



**2015
RELOADER'S GUIDE**

Our Mission:

PREMIUM PERFORMANCE, CONSISTENT QUALITY.

Every container of Alliant smokeless powder is backed by a century of manufacturing experience, and the most exacting quality-control procedures in the industry. We check and control chemical composition, the shape and size of powder grains, and even the propellants' density and porosity. We send samples of every batch to our ballistics lab, testing, among other things, for burning speed. Then, after blending batches together for exactly the right ballistic characteristics, we use our advanced computerized equipment to test again.

The result: a line of products known and respected for consistent quality and performance—not only in the lab, but especially on the firing line. One of the reasons you're a reloader, after all, is so you'll know exactly what to expect every time you pull the trigger. With Alliant powders you will. Not only shell after shell, but also year after year.



Functional Wholesaler Approval List

Wholesaler	Location	Phone #
AcuSport	Utah and Ohio	937-593-7010
CAC	Pennsylvania	814-472-4430
Camfour	Massachusetts	413-568-9663
Chattanooga Shooting Supply	Tennessee	423-894-3007
Continental	Wisconsin	608-779-9820
Crow's Shooters Supply	Iowa	641-522-5821
Dawson Enterprises	Ohio	330-833-0014
Fin-Feather-Fur	Ohio	419-281-2557
Gene Sears Distributors	Oklahoma	405-262-2647
Graf & Sons	Missouri	800-531-2666
Gunarama	Washington	509-535-3040
Hill Country Wholesale	Texas	800-777-2666
Jerry's Sport, Inc.	Pennsylvania	800-234-2612
L. M. Burney Inc	Texas	800-737-3006
Lawry Targets		905-765-3342
North East Distributors	New York	585-248-3435
Pacific Flyway	Utah	801-304-4365
Parks & Son	North Carolina	800-992-6504
Powder Valley	Kansas	620-229-8685
Schanz Shooters Supply	Michigan	269-692-2897
Sports South	Louisiana	800-388-3845
Sunset Distributors	Iowa	641-847-2464
Trainer Hale Supply	Texas	830-420-4530
W.A. Murphy	California	626-444-9271
Western Powder	Montana	406-234-0422
W.L. Baumler Co.	Ohio	830-420-4530

▲ DANGER!

READ THE SAFETY SECTION (PAGES 4-13) OF THIS MANUAL PRIOR TO ENGAGING IN RELOADING.

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SAAMI INFORMATION

SPORTING ARMS AND AMMUNITION MANUFACTURERS' INSTITUTE, INC.

11 Mile Hill Road, Newtown, CT 06470-2359



SMOKELESS POWDER: PROPERTIES AND STORAGE

Ammunition handloading has become increasingly popular in recent years. This leaflet discusses properties of smokeless powder and offers recommendations for its storage.

This information is intended to increase the knowledge of all concerned individuals and groups regarding smokeless powder. The statements and recommendations made are not intended to supersede local, state or federal regulations. Proper authorities should be consulted on regulations for storage and use of smokeless powder in each specific community. A second set of information entitled, "SPORTING AMMUNITION PRIMERS: PROPERTIES, HANDLING, & STORAGE FOR HANDLOADING" supplements this information on smokeless powder.

PROPERTIES OF SMOKELESS POWDER

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, both perforated and unperforated
3. Small spheres or flattened 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.

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

1. A flame such as a match or a 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 both of these products.

Smokeless powder does not detonate like high explosives as it has a controlled rate of burn and differs considerably in its burning characteristics from common "black powder." Black powder burns at essentially 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 may produce 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.

When it burns under pressure as in a cartridge fired in a gun, smokeless powder 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.

For this reason, the U.S. Department of Transportation (formerly Interstate Commerce Commission) sets requirements for shipping containers for propellants and requires tests of loaded containers under actual fire conditions before approving them for use.

When smokeless powder in DOT approved containers is ignited during such tests, the container seams split open or lids pop off to release gases and powder from confinement at low pressure.

Additional details are available in a SAAMI video "Smokeless Powder and the Fire Service."

HOW TO CHECK SMOKELESS POWDER FOR DETERIORATION

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

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

Dispose of deteriorating smokeless powders immediately. 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 or attempt to blend two types of powder to make a "custom" blend. Don't accumulate old powder stocks.

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, storage enclosures should be made of insulating materials to protect the powder from external heat sources.

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

DOT-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 vent the gaseous products of combustion satisfactorily 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 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.

Therefore, storage of smokeless powder should be in strict compliance with all applicable regulations and recommendations of the National Fire Protection Association.

RECOMMENDATIONS FOR STORAGE OF SMOKELESS POWDER

Store in a cool, dry place. Be sure the storage area selected is free from any possible sources of excess heat and is isolated from open flame, furnaces, hot water heaters, etc. Do not store smokeless powder where it will be exposed to the sun's rays. Avoid storage in areas where mechanical or electrical equipment is in operation. Restrict from the storage areas heat or sparks which may result from improper, defective or overloaded electrical circuits.

Do not store smokeless powder in the same area with solvents, flammable gases or highly combustible materials. Store only in department of transportation approved containers.

Do not transfer the smokeless powder from an approved container into one which is not approved.

Do not smoke in areas where powder is stored or used. Place appropriate **"No Smoking"** signs in these areas.

Do not subject the storage cabinets to close confinement.

Storage cabinets should be constructed of insulating materials and with a weak wall, seams or joints to provide an easy means of self-venting.

Do not keep old or salvaged powders. Check old powders for deterioration regularly. Destroy deteriorated powders immediately.

Obey all regulations regarding quantity and methods of storing. Do not store all your smokeless powders in one place. If you can, maintain separate storage locations. Many small containers are safer than one large container.

Keep your storage and use area clean. Clean up spilled powder promptly. Make sure the surrounding area is free of trash or other readily combustible materials

11-3 SMOKELESS PROPELLANTS

11-3.1 Quantities of smokeless propellants not exceeding 25 lb. (11.3kg), in shipping containers approved by the U.S. Department of Transportation, may be transported in a private vehicle.

11-3.2 Quantities of smokeless propellants exceeding 25 lb. (11.3kg) but not exceeding 50 lb. (22.7 kg), transported in a private vehicle, shall be transported in a portable magazine having wood walls of at least 1-inc. (25.4-mm) nominal thickness.

11-3.3 Transportation of more than 50 lb. (22.7 kg) of smokeless propellants in a private vehicle is prohibited.

11-3.4 Commercial shipments of smokeless propellants in quantities not exceeding 100 lb. (45.4kg) may be reclassified for transportation purposes as flammable solids (Division 4.1) when packaged according to U.S. Department of Transportation Hazardous Materials Regulation((Title 49, Code of Federal Regulations, Part 173.171), and shall be transported accordingly.

11-3.5 Commercial shipments of smokeless propellants exceeding 100 lb. (45.4 kg) or not packaged in accordance with the regulations cited in 11-3.4 shall be transported according to the U. S. Department of Transportation regulations for Division 1.3C propellant explosives.

11-3.6 Smokeless propellants shall be stored in shipping containers approved by U.S. Department of Transportation.

11-3.7 Smokeless propellants intended for personal use in quantities not exceeding 20 lb. (9.1 kg) shall be permitted to be stored in original containers in residences. Quantities exceeding 20 lb. (9.1 kg), but not exceeding 50 lb. (22.7 kg), shall be permitted to be stored in residences where kept in a wooden box or cabinet having walls of at least 1-in. (25.4-mm) nominal thickness.

11-3.8 Not more than 20 lb. (9.1 kg) of smokeless propellants, in containers of 1 lb. (0.45 kg) maximum capacity, shall be displayed in commercial establishments.

11-3.9 Commercial stocks of smokeless propellants should be stored as follows:

- (a) Quantities exceeding 20 lb. (9.1 kg), but not exceeding 100 lb. (45.4 kg) shall be stored in portable wooden boxes having walls of at least 1 in. (25.4 mm) thickness.
- (b) Quantities exceeding 100 lb. (45.4 kg), but not exceeding 800 lb. (363 kg), shall be stored in non-portable storage cabinets having walls of at least 1 in. (25.4 mm) thickness. Not more than 400 lb. (181 kg) shall be permitted to be stored in any one cabinet and cabinets shall be separated by a distance of at least 25 ft (7.63 m) or by a fire partition having a fire resistance of at least 1 hour.
- (c) Quantities exceeding 800 lb. (363 kg), but not exceeding 5,000 lb. (2268 kg), shall be permitted to be stored in a building, provided the following requirements are met:
 1. The warehouse or storage room shall not be accessible to unauthorized personnel.
 2. Smokeless propellant shall be stored in non-portable storage cabinets having wood walls at least 1 in. (25.4 mm) thickness and having shelves with no more than 3 ft (0.92 m) of separation between shelves.
 3. No more than 400 lb. (181 kg) shall be stored in any one cabinet.
 4. Cabinets shall be located against the walls of the storage room or warehouse with at least 40 ft (12.2 m) between cabinets.
 5. The separation between cabinets may be reduced to 20 ft (6.1m) where barricades twice the height of the cabinets are attached to the wall, mid-way between each cabinet. The barricades shall extend at least 10 ft (3m) outward, shall be firmly attached to the wall, and shall be constructed of ¼ in. (6.4-mm) boiler plate, 2 in (51-mm) thick wood, brick, or concrete block.
 6. Smokeless propellant shall be separated from materials classified by the US Department of Transportation as flammable liquids, flammable solids, and oxidizing materials by a distance of 25 ft (7.63mm) or by a fire partition having a fire resistance of at least 1 hour.
 7. The building shall be protected by an automatic sprinkler system installed in accordance with NFPA 13, Standard for the Installation of Sprinkler Systems.
- (d) Smokeless propellants not stored according to 11.39 (a), (b) and (c) above shall be stored in a Type 4 magazine constructed and located in accordance with Chapter 6.

Reprinted with permission from NFPA 495:Explosive Material Code, Copyright © 1996, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association on the referenced subject, which is represented only by the standard in its entirety.

▲ DANGER!

Millions of men and women reload ammunition as a hobby, or because the cost savings allow them to enjoy shooting more often. You should always reload so that the safest and most accurate loads on the shooting line will be yours, and always remember that to become or to continue to be a safe reloader, ***you must be careful at all times.*** As a reloader, you are dealing with and manufacturing explosive materials; handling powders and primers that can, if misused, explode or burn, causing property damage, serious personal injury—even death! Later, when you shoot the ammunition you've produced and checked, you will be the person closest to the gun, the one most likely to be injured if improperly loaded ammunition causes your gun to malfunction.

Protect yourself by studying books that describe safe reloading techniques in detail. When using smokeless powders, use only the exact type and quantity described herein. Always store and use your smokeless powders in accordance with the guidelines listed in this booklet.

▲ POWDER WARNINGS!

- ***NEVER*** substitute smokeless powder for black powder, or for black powder substitutes.
- ***NEVER*** mix together any two powders, regardless of type, brand, style, or source.
- ***NEVER*** use the data in this *Reloaders' Guide* for any other powders, even if advertised "similar to Bullseye" or "burns the same as Red Dot," etc.

Violation of any of the above could result in severe personal injury (including death) or gun damage.

▲ WARNING! — BE SURE TO:

- **The powder charge weights listed in our data tables are maximum.** For rifle and pistol loads, the maximum powder charge should be reduced by 10% to establish a minimum or starting powder charge.
- All loads have been tested in our ballistics lab with SAAMI approved, un-vented test barrels. Keep in mind that such test equipment often yields higher velocities than are usually obtained with sporting arms.
- If ever you are unsure of your load data, or if you detect any signs of high pressure while using load data from this Guide, stop loading or testing at once. Contact our technical service personnel at 1-800-379-1732 before proceeding.
- Instructions for proper handling, storage and disposal are given on pages 4-7 (SAAMI instructions).

BALLISTICS

The ballistic data shown in this booklet were obtained in the laboratory under strictly controlled conditions. ***You must load only the exact combinations that are listed.*** Even then, different reloading techniques, plus industrial tolerances of each component, likely will cause your ammunition, or ammunition loaded by other competent laboratories, to yield slightly different ballistic data. Therefore, ***powder charge recommendations in this booklet must never be exceeded.*** Safe shooters and hunters know that accuracy, not maximum power, is their key to success.

TECHNICAL ASSISTANCE

For technical assistance or for any information not included in this *Reloaders' Guide*, please call 1-800-379-1732 or email alliant.reloadings@atk.com.

For our interactive Reloaders' Guide, visit alliantpowder.com.

DISCLAIMER

Alliant disclaims any warranties with respect to this product, 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. Buyers and users assume all risk, responsibility, and liability whatsoever for any and all injuries (including death), losses, or damages to persons or property arising from the use of this product, whether or not occasioned by seller's negligence or based on strict product liability or principles of indemnity or contribution. Alliant neither assumes nor authorizes any person to assume for it any liability in connection with the use of this product.

▲ DANGER!

HANDLOADING PRECAUTIONS & TECHNICAL DATA

Pistol and Revolver Cartridges Special Reloading Precautions

Most pistols and revolvers function best when loaded with a quick-burning powder such as Bullseye®. Since peak pressure is reached very quickly, the seating depth of the bullet is very important: the deeper the bullet, the higher the pressure. If the bullet is seated too deeply, dangerous pressures will be generated, which could burst the gun and cause severe personal injury (including death).

Equally critical is the powder charge. Guard against multiple charges when reloading. Certain cartridges (notably 38 Special) have been reloaded accidentally with double and even triple charges, with catastrophic results when fired in the gun.

A. Prevent deeply seated bullets.

1. Your assembled cartridges must be as long as, or longer than, the minimum length listed for the combination you are reloading.
2. Set your bullet station accordingly and lock tool securely.
3. Keep bullet station clean of accumulating lead and grease.
4. Inspect all loaded rounds for overall length.
5. Be sure every bullet is held tightly by shell mouth, especially pistol loads (recoil drives magazine against bullet noses of contained cartridges).

B. Prevent multiple charges.

1. **Handloading:** Keep track of every powder charge, then look inside all shells and compare powder levels.
2. **Progressive reloading:** Be sure every shell is truly empty; don't back up the turret; don't jiggle the handle; don't use a shell to clean out the powder train (use a paper cup or equivalent).

C. Inspection.

1. Discard cases with split mouths.
2. Discard cases with enlarged primer pockets.
3. Do not use cases that are designed for primer-propelled practice cartridges; such cases may not be designed for full power loads.

Physical Effect of Gun Recoil (Kick)

The rearward motion of every gun, its recoil, increases when heavier shot or heavier bullets are fired, and when higher velocity loads are fired. This motion must be opposed by the shoulder, or the pistol hand, of the shooter. Whenever the recoil is perceptibly annoying to the shooter, accuracy on succeeding firings undoubtedly diminishes.

When the shooting condition demands heavy loads and high velocity, recoil kick can be reduced by using a heavier gun, and by spreading the force over a larger area of the anatomy, such as by using a wider stock, larger grip, plus shoulder pad or softer grip.

Excellent publications available to the reloader, plus his or her own growing sophistication, have generated a wholesome trend away from maximum loads and toward accuracy of loads no more powerful than needed for the intended purpose. Reducing recoil increases accuracy.

Contributing to increased accuracy as well as the pleasantness of shooting is in two main areas:

1. This *Reloaders' Guide* includes many reduced loads.
2. Our research indicates that the burning rate of powders has a modest effect on recoil. For example, whenever two or more powders are listed for the same load, the slower one usually is chosen by the expert shooter as giving milder felt recoil. An intriguing aspect of reloading at home is the freedom to assemble, for example, trap loads with Red Dot® or Green Dot® powder, then to shoot them alternately to decide which seems more comfortable.

DANGER! Handloading Precautions

1. **Understand what you are doing and why.** Read handbooks and manuals on reloading. Talk to experienced reloaders. Write or call suppliers of components if you have questions or are in doubt.
2. Stay *alert* when reloading. **Do not reload when distracted.**
3. Establish a loading procedure and follow it. **Do not vary your sequence of operations.**
4. **Examine empty cases** (shotshell or metallic) to be sure they are in good condition before reloading. Never force live cartridges into or out of the chamber of a gun.
5. **Do not use cases that are designed for primer-propelled practice cartridges;** such cases may not be designed for full power loads.
6. **Do not ream out or enlarge flash holes of metallic cartridge cases.** This may change the ignition rate and result in dangerous pressures.
7. **Do not punch out live primers.** Fire the empty primed shells in a gun.
8. **Do not mix primers.** Primers differ in brisance of ignition, which affects pressure and velocity. Use only the primer listed.
9. **The shotshell loading data in the *Reloaders' Guide* are for LEAD SHOT only. Use steel shot only as specified in the steel shot data section (pgs. 26-28).**
10. One-piece plastic wads for shotshells vary in compressibility and gas-sealing effectiveness. Use only the wad listed.
11. If you "throw," or measure powder charges by volume, check-weigh the charge frequently. Do not mix powders.
12. **Do not use powders near a flame, spark-producing machinery, or heating device.** Do not expose powders to temperatures above 100°F.
13. Keep out of reach of children.
14. **Do not smoke while reloading.**

Smokeless Powders for Reloading

We currently offer 35 smokeless powders for use in reloading. These are listed in the order of decreasing burning rates. Each powder listed is “slower” than those preceding it and “faster” than those following it. Among these Alliant powders, for example, Red Dot® burns more slowly than Bullseye®, but faster than Green Dot®.

Powder	Principal Use ¹	Secondary Use ¹
Extra-Lite®	7/8-ounce 12-gauge target loads	1-ounce 12-gauge target loads
Bullseye™	Handgun loads	
e3®	12-gauge target loads	
Red Dot®	Light and standard shotshell loads, 12-gauge	Handgun loads
Promo®	Light and standard shotshell loads, 12-gauge	Handgun loads
Clay Dot®	12-gauge target loads	Light target loads
American Select®	12-gauge target loads	Handgun loads
Green Dot®	Standard and medium shotshell loads, 12- and 16-gauge	Handgun loads
20/28™	28-gauge target loads	20-gauge target loads
Unique®	All-around shotshell, 12-, 16-, 20-, and 28-gauge	Handgun loads
BE-86™	Handgun loads	
Power Pistol®	High performance pistol loads such as the 9mm, 40 S&W, and 10mm	Moderate-pressure pistol cartridges like the 38 Special, 380 Auto and 45 ACP
Herco®	Heavy shotshell loads, 10-, 12-, 16-, 20-, and 28-gauge	Heavy handgun loads
Blue Dot®	Magnum shotshell loads, 10-, 12-, 16-, 20-, and 28-gauge	Heavy handgun loads
Pro Reach®	Long range target	Hunting loads
Steel®	Steel shotshell, 10- and 12-gauge	
410®	410 bore target loads	
2400®	Magnum handgun loads	410 bore shotshell loads
Power Pro® 300-MP	Magnum handgun loads	410 bore shotshell loads
Reloder™ 7	Light rifle loads	Silhouette loads
Reloder 10X®	Light varmint/light bullet loads	Benchrest calibers; light bullet 308
Power Pro® 1200-R	Light varmint/light bullet loads	Benchrest calibers
Power Pro® Varmint	Standard varmint	Medium rifle loads
AR-Comp®	Heavy 223 and 308 match	
Reloder™ 15	Medium rifle loads	Silhouette loads
Power Pro® 2000-MR	Heavy bullet 223 and 308	
Reloder™ 17	Short magnum loads	Medium rifle loads
Reloder™ 19	Standard and magnum rifle loads	
Power Pro® 4000-MR	Standard and magnum rifle loads	
Reloder™ 22	Standard and magnum rifle loads	
Reloder™ 23	Standard and magnum rifle loads	
Reloder™ 25	Magnum rifle loads	Maximum hunting loads
Reloder™ 26	Magnum rifle loads	
Reloder™ 33	338 Lapua magnum	Large magnum rifle loads
Reloder™ 50	50-caliber target	

¹Use only in the loads printed in this guide.

Black Powder Substitute

Powder	Principal Use	Can Also be Used In
Black MZ™	Muzzleloaders	Black powder cartridges

Packaging

Powder	1-lb Canister	4-lb Canister	5-lb Canister	8-lb Keg
Bullseye, Red Dot, American Select, Green Dot, Unique, Herco, 2400, e3, 410, 20/28	X	X		X
Power Pistol	X	X		
Pro Reach, Extra-Lite, Clay Dot	X			X
Power Pro Series, AR-Comp, BE-86	X			X
Blue Dot	X		X	
Reloder Series	X		X	
Steel	X	X		
Promo				X
Black MZ	X			

All 36 powders are always in stock at distributors' magazines throughout the U.S.A., and in most countries where reloading is legally permitted and popular. Any reloader unable to purchase these powders at retail stores that handle powders should write to the address on the back cover. We cannot ship directly, but we will endeavor to correct supply shortages in your area.

Powder Information

Smokeless sporting propellants are of two basic types – single-base and double-base. Single-base propellants derive their energy from nitrocellulose and double-base from a combination of nitrocellulose and nitroglycerin. Alliant propellants range from the “near” single-base American Select (2% nitroglycerin) to the high nitroglycerin (40%) double-base Bullseye. In addition, our propellants contain stabilizers for long storage life and various other ballistic modifiers which reduce flash, improve combustion efficiency, and promote clean burning.

Some of our propellants also have a chemical coating on the surface to control the burning rate. This creates a progressive burn for achieving higher velocities at lower pressures. All of our propellants have a graphite glaze, which ensures smooth, consistent metering of charges through volumetric reloaders.

Alliant propellants are extruded and cut into circular flakes or cylinders by precision dies and cutting equipment. Granule size tolerances are very tight and uniform to prevent separation of different size granules and to ensure consistent ballistic performance, load after load.

By utilizing a precise combination of chemical formulation, granule size, and chemical coatings, we are able to tailor the burning characteristics of our propellants to achieve the best overall performance in a wide range of loads. Because each of our propellants is specifically engineered to have different burn rates and performance characteristics, **NEVER BLEND OR MIX DIFFERENT POWDERS, AND USE ONLY THE POWDER AND QUANTITY RECOMMENDED IN THIS RELOADER'S GUIDE.**

All powders burn with great precision and rapidity inside the gun chamber, generating the hot, high-pressure gas that accelerates the bullet (or shot) and drives it toward the target. **It is critically important for safety that the powder used is matched to the bullet (or shot) weight and other factors; otherwise, the gun parts may be deformed or may even burst and cause serious personal injury (including death).** Shot-to-shot accuracy can also be degraded by deviations from recommended loads. Even after 80 years of producing and testing powders, ballisticians are unable to calculate and predict **exact** ballistic results; we must test-fire our powders with each set of components and record the results. Therefore, **the ballistic values and recommended combinations listed in this booklet must be followed without deviation.**

Working up charges. For shotgun loads, use the charge weight shown. However, for all rifle and pistol loads, first load and fire a few cartridges at the starting charge weight, watching for any sign of excessive pressure (difficult extraction, flattened or blown primers, unusual recoil).

Handgun loads. Many pistol and revolver loads require only small amounts of fast-burning powders; therefore: (1) guard against accidental double charges, and even multiple charges, whether loading with handtools or with progressive loading devices; (2) be sure that each bullet is positioned in the case so that the minimum overall length is not violated.

Dram Equivalent

Prior to the commercialization of smokeless powder, shotgun shells were loaded with black powder. The weight measurement system used for black powder was “drams.” Compared with black powder, **smokeless powder is more dense and much more energetic, so it cannot safely be measured and used like black powder.** Indeed, a different weight system was selected for smokeless powder: “grains,” wherein 7,000 grains equal one pound.

Since many shooters still wanted to be able to compare their smokeless powder loads with the original black powder loads, the term “dram equivalent” evolved. Simply stated, the dram equivalent is an indicator of the velocity of a particular shot load. **But note that the charge and weight of smokeless powder must not be calculated from the dram equivalent.**

Notice

We have inserted information on the properties and storage of smokeless powder for your understanding, so that you can avoid unnecessary risks when using it. This information, on pages 4-7, was published initially by the Sporting Arms and Ammunition Manufacturers' Institute, Inc., several years ago in the interest of safety. You must read these pages carefully and comply with the precautions listed. If you have questions, please call or write to us at the address on the back cover.

Important Safety and Health Precautions

▲ DANGER! SMOKELESS GUNPOWDER - EXTREMELY FLAMMABLE KEEP AWAY FROM SPARKS OR HEAT SOURCE FAILURE TO FOLLOW THESE WARNINGS COULD RESULT IN INJURY OR DEATH.

1. **DO NOT** smoke when reloading.
2. **DO NOT** use spark-producing tools.
3. **DO NOT** mix powders of different kinds.
4. **DO NOT** leave powder where children can get it.
5. **DO NOT** try to load when distracted.
6. **AVOID AN OPEN FIRE OR WORKING NEAR SPARK-PRODUCING MACHINERY OR ANY HEAT SOURCE.**
7. **Pour out only the amount of powder needed for immediate work.**
8. **Check the powder measure each time it is used. Make sure the settings have not been accidentally changed. Check-weigh "thrown charges" frequently.**
9. **Clean up any spilled powders. Use a brush and dustpan; do not use a vacuum cleaner. Dispose of spilled powder as described in the SAAMI pages of this Guide.**
10. **Store powder only in its original container, which was carefully designed for this usage. DO NOT REPACKAGE. Do not purchase or accept any Alliant powder not in its original, FACTORY-SEALED container.**
11. **Be sure the powder container is completely empty before discarding. Do not use the container to store other powders or materials, or for any other purpose.**
12. **Always keep in mind that SMOKELESS POWDER IS AN EXPLOSIVE MATERIAL AND HIGHLY FLAMMABLE. It should always be stored and handled in such a way as to avoid impact, friction, heat, sparks, or flame.**
13. **Wear safety glasses when reloading.**
14. **▲ DANGER! THIS MATERIAL CONTAINS NITROGLYCERIN. Inhalation, skin contact, or ingestion may cause severe headache, nausea, and lowering of blood pressure. THEREFORE, THE FOLLOWING PRECAUTIONS MUST BE OBSERVED WHEN HANDLING POWDERS:**
 - A. **Do not take internally. In case of ingestion, cause vomiting. Call a physician.**
 - B. **Avoid contamination of food, beverages, or smoking materials.**
 - C. **Avoid breathing dust. Ensure adequate ventilation during handling.**
 - D. **Wash thoroughly after handling and before eating, drinking, or smoking.**
 - E. **Do not carry powder in clothing.**

You must also always remember:

1. **Establish a routine for reloading.** It will result in more uniform loads and less chance of error.
2. Some primers are more powerful than others (they produce more gas at a higher temperature). **Use only the primers specified herein.**
3. Shotshell wads differ in their sealing ability. **Use only the load combinations specified herein.**
4. If you use cast bullets, their diameter, hardness, lubrication, and crimp will affect the ballistics.
5. **The shotshell loads in this booklet are for use with LEAD SHOT ONLY! For steel shot see special steel section, pages 26-28.**
6. **Use only the brands of powder and components shown in our tables. Do not substitute other types.**
7. Discharging firearms in poorly ventilated areas, cleaning firearms, or handling ammunition may result in exposure to lead, a substance known to cause birth defects, reproductive harm, and other serious physical injury. **Have adequate ventilation at all times. Wash hands and face thoroughly after handling and before coming in contact with food, chewing materials, and smoking material.**

PROVEN POWDERS FOR SHOTSHELL RELOADERS

EXTRUDED
POWDER



EXTRUDED
POWDER

OPTIMUM LOADS

**Universal shotshell:
12 to 28 gauge**

12-gauge target

SECONDARY LOADS

Handgun

Cowboy action handgun

REMARKS

The number 1 premium clay target powder, now 50 percent cleaner burning

Premium ultra-clean-burning target powder, excellent patterns and less felt recoil

EXTRUDED
POWDER



EXTRUDED
POWDER



EXTRUDED
POWDER



OPTIMUM LOADS

**Light and standard
12-gauge target**

**12-gauge standard
and target**

**Light and standard
12-gauge target**

SECONDARY LOADS

None

Handgun

None

REMARKS

The first of a new generation of high-performance powders

Best long-range clay target powder, creates tight and uniform patterns, now 50 percent cleaner burning

Designed to duplicate the performance of Hodgdon® Clays™ at an economical price

PROVEN POWDERS FOR SHOTSHELL RELOADERS

EXTRUDED
POWDER



EXTRUDED
POWDER

OPTIMUM LOADS

**7/8-ounce 12-gauge
target**

**Long range 12-gauge
clay target**

SECONDARY LOADS

1-ounce 12-gauge target

12-gauge hunting

REMARKS

Extremely clean burning
and consistent across
temperatures

Ideal for long-range 12-gauge
clay target shooting and games
like Annie Oakley and Buddy



EXTRUDED
POWDER



EXTRUDED
POWDER



EXTRUDED
POWDER

OPTIMUM LOADS

**Light and standard
12-gauge target**

**20- and 28-gauge
target**

.410 shotshell

SECONDARY LOADS

None

None

None

REMARKS

Economical target
shotshell powder

Designed specifically to be
the best powder for 20- and
28-gauge target loads

Cleanest .410 bore powder
on the market

PROVEN POWDERS FOR PISTOL/DUAL PURPOSE RELOADERS

EXTRUDED
POWDER



EXTRUDED
POWDER



OPTIMUM LOADS

Magnum shotshell:
10 to 28 gauge

Universal shotshell:
12 to 28 gauge

SECONDARY LOADS

Heavy handgun loads

Handgun

REMARKS

Powder of choice for magnum hunting loads

The world's most versatile reloading powder, now 50 percent cleaner burning

SPHERICAL
POWDER



EXTRUDED
POWDER



OPTIMUM LOADS

Magnum handgun

High performance
12 to 28 gauge

SECONDARY LOADS

.410 shotshell

Moderate pistol

REMARKS

Maximum velocity and performance in magnum handguns

Best choice for high performance 9mm, 40 S&W and 10mm

PROVEN POWDERS FOR PISTOL/DUAL PURPOSE RELOADERS



OPTIMUM LOADS

**Heavy shotshell:
10 to 28 gauge**

Handgun

SECONDARY LOADS

Heavy handgun

Magnum handgun

REMARKS

Outstanding 12-gauge heavy hunting and target loads

Excellent ballistics in an array of pistol loads, with high energy, an ideal burn speed and less flash



OPTIMUM LOADS

**45 ACP
and other handgun**

Magnum handgun

SECONDARY LOADS

38 Special

22 Hornet and 218 Bee

REMARKS

America's best pistol powder; unsurpassed for 45 ACP target loads

Legendary performance in 44 Magnum and other magnum pistol loads

PROVEN POWDERS FOR RIFLE RELOADERS

EXTRUDED
POWDER



EXTRUDED
POWDER

OPTIMUM LOADS

Light rifle

Light varmint

SECONDARY LOADS

45-70 Govt.

Benchrest calibers: light bullet .308

REMARKS

Great in lightweight 223 Rem. varmint bullets

For light bullet applications in 222 Rem., 22-250 Rem. and 223 Rem.

EXTRUDED
POWDER



EXTRUDED
POWDER

OPTIMUM LOADS

Standard rifle

Standard and magnum rifle

SECONDARY LOADS

Light magnum rifle

None

REMARKS

Superb in 30-06 and 338 Win. Magnum

Outstanding in 7mm Magnum and 300 Win. Magnum applications

PROVEN POWDERS FOR RIFLE RELOADERS

EXTRUDED
POWDER



EXTRUDED
POWDER

OPTIMUM LOADS

Medium rifle

Medium rifle

SECONDARY LOADS

Silhouette rifle

Short magnum

REMARKS

Excellent in short-action calibers, especially 308 Win.

Similar burn speed to IMR 4350 with added velocity

NEW



EXTRUDED
POWDER



EXTRUDED
POWDER

NEW



EXTRUDED
POWDER

OPTIMUM LOADS

Standard and magnum rifle

Magnum rifle

Outstanding efficiency in magnum cartridges

SECONDARY LOADS

None

None

None

REMARKS

Consistent across temperature extremes, versatile and consistent

Delivers high energy for large calibers such as Weatherby Magnum

Excellent temperature stability and lot to lot consistency

PROVEN POWDERS FOR RIFLE RELOADERS

**EXTRUDED
POWDER**



**EXTRUDED
POWDER**



**SPHERICAL
POWDER**



OPTIMUM LOADS

338 Lapua

50-caliber target

**Light varmint/light
bullet**

SECONDARY LOADS

Large magnum rifle

None

Benchrest calibers

REMARKS

Specifically formulated for the long-range 338 Lapua, and also ideal for a range of magnum rifle loads

Superior velocity, clean burning and a density created specifically for the 50-caliber application

Great for high-volume handloaders progressive loading in .223

**SPHERICAL
POWDER**



OPTIMUM LOADS

**Standard and
magnum rifle**

SECONDARY LOADS

None

REMARKS

Superior performance in the 7mm Magnum and 300 Win. Magnum

PROVEN POWDERS FOR RIFLE RELOADERS

**SPHERICAL
POWDER**



**SPHERICAL
POWDER**

OPTIMUM LOADS

Standard varmint

Medium rifle

SECONDARY LOADS

Medium rifle light

Heavy .223

REMARKS

Excellent performance in the standard varmint cartridges

Excellent performance in heavy 223 Rem. and 308 Win. loads



**EXTRUDED
POWDER**

OPTIMUM LOADS

AR-style rifles

SECONDARY LOADS

Medium rifle varmint

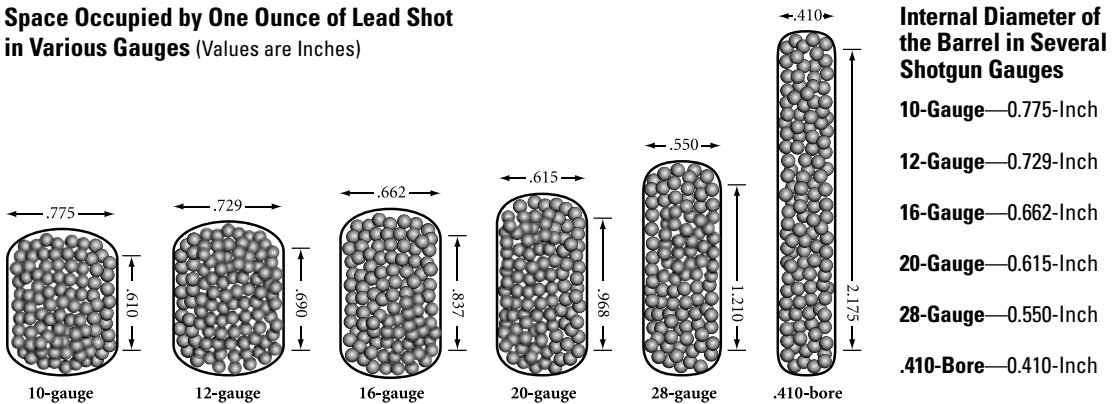
REMARKS

For fast action, high-volume AR and traditional rifle, 223 Rem. and 308 Win. match

Reference Tables

Approximate Number of Pellets in Specific Weights of Lead Shot (Sizes 2 Through 9)								
Weight, oz	No. 2	No. 4	No. 5	No. 6	No. 7 1/2	No. 8	No. 8 1/2	No. 9
1/2	45	67	85	112	175	205	242	292
3/4	67	101	127	168	262	308	363	439
7/8	79	118	149	197	306	359	425	512
1	90	135	170	225	350	410	485	585
1 1/8	101	152	191	253	393	461	545	658
1 1/4	112	169	213	281	437	513	605	731
1 3/8	124	186	234	309	481	564	665	804
1 1/2	135	202	255	337	525	615	730	877

Space Occupied by One Ounce of Lead Shot in Various Gauges (Values are Inches)



Number of Shells That Can Be Loaded with One Pound of Powder at Various Grains Per Load (The term grain is a measure of weight: 7,000 grains equal one pound)											
Grains/Load	Loads/Pound	Grains/Load	Loads/Pound	Grains/Load	Loads/Pound	Grains/Load	Loads/Pound	Grains/Load	Loads/Pound	Grains/Load	Loads/Pound
12	583	23	304	34	205	45	156	56	125	67	104
13	538	24	291	35	200	46	152	57	123	68	103
14	500	25	280	36	194	47	149	58	121	69	101
15	466	26	269	37	189	48	146	59	119	70	100
16	437	27	259	38	184	49	143	60	117	71	99
17	411	28	250	39	179	50	140	61	115	72	97
18	388	29	241	40	175	51	137	62	113	73	96
19	368	30	233	41	170	52	135	63	111	74	95
20	350	31	225	42	166	53	132	64	109	75	93
21	333	32	218	43	162	54	130	65	108	76	92
22	318	33	212	44	159	55	127	66	106	77	91

Typical Percentage of Pellets in a 30-Inch Circle at 40 Yards (Pattern) for Various Choke Sizes

(Choke is a Constriction at the Muzzle of a Shotgun Barrel)

Full Choke—70%

Improved Modified Choke—65 to 70%

Modified Choke—55%

Improved Cylinder—50%

True Cylinder—40%

Ballistic Data

The velocity and pressure obtained with the specific combinations of shell, wad, primer, bullet or shot weight, powder, and powder weight provided in this booklet were obtained in a laboratory, where considerable effort is made to control the load and test conditions. Velocity was measured with a chronograph (electric stopwatch). Pressure was measured either by compressing copper cylinders (C.U.P.), or electronically, by use of a piezoelectric transducer (P.S.I.).

Guns are designed to take a considerable amount of internal pressure, but if this is exceeded, they burst violently. Be alert to signs of excess pressure, such as heavy recoil, flattened primers, or blown primers. Don't make changes in the suggested loads.

Tone variations (shaded areas) used in the reloading tables are for ease of reading and do not represent preferred loads.

The quantity of powder to use is listed in grains, which are a measure of weight, under each powder column.

Every reloader needs a good-quality scale for weighing each powder charge, or for checking the weight of powder thrown by volumetric loaders.

Special Notes Regarding Components Other Than Powder

A. Shotgun Shells. Manufacturers may sell ammunition under different brand names that are identical for reloading purposes. Following are popular variations. When in doubt, consult the ammunition producer.

- **Federal Game Load Plastic** same as **Duck, Pheasant, Field, Dove and Top Gun®**.
- **Federal Premium®** (Integral Base Wad)
- **Remington-Peters.** Same as Mohawk brand shells.
- **Remington-STS Type.** Same as Premier, Nitro 27, GunClub, and Game Loads
- **Winchester AA-Type.** Old and new style hulls are interchangeable.
- **Winchester Polyformed Type (Reifenhauser Tube)** same as **Duck and Pheasant, Dove and Squirrel.**

B. Primers

- **CCI® 109** and **CCI 209** are ballistically identical and can be interchanged.
- **CCI 209M** (Magnum) is "hotter" and cannot be substituted for CCI 109 or 209. Use 209M only as listed.
- **Rem. 209** is "hotter" and cannot be substituted for Rem. 97 or Rem. 209P primer.
- **Rem. 209P** is interchangeable with Rem. 97 primer.
- **Federal 209A** is "hotter" and cannot be substituted for Federal 209.

C. Wads. Card wads and fiber wads are used for certain slug and buckshot loads and a few light shotshell loads. Do not interchange wads.

D. Shot. Use only clean lead shot. DO NOT USE STEEL SHOT IN SHOTSHELL LOADS EXCEPT AS LISTED IN STEEL® SECTION.

E. Shot Buffers. Do not add any buffers or fillers of any kind to shotshell loads listed in this Guide.

F. Cards and Fillers. For revolver, pistol, and rifle cartridge reloading, do not add any cards, kapok, or fillers of any kind to loads listed in this Guide.

⚠ WARNING! BLACK POWDER

BLACK POWDER IS ENTIRELY DIFFERENT FROM SMOKELESS POWDER. NEVER SUBSTITUTE ONE FOR THE OTHER. SMOKELESS POWDERS HAVE MUCH MORE ENERGY THAN BLACK POWDER. NEVER ATTEMPT TO USE SMOKELESS POWDER IN BLACK POWDER GUNS OR SALUTING CANNON; THEY MAY BLOW UP AND CAUSE SERIOUS PERSONAL INJURY (INCLUDING DEATH).

POWDER BUSHING CHARTS

A reloading scale is **required** to check the nominal weight of a powder charge.

Powder bushings can vary in the charge weight they drop and could vary as much as several grains under certain conditions.

Powder density, moisture content, and loading technique can cause a variation from the bushing weights listed on the charts. Also, the loading machine vibration affects charge weights. A complete loading cycle should be completed to ensure an average powder charge weight.

The information in these tables has been supplied by the reloading machine manufacturers or Alliant Powder® and **is not a reloading recommendation**.

Lee Load-All Capacity Bushing Chart (Units shown in grains)																
Bushing #	.095	.100	.105	.110	.116	.122	.128	.134	.141	.148	.155	.163	.171	.180	.189	.198
Red Dot	11.0	11.6	12.2	12.8	13.5	14.2	14.8	15.5	16.4	17.2	18.0	18.9	19.8	20.9	21.9	23.0
Amer. Select	11.6	12.2	12.8	13.4	14.2	14.9	15.6	16.4	17.2	18.1	18.9	19.9	20.9	22.0	23.1	24.2
Green Dot	12.3	13.0	13.6	14.3	15.1	15.8	16.6	17.4	18.3	19.2	20.1	21.2	22.2	23.4	24.5	25.7
Blue Dot	18.0	19.0	19.9	20.8	22.0	23.1	24.3	25.4	26.7	28.0	29.4	30.9	32.4	34.1	35.8	37.5
Unique	14.3	15.0	15.8	16.5	17.4	18.3	19.2	20.1	21.2	22.2	23.3	24.5	25.7	27.0	28.4	29.7
Herco	13.9	14.6	15.3	16.1	16.9	17.8	18.7	19.6	20.6	21.6	22.6	23.8	25.0	26.3	27.6	28.9
2400	21.0	22.1	23.2	24.3	25.6	27.0	28.3	29.6	31.2	32.7	34.3	36.0	37.8	39.8	41.8	43.8

Note: Only available with Lee Load-Fast.

Hornady Powder Bushing Chart for 366 Auto and Apex 91 (Units shown in grains)																		
Grains	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Red Dot			384	393	405	423	438	453	468	480	489	498	510	519				
Amer. Select							417	423	432	447	456	468	477	483				
Green Dot			363	378	390	405	420	435	447	456	468	480	492	501	513	522	534	—
Unique				342	354	369	381	393	405	414	423	435	444	453	465	474	483	492
Herco				357	369	381	393	405	414	426	438	450	462	471	477	489	498	—
Blue Dot									366	372	381	390	396	408	414	423	435	441
2400		256	266	—	291	300	312	324	330	339								
Clay Dot						432	453	468	489	510								

Hornady Powder Bushing Chart for 366 Auto and Apex 91 continued (Units shown in grains)																	
Grains	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
Green Dot	549	558															
Unique	501	—	510														
Herco	513	552	531	—	549	558	564	573	—	588	594						
Blue Dot	447	459	468	474	483	489	495	501	510	516	522	531	534	543	549	555	561

SHOTSHELL RELOADING DATA

NON-TOXIC SHOTSHELL RELOADING

⚠ WARNING! Reloading steel shotshells requires strict adherence to Alliant published reloading specifications. The reloading specifications provided in this publication were derived through the use of controlled laboratory conditions. While reloading steel shotshells, the reloader must adhere precisely to all the components without exception, set forth in the load data and specifications. Alliant recommends that both powder charge and shot charge be individually weighed to insure compliance to load data. Steel shotshells should only be used in well maintained firearms that are designed to shoot steel shot loads. Alliant Powder® recommends that the commercially available shotshell sealant be applied to both the primer and crimp areas to prevent moisture penetration.

REGARDING THE USE OF FILLERS/SPACERS:

Spacer or filler wads serve the purpose of raising the shot column to a level that will allow for the forming of a good crimp. If a filler is required for a particular load, the thickness and location of that filler will be indicated in the “spacer” column. As an example, it might be described in the following manner: 1/8 U, 1/8 O, which means that the two 1/8 inch thick spacers are required; one should be placed in the bottom of the wad cup directly under the shot, and a second one over the shot. Spacers can be stacked if necessary, and the number needed may vary depending on the size of the shot being used. If your crimp dishes in a bit, or bulges, you can add or reduce the number of spacers to improve the crimp. Only slight adjustments, if any, will be necessary for this reason. We do not recommend the use of shot buffer in any of our loads.

NON-TOXIC SHOTSHELL RELOADING DATA

STEEL POWDER FOR RELOADING STEEL SHOT ONLY 10-GAUGE 3 1/2 INCH SHELLS

Shell Type	Wad	Primer	Shot (oz)	Velocity (fps)	Pressure (psi)	Powder (grains)	Spacers
Rem. (yellow base wad)	Precision Reloading TUPRW105	Fed. 209A	1 1/4	1590	9800	50.0	1/2 U
Rem. (yellow base wad)	Ballistics Products #3221000	Fed. 209A	1 5/8	1310	10100	37.0	none
Rem. Plastic SP	Precision Reloading TUPRW105	Fed. 209A	1 3/8	1475	10000	43.5	3/8 U
Rem. Plastic SP	Ballistics Products #3221000	Fed. 209A	1 3/8	1535	10100	46.0	3/8 U
Rem. Plastic SP	Rel Spec “SAM 1 10-ga 3 1/2”	Fed. 209A	1 3/8	1555	10300	48.0	1/4 U
Rem. Plastic SP	Precision Reloading TUPRW105	Fed. 209A	1 1/2	1345	10300	37.5	1/4 U
Rem. Plastic SP	Ballistics Products #3221000	Fed. 209A	1 1/2	1385	10100	39.0	1/4 U
Rem. Plastic SP	Rel Spec “SAM 1 10-ga 3 1/2”	Fed. 209A	1 1/2	1470	10100	45.0	1/8 U
Win. Polyformed	Rel Spec “SAM 1 10-ga 3 1/2”	Fed. 209A	1 3/8	1538	10200	45.5	1/4 U
Win. Polyformed	Rel Spec “SAM 1 10-ga 3 1/2”	Fed. 209A	1 1/2	1415	9900	41.0	1/8 U

STEEL POWDER FOR RELOADING STEEL SHOT ONLY 12-GAUGE 2 3/4 INCH SHELLS

Fed. Gold Medal	Rel Spec “SAM 1 12-ga 2 3/4”	Fed. 209A	7/8	1700	7800	42.0	1/8 U
Fed. Gold Medal	Ballistic Products #3221275	Fed. 209A	7/8	1765	9000	45.0	none
Fed. Gold Medal	Ballistic Products #3221275	Fed. 209A	1	1480	9500	33.0	1/8 U
Fed. Gold Medal	Precision Reloading TUPRW12	Fed. 209A	1	1500	8000	37.0	1/8 U
Fed. Gold Medal	Rel Spec “SAM 1 12-ga 2 3/4”	Fed. 209A	1	1520	9200	36.0	none
Fed. Gold Medal	Rel Spec “SAM 1 12-ga 2 3/4”	Fed. 209A	1 1/8	1380	9000	32.0	none
Fed. Gold Medal	Precision Reloading TUPRW12	Fed. 209A	1 1/8	1425	9600	32.0	none
Rem. Nitro Mag	Precision Reloading TUPRW12	Fed. 209A	1	1520	10800	35.5	none
Rem. Nitro Mag	Rel Spec “SAM 1 12-ga 2 3/4”	Fed. 209A	1	1546	10300	35.5	none
Rem. Nitro Mag	Precision Reloading TUPRW12	Fed. 209A	1 1/8	1361	10400	29.5	none

STEEL POWDER FOR RELOADING STEEL SHOT ONLY 12-GAUGE 3 INCH SHELLS							
Shell Type	Wad	Primer	Shot	Velocity	Pressure	Powder	Spacers
			(oz)	(fps)	(psi)	(grains)	
Rem. Nitro Mag	Rel Spec "SAM 1 12-ga 2 3/4"	Fed. 209A	1 1/8	1428	10400	32.5	none
Fed. 0.090 Intergral BW	Precision Reloading TUPRW123	Fed. 209A	1	1660	9400	44.0	1/4 U
Fed. 0.090 Intergral BW	Ballistic Products #3221230	Fed. 209A	1	1690	10500	45.0	3/8 U
Fed. 0.090 Intergral BW	Reloading Specialties 12-ga 3"	Fed. 209A	1	1720	8900	47.0	3/8 U
Fed. 0.090 Intergral BW	Ballistic Products #3221230	Fed. 209A	1 1/8	1510	10400	37.0	1/4 U
Fed. 0.090 Intergral BW	Precision Reloading TUPRW123	Fed. 209A	1 1/8	1515	10900	38.0	1/4 U
Fed. 0.090 Intergral BW	Reloading Specialties 12-ga 3"	Fed. 209A	1 1/8	1580	10700	40.5	1/8 U
Fed. 0.090 Intergral BW	Precision Reloading TUPRW123	Fed. 209A	1 1/4	1355	10500	33.0	1/8 U
Fed. 0.090 Intergral BW	Ballistic Products #3221230	Fed. 209A	1 1/4	1370	10500	33.0	1/8 U
Fed. 0.090 Intergral BW	Reloading Specialties 12-ga 3"	Fed. 209A	1 1/4	1435	10800	37.0	1/8 U
Fed. Game Load 7/16 BW	Ballistic Products #3221230	Fed. 209A	1	1665	8900	45.0	1/4 U
Fed. Game Load 7/16 BW	Reloading Specialties 12-ga 3"	Fed. 209A	1	1700	8200	48.0	1/4 U
Fed. Game Load 7/16 BW	Ballistic Products #3221230	Fed. 209A	1 1/8	1550	10600	39.5	1/4 U
Fed. Game Load 7/16 BW	Reloading Specialties 12-ga 3"	Fed. 209A	1 1/8	1560	10500	40.5	1/8 U
Fed. Game Load 7/16 BW	Ballistic Products #3221230	Fed. 209A	1 1/4	1390	10900	33.0	1/4 U
Fed. Game Load 7/16 BW	Reloading Specialties 12-ga 3"	Fed. 209A	1 1/4	1430	10500	36.0	none
Rem. Nitro Steel	Ballistic Products #3221230	Fed. 209A	1 1/8	1440	10800	33.5	1/4 U
Rem. Nitro Steel	Precision Reloading TUPRW123	Fed. 209A	1 1/8	1457	10700	35.0	1/4 U
Rem. Nitro Steel	Reloading Specialties 12-ga 3"	Fed. 209A	1 1/8	1479	10600	33.0	1/4 U
Rem. Nitro Steel	Precision Reloading TUPRW123	Fed. 209A	1 1/4	1392	10700	32.0	1/8 U
STEEL POWDER FOR RELOADING STEEL SHOT ONLY 12-GAUGE 3 1/2 INCH SHELLS							
Fed. Intergral BW	Reloading Specialties "Sam 1"	Fed. 209A	1 1/4	1510	10400	45.0	3/8 U
Fed. Intergral BW	Ballistic Products mm 12312	Fed. 209A	1 1/4	1560	10900	45.0	1/8 U
Fed. Intergral BW	Precision Reloading TUPRW1235	Fed. 209A	1 1/4	1565	10700	45.0	1/2 U
Fed. Intergral BW	Precision Reloading TUPRW1235	Fed. 209A	1 3/8	1470	12500	40.0	3/8 U
Fed. Intergral BW	Ballistic Products mm 12312	Fed. 209A	1 3/8	1485	12600	41.5	3/8 U
Fed. Intergral BW	Precision Reloading TUPRW1235	Fed. 209A	1 1/2	1360	12600	36.0	3/8 U
Fed. Intergral BW	Ballistic Products mm 12312	Fed. 209A	1 1/2	1385	12800	37.0	1/4 U
Fed. Intergral BW	Reloading Specialties "Sam 1"	Fed. 209A	1 1/2	1390	13300	39.0	1/4 U
Rem. Plastic SP	Reloading Specialties "Sam 1"	Fed. 209A	1 1/4	1595	13100	45.0	3/8 U
Rem. Plastic SP	Ballistic Products mm 12312	Fed. 209A	1 1/4	1615	13300	45.0	3/8 U
Rem. Plastic SP	Ballistic Products mm 12312	Fed. 209A	1 3/8	1430	12800	37.0	1/4 U
Rem. Plastic SP	Reloading Specialties "Sam 1"	Fed. 209A	1 3/8	1430	12800	38.5	3/8 U
Rem. Plastic SP	Ballistic Products mm 12312	Fed. 209A	1 1/2	1305	13000	33.0	1/4 U
Rem. Plastic SP	Reloading Specialties "Sam 1"	Fed. 209A	1 1/2	1330	13000	35.0	1/4 U

BLUE DOT POWDER FOR RELOADING BISMUTH SHOT ONLY 12-GAUGE 2 3/4 INCH SHELLS							
Shell Type	Wad	Primer	Shot	Velocity	Pressure	Powder	Spacers
			(oz)	(fps)	(psi)	(grains)	
Rem. Premier STS	CB 1138-12	Fed. 209A	1 1/4	1421	10100	39.5	none
BLUE DOT POWDER FOR RELOADING BISMUTH SHOT ONLY 12-GAUGE 3 INCH SHELLS							
Fed. 0.090 Intergral BW	Rem. SP 12	Fed. 209A	1 3/8	1507	10700	46.0	1/8 O
Fed. 0.090 Intergral BW	Fed. 12S4	Fed. 209A	1 1/2	1310	10100	38.0	none
Fed. 0.090 Intergral BW	Rem. RP 12	Fed. 209A	1 1/2	1359	10800	40.0	1/4 O
Fed. 7/16 Paper BW	Rem. SP 12	Fed. 209A	1 3/8	1464	10700	43.5	1/4 O
Fed. 7/16 Paper BW	Rem. RP 12	Fed. 209A	1 1/2	1347	10400	39.0	1/8 O
Rem. SPELV Yellow BW	Rem. RP 12	Fed. 209A	1 3/8	1473	10700	44.0	1/8 O
Rem. SPELV Yellow BW	Rem. SP 12	Fed. 209A	1 3/8	1564	10700	50.0	none
Rem. SPELV Yellow BW	Rem. RP 12	Fed. 209A	1 1/2	1441	10700	45.0	none
STEEL POWDER FOR RELOADING HEVI SHOT SHOT ONLY 12-GAUGE 2 3/4 INCH SHELLS							
Fed. 7/16 Paper BW	Prec Rel TUPRWIZ (white)	Fed. 209A	1 3/8	1320	10600	33.5	1/8 O, 1/4 U
Rem. SPELV Yellow BW	Prec Rel TUPRWIZ (white)	Fed. 209A	1 1/4	1367	10900	32.2	1/4 O, 1/4 U
Rem. SPELV Yellow BW	Prec Rel TUPRWIZ (white)	Fed. 209A	1 3/8	1291	10400	31.3	1/8 O, 1/4 U
STEEL POWDER FOR RELOADING HEVI SHOT SHOT ONLY 12-GAUGE 3 INCH SHELLS							
Fed. 0.090 Intergral BW	Prec Rel TUPR23 (Orange)	Fed. 209A	1 3/8	1372	10300	40.0	3/8 U
Fed. 0.090 Intergral BW	Prec Rel TUPR23 (Orange)	Fed. 209A	1 1/2	1294	10900	34.0	3/8 U
Fed. 7/16 Paper BW	Prec Rel TUPR23 (Orange)	Fed. 209A	1 3/8	1371	10600	36.5	3/8 U
Fed. 7/16 Paper BW	Prec Rel TUPR23 (Orange)	Fed. 209A	1 1/2	1274	10500	33.0	1/4 U
Rem. SPELV Yellow BW	Prec Rel TUPR23 (Orange)	Fed. 209A	1 1/4	1462	10300	40.0	3/8 U
Rem. SPELV Yellow BW	Prec Rel TUPR23 (Orange)	Fed. 209A	1 3/8	1385	10900	37.5	3/8 U
Rem. SPELV Yellow BW	Prec Rel TUPR23 (Orange)	Fed. 209A	1 1/2	1259	10900	33.0	1/4 U

INTERNATIONAL LOADS

24-GRAM INTERNATIONAL TARGET LOADS

12-Gauge 2 3/4 inch Federal Gold Medal Plastic

Shot	Velocity	Wad	Primer	Red Dot	American Select
(gram)	(fps)			(grains)	(psi)
24	1345	CB 1100-12	Fed. 209A	20.0	8700
24	1345	Fed. 12S0	Fed. 209A	20.0	8900
24	1345	Purple PC	Fed. 209A	19.5	8700
24	1345	Rem. TGT 12 & DRRT12	Fed. 209A	20.5	8900
24	1345	WAA12L (Gray)	Fed. 209A	20.0	9000

12-Gauge 2 3/4 inch Fiocchi Plastic							
Shot	Velocity	Wad	Primer	Red Dot		American Select	
(gram)	(fps)			(grains)	(psi)	(grains)	(psi)
24	1345	Fed. 12SO	Fio. 616	20.5	8700	22.0	7800
24	1345	Purple PC	Fio. 616			22.5	6900
24	1345	Rem. TGT 12 & DRRT12	Fio. 616	20.5	8200	22.0	7600
24	1345	WAA12L (Gray)	Fio. 616	21.0	8500	22.0	7500
12-Gauge 2 3/4 inch Remington Premier, STS Plastic							
24	1345	CB 1100-12	Rem. 209P	20.5	8800	20.5	8700
24	1345	Fed. 12SO	Rem. 209P	20.0	9800	20.5	9600
24	1345	Purple PC	Rem. 209P	20.5	8300	21.0	8100
24	1345	Rem. TGT 12 & DRRT12	Rem. 209P	20.5	9200	20.5	8500
24	1345	WAA12L (Gray)	Rem. 209P	20.5	9800	20.5	8700
12-Gauge 2 3/4 inch Winchester Plastic							
24	1345	CB 1100-12	Win. 209	20.0	9600	20.5	8700
24	1345	Fed. 12SO	Win. 209	20.0	10100	20.5	9100
24	1345	Purple PC	Win. 209	20.0	9000	21.0	8100
24	1345	Rem. TGT 12 & DRRT12	Win. 209	20.0	9600	20.5	8600
24	1345	WAA12L (Gray)	Win. 209	20.0	10200	20.5	9700
28-GRAM INTERNATIONAL TARGET LOADS							
12-Gauge 2 3/4 inch Federal Gold Medal Plastic							
Shot	Velocity	Wad	Primer	Red Dot		Green Dot	
(gram)	(fps)			(grains)	(psi)	(grains)	(psi)
28	1345	Fed. 12SO	Fed. 209A	23.0	9900	24.5	9100
28	1345	Purple PC	Fed. 209A	23.0	8800	25.0	8200
28	1345	Rem. Figure 8 & DRRF8	Fed. 209A	22.5	9500	25.0	8400
28	1345	WAA12SL	Fed. 209A	22.5	9600	24.5	8400
12-Gauge 2 3/4 inch Fiocchi Plastic							
28	1345	Fed. 12S3 & DRF3	Fio. 616	22.0	9600	24.0	8800
28	1345	Purple PC	Fio. 616	22.5	9500	24.0	8800
28	1345	Rem. Figure 8 & DRRF8	Fio. 616	21.5	9700	24.0	8800
28	1345	WAA12SL	Fio. 616	21.5	10400	24.0	8800
12-Gauge 2 3/4 inch Remington Premier, STS							
28	1345	Fed. 12S3 & DRF3	Rem. 209P			23.0	10300
28	1345	Purple PC	Rem. 209P	21.5	10600	24.0	9900
28	1345	Rem. Figure 8 & DRRF8	Rem. 209P	21.5	10600	23.0	9700
28	1345	WAA12SL	Rem. 209P			23.0	10100

12-Gauge 2 3/4 inch Winchester Plastic

Shot Weight	Velocity	Wad	Primer	Red Dot	Green Dot
(gram)	(fps)			(grains) (psi)	(grains) (psi)
28	1345	Purple PC	Win. 209		23.0 9500
28	1345	Rem. Figure 8 & DRRF8	Win. 209		22.5 10600

10-GAUGE RELOADING DATA

10-Gauge 3 1/2 inch Federal Plastic with Paper Base Wad

Shot	Powder	Primer	Wad	Spacers	Charge Weight	Velocity	Pressure
(oz)					(grains)	(fps)	(psi)
1 1/4	Green Dot	CCI 209M	Rem. SP 10	(6) 0.135	29.5	1265	8300
1 1/4	Green Dot	Win. 209	Rem. SP 10	(6) 0.135	29.0	1265	8800
1 5/8	Herco	CCI 209M	Rem. SP 10	(4) 0.135	36.0	1285	10300
1 5/8	Blue Dot	CCI 209M	Rem. SP 10	(4) 0.135	45.0	1285	8000
1 5/8	Blue Dot	Win. 209	Rem. SP 10	(4) 0.135	45.5	1285	8300
1 7/8	Blue Dot	CCI 209M	Rem. SP 10	(3) 0.135	45.5	1270	9900
1 7/8	Blue Dot	Win. 209	Rem. SP 10	(3) 0.135	45.5	1270	10200
2	Blue Dot	CCI 209M	Rem. SP 10	(2) 0.135	43.5	1210	9200
2	Blue Dot	Win. 209	Rem. SP 10	(2) 0.135	44.0	1210	9400
2 1/4	Blue Dot	CCI 209M	Rem. SP 10	(1) 0.135	42.0	1165	9800
2 1/4	Blue Dot	Win. 209	Rem. SP 10	(1) 0.135	42.5	1165	10200

10-Gauge 3 1/2 inch Remington SP

1 1/4	Green Dot	CCI 209M	Rem. SP 10	(6) 0.135	28.5	1265	8800
1 1/4	Green Dot	Win. 209	Rem. SP 10	(6) 0.135	29.0	1265	8800
1 1/4	Unique	CCI 209M	Rem. SP 10	(6) 0.135	31.0	1265	7500
1 1/4	Unique	Win. 209	Rem. SP 10	(6) 0.135	31.0	1265	7600
1 5/8	Blue Dot	CCI 209M	Rem. SP 10	(4) 0.135	43.5	1285	8500
1 5/8	Blue Dot	Win. 209	Rem. SP 10	(4) 0.135	44.0	1285	8500
1 7/8	Blue Dot	CCI 209M	Rem. SP 10	(3) 0.135	44.0	1270	9800
1 7/8	Blue Dot	Win. 209	Rem. SP 10	(3) 0.135	44.5	1270	9100
2	Blue Dot	CCI 209M	Rem. SP 10	(2) 0.135	42.0	1210	10400
2	Blue Dot	Win. 209	Rem. SP 10	(2) 0.135	42.5	1210	10100
2 1/4	Blue Dot	CCI 209M	Rem. SP 10	none	40.5	1165	10400
2 1/4	Blue Dot	Win. 209	Rem. SP 10	none	41.0	1165	10500

10-Gauge 3 1/2 inch Winchester Polyformed with Plastic Base Wad

1 1/4	Green Dot	CCI 209M	Rem. SP 10	(5) 0.135	28.0	1265	8500
1 1/4	Green Dot	Win. 209	Rem. SP 10	(5) 0.135	28.5	1265	8600
1 5/8	Herco	CCI 209M	Rem. SP 10	(3) 0.135	35.5	1285	10400
1 5/8	Blue Dot	CCI 209M	Rem. SP 10	(3) 0.135	44.5	1285	8700

10-Gauge 3 1/2 inch Winchester Polyformed with Plastic Base Wad continued

Shot	Powder	Primer	Wad	Spacers	Charge Weight	Velocity	Pressure
(oz)					(grains)	(fps)	(psi)
1 5/8	Blue Dot	Win. 209	Rem. SP 10	(3) 0.135	45.0	1285	8800
1 7/8	Blue Dot	CCI 209M	Rem. SP 10	(2) 0.135	45.0	1270	9800
1 7/8	Blue Dot	Win. 209	Rem. SP 10	(2) 0.135	45.5	1270	10200
2	Blue Dot	CCI 209M	Rem. SP 10	(1) 0.135	43.0	1210	9400
2	Blue Dot	Win. 209	Rem. SP 10	(1) 0.135	43.5	1210	9500
2 1/4	Blue Dot	CCI 209M	Rem. SP 10	none	41.5	1165	10500
2 1/4	Blue Dot	Win. 209	Rem. SP 10	none	42.0	1165	10500

12-GAUGE RELOADING DATA

12-GAUGE 2 3/4 INCH CHEDDITE PLASTIC

12-Gauge 1 and 1 1/8 Ounce Target Loads

Shot	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
(oz)				1145 fps	1200 fps	1255 fps	1300 fps
1	Red Dot	Cheddite	12S0		19.0 grs 7800 psi	20.0 grs 8700 psi	21.0 grs 9300 psi
1	Amer. Select	Cheddite	12S0		20.0 grs 6200 psi	21.5 grs 7000 psi	22.5 grs 7600 psi
1	Green Dot	Cheddite	12S0		21.5 grs 6900 psi	23.0 grs 7800 psi	24.0 grs 8300 psi
1 1/8	Red Dot	Cheddite	12S3 & DRF3	18.0 grs 9000 psi	19.5 grs 9600 psi		
1 1/8	Red Dot	Cheddite	RXP 12	18.0 grs 8500 psi	19.5 grs 8800 psi		
1 1/8	Amer. Select	Cheddite	12S3 & DRF3	19.0 grs 7600 psi	20.5 grs 8800 psi		
1 1/8	Amer. Select	Cheddite	RXP 12	19.5 grs 7200 psi	20.5 grs 7600 psi		
1 1/8	Green Dot	Cheddite	12S3 & DRF3	20.0 grs 7500 psi	21.5 grs 8300 psi		
1 1/8	Green Dot	Cheddite	RXP 12	20.5 grs 7100 psi	22.0 grs 7800 psi		

12-GAUGE 2 3/4 INCH REMINGTON PLASTIC SHELLS (STS, NITRO 27, PREMIER RXP AND GUN CLUB)

12-Gauge 7/8 and 1 Ounce Target Loads

Shot	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
(oz)				1150 fps	1200 fps	1250 fps	1310 fps
7/8	Red Dot	Rem. 209P	CB 4100-12B		17.5 grs 7100 psi	18.0 grs 7400 psi	19.0 grs 8100 psi
7/8	Red Dot	Rem. 209P	Purple PC		17.5 grs 6800 psi	18.5 grs 6900 psi	20.0 grs 7500 psi
7/8	Red Dot	Rem. 209P	TGT 12 & DRRT12		17.0 grs 6800 psi	18.5 grs 7100 psi	20.5 grs 8200 psi
7/8	Red Dot	Rem. 209P	WAA12L & DRXXL		16.5 grs 8000 psi	17.5 grs 8700 psi	18.5 grs 9100 psi
7/8	Red Dot	Rem. 209P	WAA12SL & DRXL-1 & Jammer XL-1		17.0 grs 7000 psi	18.5 grs 7800 psi	20.5 grs 8000 psi
7/8	e3	Rem. 209P	WAA12L & DRXXL		16.0 grs 7265 psi	17.0 grs 7655 psi	18.0 grs 8525 psi

12-GAUGE 2 3/4 INCH REMINGTON PLASTIC SHELLS (STS, NITRO 27, PREMIER RXP AND GUN CLUB)

12-Gauge 7/8 and 1 Ounce Target Loads continued

Shot	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
				(oz)	1150 fps	1200 fps	1250 fps
7/8	e3	Rem. 209P	CB 4100-12B		16.2 grs 6195 psi	17.2 grs 7045 psi	18.2 grs 7580 psi
7/8	e3	Rem. 209P	TGT 12 & DRRT12			17.0 grs 7820 psi	17.8 grs 8585 psi
7/8	Clay Dot	Rem. 209P	CB 4100-12B		17.5 grs 5400 psi	18.5 grs 5760 psi	19.0 grs 7020 psi
7/8	Clay Dot	Rem. 209P	TGT 12 & DRRT12		17.0 grs 6490 psi	17.5 grs 6910 psi	18.5 grs 7770 psi
7/8	Clay Dot	Rem. 209P	CB 0178		17.5 grs 5916 psi	18.0 grs 6060 psi	18.5 grs 6544 psi
7/8	Amer. Select	Rem. 209P	CB 4100-12B		18.9 grs 5200 psi	19.6 grs 5900 psi	20.5 grs 6700 psi
7/8	Amer. Select	Rem. 209P	TGT 12 & DRRT12				20.5 grs 7000 psi
7/8	Amer. Select	Rem. 209P	WAA12L & DRXXL		18.0 grs 5.800 psi	19.0 grs 6800 psi	20.0 grs 7200 psi
7/8	Amer. Select	Rem. 209P	WAA12SL & DRXL-1 & Jammer XL-1				20.5 grs 7900 psi
7/8	Amer. Select	Rem. 209P	CB 1100-12				20.5 grs 6900 psi
7/8	Green Dot	Rem. 209P	TGT 12 & DRRT12				22.0 grs 7100 psi
7/8	Promo	Rem. 209P	CB 4100-12B		17.5 grs 7100 psi	18.0 grs 7400 psi	19.0 grs 8100 psi
7/8	Promo	Rem. 209P	Purple PC		17.5 grs 6800 psi	18.5 grs 6900 psi	20.0 grs 7500 psi
7/8	Promo	Rem. 209P	TGT 12 & DRRT12		17.0 grs 6800 psi	18.5 grs 7100 psi	20.5 grs 8200 psi
7/8	Promo	Rem. 209P	WAA12L & DRXXL		16.5 grs 8000 psi	17.5 grs 8700 psi	18.5 grs 9100 psi
7/8	Promo	Rem. 209P	WAA12SL & DRXL-1 & Jammer XL-1		17.0 grs 7000 psi	18.5 grs 7800 psi	20.5 grs 8000 psi
1	Clay Dot	Rem. 209P	CB 4100-12B		17.5 grs 6800 psi	18.5 grs 7940 psi	19.5 grs 9050 psi
1	Clay Dot	Rem. 209P	TGT 12 & DRRT12		17.5 grs 7930 psi	18.5 grs 9080 psi	19.5 grs 10070 psi
1	Clay Dot	Fed. 209A	WAA12SL		16.5 grs 8240 psi	17.7 grs 8800 psi	
1	Clay Dot	Win. 209	WAA12SL		17.0 grs 7860 psi	18.4 grs 8980 psi	
1	Clay Dot	Win. 209	TGT 12 & DRRT12		17.6 grs 7590 psi	18.8 grs 8890 psi	
1	e3	Rem. 209P	WAA12L & DRXXL	15.5 grs 8950 psi	16.5 grs 10015 psi	17.5 grs 10530 psi	
1	e3	Rem. 209P	CB 1100-12	16.0 grs 7730 psi	17.0 grs 8730 psi	18.0 grs 9540 psi	19.0 grs 10040 psi
1	e3	Rem. 209P	TGT 12 & DRRT12	16.0 grs 7970 psi	16.9 grs 8550 psi	18.0 grs 9710 psi	19.0 grs 10850 psi
1	e3	Rem. 209P	Green Duster		17.0 grs 9455 psi	17.5 grs 10970 psi	
1	Red Dot	Rem. 209P	CB 1100-12	16.5 grs 7400 psi	17.8 grs 8000 psi	18.7 grs 8800 psi	19.7 grs 9400 psi
1	Red Dot	Rem. 209P	TGT 12 & DRRT12	17.0 grs 8300 psi	18.0 grs 8700 psi	19.0 grs 9500 psi	21.0 grs 10700 psi
1	Red Dot	Rem. 209P	WAA12L & DRXXL	16.5 grs 8100 psi	18.0 grs 9600 psi		
1	Red Dot	Rem. 209P	WAA12SL & DRXL-1 & Jammer XL-1			19.5 grs 10100 psi	20.5 grs 10400 psi

12-GAUGE 2 3/4 INCH REMINGTON PLASTIC SHELLS (STS, NITRO 27, PREMIER RXP AND GUN CLUB)

12-Gauge 7/8 and 1 Ounce Target Loads continued

Shot	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
				(oz)	1150 fps	1200 fps	1250 fps
1	Red Dot	Rem. 209P	Purple PC		18.5 grs 8300 psi	19.5 grs 8900 psi	20.5 grs 9100 psi
1	Red Dot	Rem. 209P	Green Duster		17.5 grs 10000 psi	18.5 grs 10900 psi	
1	Red Dot	Rem. 209P	Rem. R12L				20.5 grs 9900 psi
1	Red Dot	Rem. 209P	Figure 8 & DRRF8				21.5 grs 9100 psi
1	Red Dot	CCI 209M	Rem. R12L				20.0 grs 10300 psi
1	Red Dot	Win. 209	Rem. R12L				20.0 grs 10100 psi
1	Amer. Select	Rem. 209P	TGT 12 & DRRT12	17.0 grs 6900 psi	19.0 grs 7000 psi	20.5 grs 8000 psi	22.5 grs 8700 psi
1	Amer. Select	Rem. 209P	WAA12L & DRXXL	17.0 grs 7500 psi			
1	Amer. Select	Rem. 209P	CB 1100-12		19.5 grs 7500 psi	20.5 grs 8000 psi	22.5 grs 8500 psi
1	Amer. Select	Rem. 209P	Green Duster		19.0 grs 7700 psi	20.0 grs 8400 psi	
1	Amer. Select	Rem. 209P	WAA12SL & DRXL-1 & Jammer XL-1		19.0 grs 7600 psi	20.5 grs 8700 psi	21.5 grs 9200 psi
1	Green Dot	Rem. 209P	CB 1100-12	18.5 grs 7000 psi	19.2 grs 7500 psi	21.0 grs 8300 psi	22.0 grs 8500 psi
1	Green Dot	Rem. 209P	TGT 12 & DRRT12	18.0 grs 6600 psi	20.0 grs 8200 psi	21.0 grs 8500 psi	22.5 grs 8900 psi
1	Green Dot	Rem. 209P	WAA12L & DRXXL	18.0 grs 6300 psi			
1	Green Dot	Rem. 209P	Green Duster		19.5 grs 7500 psi	22.0 grs 8800 psi	
1	Green Dot	Rem. 209P	Purple PC		20.5 grs 7000 psi	21.5 grs 8500 psi	22.5 grs 8900 psi
1	Green Dot	Rem. 209P	WAA12SL & DRXL-1 & Jammer XL-1		19.5 grs 8600 psi	21.5 grs 8900 psi	22.5 grs 9000 psi
1	Green Dot	CCI 209M	Rem. R12L				22.0 grs 9100 psi
1	Green Dot	Win. 209	Rem. R12L				22.0 grs 8700 psi
1	Promo	Rem. 209P	CB 1100-12	16.5 grs 7400 psi	17.8 grs 8000 psi	18.7 grs 8800 psi	19.7 grs 9400 psi
1	Promo	Rem. 209P	TGT 12 & DRRT12	17.0 grs 8300 psi	18.0 grs 8700 psi	19.0 grs 9500 psi	21.0 grs 10700 psi
1	Promo	Rem. 209P	WAA12L & DRXXL	16.5 grs 8100 psi	18.0 grs 9600 psi		
1	Promo	Rem. 209P	WAA12SL & DRXL-1 & Jammer XL-1			19.5 grs 10100 psi	20.5 grs 10400 psi
1	Promo	Rem. 209P	Purple PC		18.5 grs 8300 psi	19.5 grs 8900 psi	20.5 grs 9100 psi
1	Promo	Rem. 209P	Green Duster		17.5 grs 10000 psi	18.5 grs 10900 psi	
1	Promo	Rem. 209P	Rem. R12L				20.5 grs 9900 psi
1	Promo	Rem. 209P	Figure 8 & DRRF8				21.5 grs 9100 psi
1	Promo	CCI 209M	Rem. R12L				20.0 grs 10300 psi
1	Promo	Win. 209	Rem. R12L				20.0 grs 10100 psi

12-GAUGE 2 3/4 INCH REMINGTON PLASTIC SHELLS (STS, NITRO 27, PREMIER RXP AND GUN CLUB)

12-Gauge 1 1/8 Ounce Target Loads

Shot	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
				(oz)	1090 fps	1145 fps	1200 fps
1 1/8	Clay Dot	Rem. 209P	WAA12 & DRA12 & DRXL 1 1/8		17.7 grs 10230 psi	18.8 grs 10870 psi	
1 1/8	Clay Dot	Rem. 209P	Figure 8 & DRRF8		17.5 grs 10270 psi		
1 1/8	Clay Dot	Fed. 209A	WAA12 & DRA12 & DRXL 1 1/8		16.6 grs 9770 psi		
1 1/8	Clay Dot	Fed. 209A	Figure 8 & DRRF8		16.9 grs 9570 psi		
1 1/8	Clay Dot	Win. 209	WAA12 & DRA12 & DRXL 1 1/8		17.3 grs 9520 psi		
1 1/8	Clay Dot	Win. 209	Figure 8 & DRRF8		17.5 grs 9260 psi		
1 1/8	Clay Dot	CCI 209M	Figure 8 & DRRF8		17.5 grs 10850 psi		
1 1/8	Clay Dot	CCI 209	Figure 8 & DRRF8		17.5 grs 9020 psi		
1 1/8	e3	Rem. 209P	RXP 12	15.0 grs 8655 psi	16.3 grs 9465 psi	17.9 grs 10660 psi	
1 1/8	e3	Rem. 209P	Figure 8 & DRRF8	15.0 grs 8760 psi	16.5 grs 9930 psi	17.5 grs 10775 psi	
1 1/8	e3	Rem. 209P	WAA12 & DRA12 & DRXL 1 1/8	15.0 grs 9175 psi	16.0 grs 10170 psi	17.2 grs 10960 psi	
1 1/8	e3	Rem. 209P	CB 0118	15.4 grs 8075 psi	16.2 grs 8640 psi	17.7 grs 10575 psi	
1 1/8	e3	Rem. 209P	CB 4118	15.5 grs 7950 psi	16.5 grs 9390 psi	18.0 grs 10710 psi	
1 1/8	Red Dot	Rem. 209P	Versalite		17.5 grs 9000 psi		
1 1/8	Red Dot	Rem. 209P	CB 3118-12	16.2 grs 8600 psi	17.0 grs 8800 psi	18.5 grs 9800 psi	
1 1/8	Red Dot	Rem. 209P	Blue Duster	16.0 grs 9700 psi	17.0 grs 9800 psi	18.5 grs 10300 psi	
1 1/8	Red Dot	Rem. 209P	Red PC	16.5 grs 8700 psi	17.5 grs 9000 psi	19.5 grs 10100 psi	
1 1/8	Red Dot	Rem. 209P	Figure 8 & DRRF8	16.5 grs 8300 psi	18.0 grs 9200 psi	19.0 grs 10100 psi	
1 1/8	Red Dot	Rem. 209P	RXP 12	16.0 grs 8700 psi	17.5 grs 8900 psi	19.0 grs 10000 psi	
1 1/8	Red Dot	Rem. 209P	WAA12 & DRA12 & DRXL 1 1/8	16.0 grs 9400 psi	17.0 grs 10100 psi	18.3 grs 10300 psi	
1 1/8	Red Dot	Rem. 209P	WT-12	15.5 grs 9000 psi	18.5 grs 8800 psi	19.5 grs 10700 psi	
1 1/8	Red Dot	Rem. 209P	Windjammer	16.5 grs 7900 psi	17.5 grs 8900 psi	18.5 grs 9400 psi	
1 1/8	Red Dot	CCI 209M	Versalite		17.0 grs 9100 psi	19.0 grs 10400 psi	
1 1/8	Red Dot	CCI 209M	Red PC	16.5 grs 9200 psi	17.5 grs 9400 psi	19.0 grs 10400 psi	
1 1/8	Red Dot	CCI 209M	Figure 8 & DRRF8	16.5 grs 9100 psi	17.5 grs 9300 psi	18.5 grs 10400 psi	
1 1/8	Red Dot	CCI 209M	RXP 12	16.0 grs 9300 psi	17.0 grs 9600 psi	18.5 grs 10500 psi	
1 1/8	Red Dot	CCI 209M	WAA12 & DRA12 & DRXL 1 1/8	16.0 grs 9800 psi	16.5 grs 10200 psi		
1 1/8	Red Dot	CCI 209M	Windjammer	16.5 grs 8300 psi	17.0 grs 9000 psi	18.5 grs 9700 psi	
1 1/8	Red Dot	Fio. 616	Figure 8 & DRRF8	16.5 grs 9000 psi	17.5 grs 8900 psi	19.5 grs 10600 psi	
1 1/8	Red Dot	Win. 209	Figure 8 & DRRF8	16.5 grs 8900 psi	18.0 grs 9500 psi	19.0 grs 10400 psi	
1 1/8	Red Dot	CCI 209	Figure 8 & DRRF8		17.5 grs 8600 psi	19.5 grs 9900 psi	
1 1/8	Red Dot	Fed. 209A	Red PC		17.0 grs 10700 psi		

12-GAUGE 2 3/4 INCH REMINGTON PLASTIC SHELLS (STS, NITRO 27, PREMIER RXP AND GUN CLUB)

12-Gauge 1 1/8 Ounce Target Loads continued

Shot	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
				(oz)	1090 fps	1145 fps	1200 fps
1 1/8	Red Dot	Fed. 209A	Figure 8 & DRRF8		16.5 grs 10300 psi	17.0 grs 10400 psi	
1 1/8	Red Dot	Fed. 209A	RXP 12		16.0 grs 10600 psi	17.0 grs 10100 psi	
1 1/8	Red Dot	Fed. 209A	WAA12 & DRA12 & DRXL 1 1/8		17.5 grs 10500 psi		
1 1/8	Green Dot	Rem. 209P	CB 3118-12	17.5 grs 7800 psi	19.0 grs 8700 psi	20.3 grs 9700 psi	21.0 grs 9800 psi
1 1/8	Green Dot	Rem. 209P	Blue Duster	17.5 grs 8200 psi	18.5 grs 9000 psi	20.0 grs 9800 psi	21.5 grs 10300 psi
1 1/8	Green Dot	Rem. 209P	Versalite		19.0 grs 8000 psi	20.0 grs 8700 psi	
1 1/8	Green Dot	Rem. 209P	Red PC		19.0 grs 7600 psi	21.0 grs 8500 psi	
1 1/8	Green Dot	Rem. 209P	Figure 8 & DRRF8	18.5 grs 7300 psi	19.0 grs 8500 psi	21.0 grs 8800 psi	21.5 grs 10700 psi
1 1/8	Green Dot	Rem. 209P	RXP 12	18.0 grs 7700 psi	19.0 grs 8700 psi	20.5 grs 8700 psi	
1 1/8	Green Dot	Rem. 209P	WAA12 & DRA12 & DRXL 1 1/8	18.0 grs 6700 psi	19.0 grs 8500 psi	21.0 grs 8900 psi	21.1 grs 10000 psi
1 1/8	Green Dot	Rem. 209P	WT-12	18.0 grs 8100 psi	19.5 grs 8300 psi	21.5 grs 8700 psi	22.0 grs 10600 psi
1 1/8	Green Dot	Rem. 209P	Windjammer	18.0 grs 7300 psi	19.5 grs 7800 psi	20.5 grs 8200 psi	
1 1/8	Green Dot	Win. 209	Figure 8 & DRRF8		19.0 grs 8100 psi	20.0 grs 8600 psi	
1 1/8	Green Dot	Win. 209	RXP 12				22.0 grs 9400 psi
1 1/8	Green Dot	CCI 209M	Versalite		19.0 grs 8000 psi	20.0 grs 9200 psi	21.5 grs 10200 psi
1 1/8	Green Dot	CCI 209M	Red PC	18.0 grs 7400 psi	19.0 grs 7700 psi	20.5 grs 9000 psi	22.0 grs 9600 psi
1 1/8	Green Dot	CCI 209M	Figure 8 & DRRF8	18.0 grs 8400 psi	19.0 grs 8800 psi	20.0 grs 9300 psi	
1 1/8	Green Dot	CCI 209M	RXP 12	17.5 grs 8600 psi	19.0 grs 9100 psi	20.5 grs 9200 psi	22.0 grs 9600 psi
1 1/8	Green Dot	CCI 209M	WAA12 & DRA12 & DRXL 1 1/8	17.0 grs 8700 psi	19.0 grs 9400 psi	21.0 grs 9600 psi	22.5 grs 10700 psi
1 1/8	Green Dot	CCI 209M	Windjammer	18.0 grs 7600 psi	19.5 grs 7900 psi	20.5 grs 8700 psi	22.0 grs 9400 psi
1 1/8	Green Dot	CCI 209	Figure 8 & DRRF8		19.5 grs 7100 psi	21.0 grs 9700 psi	
1 1/8	Green Dot	Fed. 209A	Red PC		19.5 grs 10000 psi		
1 1/8	Green Dot	Fed. 209A	Figure 8 & DRRF8		19.5 grs 10100 psi	20.5 grs 10300 psi	
1 1/8	Green Dot	Fed. 209A	RXP 12		19.5 grs 10500 psi	21.0 grs 10400 psi	
1 1/8	Green Dot	Fed. 209A	Windjammer		20.0 grs 9600 psi		
1 1/8	Green Dot	Fio. 616	Figure 8 & DRRF8		19.0 grs 7800 psi	20.0 grs 8700 psi	
1 1/8	Green Dot	Fio. 616	RXP 12				22.0 grs 9100 psi
1 1/8	Promo	Rem. 209P	Versalite		17.5 grs 9000 psi		
1 1/8	Promo	Rem. 209P	CB 3118-12	16.2 grs 8600 psi	17.0 grs 8800 psi	18.5 grs 9800 psi	
1 1/8	Promo	Rem. 209P	Blue Duster	16.0 grs 9700 psi	17.0 grs 9800 psi	18.5 grs 10300 psi	
1 1/8	Promo	Rem. 209P	Red PC	16.5 grs 8700 psi	17.5 grs 9000 psi	19.5 grs 10100 psi	
1 1/8	Promo	Rem. 209P	Figure 8 & DRRF8	16.5 grs 8300 psi	18.0 grs 9200 psi	19.0 grs 10100 psi	
1 1/8	Promo	Rem. 209P	RXP 12	16.0 grs 8700 psi	17.5 grs 8900 psi	19.0 grs 10000 psi	

12-GAUGE 2 3/4 INCH REMINGTON PLASTIC SHELLS (STS, NITRO 27, PREMIER RXP AND GUN CLUB)

12-Gauge 1 1/8 Ounce Target Loads continued

Shot	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
				(oz)	1090 fps	1145 fps	1200 fps
1 1/8	Promo	Rem. 209P	WAA12 & DRA12 & DRXL 1 1/8	16.0 grs 9400 psi	17.0 grs 10100 psi	18.3 grs 10300 psi	
1 1/8	Promo	Rem. 209P	WT-12	15.5 grs 9000 psi	18.5 grs 8800 psi	19.5 grs 10700 psi	
1 1/8	Promo	Rem. 209P	Windjammer	16.5 grs 7900 psi	17.5 grs 8900 psi	18.5 grs 9400 psi	
1 1/8	Promo	CCI 209M	Versalite		17.0 grs 9100 psi	19.0 grs 10400 psi	
1 1/8	Promo	CCI 209M	Red PC	16.5 grs 9200 psi	17.5 grs 9400 psi	19.0 grs 10400 psi	
1 1/8	Promo	CCI 209M	Figure 8 & DRRF8	16.5 grs 9100 psi	17.5 grs 9300 psi	18.5 grs 10400 psi	
1 1/8	Promo	CCI 209M	RXP 12	16.0 grs 9300 psi	17.0 grs 9600 psi	18.5 grs 10500 psi	
1 1/8	Promo	CCI 209M	WAA12 & DRA12 & DRXL 1 1/8	16.0 grs 9800 psi	16.5 grs 10200 psi		
1 1/8	Promo	CCI 209M	Windjammer	16.5 grs 8300 psi	17.0 grs 9000 psi	18.5 grs 9700 psi	
1 1/8	Promo	Fio. 616	Figure 8 & DRRF8	16.5 grs 9000 psi	17.5 grs 8900 psi	19.5 grs 10600 psi	
1 1/8	Promo	Win. 209	Figure 8 & DRRF8	16.5 grs 8900 psi	18.0 grs 9500 psi	19.0 grs 10400 psi	
1 1/8	Promo	CCI 209	Figure 8 & DRRF8		17.5 grs 8600 psi	19.5 grs 9900 psi	
1 1/8	Promo	Fed. 209A	Red PC		17.0 grs 10700 psi		
1 1/8	Promo	Fed. 209A	Figure 8 & DRRF8		16.5 grs 10300 psi	17.0 grs 10400 psi	
1 1/8	Promo	Fed. 209A	RXP 12		16.0 grs 10600 psi	17.0 grs 10100 psi	
1 1/8	Promo	Fed. 209A	WAA12 & DRA12 & DRXL 1 1/8		17.5 grs 10500 psi		
1 1/8	Amer. Select	Rem. 209P	CB 3118-12	17.5 grs 6900 psi	19.0 grs 8400 psi	20.0 grs 9500 psi	21.5 grs 10600 psi
1 1/8	Amer. Select	Rem. 209P	Blue Duster	17.0 grs 8000 psi	18.0 grs 8900 psi	20.0 grs 10200 psi	
1 1/8	Amer. Select	Rem. 209P	Red PC	17.5 grs 7000 psi	19.0 grs 8200 psi	20.5 grs 9700 psi	
1 1/8	Amer. Select	Rem. 209P	Figure 8 & DRRF8	17.5 grs 7100 psi	19.0 grs 7600 psi	20.5 grs 9100 psi	21.5 grs 9900 psi
1 1/8	Amer. Select	Rem. 209P	RXP 12	17.0 grs 7500 psi	18.5 grs 8300 psi	20.5 grs 10200 psi	21.0 grs 10500 psi
1 1/8	Amer. Select	Rem. 209P	WAA12 & DRA12 & DRXL 1 1/8	17.0 grs 8100 psi	18.0 grs 9000 psi	19.2 grs 11000 psi	
1 1/8	Amer. Select	Rem. 209P	WT-12	17.0 grs 7300 psi	18.5 grs 8900 psi	20.0 grs 10600 psi	
1 1/8	Amer. Select	Rem. 209P	Windjammer	18.0 grs 6900 psi	19.0 grs 7900 psi	20.5 grs 9100 psi	
1 1/8	Amer. Select	Win. 209	Figure 8 & DRRF8		18.5 grs 9000 psi	20.0 grs 10200 psi	
1 1/8	Amer. Select	Fed. 209A	Figure 8 & DRRF8		18.5 grs 9200 psi	20.0 grs 10700 psi	
1 1/8	20/28	CCI 209M	Figure 8			22.0 grs 7010 psi	23.0 grs 7400 psi

12-GAUGE 2 3/4 INCH REMINGTON PLASTIC SHELLS (STS, NITRO 27, PREMIER RXP AND GUN CLUB)

12-Gauge 1 1/8 Ounce Target Loads continued

Shot	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
				(oz)	1090 fps	1145 fps	1200 fps
1 1/8	20/28	CCI 209M	CB 3118-12			20.5 grs 8260 psi	21.4 grs 8930 psi
1 1/8	20/28	CCI 209M	Win. AA-12			21.3 grs 7730 psi	22.0 grs 7960 psi
1 1/8	20/28	Rem. 209P	CB 3118-12			20.8 grs 7660 psi	21.7 grs 8720 psi
1 1/8	20/28	Rem. 209P	Figure 8			21.7 grs 6410 psi	22.5 grs 7340 psi
1 1/8	20/28	Fio. 616	Figure 8			22.1 grs 6380 psi	23.0 grs 7170 psi
1 1/8	20/28	Win. 209	Figure 8			22.0 grs 6710 psi	23.0 grs 7370 psi
1 1/8	20/28	Win. 209	CB 3118-12			20.6 grs 8050 psi	21.6 grs 8920 psi
1 1/8	Unique	CCI 209M	Figure 8 & DRRF8			22.5 grs 9500 psi	
1 1/8	Unique	CCI 209	Figure 8 & DRRF8			22.5 grs 8500 psi	
1 1/8	Unique	CCI 209M	Versalite			22.0 grs 8800 psi	23.5 grs 9900 psi
1 1/8	Unique	CCI 209M	Red PC			22.5 grs 8700 psi	24.0 grs 9400 psi
1 1/8	Unique	CCI 209M	RXP 12			22.5 grs 9500 psi	24.0 grs 10400 psi
1 1/8	Unique	CCI 209M	WAA12 & DRA12 & DRXL 1 1/8			22.0 grs 9300 psi	24.0 grs 10300 psi
1 1/8	Unique	CCI 209M	Windjammer			23.5 grs 8200 psi	25.0 grs 9300 psi
1 1/8	Unique	Fed. 209A	Figure 8 & DRRF8			23.0 grs 9200 psi	
1 1/8	Unique	Fed. 209A	RXP 12			22.0 grs 9100 psi	
1 1/8	Unique	Fio. 616	Figure 8 & DRRF8			23.0 grs 8500 psi	23.5 grs 9100 psi
1 1/8	Unique	Rem. 209P	CB 3118-12			22.2 grs 7300 psi	
1 1/8	Unique	Rem. 209P	Blue Duster			22.7 grs 7800 psi	
1 1/8	Unique	Rem. 209P	Versalite			22.0 grs 7900 psi	
1 1/8	Unique	Rem. 209P	Red PC			22.5 grs 7800 psi	
1 1/8	Unique	Rem. 209P	Figure 8 & DRRF8			22.5 grs 8200 psi	
1 1/8	Unique	Rem. 209P	RXP 12			22.5 grs 8300 psi	
1 1/8	Unique	Rem. 209P	WAA12 & DRA12 & DRXL 1 1/8			22.0 grs 8900 psi	
1 1/8	Unique	Rem. 209P	WT-12			23.5 grs 8300 psi	
1 1/8	Unique	Rem. 209P	Windjammer			23.5 grs 7000 psi	
1 1/8	Unique	Win. 209	Figure 8 & DRRF8			22.5 grs 8400 psi	
1 1/8	Unique	Win. 209	RXP 12				24.5 grs 8800 psi
1 1/8	Herco	CCI 209M	Versalite				24.5 grs 9900 psi
1 1/8	Herco	CCI 209M	Red PC				25.0 grs 9500 psi
1 1/8	Herco	CCI 209M	RXP 12				24.5 grs 9800 psi
1 1/8	Herco	CCI 209M	WAA12 & DRA12 & DRXL 1 1/8				24.5 grs 10400 psi
1 1/8	Herco	CCI 209M	Windjammer				25.0 grs 9400 psi
1 1/8	Herco	Fio. 616	RXP 12			23.0 grs 8500 psi	

12-GAUGE 2 3/4 INCH REMINGTON PLASTIC SHELLS (STS, NITRO 27, PREMIER RXP AND GUN CLUB)

12-Gauge 1 1/4 Ounce Loads

Shot	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
				(oz)	1250 fps	1350 fps	1375 fps
1 1/4	20/28	Rem. 209P	SP 12	23.0 grs 8840 psi			
1 1/4	20/28	Win. 209	SP 12	23.0 grs 8950 psi			
1 1/4	20/28	CCI 209M	SP 12	23.5 grs 9510 psi			
1 1/4	20/28	Rem. 209P	WAA12F114	22.5 grs 10390 psi			
1 1/4	Pro Reach	Win. 209	CB 1138-12				30.0 grs 10710 psi
1 1/4	Pro Reach	CCI 209M	Rem. 12L			28.7 grs 10820 psi	
1 1/4	Pro Reach	CCI 209M	WAAF 114		27.0 grs 11000 psi		
1 1/4	Pro Reach	Fed. 209A	Rem. 12L			28.1 grs 10860 psi	
1 1/4	Pro Reach	Fed. 209A	WAA12R		27.3 grs 10630 psi		
1 1/4	Pro Reach	Rem. 209P	Fed. 12S4		27.4 grs 11060 psi		
1 1/4	Pro Reach	Rem. 209P	Rem. 12L				29.5 grs 10940 psi
1 1/4	Pro Reach	Rem. 209P	WAA12R			28.2 grs 10690 psi	
1 1/4	Pro Reach	Cheddite	CB 1138-12		27.6 grs 10230 psi		28.5 grs 10890 psi
1 1/4	Pro Reach	Rem. 209P	WAA12F114			29.0 grs 10590 psi	
1 1/4	Pro Reach	Rem. 209P	WAA12R			28.2 grs 10500 psi	
1 1/4	Unique	CCI 209M	SP 12	23.5 grs 10300 psi			
1 1/4	Unique	Fio. 616	SP 12	23.0 grs 9600 psi			
1 1/4	Unique	Rem. 209P	Versalite	23.5 grs 9400 psi			
1 1/4	Unique	Rem. 209P	SP 12	23.5 grs 9300 psi			
1 1/4	Unique	Rem. 209P	WAA12F114	24.0 grs 10100 psi			
1 1/4	Unique	Win. 209	SP 12	23.5 grs 10000 psi			
1 1/4	Herco	CCI 209M	SP 12	24.5 grs 10000 psi			
1 1/4	Herco	Fio. 616	SP 12	24.5 grs 9300 psi			
1 1/4	Herco	Rem. 209P	Versalite	25.0 grs 8400 psi			
1 1/4	Herco	Rem. 209P	SP 12	25.0 grs 9600 psi			
1 1/4	Herco	Rem. 209P	WAA12F114	24.5 grs 9300 psi			
1 1/4	Herco	Win. 209	SP 12	24.5 grs 9600 psi			
1 1/4	Blue Dot	Win. 209	SP 12	34.5 grs 9800 psi			

12-Gauge 1 3/8 Ounce Loads

Shot	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
				(oz)	1090 fps	1145 fps	1200 fps
1 3/8	Blue Dot	CCI 209M	SP 12				34.0 grs 9400 psi
1 3/8	Blue Dot	Fio. 616	SP 12				34.0 grs 9100 psi
1 3/8	Blue Dot	Rem. 209P	CB1138-12				34.0 grs 9900 psi
1 3/8	Blue Dot	Rem. 209P	SP 12				35.0 grs 9300 psi
1 3/8	Blue Dot	Win. 209	SP 12				35.0 grs 9100 psi

12-GAUGE 2 3/4 INCH REMINGTON PLASTIC SHELLS (STS, NITRO 27, PREMIER RXP AND GUN CLUB)

12-Gauge 1 3/8 Ounce Loads continued

Shot	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
				(oz)	1225 fps	1250fps	1275 fps
1 3/8	Pro Reach	Rem. 209P	CB 3118-12				26.5 grs 10740 psi
1 3/8	Pro Reach	Win. 209	SP-12			26.7 grs 10710 psi	
1 3/8	Pro Reach	Fed. 209A	SP-12		25.0 grs 10780 psi		
1 3/8	Pro Reach	Rem. 209P	SP-12		26.2 grs 10630 psi		
1 3/8	Pro Reach	CCI 209M	SP-12			26.4 grs 10840 psi	
1 3/8	Pro Reach	CCI 209M	12S4	23.5 grs 10760 psi			
1 3/8	Pro Reach	Fed. 209A	12S4	22.5 grs 10760 psi			

12-GAUGE 2 3/4 INCH WINCHESTER AA PLASTIC SHELLS

12-Gauge 7/8 and 1 Ounce Target Loads

Shot	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
				(oz)	1145 fps	1200 fps	1250 fps
7/8	e3	Win. 209	TGT 12 & DRRT12		15.7 grs 7380 psi	16.5 grs 8200 psi	18.3 grs 8730 psi
7/8	e3	Win. 209	CB 4100-12B		16.0 grs 6870 psi	17.0 grs 7475 psi	
7/8	e3	Win. 209	WAA12L & DRXXL (Pink)		16.0 grs 7425 psi	17.0 grs 8210 psi	18.0 grs 8385 psi
7/8	Red Dot	Win. 209	CB 4100-12		17.5 grs 6900 psi	18.0 grs 7600 psi	18.5 grs 7900 psi
7/8	Red Dot	Win. 209	Purple PC		17.0 grs 7500 psi	18.0 grs 8400 psi	19.5 grs 9000 psi
7/8	Red Dot	Win. 209	TGT 12 & DRRT12		16.5 grs 7300 psi	18.0 grs 8400 psi	19.0 grs 9300 psi
7/8	Red Dot	Win. 209	WAA12L & DRXXL (Pink)		16.5 grs 7900 psi	17.5 grs 8600 psi	18.5 grs 9300 psi
7/8	Red Dot	Win. 209	WAA12SL & DRXL-1 & Jammer XL-1		16.5 grs 7300 psi	18.0 grs 9300 psi	19.0 grs 10300 psi
7/8	Amer. Select	Win. 209	CB 4100-12B		18.5 grs 5600 psi	19.5 grs 6100 psi	20.5 grs 6900 psi
7/8	Amer. Select	Win. 209	WAA12L & DRXXL (Pink)		17.6 grs 6200 psi	18.5 grs 7200 psi	19.5 grs 8000 psi
7/8	Amer. Select	Win. 209	CB 1100-12				21.0 grs 7200 psi
7/8	Amer. Select	Win. 209	Purple PC				20.5 grs 7200 psi
7/8	Amer. Select	Win. 209	TGT 12 & DRRT12				20.5 grs 7600 psi
7/8	Amer. Select	Win. 209	WAA12SL & DRXL-1 & Jammer XL-1				20.5 grs 8400 psi
7/8	Promo	Win. 209	CB 4100-12		17.5 grs 6900 psi	18.0 grs 7600 psi	18.5 grs 7900 psi
7/8	Promo	Win. 209	Purple PC		17.0 grs 7500 psi	18.0 grs 8400 psi	19.5 grs 9000 psi
7/8	Promo	Win. 209	TGT 12 & DRRT12		16.5 grs 7300 psi	18.0 grs 8400 psi	19.0 grs 9300 psi
7/8	Promo	Win. 209	WAA12L & DRXXL (Pink)		16.5 grs 7900 psi	17.5 grs 8600 psi	18.5 grs 9300 psi

continued

12-GAUGE 2 3/4 INCH WINCHESTER AA PLASTIC SHELLS

12-Gauge 7/8 and 1 Ounce Target Loads continued

Shot	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
				(oz)	1145 fps	1200 fps	1250 fps
7/8	Promo	Win. 209	WAA12SL & DRXL-1 & Jammer XL-1		16.5 grs 7300 psi	18.0 grs 9300 psi	19.0 grs 10300 psi
7/8	Green Dot	Win. 209	Purple PC				21.5 grs 7900 psi
7/8	Green Dot	Win. 209	TGT 12 & DRRT12				21.0 grs 8400 psi
7/8	Green Dot	Win. 209	WAA12L & DRXXL (Pink)				20.0 grs 8300 psi
7/8	Green Dot	Win. 209	WAA12SL & DRXL-1 & Jammer XL-1				20.5 grs 8800 psi
1	Clay Dot	Win. 209	WAA12SL & DRXL-1 & Jammer XL-1		17.2 grs 9460 psi	18.5 grs 10960 psi	
1	Clay Dot	Rem. 209P	WAA12SL & DRXL-1 & Jammer XL-2		17.4 grs 9280 psi	18.6 grs 10840 psi	
1	e3	Win. 209	WAA12L & DRXXL (Pink)	15.0 grs 8635 psi	16.5 grs 9410 psi	17.5 grs 9740 psi	18.5 grs 10870 psi
1	e3	Win. 209	WAA12SL & DRXL-1 & Jammer XL-1	15.5 grs 8085 psi	16.5 grs 9240 psi	18.0 grs 10045 psi	18.5 grs 10080 psi
1	e3	Win. 209	TGT 12 & DRRT12	15.5 grs 8530 psi	16.5 grs 9305 psi	17.5 grs 10070 psi	18.5 grs 11015 psi
1	e3	Win. 209	CB 1100-12	16.0 grs 8285 psi	17.0 grs 8805 psi	18.0 grs 9245 psi	19.0 grs 10135 psi
1	e3	Win. 209	Green Duster	16.0 grs 8730 psi	17.0 grs 9525 psi	18.0 grs 10580 psi	
1	Red Dot	Win. 209	CB 1100-12	17.0 grs 7900 psi	18.0 grs 8600 psi	19.0 grs 9300 psi	19.5 grs 8900 psi
1	Red Dot	Win. 209	WAA12L & DRXXL (Pink)	16.5 grs 8000 psi			
1	Red Dot	Win. 209	WAA12SL & DRXL-1 & Jammer XL-2	16.5 grs 7900 psi	18.0 grs 10200 psi	19.0 grs 10500 psi	19.5 grs 11200 psi
1	Red Dot	Win. 209	Purple PC		18.0 grs 8900 psi	19.0 grs 9700 psi	20.0 grs 10400 psi
1	Red Dot	Win. 209	TGT 12 & DRRT12		18.0 grs 9200 psi	19.5 grs 9800 psi	
1	Red Dot	Win. 209	WT 12 (Orange)		17.5 grs 10600 psi		
1	Red Dot	Win. 209	RXP 12				20.0 grs 10100 psi
1	Red Dot	CCI 209M	WAA12 & DRA12 & DRXL 1 1/8				18.5 grs 10400 psi
1	Red Dot	Win. 209	WAA12 & DRA12 & DRXL 1 1/8				19.0 grs 10500 psi
1	Amer. Select	Win. 209	CB 1100-12	18.0 grs 6700 psi	18.5 grs 6900 psi	20.5 grs 8800 psi	21.5 grs 9200 psi
1	Amer. Select	Win. 209	Green Duster		19.0 grs 8100 psi	20.0 grs 8900 psi	21.5 grs 9700 psi
1	Amer. Select	Win. 209	TGT 12 & DRRT12		19.0 grs 8000 psi	20.0 grs 9100 psi	21.0 grs 9500 psi
1	Amer. Select	Win. 209	WT 12 (Orange)		19.0 grs 8400 psi		

12-GAUGE 2 3/4 INCH WINCHESTER AA PLASTIC SHELLS

12-Gauge 7/8 and 1 Ounce Target Loads continued

Shot	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
				(oz)	1145 fps	1200 fps	1250 fps
1	Amer. Select	Win. 209	WAA12L & DRXXL (Pink)	18.0 grs 6700 psi			
1	Amer. Select	Win. 209	WAA12SL & DRXL-1 & Jammer XL-2	17.5 grs 7600 psi	19.0 grs 8200 psi	20.0 grs 9500 psi	21.5 grs 10300 psi
1	Green Dot	CCI 209M	WAA12 & DRA12 & DRXL 1 1/8				21.5 grs 9900 psi
1	Green Dot	Win. 209	CB 1100-12	18.5 grs 7100 psi	19.8 grs 7700 psi	21.0 grs 8200 psi	22.0 grs 9100 psi
1	Green Dot	Win. 209	Green Duster		19.5 grs 8300 psi	20.5 grs 9200 psi	22.0 grs 9500 psi
1	Green Dot	Win. 209	Purple PC		19.5 grs 7000 psi	21.5 grs 8700 psi	22.0 grs 9000 psi
1	Green Dot	Win. 209	TGT 12 & DRRT12		19.5 grs 7900 psi	21.0 grs 8800 psi	22.0 grs 9700 psi
1	Green Dot	Win. 209	RXP 12				21.0 grs 8800 psi
1	Green Dot	Win. 209	WT 12-(Orange)		19.5 grs 8100 psi		
1	Green Dot	Win. 209	WAA12 & DRA12 & DRXL 1 1/8				20.0 grs 8700 psi
1	Green Dot	Win. 209	WAA12L & DRXXL (Pink)	18.5 grs 7600 psi	19.5 grs 8500 psi		
1	Green Dot	Win. 209	WAA12SL & DRXL-1 & Jammer XL-2	18.0 grs 8000 psi		21.0 grs 9200 psi	21.5 grs 9500 psi

12-Gauge 1 1/8 Ounce Loads

Shot	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
				(oz)	1090 fps	1145 fps	1200 fps
1 1/8	Clay Dot	Win. 209	Figure 8 & DRRF8		17.0 grs 8570 psi		
1 1/8	Clay Dot	Rem. 209P	Figure 8 & DRRF8		17.3 grs 8300 psi		
1 1/8	Clay Dot	Win. 209	WAA12 & DRA12 & DRXL 1 1/8		17.3 grs 8740 psi		
1 1/8	Clay Dot	Rem. 209P	WAA12 & DRA12 & DRXL 1 1/8		17.0 grs 8520 psi		
1 1/8	e3	Win. 209	Figure 8 & DRRF8	15.0 grs 8555 psi	16.0 grs 9325 psi	17.5 grs 10920 psi	
1 1/8	e3	Win. 209	CB 4118	15.0 grs 9645 psi	16.5 grs 9835 psi	17.5 grs 10855 psi	
1 1/8	e3	Win. 209	WAA12SL & DRXL-1 & Jammer XL-1	15.0 grs 8645 psi	16.0 grs 9625 psi		
1 1/8	e3	Win. 209	RXP 12	15.0 grs 8700 psi	16.5 grs 9835 psi		
1 1/8	e3	Win. 209	CB 0118	15.0 grs 8905 psi	16.0 grs 9060 psi	17.0 grs 9970 psi	
1 1/8	e3	Win. 209	WAA12 & DRA12 & DRXL 1 1/8	15.0 grs 9090 psi	16.0 grs 9900 psi	17.0 grs 10450 psi	
1 1/8	e3	Win. 209	Blue Duster	15.0 grs 9015 psi	16.0 grs 10265 psi	17.0 grs 10505 psi	
1 1/8	Red Dot	CCI 209M	WAA12 & DRA12 & DRXL 1 1/8	17.0 grs 9800 psi	17.5 grs 10400 psi	18.5 grs 10500 psi	

continued

12-GAUGE 2 3/4 INCH WINCHESTER AA PLASTIC SHELLS

12-Gauge 1 1/8 Ounce Loads continued

Shot	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
				(oz)	1090 fps	1145 fps	1200 fps
1 1/8	Red Dot	Fio. 616	WAA12 & DRA12 & DRXL 1 1/8	16.0 grs 8900 psi	17.0 grs 10200 psi	18.0 grs 10500 psi	
1 1/8	Red Dot	Rem. 209P	WAA12 & DRA12 & DRXL 1 1/8	17.0 grs 8100 psi	17.5 grs 8700 psi	19.0 grs 9500 psi	
1 1/8	Red Dot	Win. 209	CB 1100-12	16.0 grs 8000 psi			
1 1/8	Red Dot	Win. 209	CB 3118-12		16.8 grs 9100 psi	18.5 grs 10500 psi	
1 1/8	Red Dot	Win. 209	Blue Duster	15.5 grs 10300 psi	16.5 grs 10600 psi	19.0 grs 10800 psi	
1 1/8	Red Dot	Win. 209	Versalite	16.5 grs 9000 psi	18.0 grs 9500 psi	19.0 grs 9700 psi	
1 1/8	Red Dot	Win. 209	Red PC	16.0 grs 9100 psi	17.5 grs 9500 psi	18.5 grs 10300 psi	
1 1/8	Red Dot	Win. 209	Figure 8 & DRRF8	16.0 grs 8300 psi	17.5 grs 9900 psi	18.5 grs 10700 psi	
1 1/8	Red Dot	Win. 209	RXP 12	16.5 grs 8400 psi	17.0 grs 9000 psi	18.5 grs 9800 psi	
1 1/8	Red Dot	Win. 209	WAA12 & DRA12 & DRXL 1 1/8	16.0 grs 9500 psi	17.0 grs 10000 psi	18.0 grs 10400 psi	
1 1/8	Red Dot	Win. 209	WAA12SL & DRXL-1 & Jammer XL-1	16.0 grs 9300 psi			
1 1/8	Red Dot	Win. 209	WT 12 (Orange)		16.5 grs 10700 psi	17.0 grs 10700 psi	
1 1/8	Red Dot	Win. 209	Windjammer		17.5 grs 9300 psi		
1 1/8	Red Dot	Fed. 209A	CB 3118-12		17.0 grs 9600 psi	18.5 grs 10500 psi	
1 1/8	Red Dot	Fed. 209A	Versalite		17.0 grs 10300 psi	18.0 grs 10700 psi	
1 1/8	Red Dot	Fed. 209A	Red PC		17.0 grs 10100 psi	18.0 grs 10000 psi	
1 1/8	Red Dot	Fed. 209A	Figure 8 & DRRF8		17.0 grs 9800 psi	18.5 grs 10200 psi	
1 1/8	Red Dot	Fed. 209A	WAA12 & DRA12 & DRXL 1 1/8		17.0 grs 10600 psi		
1 1/8	Red Dot	Fed. 209A	Windjammer		17.0 grs 9000 psi	18.0 grs 10000 psi	
1 1/8	Amer. Select	Fed. 209A	WAA12 & DRA12 & DRXL 1 1/8	17.0 grs 8700 psi	18.5 grs 9800 psi	19.5 grs 10800 psi	
1 1/8	Amer. Select	Rem. 209P	WAA12 & DRA12 & DRXL 1 1/8	17.0 grs 8000 psi	19.0 grs 8700 psi	21.0 grs 9600 psi	
1 1/8	Amer. Select	Rem. 209P	Figure 8 & DRRF8				22.5 grs 9400 psi
1 1/8	Amer. Select	Win. 209	CB 1100-12	17.0 grs 7600 psi			
1 1/8	Amer. Select	Win. 209	CB 3118-12		18.5 grs 9000 psi	19.5 grs 10200 psi	20.5 grs 10700 psi
1 1/8	Amer. Select	Win. 209	Blue Duster	17.0 grs 8300 psi	18.0 grs 9000 psi	19.5 grs 10000 psi	
1 1/8	Amer. Select	Win. 209	Red PC	17.0 grs 7300 psi	18.5 grs 8600 psi	20.0 grs 10100 psi	21.5 grs 10800 psi
1 1/8	Amer. Select	Win. 209	Figure 8 & DRRF8	17.5 grs 8100 psi	19.0 grs 9400 psi	20.0 grs 9800 psi	

12-GAUGE 2 3/4 INCH WINCHESTER AA PLASTIC SHELLS

12-Gauge 1 1/8 Ounce Loads continued

Shot (oz)	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
				1090 fps	1145 fps	1200 fps	1250 fps
1 1/8	Amer. Select	Win. 209	RXP 12	17.0 grs 9100 psi	19.0 grs 9400 psi	20.5 grs 10700 psi	21.0 grs 10800 psi
1 1/8	Amer. Select	Win. 209	WAA12 & DRA12 & DRXL 1 1/8	17.0 grs 9000 psi	18.0 grs 9400 psi	19.5 grs 10300 psi	
1 1/8	Amer. Select	Win. 209	WAA12SL & DRXL-1 & Jammer XL-1	16.8 grs 8400 psi			
1 1/8	Amer. Select	Win. 209	WT 12 (Orange)		18.5 grs 9600 psi	19.5 grs 10700 psi	
1 1/8	Amer. Select	Win. 209	Windjammer		18.5 grs 8100 psi	20.5 grs 9200 psi	
1 1/8	Promo	CCI 209M	WAA12 & DRA12 & DRXL 1 1/8	17.0 grs 9800 psi	17.5 grs 10400 psi	18.5 grs 10500 psi	
1 1/8	Promo	Fio. 616	WAA12 & DRA12 & DRXL 1 1/8	16.0 grs 8900 psi	17.0 grs 10200 psi	18.0 grs 10500 psi	
1 1/8	Promo	Rem. 209P	WAA12 & DRA12 & DRXL 1 1/8	17.0 grs 8100 psi	17.5 grs 8700 psi	19.0 grs 9500 psi	
1 1/8	Promo	Win. 209	CB 1100-12	16.0 grs 8000 psi			
1 1/8	Promo	Win. 209	CB 3118-12		16.8 grs 9100 psi	18.5 grs 10500 psi	
1 1/8	Promo	Win. 209	Blue Duster	15.5 grs 10300 psi	16.5 grs 10600 psi	19.0 grs 10800 psi	
1 1/8	Promo	Win. 209	Versalite	16.5 grs 9000 psi	18.0 grs 9500 psi	19.0 grs 9700 psi	
1 1/8	Promo	Win. 209	Red PC	16.0 grs 9100 psi	17.5 grs 9500 psi	18.5 grs 10300 psi	
1 1/8	Promo	Win. 209	Figure 8 & DRRF8	16.0 grs 8300 psi	17.5 grs 9900 psi	18.5 grs 10700 psi	
1 1/8	Promo	Win. 209	RXP 12	16.5 grs 9000 psi	17.0 grs 8400 psi	18.5 grs 9800 psi	
1 1/8	Promo	Win. 209	WAA12 & DRA12 & DRXL 1 1/8	16.0 grs 9500 psi	17.0 grs 10000 psi	18.0 grs 10400 psi	
1 1/8	Promo	Win. 209	WAA12SL & DRXL-1 & Jammer XL-1	16.0 grs 9300 psi			
1 1/8	Promo	Win. 209	WT 12 (Orange)		16.5 grs 10700 psi	17.0 grs 10700 psi	
1 1/8	Promo	Win. 209	Windjammer		17.5 grs 9300 psi		
1 1/8	Promo	Fed. 209A	CB 3118-12		17.0 grs 9600 psi	18.5 grs 10500 psi	
1 1/8	Promo	Fed. 209A	Versalite		17.0 grs 10300 psi	18.0 grs 10700 psi	
1 1/8	Promo	Fed. 209A	Red PC		17.0 grs 10100 psi	18.0 grs 10000 psi	
1 1/8	Promo	Fed. 209A	Figure 8 & DRRF8		17.0 grs 9800 psi	18.5 grs 10200 psi	
1 1/8	Promo	Fed. 209A	WAA12 & DRA12 & DRXL 1 1/8		17.0 grs 10600 psi		
1 1/8	Promo	Fed. 209A	Windjammer		17.0 grs 9000 psi	18.0 grs 10000 psi	
1 1/8	Green Dot	Win. 209	CB 1100-12	17.5 grs 7800 psi			
1 1/8	Green Dot	Win. 209	CB 3118-12		19.1 grs 9300 psi	20.0 grs 9800 psi	
1 1/8	Green Dot	Win. 209	Blue Duster	17.5 grs 8300 psi	19.0 grs 9300 psi	20.0 grs 9400 psi	

continued

12-GAUGE 2 3/4 INCH WINCHESTER AA PLASTIC SHELLS

12-Gauge 1 1/8 Ounce Loads continued

Shot	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
				(oz)	1090 fps	1145 fps	1200 fps
1 1/8	Green Dot	Win. 209	Versalite	17.5 grs 7800 psi	19.5 grs 8000 psi	21.0 grs 9000 psi	22.0 grs 9900 psi
1 1/8	Green Dot	Win. 209	Red PC	18.0 grs 7300 psi	19.0 grs 8300 psi	20.5 grs 9800 psi	22.0 grs 10300 psi
1 1/8	Green Dot	Win. 209	Figure 8 & DRRF8	18.0 grs 7400 psi	19.0 grs 8600 psi	20.5 grs 9500 psi	22.0 grs 10300 psi
1 1/8	Green Dot	Win. 209	RXP 12	17.5 grs 7600 psi	18.0 grs 8100 psi	19.5 grs 8900 psi	21.0 grs 9500 psi
1 1/8	Green Dot	Win. 209	WAA12 & DRA12 & DRXL 1 1/8	17.5 grs 8100 psi	18.0 grs 8500 psi	19.5 grs 9300 psi	21.5 grs 10500 psi
1 1/8	Green Dot	Win. 209	WAA12SL & DRXL-1 & Jammer XL-1	18.0 grs 8000 psi			
1 1/8	Green Dot	Win. 209	WT 12 (Orange)	16.5 grs 9000 psi	18.0 grs 9400 psi	20.0 grs 9200 psi	21.5 grs 9800 psi
1 1/8	Green Dot	CCI 209M	WAA12 & DRA12 & DRXL 1 1/8		18.5 grs 10100 psi	20.0 grs 10400 psi	
1 1/8	Green Dot	Win. 209	Windjammer		18.0 grs 8400 psi	21.0 grs 9000 psi	
1 1/8	Green Dot	Fed. 209A	CB 3118-12		18.5 grs 8400 psi	19.5 grs 9300 psi	
1 1/8	Green Dot	Fed. 209A	Versalite		18.5 grs 9300 psi	19.5 grs 10400 psi	
1 1/8	Green Dot	Fed. 209A	Red PC		18.5 grs 8700 psi	19.5 grs 10500 psi	
1 1/8	Green Dot	Fed. 209A	Figure 8 & DRRF8		18.5 grs 8600 psi	19.5 grs 9400 psi	
1 1/8	Green Dot	Fed. 209A	WAA12 & DRA12 & DRXL 1 1/8		18.0 grs 9300 psi	19.0 grs 10200 psi	
1 1/8	Green Dot	Fed. 209A	Windjammer		18.5 grs 8200 psi	20.0 grs 9200 psi	
1 1/8	Green Dot	Fio. 616	WAA12 & DRA12 & DRXL 1 1/8		18.5 grs 9400 psi	20.0 grs 9500 psi	23.5 grs 10100 psi
1 1/8	Green Dot	Rem. 209P	WAA12 & DRA12 & DRXL 1 1/8			20.0 grs 9800 psi	
1 1/8	20/28	Win. 209	Figure 8			21.7 grs 6750 psi	23.0 grs 7550 psi
1 1/8	20/28	CCI 209M	WAA-12			21.0 grs 7360 psi	22.3 grs 7930 psi
1 1/8	20/28	CCI 209M	CB 3118-12				22.3 grs 7340 psi
1 1/8	20/28	Win. 209	CB 3118-12				22.5 grs 6920 psi
1 1/8	20/28	Rem. 209P	Figure 8			21.5 grs 6700 psi	23.1 grs 7580 psi
1 1/8	20/28	CCI 209M	Figure 8			22.0 grs 6980 psi	23.1 grs 7500 psi
1 1/8	20/28	Fio. 616	Figure 8				23.1 grs 7100 psi
1 1/8	Unique	CCI 209M	WAA12 & DRA12 & DRXL 1 1/8			21.5 grs 10300 psi	
1 1/8	Unique	Fio. 616	WAA12 & DRA12 & DRXL 1 1/8			21.5 grs 9100 psi	
1 1/8	Unique	Rem. 209P	WAA12 & DRA12 & DRXL 1 1/8			23.0 grs 7500 psi	24.0 grs 9300 psi
1 1/8	Unique	Win. 209	CB 3118-12			22.5 grs 8800 psi	
1 1/8	Unique	Win. 209	Blue Duster			22.0 grs 8300 psi	
1 1/8	Unique	Win. 209	Versalite			21.0 grs 8200 psi	24.0 grs 9400 psi

12-GAUGE 2 3/4 INCH WINCHESTER AA PLASTIC SHELLS

12-Gauge 1 1/8 Ounce Loads continued

Shot	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
				(oz)	1090 fps	1145 fps	1200 fps
1 1/8	Unique	Win. 209	Red PC			23.5 grs 9500 psi	24.5 grs 10000 psi
1 1/8	Unique	Win. 209	Figure 8 & DRRF8			22.5 grs 8300 psi	24.0 grs 9000 psi
1 1/8	Unique	Win. 209	RXP 12			22.0 grs 8700 psi	23.0 grs 9200 psi
1 1/8	Unique	Win. 209	WAA12 & DRA12 & DRXL 1 1/8			21.0 grs 9100 psi	23.5 grs 9400 psi
1 1/8	Unique	Win. 209	WT 12 (Orange)			21.5 grs 9000 psi	22.5 grs 9500 psi
1 1/8	Unique	Win. 209	Windjammer			22.5 grs 8200 psi	
1 1/8	Herco	Win. 209	Versalite				24.5 grs 9200 psi
1 1/8	Herco	Win. 209	Red PC				25.0 grs 9100 psi
1 1/8	Herco	Win. 209	Figure 8 & DRRF8				25.0 grs 9100 psi
1 1/8	Herco	Win. 209	RXP 12				25.0 grs 9200 psi
1 1/8	Herco	Win. 209	WAA12 & DRA12 & DRXL 1 1/8				25.0 grs 9500 psi
1 1/8	Herco	Win. 209	WT 12 (Orange)				23.5 grs 9400 psi

12-Gauge 1 1/4 Ounce Loads

1 1/4	Pro Reach	CCI 209M	CB 1138-12				30.0 grs 10800 psi
1 1/4	Pro Reach	Fed. 209A	CB 1138-12	27.5 grs 9650 psi			29.5 grs 11080 psi
1 1/4	Pro Reach	Rem. 209P	CB 1138-12	28.1 grs 9770 psi			30.0 grs 10540 psi
1 1/4	Pro Reach	Win. 209	CB 1138-12	28.3 grs 9640 psi			31.0 grs 10380 psi
1 1/4	Pro Reach	CCI 209M	WAAF114		28.9 grs 10190 psi		
1 1/4	Pro Reach	Win. 209	WAAF114	28.3 grs 9810 psi			
1 1/4	Pro Reach	Cheddite	CB 1138-12	27.6 grs 9820 psi			
1 1/4	Pro Reach	Cheddite	WAAF114	28.0 grs 9490 psi			
1 1/4	Pro Reach	Win. 209	CB 1138-12	28.0 grs 9,950 psi			
1 1/4	Pro Reach	Fed. 209A	CB 1138-12		28.0 grs 10010 psi		
1 1/4	Pro Reach	CCI 209M	CB 1138-12	27.5 grs 10620 psi			
1 1/4	Pro Reach	Fed. 209A	Fed. 12S4	27.0 grs 11150 psi			
1 1/4	Pro Reach	Rem. 209P	CB 1138-12	28.1 grs 9720 psi		29.5 grs 10540 psi	
1 1/4	Pro Reach	Win. 209	RP 12	27.7 grs 9780 psi		29.0 grs 10560 psi	
1 1/4	Pro Reach	Cheddite	WAAF114	28.1 grs 10180 psi			
1 1/4	Pro Reach	Cheddite	CB 1138-12	27.6 grs 9820 psi			

12-Gauge 1 1/4, 1 3/8 and 1 1/2 Ounce Loads

Shot	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
				(oz)	1150 fps	1200 fps	1225 fps
1 1/4	20/28	Win. 209	SP 12				23.3 grs 9180 psi
1 1/4	20/28	Rem. 209P	SP 12				23.4 grs 9010 psi
1 1/4	20/28	CCI 209M	SP 12				23.2 grs 9720 psi

continued

12-GAUGE 2 3/4 INCH WINCHESTER AA PLASTIC SHELLS

12-Gauge 1 1/4, 1 3/8 and 1 1/2 Ounce Loads continued

Shot (oz)	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
				1150 fps	1200 fps	1225 fps	1250 fps
1 1/4	Unique	CCI 209M	WAA12F114			23.5 grs 9900 psi	
1 1/4	Unique	Fio. 616	WAA12F114			23.0 grs 10300 psi	
1 1/4	Unique	Rem. 209P	WAA12F114			24.0 grs 10000 psi	
1 1/4	Unique	Win. 209	Versalite			24.0 grs 9800 psi	
1 1/4	Unique	Win. 209	RP 12			22.5 grs 9500 psi	
1 1/4	Unique	Win. 209	WAA12F114			23.5 grs 9900 psi	
1 1/4	Herco	CCI 209M	WAA12F114			24.0 grs 9100 psi	
1 1/4	Herco	Fio. 616	WAA12F114			25.0 grs 9800 psi	
1 1/4	Herco	Rem. 209P	WAA12F114			25.5 grs 8300 psi	
1 1/4	Herco	Win. 209	CB 1138-12			25.0 grs 9600 psi	
1 1/4	Herco	Win. 209	Versalite			25.5 grs 8500 psi	
1 1/4	Herco	Win. 209	WAA12F114			25.0 grs 8400 psi	
1 3/8	Blue Dot	Win. 209	RP 12		33.0 grs 10400 psi		
1 3/8	Blue Dot	Win. 209	SP 12				34.5 grs 10300 psi
1 3/8	Pro Reach	CCI 209M	CB 1138-12				26.2 grs 10910 psi
1 3/8	Pro Reach	Win. 209	RP 12				25.0 grs 10620 psi
1 3/8	Pro Reach	Win. 209	CB 1138-12				26.1 grs 10520 psi
1 3/8	Pro Reach	Fed. 209A	CB 1138-12			24.5 grs 10740 psi	
1 3/8	Pro Reach	Rem. 209P	CB 1138-12				26.0 grs 10460 psi
1 3/8	Pro Reach	Fed. 209A	RP 12		23.8 grs 10760 psi		
1 3/8	Pro Reach	CCI 209M	CB 1138-12				26.5 grs 10580 psi
1 1/2	Blue Dot	Win. 209	RP 12	30.5 grs 10800 psi			
1 1/2	Blue Dot	Win. 209	WAA12R	31.0 grs 10400 psi			
1 1/2	Blue Dot	Win. 209	CB 1138-12		33.7 grs 10100 psi		

12-GAUGE 2 3/4 INCH FEDERAL GOLD MEDAL PLASTIC TARGET SHELLS

12-Gauge 7/8 and 1 Ounce Target Loads

Shot (oz)	Powder	Primer	Wad	Velocity / Charge Weight / Pressure		
				1200 fps	1250 fps	1290 fps
7/8	Clay Dot	Fed. 209A	12SO & DRXXL (Orange)	17.5 grs 6042 psi	18.0 grs 6530 psi	19.0 grs 7310 psi
7/8	Clay Dot	Fed. 209A	CB 0178	18.0 grs 5804 psi	18.5 grs 6040 psi	19.5 grs 9110 psi
7/8	Clay Dot	Fed. 209A	CB 4100-12	18.0 grs 5744 psi	18.5 grs 6112 psi	19.0 grs 7780 psi
7/8	e3	Fed. 209A	12SO & DRXXL (Orange)	16.5 grs 6905 psi	17.5 grs 8095 psi	18.5 grs 8855 psi
7/8	e3	Fed. 209A	TGT 12 & DRRT12		17.0 grs 7095 psi	18.0 grs 7925 psi
7/8	Red Dot	Fed. 209A	Purple PC	17.0 grs 6400 psi	18.5 grs 7300 psi	19.5 grs 7900 psi
7/8	Red Dot	Fed. 209A	TGT 12 & DRRT12	17.5 grs 7100 psi	18.5 grs 7800 psi	19.5 grs 8500 psi

12-GAUGE 2 3/4 INCH FEDERAL GOLD MEDAL PLASTIC TARGET SHELLS

12-Gauge 7/8 and 1 Ounce Target Loads continued

Shot	Powder	Primer	Wad	Velocity / Charge Weight / Pressure		
				(oz)	1200 fps	1250 fps
7/8	Red Dot	Fed. 209A	WAA12SL & DRXL-1 & Jammer XL-1	17.0 grs 7300 psi	18.0 grs 8000 psi	19.0 grs 8400 psi
7/8	Red Dot	Fed. 209A	12SO & DRXXL (Orange)		19.0 grs 7900 psi	19.5 grs 8400 psi
7/8	Amer. Select	Fed. 209A	CB 1100-12			21.5 grs 6900 psi
7/8	Amer. Select	Fed. 209A	12SO & DRXXL (Orange)			21.0 grs 7300 psi
7/8	Amer. Select	Fed. 209A	Purple PC			21.5 grs 6900 psi
7/8	Amer. Select	Fed. 209A	TGT 12 & DRRT12			21.0 grs 7400 psi
7/8	Green Dot	Fed. 209A	12SO & DRXXL (Orange)			22.0 grs 7500 psi
7/8	Green Dot	Fed. 209A	Purple PC			22.5 grs 7000 psi
7/8	Green Dot	Fed. 209A	TGT 12 & DRRT12			22.0 grs 7200 psi
7/8	Green Dot	Fed. 209A	WAA12SL & DRXL-1 & Jammer XL-1			21.5 grs 7600 psi
7/8	Promo	Fed. 209A	Purple PC	17.0 grs 6400 psi	18.5 grs 7300 psi	19.5 grs 7900 psi
7/8	Promo	Fed. 209A	TGT 12 & DRRT12	17.5 grs 7100 psi	18.5 grs 7800 psi	19.5 grs 8500 psi
7/8	Promo	Fed. 209A	WAA12SL & DRXL-1 & Jammer XL-1	17.0 grs 7300 psi	18.0 grs 8000 psi	19.0 grs 8400 psi
7/8	Promo	Fed. 209A	12SO & DRXXL (Orange)		19.0 grs 7900 psi	19.5 grs 8400 psi
1	Clay Dot	Fed. 209A	12SO	17.9 grs 5870 psi	19.2 grs 6600 psi	
1	Clay Dot	Fed. 209A	DRXXL (Orange)	18.0 grs 8820 psi		
1	Clay Dot	CCI 209	DRXXL (Orange)	18.0 grs 6770 psi		
1	Clay Dot	Win. 209	DRXXL (Orange)	18.0 grs 7460 psi		
1	Clay Dot	RIO	DRXXL (Orange)	18.0 grs 6610 psi		
1	Clay Dot	Cheddite	DRXXL (Orange)	18.0 grs 7370 psi		
1	Clay Dot	Fiocchi 616	DRXXL (Orange)	18.0 grs 7490 psi		
1	Clay Dot	Rem. 209P	DRXXL (Orange)	18.0 grs 7930 psi		
1	Clay Dot	CCI 209M	DRXXL (Orange)	18.0 grs 8690 psi		
1	Clay Dot	Rem. 209P	TGT 12 & DRRT12	19.2 grs 6450 psi	20.2 grs 7320 psi	
1	Clay Dot	Win. 209	WAA12SL & DRXL-1 & Jammer XL-1	18.2 grs 5910 psi	19.1 grs 6730 psi	
1	Clay Dot	Fed. 209A	CB 6100-12	18.0 grs 6040 psi	19.0 grs 7170 psi	20.0 grs 7970 psi
1	Clay Dot	CCI 209	CB 6100-12	17.5 grs 5960 psi		

continued

12-GAUGE 2 3/4 INCH FEDERAL GOLD MEDAL PLASTIC TARGET SHELLS

12-Gauge 7/8 and 1 Ounce Target Loads continued

Shot	Powder	Primer	Wad	Velocity / Charge Weight / Pressure		
				(oz)	1200 fps	1250 fps
1	Amer. Select	Fed. 209A	CB 6100-12	19.0 grs 5910 psi	20.5 grs 6790 psi	21.5 grs 7290 psi
1	Amer. Select	CCI 209	CB 6100-12	19.5 grs 5790 psi		
1	Green Dot	Fed. 209A	CB 6100-12	19.5 grs 5980 psi	20.5 grs 6860 psi	22.0 grs 7230 psi
1	e3	Fed. 209A	Green Duster	16.5 grs 8310 psi	18.0 grs 9710 psi	18.5 grs 10035 psi
1	e3	Fed. 209A	TGT 12 & DRRT12	17.0 grs 8000 psi	18.0 grs 8840 psi	19.0 grs 9660 psi
1	e3	Fed. 209A	12SO & DRXXL (Orange)	17.5 grs 9040 psi	18.5 grs 9340 psi	19.5 grs 10070 psi
1	e3	Fed. 209A	CB 6100-12	16.5 grs 6780 psi		
1	e3	CCI 209	CB 6100-12	16.5 grs 6290 psi	18.0 grs 7270 psi	18.5 grs 7470 psi
1	Red Dot	Fed. 209A	12SO & DRXXL (Orange)	18.0 grs 8300 psi	19.5 grs 9300 psi	20.5 grs 10300 psi
1	Red Dot	Fed. 209A	Purple PC	18.0 grs 7400 psi	19.5 grs 8700 psi	20.5 grs 9300 psi
1	Red Dot	Fed. 209A	TGT 12 & DRRT12	18.0 grs 7900 psi	19.0 grs 8700 psi	20.0 grs 9100 psi
1	Red Dot	Fed. 209A	WAA12SL & DRXL-1 & Jammer XL-1	18.0 grs 8700 psi	18.5 grs 9100 psi	20.0 grs 10300 psi
1	Red Dot	CCI 209	CB 6100-12	18.0 grs 6430 psi		
1	Red Dot	Fed. 209A	CB 6100-12	18.0 grs 6550 psi	19.0 grs 6790 psi	20.0 grs 7910 psi
1	Amer. Select	Fed. 209A	CB 6100-12	20.0 grs 7300 psi	21.0 grs 7600 psi	21.5 grs 8000 psi
1	Amer. Select	Fed. 209A	12SO & DRXXL (Orange)	19.5 grs 7100 psi	21.0 grs 7700 psi	22.0 grs 8500 psi
1	Amer. Select	Fed. 209A	TGT 12 & DRRT12	19.5 grs 7500 psi	20.5 grs 8100 psi	21.5 grs 8800 psi
1	Amer. Select	Fed. 209A	WAA12SL & DRXL-1 & Jammer XL-1	19.5 grs 7200 psi	21.0 grs 8400 psi	21.5 grs 8800 psi
1	Green Dot	Fed. 209A	12SO & DRXXL (Orange)	20.5 grs 7600 psi	21.5 grs 8600 psi	22.5 grs 8700 psi
1	Green Dot	Fed. 209A	Purple PC	20.5 grs 7300 psi	21.5 grs 8000 psi	22.5 grs 8300 psi
1	Green Dot	Fed. 209A	TGT 12 & DRRT12	20.0 grs 7000 psi	21.5 grs 7900 psi	22.5 grs 8500 psi
1	Green Dot	Fed. 209A	WAA12SL & DRXL-1 & Jammer XL-1	20.0 grs 7800 psi	21.5 grs 8500 psi	22.5 grs 9000 psi
1	Green Dot	CCI 209	CB 6100-12	19.5 grs 6190 psi		
1	Promo	Fed. 209A	12SO & DRXXL (Orange)	18.0 grs 8300 psi	19.5 grs 9300 psi	20.5 grs 10300 psi
1	Promo	Fed. 209A	Purple PC	18.0 grs 7400 psi	19.5 grs 8700 psi	20.5 grs 9300 psi
1	Promo	Fed. 209A	TGT 12 & DRRT12	18.0 grs 7900 psi	19.0 grs 8700 psi	20.0 grs 9100 psi
1	Promo	Fed. 209A	WAA12SL & DRXL-1 & Jammer XL-1	18.0 grs 8700 psi	18.5 grs 9100 psi	20.0 grs 10300 psi

12-GAUGE 2 3/4 INCH FEDERAL GOLD MEDAL PLASTIC TARGET SHELLS

12-Gauge 1 1/8 Ounce Loads

Shot	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
				(oz)	1090 fps	1145 fps	1200 fps
1 1/8	Clay Dot	Fed. 209A	12S3 & DRF3		17.1 grs 7590 psi	19.0 grs 8750 psi	
1 1/8	Clay Dot	Fed. 209A	WAA12		17.0 grs 7680 psi	18.5 grs 8970 psi	
1 1/8	Clay Dot	Rem. 209P	Figure 8 & DRRF8		17.8 grs 6640 psi		18.9 grs 9870 psi
1 1/8	Clay Dot	Fed. 209A	CB 6118-12	16.5 grs 6710 psi	18.0 grs 7870 psi	19.0 grs 9540 psi	
1 1/8	e3	Fed. 209A	CB 6118-12	15.0 grs 7070 psi	16.5 grs 8100 psi	17.5 grs 8940 psi	
1 1/8	e3	Fed. 209A	CB 3118-12AR	15.5 grs 8210 psi	16.5 grs 8960 psi	17.8 grs 9990 psi	
1 1/8	e3	Fed. 209A	CB 4118	15.5 grs 7860 psi	16.5 grs 8365 psi	18.0 grs 9525 psi	
1 1/8	e3	Fed. 209A	Figure 8 & DRRF8	15.5 grs 7930 psi	17.0 grs 8875 psi	18.0 grs 9900 psi	
1 1/8	e3	Fed. 209A	WAA12 & DRA12 & DRXL 1 1/8	15.5 grs 8290 psi	16.5 grs 8980 psi	18.0 grs 10470 psi	
1 1/8	e3	Fed. 209A	WAA12SL & DRXL-1 & Jammer XL-1	15.5 grs 8485 psi	16.5 grs 9215 psi	18.0 grs 10755 psi	
1 1/8	e3	Fed. 209A	12S3 & DRF3 & DRXXL (Orange)	15.5 grs 8580 psi	17.0 grs 9260 psi	18.0 grs 10660 psi	
1 1/8	e3	Fed. 209A	Blue Duster	15.5 grs 8655 psi	16.5 grs 9520 psi	18.0 grs 10550 psi	
1 1/8	Amer. Select	Fed. 209A	CB 6118-12	18.5 grs 5330 psi	20.0 grs 6110 psi	20.5 grs 7640 psi	
1 1/8	Amer. Select	Fed. 209A	CB 3118-12	17.5 grs 7100 psi	19.0 grs 8200 psi	20.5 grs 9600 psi	22.0 grs 10600 psi
1 1/8	Amer. Select	Fed. 209A	12S3 & DRF3	17.5 grs 7100 psi	19.0 grs 7600 psi	20.5 grs 9200 psi	22.0 grs 10100 psi
1 1/8	Amer. Select	Fed. 209A	Versalite	17.0 grs 8100 psi	18.5 grs 9600 psi	20.0 grs 10900 psi	21.0 grs 10900 psi
1 1/8	Amer. Select	Fed. 209A	Figure 8 & DRRF8	17.5 grs 8000 psi	19.0 grs 9000 psi	20.0 grs 10300 psi	
1 1/8	Amer. Select	Fed. 209A	WAA12 & DRA12 & DRXL 1 1/8	17.5 grs 7400 psi	19.0 grs 9600 psi	20.5 grs 9400 psi	
1 1/8	Amer. Select	Fed. 209A	WT 12 (Orange)	18.0 grs 7700 psi	19.0 grs 9300 psi	20.5 grs 10400 psi	
1 1/8	Amer. Select	Fed. 209A	Windjammer		19.0 grs 8700 psi	20.5 grs 9800 psi	21.5 grs 10700 psi
1 1/8	Amer. Select	Rem. 209P	12S3 & DRF3		19.5 grs 7800 psi	21.5 grs 9000 psi	
1 1/8	Amer. Select	Win. 209	12S3 & DRF3		19.5 grs 8100 psi	20.5 grs 9900 psi	
1 1/8	Red Dot	Fed. 209A	CB 6118-12	16.5 grs 7290 psi	17.5 grs 8140 psi	18.5 grs 8690 psi	
1 1/8	Red Dot	CCI 209	12S3 & DRF3		18.0 grs 8200 psi	20.0 grs 9800 psi	
1 1/8	Red Dot	CCI 209M	12S3 & DRF3	17.0 grs 8300 psi	18.0 grs 8600 psi	19.0 grs 8900 psi	
1 1/8	Red Dot	Fed. 209A	12S3 & DRF3	17.0 grs 8400 psi	18.0 grs 8800 psi	19.5 grs 10000 psi	
1 1/8	Red Dot	Fed. 209A	Versalite	17.0 grs 8600 psi	18.0 grs 9400 psi	19.0 grs 10100 psi	20.0 grs 10700 psi

continued

12-GAUGE 2 3/4 INCH FEDERAL GOLD MEDAL PLASTIC TARGET SHELLS

12-Gauge 1 1/8 Ounce Loads continued

Shot	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
				(oz)	1090 fps	1145 fps	1200 fps
1 1/8	Red Dot	Fed. 209A	RXP 12		18.0 grs 9400 psi	19.0 grs 9900 psi	20.0 grs 10100 psi
1 1/8	Red Dot	Fed. 209A	WAA12 & DRA12 & DRXL 1 1/8	16.5 grs 8500 psi	17.5 grs 9400 psi	19.0 grs 10400 psi	
1 1/8	Red Dot	Fed. 209A	WAA12SL & DRXL-1 & Jammer XL-1	17.0 grs 8100 psi	18.0 grs 9200 psi	19.0 grs 10000 psi	
1 1/8	Red Dot	Fed. 209A	WT 12 (Orange)		18.5 grs 9300 psi	20.0 grs 10400 psi	
1 1/8	Red Dot	Fed. 209A	Windjammer	17.5 grs 7600 psi	18.5 grs 8200 psi	19.5 grs 9600 psi	20.5 grs 9500 psi
1 1/8	Red Dot	Fio. 616	12S3 & DRF3	17.5 grs 8200 psi			
1 1/8	Red Dot	Win. 209	12S3 & DRF3	17.0 grs 8400 psi	17.5 grs 9600 psi	19.0 grs 10500 psi	
1 1/8	Red Dot	Rem. 209P	12S3 & DRF3		18.5 grs 8200 psi	19.5 grs 9300 psi	
1 1/8	Green Dot	Fed. 209A	CB 6118-12	18.0 grs 6900 psi	19.5 grs 7220 psi	20.5 grs 7800 psi	
1 1/8	Green Dot	Fed. 209A	12S3 & DRF3	18.5 grs 7800 psi	19.5 grs 8100 psi	20.0 grs 9000 psi	21.5 grs 9500 psi
1 1/8	Green Dot	Fed. 209A	Versalite	18.0 grs 7200 psi	19.0 grs 8000 psi	20.5 grs 9400 psi	21.5 grs 9000 psi
1 1/8	Green Dot	Fed. 209A	Figure 8 & DRRF8	18.0 grs 7000 psi	19.0 grs 7700 psi	20.0 grs 8600 psi	22.0 grs 9200 psi
1 1/8	Green Dot	Fed. 209A	RXP 12		19.0 grs 8000 psi	20.0 grs 8800 psi	21.5 grs 9700 psi
1 1/8	Green Dot	Fed. 209A	WAA12 & DRA12 & DRXL 1 1/8	18.0 grs 7700 psi	19.0 grs 8200 psi	20.0 grs 9200 psi	21.5 grs 9400 psi
1 1/8	Green Dot	Fed. 209A	WAA12SL & DRXL-1 & Jammer XL-1	18.0 grs 7600 psi	19.0 grs 8200 psi	20.0 grs 8800 psi	
1 1/8	Green Dot	Fed. 209A	WT 12 (Orange)		20.0 grs 8400 psi	21.5 grs 8800 psi	
1 1/8	Green Dot	Fed. 209A	Windjammer	18.5 grs 6600 psi	19.5 grs 7700 psi	21.0 grs 8200 psi	22.5 grs 8400 psi
1 1/8	Green Dot	CCI 209	12S3 & DRF3		19.0 grs 7800 psi	22.0 grs 9200 psi	
1 1/8	Green Dot	CCI 209M	12S3 & DRF3		19.5 grs 7500 psi	21.0 grs 8600 psi	22.5 grs 9800 psi
1 1/8	Green Dot	Win. 209	12S3 & DRF3		19.5 grs 8000 psi	20.5 grs 9000 psi	22.5 grs 10500 psi
1 1/8	Green Dot	Rem. 209P	12S3 & DRF3		20.5 grs 6800 psi	21.5 grs 7900 psi	23.0 grs 8800 psi
1 1/8	Unique	CCI 209	12S3 & DRF3			24.0 grs 8300 psi	
1 1/8	Unique	CCI 209M	12S3 & DRF3			23.5 grs 8000 psi	24.0 grs 9100 psi
1 1/8	Unique	Fed. 209A	12S3 & DRF3			22.5 grs 7300 psi	23.5 grs 8100 psi
1 1/8	Unique	Fed. 209A	Versalite			22.0 grs 8000 psi	24.0 grs 8300 psi
1 1/8	Unique	Fed. 209A	Figure 8 & DRRF8			22.5 grs 7300 psi	23.5 grs 7800 psi
1 1/8	Unique	Fed. 209A	RXP 12			22.5 grs 7800 psi	23.5 grs 8400 psi
1 1/8	Unique	Fed. 209A	WAA12 & DRA12 & DRXL 1 1/8			22.5 grs 8100 psi	23.0 grs 8400 psi
1 1/8	Unique	Fed. 209A	WT 12 (Orange)			23.5 grs 8300 psi	
1 1/8	Unique	Fed. 209A	Windjammer			22.5 grs 6900 psi	24.0 grs 7700 psi
1 1/8	Unique	Win. 209	12S3 & DRF3			23.0 grs 8600 psi	24.0 grs 9800 psi
1 1/8	Unique	Rem. 209P	12S3 & DRF3			24.0 grs 6900 psi	25.0 grs 7600 psi
1 1/8	Herco	Fed. 209A	12S3 & DRF3				26.0 grs 8000 psi

12-GAUGE 2 3/4 INCH FEDERAL GOLD MEDAL PLASTIC TARGET SHELLS

12-Gauge 1 1/8 Ounce Loads continued

Shot	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
				(oz)	1200 fps	1225 fps	1425 fps
1 1/8	Herco	Fed. 209A	Versalite	26.0 grs 8200 psi			
1 1/8	Herco	Fed. 209A	Figure 8 & DRRF8	26.0 grs 7700 psi			
1 1/8	Herco	Fed. 209A	RXP 12	26.0 grs 8000 psi			
1 1/8	Herco	Fed. 209A	WAA12 & DRA12 & DRXL 1 1/8	26.0 grs 8300 psi			
1 1/8	Herco	Fed. 209A	Windjammer	26.0 grs 7400 psi			
1 1/8	Pro Reach	CCI 209M	Fed. 12S3				35.2 grs 10330 psi
1 1/8	Pro Reach	Rem. 209P	Fed. 12S3				35.0 grs 10270 psi

12-Gauge 1 1/4 Ounce Loads

1 1/4	Pro Reach	CCI 209M	12S4			30.5 grs 10860 psi	
1 1/4	Pro Reach	CCI 209M	WAA12F114				32.5 grs 11120 psi
1 1/4	Pro Reach	Fed. 209A	WAA12F114			30.5 grs 11190 psi	
1 1/4	Pro Reach	Fed. 209A	12S4			30.0 grs 11010 psi	
1 1/4	Unique	CCI 209M	12S4		24.5 grs 9500 psi		
1 1/4	Unique	Fed. 209A	12S4		24.0 grs 10500 psi		
1 1/4	Unique	Fed. 209A	SP 12		24.0 grs 10400 psi		
1 1/4	Unique	Fed. 209A	WAA12F114		24.0 grs 10600 psi		
1 1/4	Unique	Win. 209	12S4		24.0 grs 9500 psi		
1 1/4	Unique	Rem. 209P	12S4		25.0 grs 9800 psi		
1 1/4	Herco	CCI 209M	12S4		25.5 grs 8700 psi		
1 1/4	Herco	Fed. 209A	12S4		25.0 grs 10200 psi		
1 1/4	Herco	Fed. 209A	SP 12		26.0 grs 9700 psi		
1 1/4	Herco	Fed. 209A	WAA12F114		25.0 grs 10100 psi		
1 1/4	Herco	Win. 209	12S4		25.5 grs 9400 psi		
1 1/4	Herco	Rem. 209P	12S4		25.5 grs 8100 psi		
1 1/4	Blue Dot	CCI 209M	RP 12	34.0 grs 9400 psi			
1 1/4	Blue Dot	Fed. 209A	RP 12	34.0 grs 9700 psi			
1 1/4	Blue Dot	CCI 209M	RP 12	35.5 grs 8100 psi			
1 1/4	Blue Dot	Fed. 209A	RP 12	34.5 grs 9900 psi			

12-Gauge 1 3/8 and 1 1/2 Ounce Loads

Shot	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
				(oz)	1150 fps	1200 fps	1225 fps
1 3/8	Blue Dot	CCI 209M	RP 12				35.0 grs 8600 psi
1 3/8	Blue Dot	Fed. 209A	RP 12				34.0 grs 9900 psi
1 3/8	Blue Dot	Rem. 209P	RP 12				36.0 grs 7800 psi
1 3/8	Blue Dot	Win. 209	RP 12				34.5 grs 8600 psi

continued

12-GAUGE 2 3/4 INCH FEDERAL GOLD MEDAL PLASTIC TARGET SHELLS

12-Gauge 1 3/8 and 1 1/2 Ounce Loads continued

Shot	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
				(oz)	1150 fps	1200 fps	1225 fps
1 1/2	Herco	Fed. 209A	RP 12	25.5 grs 10100 psi			
1 1/2	Blue Dot	Fed. 209A	RP 12	33.5 grs 8300 psi			

12-Gauge 7/8 and 1 Ounce Target Loads

Shot	Powder	Primer	Wad	Velocity / Charge Weight / Pressure		
				(oz)	1200 fps	1250 fps
7/8	Red Dot	Fed. 209A	CB 0178	17.5 grs 6028 psi	18.5 grs 6570 psi	19.5 grs 7196 psi
7/8	Clay Dot	Fed. 209A	12SO & DRXXL (Orange)	17.5 grs 6400 psi	18.5 grs 6900 psi	19.5 grs 7390 psi
7/8	e3	Fed. 209A	CB 4100-12B	16.5 grs 6280 psi	17.5 grs 7075 psi	18.5 grs 7400 psi
7/8	e3	Fed. 209A	WAA12SL & DRXL-1 & Jammer XL-1	16.5 grs 6960 psi	17.5 grs 7345 psi	18.5 grs 8230 psi
1	Clay Dot	Fed. 209A	12SO & DRXXL (Orange)	18.0 grs 6770 psi	19.5 grs 8580 psi	
1	Clay Dot	Fed. 209A	CB 6100-12	18.5 grs 8610 psi	19.5 grs 8240 psi	20.5 grs 9210 psi
1	e3	Fed. 209A	12SO & DRXXL (Orange)	17.5 grs 8535 psi	18.5 grs 10065 psi	19.5 grs 10630 psi
1	e3	Fed. 209A	CB 6100-12	17.0 grs 7520 psi	18.0 grs 7960 psi	19.0 grs 8820 psi
1	Red Dot	CCI 209M	12S3 & DRF3			21.0 grs 8700 psi
1	Red Dot	Fed. 209A	12S3 & DRF3			20.5 grs 9000 psi
1	Red Dot	Fed. 209A	CB 6100-12	18.0 grs 7680 psi	19.0 grs 8410 psi	20.5 grs 8730 psi
1	Red Dot	Fed. 209A	12SO & DRXXL (Orange)			20.5 grs 10400 psi
1	Red Dot	Fed. 209A	Rem. R12L			20.0 grs 9300 psi
1	Amer. Select	Fed. 209A	CB 6100-12	19.5 grs 6510 psi	21.0 grs 7290 psi	21.5 grs 7930 psi
1	Promo	CCI 209M	12S3 & DRF3			21.0 grs 8700 psi
1	Promo	Fed. 209A	12S3 & DRF3			20.5 grs 9000 psi
1	Promo	Fed. 209A	CB 6100-12	18.0 grs 7680 psi	19.0 grs 8410 psi	20.5 grs 8730 psi
1	Promo	Fed. 209A	12SO & DRXXL (Orange)			20.5 grs 10400 psi
1	Promo	Fed. 209A	Rem. R12L			20.0 grs 9300 psi
1	Green Dot	CCI 209M	12S3 & DRF3			23.0 grs 7800 psi
1	Green Dot	Fed. 209A	12S3 & DRF3			23.5 grs 9400 psi
1	Green Dot	Fed. 209A	12SO & DRXXL (Orange)			22.5 grs 9200 psi
1	Green Dot	Fed. 209A	Rem. R12L			21.5 grs 8800 psi
1	Green Dot	Fed. 209A	CB 6100-12	20.5 grs 6850 psi	22.0 grs 7240 psi	

12-GAUGE 2 3/4 INCH FEDERAL GOLD MEDAL PAPER TARGET SHELLS

12-Gauge 1 1/8, 1 1/4, 1 3/8 and 1 1/2 Ounce Loads

Shot	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
				(oz)	1145 fps	1200 fps	1235 fps
1 1/8	Clay Dot	Fed. 209A	12S3 & DRF3	18.0 grs 9160 psi	19.5 grs 9750 psi		
1 1/8	Clay Dot	Fed. 209A	CB 6118-12	18.0 grs 7390 psi	19.0 grs 8690 psi		20.5 grs 10390 psi
1 1/8	e3	Fed. 209A	CB 4118-12B	17.0 grs 9385 psi	18.5 grs 9860 psi		
1 1/8	e3	Fed. 209A	CB 3118-12AR	16.5 grs 9375 psi	18.0 grs 10430 psi		
1 1/8	e3	Fed. 209A	Figure 8 & DRRF8	17.0 grs 8765 psi	18.0 grs 9640 psi		
1 1/8	e3	Fed. 209A	RXP 12	17.0 grs 9280 psi	18.0 grs 10320 psi		
1 1/8	e3	Fed. 209A	WAA12 & DRA12 & DRXL 1 1/8	17.0 grs 9815 psi	18.0 grs 10780 psi		
1 1/8	e3	Fed. 209A	CB 6118-12	17.0 grs 8500 psi	18.0 grs 9200 psi		19.0 grs 10410 psi
1 1/8	e3	Fed. 209A	12S3 & DRF3	17.0 grs 9640 psi	18.5 grs 10955 psi		
1 1/8	Red Dot	Fed. 209A	12S3 & DRF3	18.0 grs 8800 psi	19.0 grs 8900 psi		20.5 grs 9900 psi
1 1/8	Red Dot	Fed. 209A	Red PC	18.0 grs 8300 psi	19.0 grs 10300 psi		20.5 grs 10700 psi
1 1/8	Red Dot	Fed. 209A	Rem. R12L	18.5 grs 9300 psi	19.5 grs 9500 psi		
1 1/8	Red Dot	Fed. 209A	RXP 12	18.0 grs 8900 psi	19.0 grs 9900 psi		21.0 grs 10000 psi
1 1/8	Red Dot	Fed. 209A	WAA12 & DRA12 & DRXL 1 1/8	18.0 grs 8600 psi	19.0 grs 10500 psi		
1 1/8	Red Dot	Fed. 209A	Windjammer	18.5 grs 8200 psi	19.0 grs 8700 psi		
1 1/8	Red Dot	Fed. 209A	CB 6118-12	18.0 grs 8550 psi	19.0 grs 9160 psi		20.0 grs 9910 psi
1 1/8	Green Dot	Fed. 209A	12S3 & DRF3	18.5 grs 7400 psi	21.0 grs 7800 psi		23.0 grs 9100 psi
1 1/8	Green Dot	Fed. 209A	Versalite	19.5 grs 6900 psi	21.0 grs 8300 psi		22.5 grs 8500 psi
1 1/8	Green Dot	Fed. 209A	Red PC	20.0 grs 7600 psi	21.0 grs 8800 psi		22.5 grs 9600 psi
1 1/8	Green Dot	Fed. 209A	Rem. R12L	19.0 grs 8000 psi	20.0 grs 8600 psi		
1 1/8	Green Dot	Fed. 209A	RXP 12	18.5 grs 8100 psi	20.0 grs 8600 psi		21.5 grs 9300 psi
1 1/8	Green Dot	Fed. 209A	WAA12 & DRA12 & DRXL 1 1/8	18.5 grs 8000 psi	19.5 grs 9000 psi		21.5 grs 10500 psi
1 1/8	Green Dot	Fed. 209A	Windjammer	20.5 grs 6600 psi	22.0 grs 7700 psi		
1 1/8	Green Dot	Fed. 209A	CB 6118-12	20.0 grs 7380 psi	21.0 grs 7810 psi		22.5 grs 8840 psi
1 1/8	Promo	Fed. 209A	12S3 & DRF3	18.0 grs 8800 psi	19.0 grs 8900 psi		20.5 grs 9900 psi
1 1/8	Promo	Fed. 209A	Red PC	18.0 grs 8300 psi	19.0 grs 10300 psi		20.5 grs 10700 psi
1 1/8	Promo	Fed. 209A	Rem. R12L	18.5 grs 9300 psi	19.5 grs 9500 psi		
1 1/8	Promo	Fed. 209A	RXP 12	18.0 grs 8900 psi	19.0 grs 9900 psi		21.0 grs 10000 psi
1 1/8	Promo	Fed. 209A	WAA12 & DRA12 & DRXL 1 1/8	18.0 grs 8600 psi	19.0 grs 10500 psi		
1 1/8	Promo	Fed. 209A	Windjammer	18.5 grs 8200 psi	19.0 grs 8700 psi		
1 1/8	Promo	Fed. 209A	CB 6118-12	18.0 grs 8550 psi	19.0 grs 9160 psi		20.0 grs 9910 psi
1 1/8	Amer. Select	Fed. 209A	12S3 & DRF3	19.0 grs 8200 psi	20.5 grs 10400 psi		

continued

12-GAUGE 2 3/4 INCH FEDERAL GOLD MEDAL PAPER TARGET SHELLS

12-Gauge 1 1/8, 1 1/4, 1 3/8 and 1 1/2 Ounce Loads continued

Shot (oz)	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
				1145 fps	1200 fps	1235 fps	1250 fps
1 1/8	Amer. Select	Fed. 209A	Versalite	19.0 grs 7900 psi	20.0 grs 10100 psi		
1 1/8	Amer. Select	Fed. 209A	Figure 8 & DRRF8	19.0 grs 7600 psi	20.0 grs 9800 psi		
1 1/8	Amer. Select	Fed. 209A	WAA12 & DRA12 & DRXL 1 1/8	19.0 grs 8400 psi	20.5 grs 10400 psi		
1 1/8	Amer. Select	Fed. 209A	WT 12 (Orange)	19.0 grs 8100 psi	20.5 grs 10200 psi		
1 1/8	Amer. Select	Fed. 209A	Windjammer	19.5 grs 7100 psi	20.0 grs 9100 psi		
1 1/8	Amer. Select	Rem. 209P	12S3 & DRF3	19.0 grs 8500 psi	21.0 grs 9700 psi		
1 1/8	Amer. Select	Win. 209	12S3 & DRF3	19.0 grs 8900 psi	20.5 grs 9700 psi		
1 1/8	Amer. Select	Fed. 209A	CB 6118-12	19.5 grs 7290 psi	20.5 grs 8130 psi		22.0 grs 9440 psi
1 1/8	Unique	Fed. 209A	12S3 & DRF3		22.0 grs 7200 psi		23.0 grs 8300 psi
1 1/8	Unique	Fed. 209A	Versalite		22.0 grs 7900 psi		23.0 grs 8700 psi
1 1/8	Unique	Fed. 209A	Red PC		22.5 grs 8400 psi		24.5 grs 8500 psi
1 1/8	Unique	Fed. 209A	Rem. R12L		22.0 grs 7800 psi		
1 1/8	Unique	Fed. 209A	RXP 12		21.0 grs 8000 psi		22.0 grs 9500 psi
1 1/8	Unique	Fed. 209A	WAA12 & DRA12 & DRXL 1 1/8		21.0 grs 8600 psi		
1 1/8	Unique	Fed. 209A	Windjammer		23.5 grs 7600 psi		
1 1/4	Green Dot	CCI 209M	12S4			23.0 grs 10500 psi	
1 1/4	Green Dot	Fed. 209A	12S4			23.0 grs 10500 psi	
1 1/4	Green Dot	Fed. 209A	Versalite			23.0 grs 9600 psi	
1 1/4	Green Dot	Fed. 209A	SP 12			21.0 grs 9600 psi	
1 1/4	Green Dot	Fed. 209A	WAA12 & DRA12 & DRXL 1 1/8			21.0 grs 10500 psi	
1 1/4	Green Dot	Fed. 209A	WAA12F114			23.0 grs 9900 psi	
1 1/4	Green Dot	Rem. 209P	12S4			23.0 grs 9900 psi	
1 1/4	Unique	CCI 209M	12S4			25.5 grs 9700 psi	
1 1/4	Unique	Fed. 209A	12S4			24.0 grs 9800 psi	
1 1/4	Unique	Fed. 209A	Versalite			23.0 grs 8800 psi	
1 1/4	Unique	Fed. 209A	SP 12			22.0 grs 9600 psi	
1 1/4	Unique	Fed. 209A	WAA12 & DRA12 & DRXL 1 1/8			22.0 grs 10000 psi	
1 1/4	Unique	Fed. 209A	WAA12F114			23.5 grs 9500 psi	

12-GAUGE 2 3/4 INCH FEDERAL GOLD MEDAL PAPER TARGET SHELLS

12-Gauge 1 1/8, 1 1/4, 1 3/8 and 1 1/2 Ounce Loads continued

Shot	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
				(oz)	1145 fps	1200 fps	1235 fps
1 1/4	Unique	Rem. 209P	12S4			25.5 grs 9100 psi	
1 1/4	Unique	Win. 209	12S4			24.5 grs 10600 psi	
1 3/8	Blue Dot	CCI 209M	SP 12				34.5 grs 9500 psi
1 3/8	Blue Dot	Fed. 209A	SP 12				34.0 grs 9900 psi
1 3/8	Blue Dot	Rem. 209P	SP 12				36.0 grs 8300 psi
1 3/8	Blue Dot	Win. 209	SP 12				34.5 grs 9500 psi
1 1/2	Herco	Fed. 209A	SP 12	25.0 grs 10200 psi			
1 1/2	Blue Dot	Fed. 209A	RP 12	32.5 grs 8800 psi			
1 1/2	Blue Dot	CCI 209M	RP 12		35.0 grs 9400 psi		
1 1/2	Blue Dot	Fed. 209A	RP 12		34.0 grs 9300 psi		
1 1/2	Blue Dot	Rem. 209P	RP 12		34.5 grs 10300 psi		
1 1/2	Blue Dot	Win. 209	RP 12		35.0 grs 9600 psi		

12-GAUGE 2 3/4 INCH FIOCCHI PLASTIC TARGET SHELLS

12-Gauge 7/8 and 1 Ounce Target Loads

Shot	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
				(oz)	1200 fps	1250 fps	1300 fps
7/8	Red Dot	Fio. 616	12SO	17.5 grs 6700 psi	19.0 grs 6900 psi	19.5 grs 8800 psi	
7/8	Red Dot	Fio. 616	Purple PC	17.5 grs 6400 psi	19.0 grs 6700 psi	20.0 grs 8600 psi	
7/8	Red Dot	Fio. 616	TGT 12 & DRRT12	17.0 grs 6900 psi	18.5 grs 7000 psi	20.0 grs 7900 psi	
7/8	Red Dot	Fio. 616	WAA12SL & DRXL-1 & Jammer XL-1	17.0 grs 6700 psi	18.5 grs 6800 psi	20.0 grs 8100 psi	
7/8	Green Dot	Fio. 616	Purple PC			22.5 grs 7700 psi	
7/8	Green Dot	Fio. 616	TGT 12 & DRRT12			22.0 grs 7600 psi	
7/8	Green Dot	Fio. 616	WAA12SL & DRXL-1 & Jammer XL-1			22.0 grs 7900 psi	
7/8	Promo	Fio. 616	12SO	17.5 grs 6700 psi	19.0 grs 6900 psi	19.5 grs 8800 psi	
7/8	Promo	Fio. 616	Purple PC	17.5 grs 6400 psi	19.0 grs 6700 psi	20.0 grs 8600 psi	
7/8	Promo	Fio. 616	TGT 12 & DRRT12	17.0 grs 6900 psi	18.5 grs 7000 psi	20.0 grs 7900 psi	
7/8	Promo	Fio. 616	WAA12SL & DRXL-1 & Jammer XL-1	17.0 grs 6700 psi	18.5 grs 6800 psi	20.0 grs 8100 psi	
1	Red Dot	Fio. 616	12SO	18.0 grs 9100 psi			
1	Red Dot	Fio. 616	Purple PC	18.0 grs 8100 psi	19.0 grs 9500 psi	21.0 grs 9800 psi	
1	Red Dot	Fio. 616	TGT 12 & DRRT12	18.0 grs 8500 psi	19.0 grs 9300 psi	20.5 grs 10100 psi	
1	Red Dot	Fio. 616	WAA12SL & DRXL-1 & Jammer XL-1	18.0 grs 8500 psi	19.0 grs 9500 psi	20.5 grs 10300 psi	
1	Green Dot	Fio. 616	12SO	20.0 grs 8100 psi			
1	Green Dot	Fio. 616	Purple PC	20.0 grs 7200 psi	21.0 grs 8200 psi	23.0 grs 8400 psi	

continued

12-GAUGE 2 3/4 INCH FIOCCHI PLASTIC TARGET SHELLS

12-Gauge 7/8 and 1 Ounce Target Loads continued

Shot	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
				(oz)	1200 fps	1250 fps	1300 fps
1	Green Dot	Fio. 616	TGT 12 & DRRT12	20.0 grs 7400 psi	21.0 grs 8400 psi	22.5 grs 8600 psi	
1	Green Dot	Fio. 616	WAA12SL & DRXL-1 & Jammer XL-1	20.0 grs 7900 psi	21.0 grs 8100 psi	22.5 grs 9400 psi	
1	Promo	Fio. 616	12SO	18.0 grs 9100 psi			
1	Promo	Fio. 616	Purple PC	18.0 grs 8100 psi	19.0 grs 9500 psi	21.0 grs 9800 psi	
1	Promo	Fio. 616	TGT 12 & DRRT12	18.0 grs 8500 psi	19.0 grs 9300 psi	20.5 grs 10100 psi	
1	Promo	Fio. 616	WAA12SL & DRXL-1 & Jammer XL-1	18.0 grs 8500 psi	19.0 grs 9500 psi	20.5 grs 10300 psi	

12-Gauge 1 1/8, 1 1/4, 1 3/8 and 1 1/2 Ounce Loads

Shot	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
				(oz)	1090 fps	1145 fps	1200 fps
1 1/8	Amer. Select	Fio. 616	CB 3118-12AR	18.0 grs 7100 psi	19.5 grs 8000 psi	21.0 grs 9000 psi	22.5 grs 10700 psi
1 1/8	Amer. Select	Fio. 616	12S3 & DRF3	17.5 grs 7400 psi	19.0 grs 8700 psi	20.5 grs 9400 psi	22.0 grs 10300 psi
1 1/8	Red Dot	Fio. 616	Versalite	16.5 grs 8100 psi	17.5 grs 9000 psi	18.5 grs 9500 psi	
1 1/8	Red Dot	Fio. 616	Figure 8 & DRRF8	16.0 grs 8000 psi	18.0 grs 8400 psi	19.5 grs 9600 psi	20.5 grs 10200 psi
1 1/8	Red Dot	Fio. 616	RXP 12	16.5 grs 8700 psi	18.0 grs 8700 psi	19.5 grs 9700 psi	
1 1/8	Red Dot	Fio. 616	WAA12 & DRA12 & DRXL 1 1/8	17.0 grs 7600 psi	18.0 grs 9000 psi	19.5 grs 9400 psi	
1 1/8	Red Dot	Fio. 616	WAA12SL & DRXL-1 & Jammer XL-1	17.0 grs 7300 psi	18.0 grs 8300 psi		
1 1/8	Red Dot	Fio. 616	Windjammer		18.5 grs 7400 psi	20.0 grs 8600 psi	21.0 grs 9400 psi
1 1/8	Red Dot	Fio. 616	12S3 & DRF3	16.0 grs 8400 psi	18.0 grs 9200 psi	19.0 grs 9700 psi	
1 1/8	Green Dot	Fio. 616	Versalite	18.5 grs 7100 psi	19.5 grs 7500 psi	21.0 grs 8200 psi	22.5 grs 9300 psi
1 1/8	Green Dot	Fio. 616	Figure 8 & DRRF8	18.5 grs 6500 psi	20.0 grs 7100 psi	21.5 grs 8500 psi	23.0 grs 8800 psi
1 1/8	Green Dot	Fio. 616	RXP 12	18.5 grs 6700 psi	20.0 grs 7200 psi	21.5 grs 7900 psi	23.0 grs 9200 psi
1 1/8	Green Dot	Fio. 616	WAA12 & DRA12 & DRXL 1 1/8	18.5 grs 7000 psi	20.0 grs 7600 psi	21.5 grs 8100 psi	23.0 grs 8900 psi
1 1/8	Green Dot	Fio. 616	Windjammer		19.5 grs 7200 psi	21.0 grs 7700 psi	22.5 grs 9000 psi
1 1/8	Green Dot	Fio. 616	12S3 & DRF3	18.5 grs 7200 psi	20.0 grs 7500 psi		
1 1/8	Promo	Fio. 616	Versalite	16.5 grs 8100 psi	17.5 grs 9000 psi	18.5 grs 9500 psi	
1 1/8	Promo	Fio. 616	Figure 8 & DRRF8	16.0 grs 8000 psi	18.0 grs 8400 psi	19.5 grs 9600 psi	20.5 grs 10200 psi
1 1/8	Promo	Fio. 616	RXP 12	16.5 grs 8700 psi	18.0 grs 8700 psi	19.5 grs 9700 psi	
1 1/8	Promo	Fio. 616	WAA12 & DRA12 & DRXL 1 1/8	17.0 grs 7600 psi	18.0 grs 9000 psi	19.5 grs 9400 psi	
1 1/8	Promo	Fio. 616	WAA12SL & DRXL-1 & Jammer XL-1	17.0 grs 7300 psi	18.0 grs 8300 psi		
1 1/8	Promo	Fio. 616	Windjammer		18.5 grs 7400 psi	20.0 grs 8600 psi	21.0 grs 9400 psi

12-GAUGE 2 3/4 INCH FIOCCHI PLASTIC TARGET SHELLS

12-Gauge 1 1/8, 1 1/4, 1 3/8 and 1 1/2 Ounce Loads continued

Shot	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
				(oz)	1090 fps	1145 fps	1200 fps
1 1/8	Promo	Fio. 616	12S3 & DRF3	16.0 grs 8400 psi	18.0 grs 9200 psi	19.0 grs 9700 psi	
1 1/8	Unique	Fio. 616	Versalite			24.0 grs 7100 psi	25.0 grs 7800 psi
1 1/8	Unique	Fio. 616	Figure 8 & DRRF8			23.5 grs 7000 psi	24.5 grs 7600 psi
1 1/8	Unique	Fio. 616	RXP 12			22.5 grs 7200 psi	23.5 grs 8200 psi
1 1/8	Unique	Fio. 616	WAA12 & DRA12 & DRXL 1 1/8			23.5 grs 6800 psi	25.0 grs 7800 psi
1 1/8	Unique	Fio. 616	Windjammer			24.0 grs 6400 psi	25.5 grs 6900 psi
1 1/8	Herco	Fio. 616	Versalite				25.5 grs 7700 psi
1 1/8	Herco	Fio. 616	Figure 8 & DRRF8				26.0 grs 7300 psi
1 1/8	Herco	Fio. 616	RXP 12				26.0 grs 7500 psi
1 1/8	Herco	Fio. 616	WAA12 & DRA12 & DRXL 1 1/8				26.0 grs 7900 psi
1 1/8	Herco	Fio. 616	Windjammer				26.5 grs 7700 psi
1 1/4	Green Dot	CCI 209M	Rem. R12H				24.5 grs 8000 psi
1 1/4	Green Dot	Fio. 616	12S4				23.0 grs 9700 psi
1 1/4	Green Dot	Win. 209	WAA12F114				23.0 grs 10000 psi
1 1/4	Unique	Fio. 616	12S4				25.0 grs 8800 psi
1 1/4	Unique	Win. 209	WAA12F114				25.0 grs 8700 psi
1 1/2	Blue Dot	Fio. 616	RP 12		32.5 grs 8700 psi		
1 1/2	Blue Dot	CCI 209M	RP 12			33.0 grs 9500 psi	36.5 grs 10600 psi
1 1/2	Blue Dot	Fio. 616	RP 12			36.5 grs 9000 psi	37.5 grs 9600 psi
1 1/2	Blue Dot	Win. 209	RP 12			35.5 grs 8600 psi	36.5 grs 10300 psi

12-GAUGE 2 3/4 INCH REMINGTON PLASTIC SHELLS (STS, NITRO 27, PREMIER RXP AND GUN CLUB)

12-Gauge 2 3/4 inch 1 1/8, 1 1/4 AND 1 3/8 Ounce Heavy Loads

Shot	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
				(oz)	1275 fps	1310 fps	1330 fps
1 1/8	Unique	CCI 209M	RXP 12		25.0 grs 10000 psi		
1 1/8	Unique	Fio. 616	RXP 12		26.0 grs 9900 psi		
1 1/8	Unique	Rem. 209P	Versalite		25.5 grs 9900 psi		
1 1/8	Unique	Rem. 209P	RXP 12		24.5 grs 9700 psi		
1 1/8	Unique	Rem. 209P	WAA12 & DRA12 & DRXL 1 1/8		25.0 grs 10500 psi		
1 1/8	Unique	Rem. 209P	Windjammer		26.5 grs 8600 psi		
1 1/8	Unique	Win. 209	RXP 12		26.0 grs 9800 psi		
1 1/8	Herco	CCI 209M	RXP 12		26.5 grs 9700 psi		
1 1/8	Herco	Win. 209	RXP 12		27.0 grs 9300 psi		
1 1/8	Herco	Fio. 616	RXP 12		27.5 grs 9300 psi		

continued

12-GAUGE 2 3/4 INCH REMINGTON PLASTIC SHELLS (STS, NITRO 27, PREMIER RXP AND GUN CLUB)

12-Gauge 2 3/4 inch 1 1/8, 1 1/4 and 1 3/8 Ounce Heavy Loads continued

Shot (oz)	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
				1275 fps	1310 fps	1330 fps	1375 fps
1 1/8	Herco	Rem. 209P	Versalite		27.0 grs 8800 psi		
1 1/8	Herco	Rem. 209P	RXP 12		27.5 grs 8400 psi		
1 1/8	Herco	Rem. 209P	WAA12 & DRA12 & DRXL 1 1/8		27.0 grs 8800 psi		
1 1/8	Herco	Rem. 209P	Windjammer		28.5 grs 8600 psi		
1 1/4	Herco	Rem. 209P	SP 12	27.0 grs 10700 psi			
1 1/4	Herco	Rem. 209P	WAA12F114	26.5 grs 10500 psi			
1 1/4	Herco	Win. 209	SP 12	26.0 grs 10600 psi			
1 1/4	Blue Dot	Win. 209	SP 12	35.5 grs 9100 psi		36.5 grs 9900 psi	
1 1/4	Blue Dot	CCI 209M	SP 12	34.5 grs 9800 psi		35.5 grs 10300 psi	
1 1/4	Blue Dot	Fio. 616	SP 12	34.5 grs 9300 psi		35.5 grs 9900 psi	
1 1/4	Blue Dot	Rem. 209P	CB 1138-12			37.5 grs 10200 psi	
1 1/4	Blue Dot	Rem. 209P	SP 12			37.5 grs 9700 psi	
1 3/8	Blue Dot	CCI 209M	RP 12		35.5 grs 10400 psi		
1 3/8	Blue Dot	Fio. 616	RP 12		35.5 grs 10000 psi		
1 3/8	Blue Dot	Rem. 209P	SP 12		37.5 grs 10300 psi		
1 3/8	Blue Dot	Win. 209	RP 12		35.5 grs 10500 psi		
1 3/8	Blue Dot	Rem. 209P	RP 12		36.5 grs 9900 psi		

12-GAUGE 2 3/4 INCH FEDERAL GOLD MEDAL PLASTIC TARGET SHELLS

12-gauge 2 3/4 inch 1 1/8, 1 1/4 and 1 3/8 Ounce Heavy Loads

Shot (oz)	Powder	Primer	Wad	Velocity / Charge Weight / Pressure			
				1275 fps	1310 fps	1350 fps	1440 fps
1 1/8	Herco	Fed. 209A	WAA12F114				30.0 grs 10500 psi
1 1/8	Herco	Fed. 209A	Red PC				32.0 grs 10500 psi
1 1/8	Green Dot	Fed. 209A	RXP 12		24.0 grs 10400 psi		
1 1/8	Green Dot	Fed. 209A	WAA12 (White)		23.0 grs 10400 psi		
1 1/8	Green Dot	Fed. 209A	Windjammer		24.0 grs 8800 psi		
1 1/8	Unique	Fed. 209A	Versalite		25.0 grs 10000 psi		
1 1/8	Unique	Fed. 209A	RXP 12		26.0 grs 10300 psi		
1 1/8	Unique	Fed. 209A	WAA12 (White)		25.0 grs 9200 psi		
1 1/8	Unique	Fed. 209A	Windjammer		25.0 grs 9700 psi		
1 1/4	Herco	Fed. 209A	SP 12	27.0 grs 10100 psi			
1 1/4	Herco	Fed. 209A	WAA12F114	27.0 grs 10500 psi	28.0 grs 10800 psi		
1 1/4	Herco	Rem. 209P	12S4	27.5 grs 9200 psi			
1 1/4	Herco	Fed. 209A	Red PC		29.0 grs 10000 psi		
1 1/4	Blue Dot	CCI 209M	12S4	35.0 grs 9100 psi			
1 1/4	Blue Dot	Fed. 209A	12S4	34.0 grs 8900 psi			