr / 12,100 PSI		
3/4 oz	PB	Win. 209	WAA28	—	14.5 gr / 11,900 PSI		
3/4 oz	SR 7625	Fed. 209A	Fed. 28S1	—	14.0 gr / 12,000 PSI		
3/4 oz	SR 7625	Fed. 209A	PC28	—	14.0 gr / 11,900 PSI		
3/4 oz	SR 7625	Fed. 209A	Rem. PT28	—	15.5 gr / 11,800 PSI		
3/4 oz	SR 7625	Fed. 209A	WAA28	—	14.5 gr / 12,300 PSI		
3/4 oz	SR 7625	Rem. 209P	Fed. 28S1	—	14.5 gr / 10,800 PSI		
3/4 oz	SR 7625	Rem. 209P	PC28	—	15.0 gr / 10,100 PSI		
3/4 oz	SR 7625	Rem. 209P	Rem. PT28	—	15.0 gr / 10,200 PSI		
3/4 oz	SR 7625	Rem. 209P	WAA28	—	14.5 gr / 10,500 PSI		
3/4 oz	SR 7625	Win. 209	Fed. 28S1	—	15.0 gr / 11,200 PSI		
3/4 oz	SR 7625	Win. 209	PC28	—	15.0 gr / 10,900 PSI		
3/4 oz	SR 7625	Win. 209	Rem. PT28	—	15.0 gr / 11,100 PSI		
3/4 oz	SR 7625	Win. 209	WAA28	—	14.5 gr / 10,800 PSI		
3/4 oz	SR 4756	Fed. 209A	Fed. 28S1	—	15.5 gr / 11,900 PSI		
3/4 oz	SR 4756	Fed. 209A	PC 28	—	15.5 gr / 11,400 PSI		
3/4 oz	SR 4756	Fed. 209A	Rem. PT28	—	15.5 gr / 11,400 PSI		
3/4 oz	SR 4756	Rem. 209P	Fed. 28S1	—	16.5 gr / 9,800 PSI		
3/4 oz	SR 4756	Rem. 209P	PC 28	—	16.0 gr / 9,600 PSI		
3/4 oz	SR 4756	Rem. 209P	Rem. PT28	17.0 gr / 10,300 PSI	—		
3/4 oz	SR 4756	Win. 209	Fed. 28S1	—	16.0 gr / 10,600 PSI		
3/4 oz	SR 4756	Win. 209	PC 28	—	16.0 gr / 10,300 PSI		
3/4 oz	SR 4756	Win. 209	Rem. PT28	—	16.0 gr / 10,500 PSI		
3/4 oz	800-X	Fed. 209A	Fed. 28S1	—	13.5 gr / 11,000 PSI		
3/4 oz	800-X	Fed. 209A	PC28	—	13.5 gr / 10,600 PSI		
3/4 oz	800-X	Fed. 209A	Rem. PT28	—	13.5 gr / 10,700 PSI		
3/4 oz	800-X	Fed. 209A	WAA28	—	13.5 gr / 10,100 PSI		
3/4 oz	800-X	Rem. 209P	Fed. 28S1	—	14.0 gr / 10,400 PSI		
3/4 oz	800-X	Rem. 209P	PC28	—	14.0 gr / 9,600 PSI		
3/4 oz	800-X	Rem. 209P	Rem. PT28	—	14.0 gr / 9,900 PSI		
3/4 oz	800-X	Rem. 209P	WAA28	—	14.5 gr / 9,500 PSI		
3/4 oz	800-X	Win. 209	Fed. 28S1	—	13.5 gr / 10,500 PSI		
3/4 oz	800-X	Win. 209	PC 28	—	13.5 gr / 9,900 PSI		
3/4 oz	800-X	Win. 209	Rem. PT28	—	13.5 gr / 10,100 PSI		

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
28 GA., 2 3/4", FEDERAL PLASTIC TARGET SHELLS (CONT.)							
				1150 fps	1200 fps		
3/4 oz	800-X	Win. 209	WAA28	—	14.0 gr / 10,000 PSI		
				1200 fps	1225 fps	1250 fps	
13/16 oz	Universal	Win. 209	Fed. 28S1	14.9 gr / 12,300 PSI	—	—	
13/16 oz	Universal	Win. 209	PC28	14.9 gr / 12,000 PSI	—	—	
13/16 oz	Universal	Win. 209	Rem. PT28	14.9 gr / 11,600 PSI	—	—	
13/16 oz	Longshot	CCI209M	Fed. 28S1	15.5 gr / 11,400 PSI	—	—	
13/16 oz	Longshot	CCI209M	Rem. PT28	15.3 gr / 10,600 PSI	15.8 gr / 11,300 PSI	16.5 gr / 12,000 PSI	
13/16 oz	Longshot	Fed. 209A	Fed. 28S1	14.9 gr / 11,900 PSI	15.4 gr / 12,500 PSI	—	
13/16 oz	Longshot	Fed. 209A	Rem. PT28	15.2 gr / 10,900 PSI	15.6 gr / 11,500 PSI	16.0 gr / 12,200 PSI	
13/16 oz	Longshot	Rem. 209P	Fed. 28S1	14.7 gr / 11,800 PSI	15.0 gr / 12,200 PSI	—	
13/16 oz	Longshot	Rem. 209P	Rem. PT28	15.5 gr / 11,000 PSI	15.9 gr / 11,400 PSI	16.3 gr / 11,800 PSI	
13/16 oz	Longshot	Win. 209	Fed. 28S1	15.2 gr / 11,000 PSI	15.5 gr / 12,300 PSI	—	
13/16 oz	Longshot	Win. 209	Rem. PT28	15.7 gr / 10,200 PSI	16.1 gr / 10,900 PSI	16.5 gr / 11,500 PSI	
28 GA., 2 3/4", FIOCCHI PLASTIC TARGET SHELLS							
				1200 fps	1225 fps	1250 fps	
3/4 oz	Universal	Fio. 616	Fed. 28S1	14.3 gr / 11,200 PSI	14.6 gr / 11,800 PSI	15.0 gr / 12,300 PSI	
3/4 oz	Universal	Fio. 616	PC28	14.2 gr / 10,900 PSI	14.8 gr / 11,300 PSI	15.2 gr / 11,800 PSI	
3/4 oz	Universal	Fio. 616	Rem. PT28	14.2 gr / 10,600 PSI	14.8 gr / 11,000 PSI	15.1 gr / 11,900 PSI	
				1225 fps	1250 fps	1275 fps	1300 fps
3/4 oz	Longshot	Ched. 209	Fed. 28S1	14.9 gr / 10,200 PSI	15.4 gr / 10,900 PSI	15.9 gr / 11,600 PSI	16.5 gr / 12,300 PSI
3/4 oz	Longshot	Ched. 209	Rem. PT28	15.1 gr / 9,800 PSI	15.6 gr / 10,400 PSI	16.1 gr / 10,900 PSI	16.5 gr / 11,400 PSI
3/4 oz	Longshot	Fio. 616	Fed. 28S1	15.1 gr / 10,700 PSI	15.5 gr / 11,300 PSI	15.9 gr / 11,800 PSI	16.2 gr / 12,300 PSI
3/4 oz	Longshot	Fio. 616	Rem. PT28	15.2 gr / 10,000 PSI	15.6 gr / 10,400 PSI	16.1 gr / 11,000 PSI	16.6 gr / 11,500 PSI
13/16 oz	Universal	Fio. 616	Fed. 28S1	14.5 gr / 12,400 PSI	—	—	—
13/16 oz	Universal	Fio. 616	PC28	14.5 gr / 12,100 PSI	—	—	—
13/16 oz	Universal	Fio. 616	Rem. PT28	15.0 gr / 11,900 PSI	—	—	—
				1200 fps	1225 fps	1250 fps	1275 fps
13/16 oz	Longshot	Ched. 209	Fed. 28S1	14.7 gr / 11,300 PSI	15.2 gr / 11,900 PSI	15.7 gr / 12,500 PSI	—
13/16 oz	Longshot	Ched. 209	Rem. PT28	15.3 gr / 10,700 PSI	15.6 gr / 11,100 PSI	16.0 gr / 11,700 PSI	16.5 gr / 12,300 PSI
13/16 oz	Longshot	Fio. 616	Fed. 28S1	14.8 gr / 11,300 PSI	15.3 gr / 11,800 PSI	15.9 gr / 12,500 PSI	—
13/16 oz	Longshot	Fio. 616	Rem. PT28	15.0 gr / 10,600 PSI	15.4 gr / 11,200 PSI	15.8 gr / 11,800 PSI	16.2 gr / 12,400 PSI
28 GA., 2 3/4", REMINGTON STS PLASTIC SHELLS							
				1200 fps			
3/4 oz	Universal	Fed. 209A	WAA28	13.5 gr / 12,200 PSI			
3/4 oz	Universal	Rem. 209P	PC28	13.6 gr / 12,000 PSI			
3/4 oz	Universal	Rem. 209P	Rem. PT28	13.8 gr / 12,000 PSI			
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	Fed. 209A	WAA28	16.7 gr / 11,000 PSI			
3/4 oz	HS-6	Rem. 209P	Rem. PT28	17.1 gr / 11,000 PSI			

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
28 GA., 2 3/4", REMINGTON STS PLASTIC SHELLS							
1200 fps							
3/4 oz	HS-6	Rem. 209P	WAA28	17.1 gr / 10,400 PSI			
3/4 oz	HS-6	Win. 209	Rem. PT28	17.0 gr / 11,500 PSI			
3/4 oz	HS-6	Win. 209	WAA28	17.0 gr / 10,700 PSI			
1225 fps 1250 fps 1275 fps 1300 fps							
3/4 oz	Longshot	CCI209M	PC 28	14.4 gr / 12,000 PSI	14.9 gr / 12,300 PSI	—	—
3/4 oz	Longshot	CCI209M	Rem. PT28	14.1 gr / 11,100 PSI	14.6 gr / 11,900 PSI	—	—
3/4 oz	Longshot	CCI209M	WAA28	14.4 gr / 11,500 PSI	14.9 gr / 11,900 PSI	15.4 gr / 12,400 PSI	—
3/4 oz	Longshot	Fed. 209A	PC 28	14.3 gr / 12,000 PSI	—	—	—
3/4 oz	Longshot	Fed. 209A	Rem. PT28	14.0 gr / 11,700 PSI	15.3 gr / 12,500 PSI	—	—
3/4 oz	Longshot	Fed. 209A	WAA28	14.2 gr / 11,200 PSI	14.7 gr / 12,000 PSI	—	—
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
1150 fps 1200 fps							
3/4 oz	PB	Rem. 209P	PC28	—	13.0 gr / 12,100 PSI		
3/4 oz	PB	Rem. 209P	Rem. PT28	13.0 gr / 12,500 PSI		—	
3/4 oz	PB	Rem. 209P	WAA28	—	13.5 gr / 12,300 PSI		
28 GA., 2 3/4", REMINGTON STS PLASTIC SHELLS							
1150 fps 1200 fps							
3/4 oz	SR 7625	Rem. 209P	Fed. 28S1	—	13.5 gr / 12,400 PSI		
3/4 oz	SR 7625	Rem. 209P	PC28	—	14.0 gr / 11,700 PSI		
3/4 oz	SR 7625	Rem. 209P	Rem. PT28	—	13.5 gr / 12,400 PSI		
3/4 oz	SR 7625	Rem. 209P	WAA28	—	14.0 gr / 11,800 PSI		
3/4 oz	SR 7625	Win. 209	PC28	—	14.0 gr / 12,200 PSI		
3/4 oz	SR 7625	Win. 209	Rem. PT28	—	14.0 gr / 12,500 PSI		
3/4 oz	SR 7625	Win. 209	WAA28	—	14.0 gr / 12,200 PSI		
3/4 oz	SR 4756	Fed. 209A	Fed. 28S1	—	14.0 gr / 12,300 PSI		
3/4 oz	SR 4756	Fed. 209A	PC28	—	14.5 gr / 12,200 PSI		
3/4 oz	SR 4756	Fed. 209A	Rem. PT28	—	14.0 gr / 12,500 PSI		
3/4 oz	SR 4756	Rem. 209P	Fed. 28S1	14.0 gr / 10,300 PSI		—	
3/4 oz	SR 4756	Rem. 209P	PC28	15.0 gr / 9,900 PSI		—	
3/4 oz	SR 4756	Win. 209	Fed. 28S1	14.0 gr / 11,500 PSI		—	
3/4 oz	SR 4756	Win. 209	PC28	—	15.0 gr / 11,200 PSI		
3/4 oz	SR 4756	Win. 209	Rem. PT28	14.0 gr / 11,000 PSI		—	
3/4 oz	800-X	Fed. 209A	Fed. 28S1	—	13.0 gr / 11,700 PSI		
3/4 oz	800-X	Fed. 209A	PC28	—	13.0 gr / 11,400 PSI		
3/4 oz	800-X	Fed. 209A	Rem. PT28	—	13.0 gr / 11,400 PSI		
3/4 oz	800-X	Fed. 209A	WAA28	—	13.0 gr / 11,000 PSI		
1200 fps							
3/4 oz	800-X	Rem. 209P	Fed. 28S1	13.5 gr / 11,600 PSI			
3/4 oz	800-X	Rem. 209P	PC28	13.0 gr / 10,300 PSI			

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
28 GA., 2 3/4", REMINGTON STS PLASTIC SHELLS							
1200 fps							
3/4 oz	800-X	Rem. 209P	Rem. PT28	13.5 gr / 10,700 PSI			
3/4 oz	800-X	Rem. 209P	WAA28	13.5 gr / 10,300 PSI			
3/4 oz	800-X	Win. 209	Fed. 28S1	13.0 gr / 11,300 PSI			
3/4 oz	800-X	Win. 209	PC28	13.0 gr / 10,300 PSI			
3/4 oz	800-X	Win. 209	Rem. PT28	13.5 gr / 11,100 PSI			
3/4 oz	800-X	Win. 209	WAA28	13.0 gr / 10,400 PSI			
28 GA., 2 3/4" WINCHESTER AA HS AND SUPER-X HS PLASTIC SHELLS							
1200 fps 1225 fps 1250 fps 1275 fps							
3/4 oz	Universal	CCI 209M	BP SG 28	14.3 gr / 11,000 PSI	14.6 / 11,800 PSI	—	—
3/4 oz	Universal	CCI 209M	Rem. PT28	14.1 gr / 10,200 PSI	14.7 / 11,300 PSI	—	—
3/4 oz	Universal	CCI 209M	WAA28HS	14.2 gr / 12,100 PSI	—	—	—
3/4 oz	Universal	Rem. 209P	BP SG 28	14.2 gr / 10,400 PSI	14.7 / 11,100 PSI	—	—
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 gr / 11,300 PSI	—	—	—
3/4 oz	Universal	Win. 209	BP SG 28	14.3 gr / 11,400 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	—	—	—
3/4 oz	HS-6	CCI 209M	BP SG 28	18 gr / 10,100 PSI	—	—	—
3/4 oz	HS-6	CCI 209M	WAA28HS	17.5 gr / 10,400 PSI	—	—	—
3/4 oz	HS-6	Fed. 209A	BP SG 28	17.5 gr / 10,600 PSI	—	—	—
3/4 oz	HS-6	Fed. 209A	WAA28HS	17.5 gr / 11,000 PSI	—	—	—
3/4 oz	HS-6	Rem. 209P	BP SG 28	18 gr / 9,600 PSI	—	—	—
3/4 oz	HS-6	Rem. 209P	WAA28HS	18 gr / 10,600 PSI	—	—	—
3/4 oz	HS-6	Win. 209	BP SG 28	18 gr / 9,700 PSI	—	—	—
3/4 oz	HS-6	Win. 209	WAA28HS	18 gr / 10,600 PSI	—	—	—
3/4 oz	Longshot	CCI 209M	BP SG 28	13.9 gr / 9,700 PSI	14.5 gr / 10,400 PSI	15 gr / 10,900 PSI	15.5 gr / 11,500 PSI
3/4 oz	Longshot	CCI 209M	Fed. 28S1	14 gr / 10,200 PSI	14.5 gr / 10,900 PSI	14.9 gr / 11,500 PSI	—
3/4 oz	Longshot	CCI 209M	Rem. PT28	14.2 gr / 9,200 PSI	14.7 gr / 9,900 PSI	15.1 gr / 10,200 PSI	15.6 gr / 11,200 PSI
3/4 oz	Longshot	CCI 209M	WAA28HS	14.1 gr / 10,700 PSI	14.5 gr / 11,200 PSI	15 gr / 11,900 PSI	—
3/4 oz	Longshot	Fed. 209A	BP SG 28	14 gr / 9,700 PSI	14.6 gr / 10,200 PSI	15.2 gr / 10,800 PSI	—
3/4 oz	Longshot	Fed. 209A	Fed. 28S1	14.1 gr / 10,000 PSI	14.6 gr / 10,900 PSI	15 gr / 11,000 PSI	—
3/4 oz	Longshot	Fed. 209A	Rem. PT28	14.1 gr / 9,200 PSI	14.6 gr / 10,000 PSI	15 gr / 10,600 PSI	15.5 gr / 11,400 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	BP SG 28	14.5 gr / 9,200 PSI	15 gr / 9,800 PSI	15.5 gr / 10,400 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 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	BP SG 28	14.4 gr / 9,200 PSI	14.9 gr / 9,700 PSI	15.5 gr / 10,200 PSI	16 gr / 10,800 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 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	—
3/4 oz	SR 7625	CCI209M	PC28	14.3 gr / 12,400 PSI	—	—	—

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
28 GA., 2 3/4" WINCHESTER AA HS AND SUPER-X HS PLASTIC SHELLS							
				1200 fps	1225 fps	1250 fps	1275 fps
3/4 oz	SR 7625	CCI209M	Rem. PT 28	14.6 gr / 12,200 PSI	—	—	—
3/4 oz	SR 7625	Fed. 209A	Rem. PT 28	14.2 gr / 12,500 PSI	—	—	—
3/4 oz	SR 7625	Rem. 209P	Fed. 28S1	14.4 gr / 12,100 PSI	—	—	—
3/4 oz	SR 7625	Rem. 209P	PC 28	14.7 gr / 11,800 PSI	15.2 gr / 12,200 PSI	—	—
3/4 oz	SR 7625	Rem. 209P	Rem. PT28	14.7 gr / 11,300 PSI	15.2 gr / 11,900 PSI	—	—
3/4 oz	SR 7625	Win. 209	Fed. 28S1	14.5 gr / 12,400 PSI	—	—	—
3/4 oz	SR 7625	Win. 209	PC28	14.9 gr / 11,800 PSI	15.4 gr / 12,500 PSI	—	—
3/4 oz	SR 7625	Win. 209	Rem. PT28	14.7 gr / 11,200 PSI	15.3 gr / 11,700 PSI	—	—
3/4 oz	SR 4756	CCI209M	Fed. 28S1	15.5 gr / 11,400 PSI	16.0 gr / 12,000 PSI	—	—
3/4 oz	SR 4756	CCI209M	PC28	16.3 gr / 10,500 PSI	16.6 gr / 10,900 PSI	17.0 gr / 11,500 PSI	17.4 gr / 12,100 PSI
3/4 oz	SR 4756	CCI209M	Rem. PT28	15.9 gr / 10,400 PSI	16.3 gr / 10,900 PSI	—	—
3/4 oz	SR 4756	Fed. 209A	Fed. 28S1	15.3 gr / 11,600 PSI	15.7 gr / 12,200 PSI	—	—
3/4 oz	SR 4756	Fed. 209A	PC28	15.7 gr / 11,500 PSI	16.1 gr / 12,000 PSI	16.5 gr / 12,400 PSI	—
3/4 oz	SR 4756	Fed. 209A	Rem. PT28	15.7 gr / 10,900 PSI	16.2 gr / 11,600 PSI	—	—
3/4 oz	SR 4756	Rem. 209P	PC28	16.1 gr / 10,400 PSI	16.4 gr / 10,800 PSI	16.8 gr / 11,300 PSI	—
3/4 oz	SR 4756	Win. 209	Fed. 28S1	15.5 gr / 11,100 PSI	—	—	—
3/4 oz	SR 4756	Win. 209	PC28	16.1 gr / 10,600 PSI	16.6 gr / 11,100 PSI	17.0 gr / 11,400 PSI	—
3/4 oz	800-X	CCI209M	WAA28HS	13.5 gr / 11,600 PSI	14.0 gr / 12,300 PSI	—	—
3/4 oz	800-X	CCI209M	BP SG 28	13.5 gr / 10,200 PSI	14.1 gr / 11,200 PSI	14.6 gr / 12,100 PSI	—
3/4 oz	800-X	CCI209M	Fed. 28S1	13.6 gr / 11,000 PSI	14.1 gr / 11,700 PSI	14.5 gr / 12,200 PSI	—
3/4 oz	800-X	CCI209M	PC28	13.5 gr / 10,200 PSI	14.0 gr / 10,900 PSI	14.5 gr / 11,500 PSI	15.1 gr / 12,300 PSI
3/4 oz	800-X	CCI209M	Rem. PT28	13.8 gr / 10,100 PSI	14.3 gr / 10,700 PSI	14.8 gr / 11,300 PSI	15.3 gr / 11,900 PSI
3/4 oz	800-X	Fed. 209A	BP SG 28	13.5 gr / 10,000 PSI	13.9 gr / 11,500 PSI	14.3 gr / 12,500 PSI	—
3/4 oz	800-X	Fed. 209A	Fed. 28S1	13.2 gr / 11,500 PSI	13.8 gr / 12,200 PSI	—	—
3/4 oz	800-X	Fed. 209A	PC 28	13.3 gr / 11,000 PSI	13.8 gr / 11,400 PSI	14.3 gr / 11,800 PSI	14.8 gr / 12,200 PSI
3/4 oz	800-X	Fed. 209A	Rem. PT 28	13.6 gr / 10,900 PSI	14.0 gr / 11,400 PSI	14.4 gr / 12,100 PSI	—
3/4 oz	800-X	Fed. 209A	WAA28HS	13.3 gr / 12,000 PSI	—	—	—
3/4 oz	800-X	Rem. 209P	BP SG 28	14.0 gr / 10,200 PSI	14.5 gr / 11,000 PSI	15.0 gr / 11,700 PSI	—
3/4 oz	800-X	Rem. 209P	Fed. 28S1	13.7 gr / 11,200 PSI	14.2 gr / 11,900 PSI	—	—
3/4 oz	800-X	Rem. 209P	PC 28	13.7 gr / 10,000 PSI	14.2 gr / 10,500 PSI	14.8 gr / 11,200 PSI	15.3 gr / 11,700 PSI
3/4 oz	800-X	Rem. 209P	Rem. PT28	13.9 gr / 10,400 PSI	14.4 gr / 10,900 PSI	14.8 gr / 11,200 PSI	15.3 gr / 11,700 PSI
3/4 oz	800-X	Rem. 209P	WAA28HS	13.7 gr / 11,500 PSI	14.1 gr / 11,900 PSI	14.5 gr / 12,300 PSI	—
3/4 oz	800-X	Win. 209	BP SG 28	—	14.3 gr / 11,500 PSI	14.8 gr / 12,000 PSI	—
3/4 oz	800-X	Win. 209	Fed. 28S1	13.8 gr / 11,100 PSI	14.2 gr / 11,500 PSI	14.6 gr / 12,000 PSI	15.0 gr / 12,300 PSI
3/4 oz	800-X	Win. 209	PC28	13.7 gr / 10,500 PSI	14.2 gr / 10,900 PSI	14.7 gr / 11,400 PSI	15.2 gr / 11,900 PSI
3/4 oz	800-X	Win. 209	Rem. PT28	13.6 gr / 9,800 PSI	14.2 gr / 10,400 PSI	14.8 gr / 11,100 PSI	15.4 gr / 11,700 PSI
3/4 oz	800-X	Win. 209	WAA28HS	13.5 gr / 11,700 PSI	14.0 gr / 12,200 PSI	—	—
13/16 oz.	Longshot	CCI 209M	BP SG 28	14 gr / 10,800 PSI	—	—	—
13/16 oz.	Longshot	CCI 209M	Fed. 28S1	14 gr / 11,700 PSI	—	—	—
13/16 oz.	Longshot	CCI 209M	Rem. PT28	14.5 gr / 10,400 PSI	14.8 gr / 11,200 PSI	—	—
13/16 oz.	Longshot	CCI 209M	WAA28HS	14 gr / 12,000 PSI	—	—	—
13/16 oz.	Longshot	Fed. 209A	BP SG 28	14 gr / 11,100 PSI	—	—	—
13/16 oz.	Longshot	Fed. 209A	Fed. 28S1	14 gr / 11,800 PSI	14.2 gr / 12,200 PSI	—	—
13/16 oz.	Longshot	Fed. 209A	Rem. PT28	14.2 gr / 10,600 PSI	—	—	—

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*			
28 GA., 2 3/4" WINCHESTER AA HS AND SUPER-X HS PLASTIC SHELLS (CONT.)							
				1200 fps	1225 fps	1250 fps	1275 fps
13/16 oz.	Longshot	Fed. 209A	WAA28HS	14 gr / 12,100 PSI	—	—	—
13/16 oz.	Longshot	Rem. 209P	BP SG 28	14.2 gr / 10,300 PSI	—	—	—
13/16 oz.	Longshot	Rem. 209P	Fed. 28S1	14.2 gr / 11,200 PSI	—	—	—
13/16 oz.	Longshot	Rem. 209P	Rem. PT28	14.3 gr / 9,900 PSI	—	—	—
13/16 oz.	Longshot	Win. 209	BP SG 28	14.2 gr / 10,400 PSI	—	—	—
13/16 oz.	Longshot	Win. 209	Fed. 28S1	14.3 gr / 11,400 PSI	—	—	—
				1175 fps	1200 fps		
13/16 oz.	Longshot	Win. 209	Rem. PT28	14.5 gr / 9,700 PSI	—	—	—
13/16 oz.	Longshot	Win. 209	WAA28HS	14.2 gr / 11,700 PSI	—	—	—
				1150 fps	1175 fps	1200 fps	1225 fps
13/16 oz.	SR 4756	CCI209M	PC28	15.1 gr / 10,800 PSI	15.6 gr / 11,500 PSI	—	—
13/16 oz.	800-X	CCI209M	Fed. 28S1	—	13.4 gr / 12,200 PSI	13.8 gr / 12,500 PSI	—
13/16 oz.	800-X	CCI209M	PC28	—	13.6 gr / 10,800 PSI	14.1 gr / 11,400 PSI	—
13/16 oz.	800-X	CCI209M	Rem. PT28	—	13.8 gr / 10,800 PSI	—	—
13/16 oz.	800-X	Fed. 209A	Fed. 28S1	—	13.5 gr / 12,300 PSI	—	—
13/16 oz.	800-X	Fed. 209A	PC28	—	13.3 gr / 11,300 PSI	13.9 gr / 12,300 PSI	—
13/16 oz.	800-X	Fed. 209A	Rem PT28	—	13.6 gr / 11,400 PSI	14.1 gr / 12,000 PSI	—
13/16 oz.	800-X	Rem. 209P	Fed. 28S1	—	13.3 gr / 11,800 PSI	13.9 gr / 12,500 PSI	—
13/16 oz.	800-X	Rem. 209P	PC28	—	13.6 gr / 10,900 PSI	14.2 gr / 11,600 PSI	—
13/16 oz.	800-X	Rem. 209 P	Rem. PT28	—	13.7 gr / 10,800 PSI	14.1 gr / 11,200 PSI	14.6 gr / 11,600 PSI
13/16 oz.	800-X	Win. 209	Fed. 28S1	—	13.5 gr / 12,300 PSI	—	—
13/16 oz.	800-X	Win. 209	PC 28	—	13.7 gr / 11,200 PSI	14.2 gr / 11,700 PSI	—
13/16 oz.	800-X	Win. 209	Rem. PT28	—	13.8 gr / 10,700 PSI	14.3 gr / 11,400 PSI	—
				1225 fps	1275 fps		
7/8 oz.	Lil'Gun	Rem. 209P	BP SG28 II	23.9 gr / 9,600 PSI	25 gr / 10,600 PSI	—	—
7/8 oz.	Lil'Gun	Win. 209	BP SG28 II	23.7 gr / 9,600 PS	25 gr / 10,500 PSI	—	—
410 BORE, 2 1/2", REMINGTON-PETERS "STS" PLASTIC SHELLS							
1200 fps							
1/2 oz	LIL'GUN	Fed. 209A	Fed. 410SC	12.9 gr / 11,600 PSI	—	—	—
1/2 oz	LIL'GUN	Fed. 209A	Orange PC	13.1 gr / 11,000 PSI	—	—	—
1/2 oz	LIL'GUN	Fed. 209A	Rem. SP410	12.9 gr / 10,900 PSI	—	—	—
1/2 oz	LIL'GUN	Fed. 209A	WAA41	12.9 gr / 11,200 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	—	—	—

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*		
410 BORE, 2 1/2", REMINGTON-PETERS "STS" PLASTIC SHELLS						
1200 fps						
1/2 oz	H110	Win. 209	WAA41	14.0 gr / 10,000 PSI		
1150 fps 1200 fps						
1/2 oz	IMR 4227	Fed. 209A	CB 1050-41	— 18.0 gr / 12,500 PSI		
1/2 oz	IMR 4227	Fed. 209A	Fed. 410SC	— 17.5 gr / 12,400 PSI		
1/2 oz	IMR 4227	Fed. 209A	PC410	— 17.5 gr / 12,500 PSI		
1/2 oz	IMR 4227	Win. 209	CB 1050-41	18.0 gr / 11,000 PSI —		
1/2 oz	IMR 4227	Win. 209	PC410	17.5 gr / 11,200 PSI —		
410 BORE, 2 1/2", WINCHESTER AA HS PLASTIC SHELLS						
1200 fps 1250 fps 1300 fps						
1/2 oz.	Lil'Gun	CCI 209M	Fed. 410SC	13.2 gr / 12,300 PSI	—	—
1/2 oz.	Lil'Gun	CCI 209M	Orange PC	13.3 gr / 11,500 PSI	—	—
1/2 oz.	Lil'Gun	CCI 209M	Rem. SP410	13.2 gr / 11,700 PSI	—	—
1/2 oz.	Lil'Gun	CCI 209M	WAA41HS	13.3 gr / 12,100 PSI	—	—
1/2 oz.	Lil'Gun	Fed. 209A	Fed. 410SC	13.3 gr / 11,900 PSI	—	—
1/2 oz.	Lil'Gun	Fed. 209A	Orange PC	13.4 gr / 11,000 PSI	—	—
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	Fed. 410SC	13.5 gr / 11,800 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	Fed. 410SC	13.2 gr / 11,500 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	CCI 209M	Fed. 410SC	14.3 gr / 10,100 PSI	—	—
1/2 oz.	H110	CCI 209M	Rem. SP410	14.5 gr / 9,600 PSI	15.2 gr / 10,100 PSI	16.2 gr / 11,900 PSI
1/2 oz.	H110	CCI 209M	WAA41HS	14.5 gr / 9,900 PSI	15.1 gr / 10,700 PSI	16 gr / 11,700 PSI
1/2 oz.	H110	Fed. 209A	Fed. 410SC	14.6 gr / 9,600 PSI	15.3 gr / 10,200 PSI	16.3 gr / 11,300 PSI
1/2 oz.	H110	Fed. 209A	Orange PC	15.2 gr / 8,600 PSI	15.7 gr / 9,300 PSI	16.8 gr / 10,200 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 gr / 6,900 PSI	16.5 gr / 8,400 PSI	17.4 gr / 9,300 PSI
1/2 oz.	H110	Rem. 209P	WAA41HS	16 gr / 7,400 PSI	16.5 gr / 9,000 PSI	17.6 gr / 9,900 PSI
1/2 oz.	H110	Win. 209	Fed. 410SC	15.2 gr / 9,400 PSI	15.7 gr / 10,000 PSI	16.3 gr / 11,000 PSI
1/2 oz.	H110	Win. 209	Orange PC	15.5 gr / 8,100 PSI	16.1 gr / 8,600 PSI	17 gr / 9,800 PSI
1/2 oz.	H110	Win. 209	Rem. SP410	15 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	—	—
410 BORE, 3", REMINGTON "SP" PLASTIC SHELLS						
1135 fps						
11/16 oz	LIL'GUN	Rem. 209P	Rem. SP410	12.8 gr / 12,900 PSI		
11/16 oz	LIL'GUN	Win. 209	WAA41	12.7 gr / 13,500 PSI		

SHOT	POWDER	PRIMER	WAD	CHARGE/PRESSURE*		
410 BORE, 3", REMINGTON "SP" PLASTIC SHELLS						
1135 fps						
11/16 oz	H110	Rem. 209P	Rem. SP410	15.0 gr / 11,800 PSI		
11/16 oz	H110	Win. 209	WAA41	14.5 gr / 12,800 PSI		
1125fps 1175 fps						
11/16 oz	IMR 4227	Fed. 209A	Rem. SP410	— 19.0 gr / 13,300 PSI		
11/16 oz	IMR 4227	Rem. 209P	Rem. SP410	19.0 gr / 10,900 PSI —		
11/16 oz	IMR 4227	Win. 209	Rem. SP410	19.0 gr / 11,600 PSI —		
410 BORE, 3", WINCHESTER SUPER-XHS PLASTIC SHELLS						
1225 fps 1250 fps						
5/8 oz.	H110	CCI 209	WAA41HS	16.9 gr / 12,100 PSI	17.3 gr / 12,600 PSI	—
5/8 oz.	H110	Rem. 209P	Fed. 410SC	16.3 gr / 13,500 PSI	—	—
5/8 oz.	H110	Rem. 209P	WAA41HS	17.0 gr / 12,300 PSI	17.5 gr / 13,400 PSI	—
5/8 oz.	H110	Win. 209	Fed. 410SC	16.3 gr / 13,000 PSI	—	—
5/8 oz.	H110	Win. 209	WAA41HS	17.0 gr / 12,400 PSI	17.5 gr / 12,900 PSI	—
1125 fps 1150 fps 1175 fps						
11/16 oz.	H110	CCI 209	Fed. 410SC	15.0 gr / 13,200 PSI	—	—
11/16 oz.	H110	CCI 209	Orange PC	14.8 gr / 12,100 PSI	15.3 gr / 12,900 PSI	15.8 gr / 13,500 PSI
11/16 oz.	H110	CCI 209	Rem. SP410	15.0 gr / 13,200 PSI	—	—
11/16 oz.	H110	CCI 209	WAA41HS	15.0 gr / 12,200 PSI	15.5 gr / 12,800 PSI	16.1 gr / 13,400 PSI
11/16 oz.	H110	Fed. 209A	Orange PC	14.5 gr / 12,400 PSI	15.5 gr / 13,500 PSI	—
11/16 oz.	H110	Fed. 209A	Rem. SP410	14.8 gr / 13,000 PSI	—	—
11/16 oz.	H110	Fed. 209A	WAA41HS	14.5 gr / 12,400 PSI	15.5 gr / 13,300 PSI	—
11/16 oz.	H110	Rem. 209P	Fed. 410SC	14.5 gr / 13,100 PSI	—	—
11/16 oz.	H110	Rem. 209P	Orange PC	15.0 gr / 12,200 PSI	15.5 gr / 13,300 PSI	—
11/16 oz.	H110	Rem. 209P	Rem. SP410	15.1 gr / 13,300 PSI	—	—
11/16 oz.	H110	Rem. 209P	WAA41HS	14.8 gr / 11,200 PSI	15.3 gr / 12,700 PSI	16.0 gr / 13,500 PSI
11/16 oz.	H110	Win. 209	Fed. 410SC	14.8 gr / 13,000 PSI	—	—
11/16 oz.	H110	Win. 209	Orange PC	15.0 gr / 11,600 PSI	15.8 gr / 12,500 PSI	16.3 gr / 13,100 PSI
11/16 oz.	H110	Win. 209	Rem. SP410	14.8 gr / 12,600 PSI	15.3 gr / 13,500 PSI	—
11/16 oz.	H110	Win. 209	WAA41HS	15.3 gr / 12,200 PSI	15.8 gr / 12,800 PSI	16.3 gr / 13,500 PSI
11/16 oz.	296	Win. 209	WAA41HS	15.3 gr / 12,200 PSI	15.8 gr / 12,800 PSI	16.2 gr / 13,500 PSI
1100 fps						
3/4 oz.	H110	CCI 209	Orange PC	15.0 gr / 13,100 PSI		
3/4 oz.	H110	CCI 209	WAA41HS	15.0 gr / 12,600 PSI		
3/4 oz.	H110	Fed. 209A	Orange PC	14.7 gr / 13,400 PSI		
3/4 oz.	H110	Fed. 209A	WAA41HS	14.7 gr / 13,500 PSI		
3/4 oz.	H110	Rem. 209P	Orange PC	14.7 gr / 13,400 PSI		
3/4 oz.	H110	Rem. 209P	WAA41HS	15.0 gr / 13,200 PSI		
3/4 oz.	H110	Win. 209	Orange PC	15.0 gr / 13,400 PSI		
3/4 oz.	H110	Win. 209	WAA41HS	15.0 gr / 13,100 PSI		

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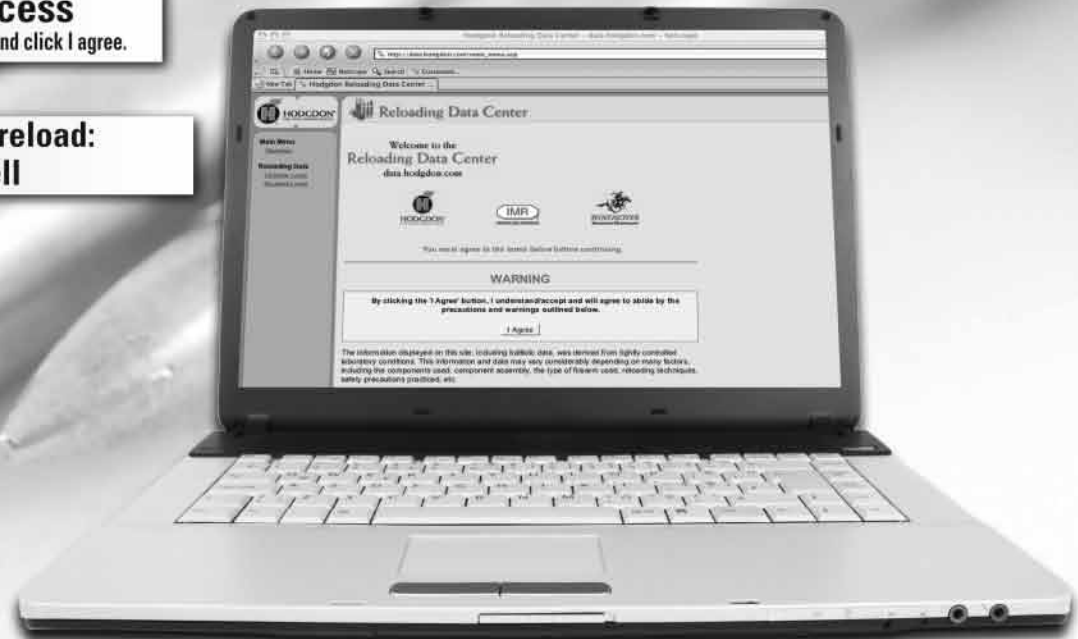
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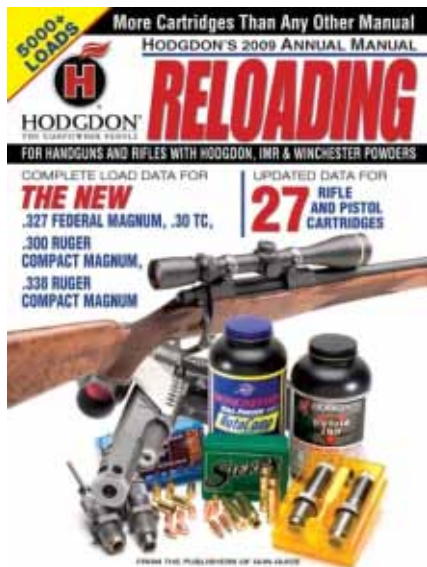
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Basic Reloading Manual



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QUALITY PROPELLANTS FOR OVER 50 YEARS

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H4831SC EXTREME
RIFLE POWDER

RELOADING DATA CENTER
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CHARGE	BULLET	CASE	PRIMER	C.O.L.	VELOCITY
24.5 gr.	100 gr. Spr. BTSP	Win.	Win. LR	2.850"	3100 fps
27.0 gr.	130 gr. H&S SP	Win.	Win. LR	2.850"	3050 fps
38.5 gr.	150 gr. Nos. BT	Win.	Win. LR	2.850"	2710 fps
40.0 gr.	150 gr. Nos. BT	Win.	Win. LR	2.850"	3150 fps
51.0 gr.	180 gr. Nos. BT	Win.	Win. LR	2.850"	2710 fps
67.0 gr.	270 gr. Win. FS	Win.	Fed. 210	2.350"	1100 fps

NET WT 8 LBS. (3.63 KGS)

MADE IN U.S.A.

QUALITY PROPELLANTS FOR OVER 50 YEARS

HODGDON
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BENJAMIN TARGET
RIFLE POWDER

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CHARGE	BULLET	CASE	PRIMER	C.O.L.	VELOCITY
24.5 gr.	100 gr. Spr. BTSP	Win.	Win. LR	2.850"	3100 fps
27.0 gr.	130 gr. H&S SP	Win.	Win. LR	2.850"	3050 fps
38.5 gr.	150 gr. Nos. BT	Win.	Win. LR	2.850"	2710 fps
40.0 gr.	150 gr. Nos. BT	Win.	Win. LR	2.850"	3150 fps
51.0 gr.	180 gr. Nos. BT	Win.	Win. LR	2.850"	2710 fps
67.0 gr.	270 gr. Win. FS	Win.	Fed. 210	2.350"	1100 fps

NET WT 8 LBS. (3.63 KGS)

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QUALITY PROPELLANTS FOR OVER 50 YEARS

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CLAYS TECHNOLOGY

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CHARGE	BULLET	CASE	PRIMER	C.O.L.	VELOCITY
12 Ga.	1-1/8 oz. Shot	Win.	Win. LR	2.850"	3100 fps
20 Ga.	7/8 oz. Shot	Win.	Win. LR	2.850"	3050 fps

NET WT 8 LBS. (3.63 KGS)

MADE IN AUSTRALIA • PACKAGED IN U.S.A.

QUALITY PROPELLANTS FOR OVER 50 YEARS

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WYKS
RIFLE POWDER

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CHARGE	BULLET	CASE	PRIMER	C.O.L.	VELOCITY
24.5 gr.	100 gr. Spr. BTSP	Win.	Win. LR	2.850"	3100 fps
27.0 gr.	130 gr. H&S SP	Win.	Win. LR	2.850"	3050 fps
38.5 gr.	150 gr. Nos. BT	Win.	Win. LR	2.850"	2710 fps
40.0 gr.	150 gr. Nos. BT	Win.	Win. LR	2.850"	3150 fps
51.0 gr.	180 gr. Nos. BT	Win.	Win. LR	2.850"	2710 fps
67.0 gr.	270 gr. Win. FS	Win.	Fed. 210	2.350"	1100 fps

NET WT 8 LBS. (3.63 KGS)

MADE IN U.S.A.

WINCHESTER
BALL POWDER

760

NET WT 8 LBS (3.63 KGS)

WINCHESTER
BALL POWDER

760

NET WT 8 LBS (3.63 KGS)

IMR
LEGENDARY POWDERS

4895

SMOKELESS POWDER

DANGER! EXTREMELY FLAMMABLE
BEFORE USING SEE PRECAUTIONS ON BACK

NET WT. 8 LBS. (3.63 KGS)

WINCHESTER
SMOKELESS PROPELLANTS
FOR LOADING PROFESSIONALS

WINCHESTER
BALL POWDER

296

NET WT 8 LBS (3.63 KGS)

WINCHESTER
BALL POWDER

748

NET WT 8 LBS (3.63 KGS)

HODGDON
THE BRAND THAT'S TRUE

UNIVERSAL
HANDGUN POWDER

RELOADING DATA CENTER
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CHARGE	BULLET	CASE	PRIMER	C.O.L.	VELOCITY
47.2 gr.	100 gr. Spr. BTSP	Win.	Win. LR	2.850"	3100 fps
52.0 gr.	130 gr. H&S SP	Win.	Win. LR	2.850"	3050 fps
65.0 gr.	180 gr. Nos. BT	Win.	Win. LR	2.850"	2710 fps
67.0 gr.	270 gr. Win. FS	Win.	Fed. 210	2.350"	1100 fps

NET WT 8 LBS. (3.63 KGS)

MADE IN U.S.A.

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HP-38
PISTOL POWDER

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CHARGE	BULLET	CASE	PRIMER	C.O.L.	VELOCITY
3.7 gr.	110 gr. EPR G&H	Win.	Win. LR	1.120"	1100 fps
7.0 gr.	150 gr. C&W LSVC	Win.	Win. LR	1.120"	1100 fps
8.0 gr.	150 gr. H&S SP	Win.	Win. LR	1.120"	1100 fps
8.5 gr.	150 gr. H&S SP	Win.	Win. LR	1.120"	1100 fps
8.5 gr.	200 gr. C&W LSVC	Win.	Win. LR	1.120"	1100 fps
8.5 gr.	200 gr. C&W LSVC	Win.	Win. LR	1.120"	1100 fps

NET WT 8 LBS. (3.63 KGS)

MADE IN U.S.A.

IMR

4831

SMOKELESS POWDER

DANGER! EXTREMELY FLAMMABLE
BEFORE USING SEE PRECAUTIONS ON BACK

NET WT. 8 LBS. (3.63 KGS)

WINCHESTER
BALL POWDER

AutoComp

NET WT 8 LBS (3.63 KGS)

QUALITY PROPELLANTS FOR OVER 50 YEARS

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THE BRAND THAT'S TRUE

VARGET
RIFLE POWDER

RELOADING DATA CENTER
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CHARGE	BULLET	CASE	PRIMER	C.O.L.	VELOCITY
27.5 gr.	55 gr. Spr. SP	Win.	Win. LR	2.200"	3304 fps
39.5 gr.	40 gr. Nos. BT	Win.	Win. LR	2.350"	3304 fps
38.5 gr.	55 gr. Spr. SP	Win.	Win. LR	2.350"	3304 fps
40.0 gr.	150 gr. Nos. BT	Win.	Win. LR	2.350"	3304 fps
51.0 gr.	180 gr. Nos. BT	Win.	Win. LR	2.350"	3304 fps
67.0 gr.	270 gr. Win. FS	Win.	Fed. 210	2.350"	1100 fps

NET WT 8 LBS. (3.63 KGS)

MADE IN U.S.A.

IMR

4881

SMOKELESS POWDER

DANGER! EXTREMELY FLAMMABLE
BEFORE USING SEE PRECAUTIONS ON BACK

NET WT. 8 LBS. (3.63 KGS)

IMR

TRAIL BOSS

NET WT. 5 LBS. (2.27 KGS)

WINCHESTER
SUPREME

780

NET WT 8 LBS (3.63 KGS)