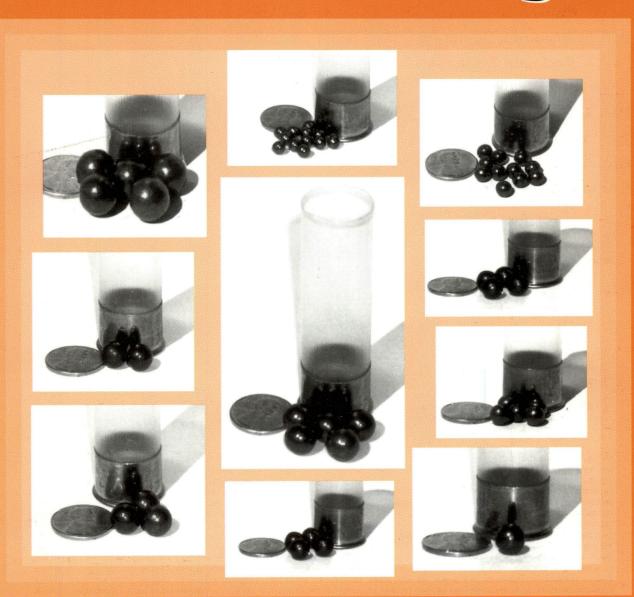
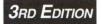


Buckshot Loading III



How to make high performance buckshot loads





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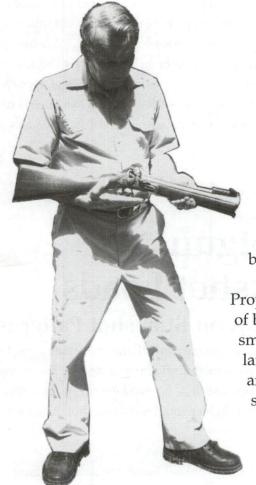
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Buckshot Technology



Buckshot loads are effective because they make the most of two disparate factors: the elevated energy contained in the mass of a large pellet and the broad impact of multiple pellet dispersion. The combination allows a shooter to hit his target even though the firearm may not be aimed directly. With these two assets buckshot loads have the knockdown power necessary for larger game as well allowing for high speed, high stress shooting. In hunting, law enforcement and self-defense, buckshot loads are a viable and practical answer.

Proper application of buckshot loads becomes a question of balancing a load between pattern density qualities of smaller sizes and downrange energy effectiveness of larger pellets. Somewhere between a single projectile and a cloud of fine-gamebird pellets will be a buckshot size suitable for your specific needs.

For many years shooters have demonstrated a wide variety of applications for buckshot loads. Unfortunately, buckshot loads are underrated, misunderstood and often under-applied due to confused and muddled legislative directives limiting a firearm's effectiveness. Fired at shorter ranges, at quick targets and through thick cover, buckshot loads are often the ideal projectile(s) in regards to energy and complete on target coverage.

For whatever your application, the process of creating versatile buckshot loads is fast growing and pertinent information is in demand. The following information and data is, in our estimation, an important means of providing quality ammunition for security and hunting.

Warning: Where data contained on labels, in catalogs and booklets list specific components; no changes or substitutions for these components can be made, except substitutions of shot sizes that will equate to exactly the same weight charge listed, without risking significant changes in the level of ballistic performance and/or safety of the lads shown. Follow loading data exactly and do not substitute components.

We make no warranties, express or implied; limited or full; specifically disclaim any and all warranties of fitness for particular purpose and merchantability; and specifically disclaim any and all liability for consequential damages of any kind whatsoever. Failure to comply with standardized warnings of reloading; lead and all other pellet types; dram equivalence; powder and primer storage and measurement; component applications and the safe and appropriated use of firearms per se or the use published data exactly as shown may result in accidents with serious injury and/or death to the shooter and/or bystanders.



Advantages of Handloading Buckshot

To serve the purpose of the shooter, buckshot loads may be constructed in several ways. Choosing multiple pellet loads implies that the shooter desires to flood a target zone with pellets. However, buckshot loads can be engineered to disperse patterns according to your needs; you determine how tightly focused (number of target hits) or open (improved chance of striking target) each load will be influenced toward. Well-designed, high-performance buckshot loads utilize a wide range of materials and components that direct the outcome toward a specific objective. Since buckshot loads are intended to be utilized over a wide range of applications, from birds to varmit to big game, each buckshot load, to become a superior buckshot load, needs to be purposefully designed and assembled. For this reason alone, buckshot loads assembled by handloaders cannot be duplicated by mass-production methods.



Your Shotgun and Buckshot Loads Barrel Influences on Buckshot Patterns

As with all types of loading, your shotgun's chamber, forcing cone, bore and finally, the choke, represent major influential factors of downrange pattern quality. Buckshot, because of its size and energy, is less influenced by fly-away pellets than lighter small sized birdshot; it just weighs too much and tends to stay in motion.

An overly-constricted (too tightly choked) barrel can actually disrupt an otherwise organized buckshot pattern. If the load in transition through the choke is congested the pellets can become deformed, resulting in a less effective pattern and loss of energy.

Each buckshot pellet is individually occupying space that might otherwise be occupied by several smaller birdshot pellets. Smaller pellets can, of course, adjust more easily, accommodating changes in the barrel, especially made manifest by a tightly-constricted choke. Because forward energy is strong, and lateral influences are minimized with the big buck shot pellets, tightly constricted chokes are not necessary to keep the pellets centered and may even be detrimental to dense long range patterns.

The area between the chamber and the barrel is called the forcing cone. This transition area can either be quite abrupt or nicely tapered over a few inches. Most loads, and especially buckshot loads, perform better when the transition is eased into place, the outcome of elongated forcing cones.

Lengthening forcing cones is an easy modification for a qualified gunsmith to make on your shotgun. Improved patterns and reduced recoil are two immediate and worthwhile benefits.



Barrel Length

Most buckshot loads will be heavy loads, using slow burning powders for high velocity propulsion. The pellets are heavy and benefit, as we have examined, from gentle guidance during their journey down the barrel. In putting these two factors together, we can logically conclude that a longer barreled shotgun is a better buckshot gun. Though most of the powder is burned in the first 24 inches of barrel, there is always a potential for a little extra velocity when we work within the domain of magnum powders and the last few percentage points.

Gauge Relationship

As you shoot buckshot you will discover that the loads always seem to work better in the larger gauges — irrespective of all other conditions. Why's that? Well, it's a size relationship. The larger bore diameter works to the pellets advantage, as part of a whole, by accommodating more pellet shifting and adjustment as the payload travels the length of the barrel. Shooting #4 buckshot through a ten gauge is kind of like using regular #2s in the 12 gauge. The more space there is for accommodation, the better.

Buckshot Payloads and patterns

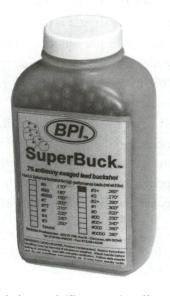
Your shotgun will work best with one payload or another. Upland shotguns produce better patterns with lighter loads and big, waterfowl guns with overbored barrels make the most of heavy magnums. Try several different payloads after you have found a favorite buckshot size. Somewhere within the spectrum you will find a weight offering both tolerable recoil and downrange performance.

Super Buckshot

What is it and Why is it an Advantage?

Buckshot is made in a wide range of sizes from .170"(B) to 0000 (quadruple-aught). Selecting a size for your needs is playing the percentages between pattern coverage and pellet energy. The smaller sizes are appropriate for fast-moving targets; typical shotgun moments where timing is even more critical than point of aim. Birds fall into this category. Balance your needs for pattern with extended range advantages intrinsic to buckshot loads. Larger buckshot pellets bring with them increased levels of per pellet energy to the target and as such, are used accordingly on larger game, on up to big game, as exemplified by hunters in the Eastern United States.

Buckshot quality, measured by roundness and hardness, is directly correlated to the performance it delivers. Better quality pellets deliver more energy per size, allowing the shooter to use smaller pellets, increasing pellet count per payload, increasing the odds of lethal hits. Less energy is wasted to deformed (fly-away) pellets.



MUSIC WALLDING

Super BuckshotTM, available from Ballistic Products and our network of retailers, begins as a superior lead alloy of uniform density. A specialized production technique produces perfectly round, compressed (swaged) balls. Super Buckshot is free of sprue marks, lines and creases found on lesser quality pellets. Material superiority allows Super Buckshot to fly true: offering maximum penetration and patterns. Handloaders are often seeking the last 10 percent of performance from their loads. Quality pellets will give 10 percent and more.

Buckshot Size/Weight Standards for Load Data

Super Buckshot is unique in its adherence to a standard in size, roundness and hardness. For this reason, the statistics, values, weights and measurements of all buckshot pellets used in this informational guide are based only upon the Ballistic Products, Inc. special design Super Buckshot pellets. Using high-performance recipes with substitute brand pellets will not produce proper fit and finish, and may require adjustments that could affect load performance.

Antimony Content

Antimony is an alloy used to make pellets hard, which reduces deformed pellets in a pattern. Though it does a great job of making lead pellets harder, as it becomes a larger portion of the alloy it makes manufacturing pellets more difficult. Super Buckshot's 3% antimony content is just about all the antimony that can be packed into a large buckshot pellet.

Pattern Energy Effectiveness

Even the smaller Super Buckshot pellets generate rather massive downrange energy and it's worth the time of any reloader to really explore the potential of the different sizes. Often a "small" Super Buck pellet will do the job quite nicely, even when the shooter may anticipate needing about two sizes larger. By using the smallest size acceptable for the job at hand you will get the densest possible patterns.

Buckshot Size And Downrange Power

Reloaders should remind themselves that all the buckshot sizes carry astonishing energy out to 100 yards. The smallest Super Buckshot pellet "B" (.170") is very punishing, more so with multiple pellet hits. Individually, pellet hits in #4 [.240"] Super Buckshot, and larger given enough velocity, create tremendous stopping power (big game levels). However, what makes the shotgun supreme at short range is multiplying those hits.

The reloader should carefully consider pellet size when creating a load. It is possible for shooters to use pellets well beyond lethal size for their game, thus giving up or reducing effectiveness of buckshot's punch — the multiple hits of an effective pattern. We have seen shooters using huge buckshot pellets when smaller pellets may actually provide a better, more balanced load. By perusing the size descriptions on the following pages you can make a more informed decision regarding pellet sizes and your own requirements.

Buckshot Load Fit And Finish

Maybe you've had the really fat person sit next to you as you fly coach class across the country. You probably found there wasn't much extra room for...you. In a similar way, large buckshot pellets each occupy a good percentage of available space inside a load; their arrangements are something you have to take into consideration beforehand.

Like the larger seats available in front of the curtain (first-class section), buckshot is made more comfortable with upgraded accommodations — your leftover trap wads just will not do. Extra care has to be taken in order to make best use of space and protect the wad's base from the extraordinary forces produced by magnum buckshot payload setback. By carefully and orderly stacking the buckshot payloads, we have found that more space within the shotcup can be used to contain pellets than wasted space. To this end, we have assembled specific pellet stacking guidelines to be used within an overall balanced recipe.



Most buckshot loads require hulls with plenty of internal space, such as the Cheddites shown above. Additional space accomodates the increased volume requirements of buckshot payloads.

Putting together proper, functional buckshot loads is loosely defined by examination of what components can "fit" into a specific hull. Loads are defined by the components used to create them. Even the powder selected will define a portion of the volume remaining for the other components, including the buckshot. Buckshot loads are usually heavy and the pellets take up a lot of space. Because the payloads are heavy, the loads usually use a greater volume of slower burning powder for proper long-range performance. You can make your loading much easier down the road if you choose hulls that accommodate big, bulky loads. Winchester AA™ hulls, although popular down at the trap range for high-energy, low-volume loads are not useful for large-capacity buckshot loads. The base of the AA is designed to taper in a thickening wall, finally funneling down to the primer. The new High-StrengthTM AATM, hulls use a separate base, but similar shape as the originals. These are also great for small trap loads with small amounts of high energy, double based powders. For most buckshot loads, we will recommend you stow the AA hulls and use spacious thin-walled, flat based hulls. BPI's Multi-Hulls™, Federal Gold Medal™, and Fiocchi™ hulls are all high volume; they work well with many different buckshot loads.

We elaborate on the subject of hulls because we get many inquiries regarding loads for specific hull brands. For instance, we are asked: "You show a load using IMR powder and a Fiocchi hull that I can't find at my local store. Why don't you make that load with Red Dot powder and a Winchester AA hull?" The answer, of course, is that it wouldn't work very well. Doing so would be akin to plopping a tractor engine into an Indy race car and wondering how come you can't qualify to race. Excellent loads, designed for specific, high-performance needs, demand excellent components. The buckshot loads described herein were assembled and tested in a specific configuration not to be changed or modified. Even when some slight change may not disrupt the original load design, testing each possible "slight" change or alternatives becomes overwhelming, especially when we already know that the change is not beneficial to the loads objective; ultimate performance. When a tried and true recipe calls for a certain type of seasoning, an experienced chef does not change the recipe to fit the seasoning on hand.

5

Converting "Regular" Loads To Buckshot Loads

Under some conditions, birdshot loads can be converted to buckshot loads. Many series of tests have indicated that the same weight of buckshot in a load that contained fine lead birdshot will produce only tiny, almost immeasurable differences in chamber pressures.

The largest factor in converting loads from birdshot to buckshot happens when you try to crimp the loads closed. Space designed to be occupied by #7-1/2 birdshot may not work for anything much larger, let alone buckshot. The increased volume demand of buckshot has to be considered as a separate variable.

Successful conversions may mean looking for loads with cardboard filler wads or wads with large cushion sections. If the smaller shot load is using filler wads below the pellets for space occupation, the larger volume buckshot load may work just fine - occupying the space formerly used by the stacked filler wads.

In an application of pellet size comparison, particularly when the size difference is substantial, you will find two factors at work when the loads are fired:

- 1. The travel time, especially at longer ranges will be shorter for the larger pellet loads. They will be holding onto their momentum longer than lighter, smaller pellets.
- 2. The buckshot pellets will drop less over a given distance - perhaps necessitating an adjustment in aim and leads.

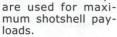
Since most buckshot loads require specific specialized components and buckshot recipes take advantage of these components for pattern management and velocity, you may find better results, more easily, by following a specific buckshot recipe from this manual.

Part 3 **Inside the Load - Buckshot Payloads**

Cross fit, round fit and stacking are terms we use to describe dynamics of fitting gauge, components, and buckshot payload volume. Any changes involving one or more of these key factors will affect fit and finish of the load. For instance, a cross fit of two #OOO buckshot pellets (.360") provides a cross fit length of .360" + .360" or .720" or close to the nominal bore size of the 10 gauge of .755". Of course, that leaves pretty much no space for a normal shotcup, but we can accommodate, and have, with components such as Teflon wraps. Teflon® is a product made by Dupont® often used as a coating for cookware.

Smaller pellet loads do not require orderly stacking and for the smaller space gains, stacking is an impractical effort; to attempt to do so would require the patience of a cottonwood tree. When contemplated limited space and a large buckshot pellet loads, though, there are several planning strategies the reloader can use to more effectively utilize available space.







Ordered buckshot pellet stacking removes random spacing between the pellets which, with large buckshot pellets, becomes a factor in proper fit and crimping. Pellet stacking, as outlined in this manual, allows for more performance using less space. Since buckshot pellets each represents a larger percentage of the payload, patterns are strengthened by efficient use of payload space. The difference between an orderly stacked load of buckshot and a random drop can be as high as ten percent - which is quite a bit as you strive for consistency in load pressure and velocity.

Along with the size and application descriptions of each pellet size, this manual includes a stacking guide for each relevant size of buckshot. Using it will help you determine which specialized components will be the best choice for a successful load. Do not get overly caught up in tiny details though - perhaps forgetting that the great number of components you see outlined outnumber factory-loaded buckshot offerings by a huge margin. The guide is here not just to help you make loads, but to help you make *better* loads.

Some bore sizes are more compatible with certain sizes of pellets than another. Certain wad types or combinations will accommodate certain size/payload volumes, particularly in the stacked, large pellet arrangements. Find your favorite buckshot size and cross-reference that pellet with the shotgun gauge you intend on using along with your favorite wad combination. Sometimes the best things are not the easiest to find, but usually worth the time to research. Check the stacking charts before you start loading.

Buckshot Stacking: How-to

The principle behind stacking buckshot pellets is the same principle found in loading and shooting of larger steel pellets. That principle: the greater the angle of surface contact between two pellets, the greater the tendency those pellets will travel at an angle to each other. In other words, any order given to the buckshot inside the hull will reduce the amount of random influences that may affect the pellet's straight flight. With smaller buckshot pellets, the greater number of pellets makes up for a loss of pattern density — larger pellets magnify "patchiness" making holes in the pattern look very bad.

The effort of stacking pellets in a load may require you to use a wooden dowel to tamp pellets into position. A slight bit of force is okay as many of the buckshot loads will require some pressing to get the pellets properly seated. As you drop the pellets into the hull, we suggest using a layer by layer approach. Regardless of the pressure you apply, there will only be a limited number of pellets that can occupy a limited cylindrical area.

In the stacking guide, layers refers to the horizontal layers of pellets (how many pellets fit next to each other on a horizontal plane) and columns or stacks refers to the vertical plane - pellets set on top of each other.



Super Buckshot

Size Definitions, Summaries and Stacking Guide



#0000 Super Buckshot .38" 85 grains each.

The #OOOO or "quadruple aught" is .38 inches in diameter and weighs in at a husky 85 grains per pellet. A little more than 1/5th of an ounce each! In the smaller gauges, these pellets become difficult to work with, but are just fine in 10 and 12 gauge. Certain specific loads can be assembled in the smaller gauges. Can be used as a slug in the .410 GA. Excellent size for big game where allowed. Tactical load applications.

0000 Stacking Guide

10GA LAYER= 2

X10X GAS SEAL, FILLER WAD, TEFLON WRAP,

12GA All other combinations are random pellet seatings.

000 Super Buckshot .36" 70 grains each.



The #OOO or "triple aught" is .36" in diameter and weighs in at about 70 grains each in the form of the hardened pellet. That translates to about 1/6 an ounce per pellet. In other words, SIX pellets will equal slightly less than one ounce.

000 Stacking Guide

The #OOO buck will allow itself to be arranged in layers of THREE in the 10 gauge hull with a thin coating of TEFLON WRAP as the shot stacking wrap. TWELVE of these very large pellets will create a MIGHTY 2.0 ounce load.

The #OOO in the 12 gauge lines up very well in layers of two. Since the #OOO buck pellet does not require many layers of these very large pellets to exceed the weight we can reasonably shoot in the 12 gauge, we find that

#OOO Super Buckshot has been overlooked in 12 gauge loads. Again, a layer of Teflon Wrap around the #OOO pellets operates as a fine shot carrier. Excellent size for big game -- where allowed. Tactical load applications.

10GA LAYER=3 (TIGHT) COLUMN = (5 or 6)

X10X, FILLER WAD, TEFLON WRAP

10GA LAYER=2 (TIGHT)

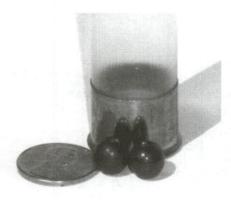
BPD10™ WAD WOOL FELT (CHOICE)

COLUMN =(5 or 6) 12GA LAYER=2

X12X GAS SEAL, FILLER (CHOICE), TEFLON WRAP

Random Stacking:

10GA	BPD-10, BDP10-TUFF™	7 TO FILL
12GA	RANGER PLUSTM	6 TO FILL
12GA	BP12 TM	6 TO FILL
12GA	MG-42/STS	7 TO FILL



00 Super buckshot .34" 54 grains each.

The 00, or "double-aught" buck at 1/8 of an ounce per pellet is the most frequently used buckshot size for security and tactical loads. It all started when the U.S. Postal Service opted to protect the mail from train robbers back in the 1880s. Fired through 10 gauge double-barreled shotguns, 00 buck became standard for protection of railway guards and postal workers. 00 is still the standard for many government ammunition contracts in 12-gauge loads.

00 buck is on the large end of what can reasonably be loaded in the 12 gauge using "standard" shotcups layers of two pellets. With any

type of modern plastic shotcup, layers of three cause the hull to pimple outward. This does nothing for the "looks" nor the fit of the load. Only Teflon Wrap allows an improved, near perfect fit for layers of three 00 buck in the 12 gauge.

Loading Notes:

Whenever a plastic shotcup is used in large 3 pellet layer buckshot loads, we suggest that the load be made up of SINGLE OUGHT buckshot [0 BUCK] and even then, the fit can be tight. Note that #1 buckshot .30" is a perfect fit inside a thin wall standard plastic shotcup and the pellet is still heavy enough to make a crushing load at 11 pellets per ounce. The 10 gauge offers a tight layer of four 00 buckshot using the Teflon Wraps. Yes, it really is tight, but Teflon Wraps will help prevent hull pimples. Five stacks of four pellets in the 10 gauge using the Teflon Wraps results in a mighty load of heavy shot (20 pellets).

The 12 gauge hull and the Teflon Wrap will beautifully support a column of three pellets layers. Cut the Teflon Wrap for the right height of the column that you desire and create some large buckshot loads.

Four stacks of four pellets results in a 2.0 ounce / sixteen pellet load that will render Swiss cheese out of nearly anything! The BPD-10-TUFF will stack nicely and protect the 00 buck for long range shooting with layers of three.

Six stacks of three 00 pellets will fit into the BPD-10-TUFF wad providing 18 heavy-duty longer range pellets at a total weight of nearly 2 1/4 oz.

The Remington® SP10 wad will just about contain four stacks of three 00 buck pellets for a total of 12 pellets, or 1-1/2 oz.

In a special .410 bore application: the Stretch wad holds two pellets of the #OO neatly stacked on top of each other.

00 Stacking Guide:

12C A	I AVER-2 polloto
-	COLUMNS = (UP TO 7)
10GA	LAYER=2BPD10-TUFF, WOOL FELT OR CORK IN BASE
	Columns = (UP TO 9)
10GA	LAYER=2BPD-10, WOOL FELT OR CORK IN BASE
	Columns = CHOICE
	X10X, FILLER, (2)TEFLON WRAPS
10GA	LAYER= 3 pellets
	0

12GA LAYER=3 pellets X12X, WOOL FELT OR CORK, TEFLON WRAP -COLUMNS = (3,4 OR 5) PERFECT

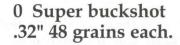
12GA LAYER=2 G/BP SHOTCUPS COLUMNS= 4 IN CUP, 5 OVER THE TOP

RANDOM STACKING:

12GA	MG-42	MIX=9
12GA	RANGER+	MIX=8
12GA	BP12	MIX=8

00 post-script: "Grandpa" knew what he was doing. A short barreled 10 gauge with a heavy load of 00 buck was something that made you stop and think before you screwed around with Grandpa's property. Grandpa was on the leading edge of tactical loading and here we are several generations later using the same basic technology with greatly improved hardware!







The often overlooked single aught buckshot pellet is a marvel of fit and striking power.

When considering smaller pellets the multiple hits concept must be mentioned. The destructive power of multiple hits becomes apparent to most shotgun-using bird hunters where, regardless of pellet size, multiple pellet hits drop a bird immediately.

When utilizing the shotgun, be careful not to become entangled within the single projectile shooter's world. The shotgun is a multi-pellet delivery system and designed for such. Use it to your advantage and smoke that target with multiple pellet hits!

The 10 gauge allows a perfect fit of layers of four 0 buck pellets using the Teflon Wrap. If the load is intended for longer range, stacking pellets is disregarded and the BPD-10-TUFF wad with 0 buck produces an effective hard-hitting long range load.

In the 12 gauge, the 0 buck pellet will stack into layers of three and calls for Teflon Wrap to be used in the load. NINE pellets of single ought buckshot (layers of three in three columns) result in a tactical one ounce load that is low recoil and hard hitting. Utilizing Teflon Wrap the reloader can place FOUR stacks of THREE pellets to build a 1 3/8 ounce load. Heavier loads may be made using TEFLON WRAP in 12 gauge combinations of smaller based wads.

#0 BUCK ASSORTED WAD COMBINATIONS

The reloader may utilize G/BP large capacity wads, the Federal® 12S4 the G/BP Magnum 42 (STS) or the Remington SP12 wads with O buckshot. Twelve pellets of single ought buckshot (four stacks of three pellets) fit nicely into the G/BP Magnum 42 offering 1-3/8 ounce of very heavy hitting load.

The 12 gauge plastic shotcup offers a tight, but not unreasonable fit. The tight fit may show up as slightly raised pimples on the outside of the hull.

#0 Stacking Guide

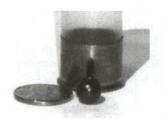
10GA	LAYER=4	X10X, FILLER, TEFLON WRAP
	COLUMN =	CHOICE
10GA	LAYER=3	BPD10, WOOL FELT OR CORK IN BASE
	COLUMN =	UP TO 7
10GA	LAYER=3	BPD10-TUFF WOOL FELT OR CORK IN BASE
	COLUMN =	UP TO 7
12GA	LAYER=3	X12X, FILLER, TEFLON WRAP
	COLUMN =	UP TO 5
12GA	LAYER=2	MG-42
	COLUMN=6	PERFECT

Random Stacking:

12GA BP12	MIX=9
12GA RANGER+	MIX=10
12GA G/BP MG42	MIX=10



#1 SUPER BUCKSHOT .30" 40 grains each.



Another overlooked mid-sized pellet, the #1 Super buckshot, is large enough for deep penetration and even a lighter load will create multiple hits. The shot size allows for utilization of this size in the BPD-10-TUFF wad without stacking to create massive longer range 10 gauge loads.

This type of load offers exceptional, highly disruptive hitting power. In the 10 gauge hull, the #1 buck pellet size will not permit tight packing and the "loose" or mixed arrangement is best suited for the BPD-10-TUFF wad combination.

The Remington SP10 thin wall wad offers a good fit for the #1 sized buckshot when used with STACKED LAYERS of FOUR. The SP10 shotcup will hold 16 pellets (approximately $1\ 1/2\ oz$.) in this configuration.

The 12 gauge and the #1 buckshot pellet offer a distinctive fit for large loads in COL-UMNS of THREE pellet layers with a Teflon Wrap.

The #1 buckshot size also has a very fine fit when stacking in 12 gauge plastic wads: Federal 12S4, G/BP Magnum 42 or the Remington SP12 using LAYERS of THREE. The G/BP Magnum 42 hold LAYERS of THREE for FOUR COLUMNS or a total of 12 pellets.

#1 Buckshot Stacking Guide

10GA	LAYER=4	X10X, FILLER, TEFLON WRAP
10GA	COLUMNS = CHOICE LAYER=3	BPD-10, WOOL FELT OR CORK IN BASE
	COLUMNS= UP TO 7 (LC	OOSE)
10GA	LAYER=6	BPD10-TUFF, WOOL FELT OR CORK IN BASE -
	COLUMNS = UP TO 6	
12GA	LAYER=3	X12X, FILLER, TEFLON WRAP
12011	COLUMNS = CHOICE	ALL VIII DELLA TELLE DELLA TITLE
12GA	LAYER=3	G/BP large capacity wads
	COLUMNS=4	
12GA	LAYER=3	MG-42
	COLUMNS=5	
12GA	LAYER=2	BP12
	COLUMNS=6	



MIX(12) GOOD FIT

12GA RANGER+



#2 SUPER BUCKSHOT .270" 29.0 grains each.

#2 Super Buckshot in the 10 gauge offers "spacious" layers. A good candidate for buffered loads. A double Teflon Wrap is an option as well, depending on which you prefer.

The #2 buck in the Remington SP10 wad will not quite stack itself in concentric rings. However, it is very close and some order is produced, but not LAYERS of pellets. The same can be said for the BPD-10-TUFF wad as the #2 BUCK pellet forms rings, but not layers of pellets.

In the 12 gauge, the #2 BUCK pellet is a better fit. Using the Teflon Wrap, the #2 BUCK pellets adjust themselves into smooth LAYERS of FOUR pellets. The Teflon Wrap can support 6 columns of #2 BUCK pellets. The G/BP Magnum 42 plastic wads load neatly in LAYERS of FOUR pellets holding FOUR COLUMNS [or FIVE COLUMNS overfilled].

#2 BUCKSHOT STACKING GUIDE

10GA ALL RANDOM MIX

12GA LAYER=3 RANGER+ WOOL FELT OR CORK IN BASE COLUMN=7

12GA LAYER=4 X12X, FILLER, (2)TEFLON WRAPS COLUMNS = TO MAXIMUM CAPACITY

#3 SUPER BUCKSHOT .26" 23.5 grains each.

The #3 buckshot pellet is small enough to randomize into any shotcup or wrap in the 10 gauge or the 12 gauge. However, the 20 gauge SG20 "Sporting Twenty" neatly holds LAYERS of THREE in FOUR COLUMNS of the #3 SUPER buckshot (or nearly 3/4 oz.) for an effective 20 gauge buckshot load.



The #3 buck size run 18.5 to the ounce and is capable of very dense patterns at maximum ranges.

No stacked load configurations.





#4 Super Buckshot .24" 20.3 grains each.

There is little point in attempting to stack this pellet in the larger gauges but capacities are interesting.

G/BP Magnum 42 holds 25 pellets or near 1 1/8 oz. BP-12 shotcup holds 26 pellets or near 1 1/4 oz. TURKEY RANGERTM holds 32 pellets or near 1 1/2 oz. SP10 WAD holds 27 pellets or near 1 1/4 oz. BPD-10-TUFF* holds 49 pellets or near 2 3/8 oz.

*unmodified with felt wads or cork wads.



#F Super Buckshot .22" 16.1 GR.

F Super Buck is a longtime favorite for winged-game. Lead is not legal to use on migratory waterfowl, but we carry #F in steel shot. The size remains one of the most effective for long-range waterfowl shooting; conditions often found on the Northern Plains, Oklahoma and Texas. #F Buck is the largest size we recommend for steel shot loads. (Note: Follow specific steel shot loading data (Status of Steel manual). Do not load steel shot into lead shot recipes).

Some superior 28 gauge loads have been created using #F buck. Try layers of 3 in 4 columns.

No other loadings require stacking.



#T Super Buckshot .20" 12.8 GR.

#T is also available in steel shot and is an excellent choice for 12 gauge 3-1/2" and 12 gauge 3" magnum loads.

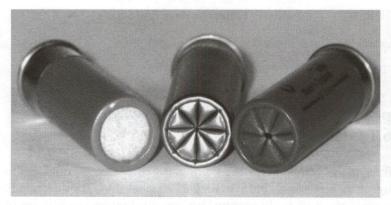
No other loadings require stacking.

Part 4

Buckshot load assembly procedures

Roll Crimps And Fold Crimps

Crimps are the most critical function of handloading with regards to final load performance and handloader's input. A poor crimp will allow the expanding gasses of the burning powder to prematurely push the crimp open. In this scenario pressures drop off too quickly, removing this necessary ingredient of a proper powder burn cycle. Poor crimps are at fault for blooper loads more than any other component or factor of a load. Crimps are critical.



This photo shows three types of crimps: On the left is a roll crimp with an overshot card holding the payload firmly in place. Roll crimps are a good choice for buckshot loads since they offer the flexibility necessary for small adjustments. In the center is an 8-point crimp and on the right, a six-point crimp. Use a six-point crimp if you are folding; it leaves more space between folds to accommodate the large buckshot pellets.

A handloader has the option of fold crimp or roll crimp hull closures. With modern mass production techniques, fold crimps have become a standard production method for shell closure. Factories used to use a roll crimp, but machinery evolved to a point where fold crimps were cheaper to produce. Though fold crimps work well with finely sized bird shot, we find that larger pellets do not fit within or between the folds as well, therefore wasting needed space. Six point crimps have larger spaces, that's why you see the six pointer used more for hunting loads. Though the six pointer is most often enough for larger sizes, it just is not enough for buckshot sizes. We've found that going back to the tradition rollcrimped loads solved space accommodation problems by giving the loads a flat platform to sit against as well as solid, reliable crimps.

Factories would probably prefer to use roll crimps on their buckshot loads too, but keeping and servicing that much additional equipment, for a very small percentage of their millions of mass-produced loads, would be cost-prohibitive. Factory loads seem to be based upon a #7 1/2, 1-1/8 oz. lead trap load. Every other load they manufacture in mass is a variant of that original configuration. The handloader, on the other hand, has it easy. Low numbers of production (less than a million, we assume) means that you can purchase the tools to "roll your own". Almost everyone has access to a hand drill. That is item number one. The others are the roll crimping chuck that fits into the drill and a specially designed vise, used to hold the shell in place. The roll crimping tool is available in every gauge- even .410. If you were starting from scratch, and even needed to buy a drill, you can still get all of the equipment listed here for under \$100. Roll crimps can be used on all load types, including all slug types.

How to: Roll Crimping



The roll crimping procedure is easy: Place an overshot card on top of the pellet charge, place the roll crimp tool on top of the hull, start the drill (making sure it is turning clockwise as you look down from behind). Apply some light pressure and check progress as you go along; later you will develop a "feel" for how it is going. Roll the lip down until it makes contact with the overshot card wad. You're done now.

The handloader should note that roll crimped loads and fold crimped loads usually offer approximately the same average chamber pressures and velocities. However, roll crimped loads offer more consistent containment, resulting in better load ignition across the spectrum of shooting conditions. Pressures and velocities remain consistent where sometimes with fold crimps, they do not.

Clear Overshot Disks

Ballistic Products offers Clear Overshot Disks so that a roll crimped load's contents can be identified after the shell is closed. In use, they look like little windows on top of the hull. The clear disks work exactly like the usual .030" overshot, the clear disks are simply a nifty alternative.

Clear Overshot Disks are manufactured of clear, thin, purposefully-brittle plastic. Perfectly sized and suited for containing the load, as well as offering a "sight-window" to see the pellets, they will shatter at the moment of ignition, removing themselves as a factor, and patterns are unaffected.

Hulls to use for Roll Crimping

New Hulls

We recommends using new hulls for quicker and easier production of large quantities of buckshot ammunition. New hulls have not been exposed to the heat and stresses of a previous firing and therefore the internal seals are 100%. Every time a shell is fired it is a little closer to an eventual breakdown, either in the crimp area or the base. Crimps become brittle and inflexible due to their exposure to heat and force of opening. By whatever percentage, the crimp is giving up a bit of performance on every successive firing. The hull's base, likewise, is exposed to heat and pressure. Ultimately, the seal between the hull tube and the brass becomes brittle and leaky. It has been demonstrated over and over again under laboratory conditions that each successive firing in a hull is inferior to the one before it. Using new hulls guarantees that the hull itself will not affect performance. New hulls are most critical for heavy hunting loads using slow-burning powders, typical of buckshot.

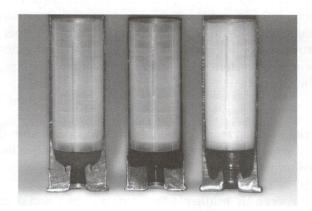
Trimmed Hull Loads

The reader will note that some of the load recommendations offer details on loading hulls trimmed to shorter lengths. Many previously fired hulls can easily be converted into easy-to-manufacture buckshot loads with a simple application of the "Trim Doctor" hull trimming tool. . To create a shorty load we usually set the Trim Doctor tool to remove entire crimp section of the old hulls (just about 1/4 inch, creating a hull with an overall length of approximately $2\,1/2$ inches). Sometimes, if you are using a shotgun with a tube magazine, these short loads will offer a critical extra load or two capacity.



Hull Selection

There are two factors to weigh in selecting hulls for buckshot loads: First, load objective (what you expect the load to do) and secondly, load type and the components that will be used within the loads. In order to get to part two, load type, you better have hulls capable of handling the component requirements. When we choose hulls for our own buckshot loads we go directly to Multi-Hulls, Fiocchi, Cheddite and Federal straight-walls. If we are rummaging for once-fires, we look for thin straight walled designs such as Federal Gold Medal® and the Remington® straight-walled type sixes. Compression based, or tapered based hulls need not apply. The new hulls we describe all have large internal capacities and since they are uncrimped, new tubes, they are predisposed toward roll crimping; a real time-saver for buckshot handloaders. Flat, consistent crimps are necessary for cycling shells into the chamber when you use a pump or semiautomatic shotgun.



Hull basewads in a cut-away. From left to right: #1 is the original Winchester AA hull basewad, #2 is typical Riefenhauser hull construction, with a flat, separate base. #3 is an example of an extra deep basewad to accommodate high volumes of powder and components. This particular example is an Activ hull. Federal made some that are quite similar in appearance.

Compression Formed Hulls

Compression formed hulls are those that look very much like Winchester's AA. The hull's walls become thicker toward the integrated basewad (as opposed to the basewad being a separate part) and the base is generally more bowl-shaped rather than a flat surface.

The tapered wall of compression formed hulls creates a unique condition (not favorable for buckshot loads) of rapidly diminishing space and load pressure augmentation. If you look carefully on the shelves of your local sporting goods store, you will see that manufacturers of compression formed hulls do not utilize this particular hull design when making large size buckshot pellet loads. Generally, you will want to stay with the straight walled hulls for best fit and finish of large payloads.

Hulls - Base Heights

The hull manufacturers sometimes change hull inside base heights to suit a particular load's components requirements. While the exterior markings of the hulls are identical, there can be a 1/8" difference of base height. Slight changes in base height, such as described, do not proportionally or arbitrarily change load pressures. Different inside base heights can require making fine adjustments to insure a proper crimp. Components like felt wads, cardboard wads and cork fillers are added to adjusting hull volume.

Fast Field Load Identification



If quick positive visual identification of a load is beneficial to you as a shooter, you may want to consider the Fiocchi Clear Plastic Hull in the 12 gauge $2\,3/4$ ". Sometimes, we have these specialized hulls in stock and use them ourselves. The nifty feature of the clear hulls is you look right through them, enabling you to identify shot size and type, wad type, and powder type. For those of us less apt to mark or organize our loads this feature is invaluable. If you want this type of hull, order them when you see them in stock — they are a "special run" item, and as such are not always available. Whatever hull the reloader selects can be made into a fine buckshot load as long as that hull's design limitations (or advantages) are considered, understood and applied.

Avoiding Problems with Wads:

Sure you can use wad pressure as a method of adjusting crimp height with target loads. The adjustment happens in the cushion section of the wad, located just below the shotcup and just above the gas seal. It is the section often most artfully crafted in target wads. By design, more pressure equals more space. However, the design has limitations such as payload weight overwhelming the cushion, or when the entire cushion is bottomed out; crushed in an attempt to overload the wad with too much volume. Both of these conditions are pervasive when you load buckshot -- the pellets take a lot of space and most of the practical loads are heavy. These are a couple good reasons that directly substituting buckshot for birdshot often results in an inferior load.



The G/BP MG/42 - STS 12 gauge wad is designed with a cushion section, for high-capacity hunting loads. It is a good choice for a handloader seeking a very accommodating wad for many load types.

When we begin to work with large capacity hunting loads we need to change the character of the wad to consistently deliver our heavy, fast-moving payloads to the end of the barrel. The adjustment extremes of large pellet payloads, such as buckshot, require compressing the cushion section of 1-1/8 oz. target wads into a contortion where they no longer seal between the powder and payload. Unfortunately, damaged seals are usually not visible after assembling the load. It is easier than you may think to damage a seal during assembly, just ask the operators of high speed production equipment.

Don't misuse components. Stick with stated capacities of wads. Yes, we have seen data produced that exceeds wads stated capacities, but, at that point it is overloaded and shot-to-shot consistency will suffer for the wide swings in chamber pressures and velocities.

Handloaders must remember that the size of buckshot as well as the payload selected for a particular load has great influence over other component options. Shotshells only have a given amount of internal space and that space can either be put to use or wasted. Buckshot is a unique animal and many times we find ourselves seeking very specific pellet / component combinations.

Wads designed for maximum capacity loads use stacked cork or felt filler wads for payload height adjustment. Cork and/or felt filler wads produce better loads by cushioning the payload during initial setback, a moment when pellets are susceptible to deforming. Adding more to a load will deliver better pellets downrange, so it's a win-win for a reloader to fill any available space with one or the other.



Here's a look at a .030" overshot card in place. This load is ready for either a fold or roll crimp. Overshot card wads do more than deliver a pretty crimp, they seal the load from moisture and assist the closure in generating proper pressure for full combustion.

Yes, we still get a lot of calls for Activ hulls. Though you cannot get Activ hulls anymore, the Multi-Hull has taken it's place as our premier hull for high-performance handloads. (Follow specific Multi-Hull loading data. Do not substitute hulls).





Cork wads, in 1/8" and 1/4" thickness are placed inside the shotcup, below the pellets, creating a perfect payload height for crimping. How many, and the thickness used to acquire proper payload height (around 1/4" from top of the shell) is up to you, the reloader. Assert yourself. 12 gauge cork/felt fits inside 10 gauge shotcups and 20 gauge cork/felts fit inside 12 gauge shotcups.



Filler Wads: Descriptions and Applications

Nitro Card Most buckshot loads are constructed using multiple wad components. The



loads fit better and perform better when handloaders take the time to build a perfect wad column using filler wads. Nitro cards, manufactured of a sturdy, sometimes waxed, cardboard are used in applications where the filler wads may be able to contribute to gas

containment. Nitro card wads are not as flexible as the fiber wads, and for that reason, should not be counted upon to compress very much during the crimping stage.

If you are going to be using nitro cards below the gas seal, to raise the entire wad column upward 1/10", use a nitro card of the very same gauge as the load. Using Nitro Card wads as an additional sealer/filler will increase performance of many loads by creating more consistent firing conditions and bringing a load up to an ideal height for closure. Chamber pressures are only nominally affected in most loads. If you wish to place the seal inside the shotcup, use one that is a couple gauges smaller than the application; for instance, a twenty gauge nitro card fits nicely into a 12 gauge shotcup.

Waxed Hard Card Wads

Ballistic Products now offers very hard waxed cardboard wads, in one-half inch thick sizing, in 10, 12, 16 & 20 gauge. Waxed hard card wads are used in the same applications as the aforementioned Nitro Card wads and are especially suitable for loads that require stacking of 5 or more 1/10" thick nitro card wads.



Fiber Wads

Fiber filler wads, available in a variety of thickness and gauges, are used as a space-consuming filler wad. Fiber wads are very soft and flexible. They are not capable of functioning as a gas seal. Fiber wads have an additional feature, helpful for some specialty load configurations: they can be split with a finger nail (or any type of knife) for proper fit in any load.



Overshot Card Wads

Overshot card wads are placed on top of the shot payload the moment before you crimp a load closed. They hold critical components (like buffer and shot) within a load, even if your crimps are none too pretty. Furthermore, overshot card wads help the combustion cycle get under way by helping the crimp do its job containing the loads initial thrust. When the load is moving down the barrel, the card board is chewed up by the energy laden pellets, falling out of the way in little pieces before it could ever affect the pattern. For very full loads we use a thin piece of Dupont Tyvek® overshot card. In most loads though, we use the .030" Overshot Card. Overshot Card wads improve every hunting load in which they are used, regardless of type.





Specialty Component: Teflon Wrappers For 10 And 12 Gauge Buckshot Loads



Teflon Wraps are available for 10 and 12 gauge. Used as a sleeve for the buckshot, the wraps, placed on top of X10X, X12X, BPGS or GS2 Air Wedge gas seals, offer a maximum payload solution for buckshot. Pellets remain incredibly round and space within the hull is maximized. Neat trick - first run through our labs about 25 years ago.

In application, the Teflon Wrappers are rolled into a cylindrical shape and placed into the hull on top of the gas seal. This sheathing becomes a carrier for a near perfect, friction-free launch of Super Buckshot pellets. The Teflon wrap provides a slippery surface enabling the pellet column to easily move through the barrel and constricting choke area, an area of your shotgun that might otherwise destroy the best of buckshot loads. The buckshot, riding along with the Teflon Wrap, makes the harsh transition through the choke area with ease and flow. This easier passage allows the larger buckshot pellets to retain their shape for a better pattern concentration throughout their flight to the target.

Teflon Wraps require the use of a gas seal over the powder and probably some wool felt or cork spacer

wads to construct a proper wad column for crimping. The 12 gauge gas seal, the BPGS or the X12X, allows the Teflon Wrap to coil around the crown of the seal in a perfect circle. Many buckshot loads utilize this handy feature.

The Teflon wrap, by itself, produces no increase in tested load pressure (even reducing pressures in many combinations) and can be used with most loads to raise the load performance from a "standard" buckshot load to a "high performance" buckshot load.

The Teflon Wrap is offered in two sizes for the reloader. The 10 gauge size measures 2.30" long by 1.60" high. The 12 gauge Teflon wrap measures 2.20" long by 1.60 high.

The problem of balancing protection of the buckshot payload from pattern ruining barrel scrub against payload capacity has been addressed by our research staff in a quite unique manner. Teflon (a trademarked Dupont product) is a wonderful product that has come to mean a number of things to the consumer. From slick frying pan surfaces that are to easy to clean to near friction-free spray lubricant. Teflon in a thin film becomes an ideal material with which to encase lead buckshot.

Relative to the barrel diameter, buckshot is a much larger-than-normal pellet. Shotgun barrel design often has constrictions, rough spots, forcing cones etc., designed for and accommodative of a much smaller "average" pellet. Most barrel limitations are overcome or at least greatly reduced by the Teflon layer for far better load results.



Plastic Hunting Wads for Buckshot

BPD-10TM



We use both the traditional soft 10 gauge BPD-10 and the very special tough BPD-10-TUFF one piece units for magnum buckshot loads. The original BPD-10 with its patented "focused taper" internal design is designed for maximum 10 gauge performance with any type of lead shot. There is no other way to say it: if you want optimum 10 gauge patterns with high velocity loads, use the Original BPD-10 Pattern Driver.

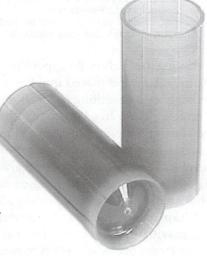
If your load requires an even larger internal capacity than the BPD-10 offers, try using load data featuring the BPD-10 Tuff (our extremely high capacity 10 gauge steel shot wad) or the Multi-Metal series wads. The Multi-Metal wads have the largest internal capacity of any wad we offer, and with this, are capable of protecting even the heaviest buckshot loads all the way down the barrel.

Ranger PlusTM 12 Gauge

A 12 gauge one piece wad, providing a large shotcup section and gas seal base made of very tough plastic. Perfect for long-range shooting of smaller buckshot pellets especially fox & coyote loads. Ranger Plus wads are suitable for 2-3/4", 3" & 3-1/2" hulls. The design of the Ranger Plus is based upon the Original BPD-10 Pattern Driver and carries all the benefits to the 12 gauge.

Turkey Ranger™ 12 Gauge

A softer, supple plastic version of the Ranger Plus for heavy loads of plated shot and the buckshot used in 12 gauge loads. Thick petalled wad focuses patterns at range, hence its name. Generally used with finer pellets, more accommodative of very tight chokes, the Turkey Ranger is used to advantage with some buckshot loads, and can be put to a distinct advantage through shotguns with modified or more open chokes.





MG-42 (G/BP)

A 12 gauge one piece wad used to quickly make effective 1 3/8 oz., 1 1/2 oz., & 1 5/8 oz. buckshot loads. Very thin petals and unitized seal (designed for hunting loads) with a cushion column make this the easiest of the larger capacity carriers. The petals protect the buckshot from barrel-scrub, delivering excellent long-range patterns.

BW12

A 12 gauge double-end seal with cushion section used to make special purpose short range or lighter buckshot loads. It has no shotcup but can be used in conjunction with Teflon Wraps in buckshot loads. Some shooters have used this wad to create light, fast spreading buckshot loads used in combat applications.



BPGSTM & BP12TM 12 Gauge Shotcup and Gas Seal



The BPGS & BP12 combination are composed of a separate gas seal and shotcup design. The design was pioneered and patented by Ballistic Products in the 1970s. Pagoda style loads were invented by Ballistic Products, Inc. some fifteen years ago and have some very useful applications for the buckshot loader. Pagoda loads offer an advantage of a trapped air cell to cushion the loads, maintaining extremely high velocities, even with magnum payloads. The shotcup portion, named the BP12, has a patented ribbed design that has a 50% barrel contact area. The benefits of the proven design are two-fold: the reduced contact area removes 1/2 of the friction area and it offers additional "cushion", saving pellets from the crushing effects of the load's initial thrust. Loads with round pellets deliver maximum density patterns with fewer wasted "flyaway pellets".

Gas Seals

Choosing a gas seal for a particular buckshot loads means evaluating the hull within which it will be used. Tapered based hulls, such as the Winchester AA, require a flexible seal, one that accommodates the narrowing interior. On the other hand, long, straight-walled hulls require a tight seal to contain compress the burning gasses. If the hull is very thin, there may be even larger internal diameter to seal requiring a slightly oversized lip to contain.



The BPGS Gas Seal is used in all types of 12 gauge buckshot loads

Gas Seals with Tapered Hulls

We use tapered hulls, such as Winchester AAs® or Remington RTL® to our advantage in certain lightweight, high-speed buckshot loads. Tapered hull design is an ideal combination with light payloads and high-energy, double-based powders.

Better buckshot loads in tapered hulls use the fine-lipped and very flexible BPGS as the base platform. The BPGS is also used in the straight walled hulls.

Tapered hulls also utilize the 12 gauge GS2 Air Wedge. This time-proved design seals well in tapered and straight walled hulls. The sturdy design does not contort when pressed tightly. Load height, becomes a more critical factor using tapered hulls, since there is little extra room. Do not expect maximum payloads from tapered hulls, though you can expect lighter loads producing high velocities as well as good form in cold temperatures.

Gas Seals with Straight-Walled Hulls -All Riefenhauser Types

Straight-walled hulls are constructed of an untapered plastic tube, usually with a flat basewad. The basewad may be either a plastic disk or a fibertype material. Straight-walled hulls, in order to perform, need a gas seal that fits snugly along the full-length of the tube. The gas seal may seem more difficult to insert, especially with once-fired hulls, than with a seal designed for tapered, but it's important that the seal is making contact with the hull walls. Choices for straight-walled hulls include the BPGS with the very flexible seal, the GS-2TM Air Wedge and the sturdy X12X. The X12X is the overbore choice. Thin-walled hulls combined with overbored shotguns, unless considered during loading, can lose more performance than gained, simply because of pressure loss during the powder burn cycle.



The X10X and X12X use architecture and a tapered lip to seal tightly against a shotgun bore, even in overbored barrels. With these seals, like no other, gasses are properly contained, offering the fullest advantage of the overbore and the heavy payload combinations.



The GS-2 Air Wedge Gas Seals, used in many Pagoda loads, are available in 12 gauge.

Pagoda Loads

Multiple gas seals are used in certain three inch and longer loads. In a three-inch hull there is almost always enough space for a maximum payload of buckshot. More often though, the loader winds up with extra space inside the hull. We devised a unique, performance-oriented solution to this dilemma by stacking gas seals below the shotcup, creating BPI's "Pagoda" loads. In the ballistics laboratory, Pagoda loads are superbly consistent with regards to velocity and pressure. The results are clear in the numbers. For our own hunting, we happily give up a few pellets in payload to take advantage of the design's intrinsic benefits.

In the 10 gauge we offer the X10X plastic gas seal, usually used in conjunction with Teflon Wrap combinations or the BPD-10 shotcup for lighter, faster buckshot loads.

Gas seals are available in more than just 12 gauge. If you want to use buckshot in a small-bore, try working up a load using one as a platform before going to a target type wad. Your loads will be better for it.



The Obturator Gas Seals expand buckshot possibilities as they are available in 12, 16 and 20 gauge.

Overbore Shotguns and Gas Seals

In a final summary on gas seals, we must point out the relationship between the gas seal and an overbored shotgun barrel. An overbored

barrel is one that has a slightly larger inside diameter than standard for that particular gauge; hence the name. For patterns with light loads, this is great — the shotgun effectively works like one of a slightly larger gauge, allowing for pellet movement and enhanced payload adjustment through the choke. Why not just use a bigger gauge, say a ten instead of a twelve? Well, for hunting, I don't know. For target, the reason is legitimate as the loads are light and twelve gauge is a class standard. But what about the heavy loads? They require containment, just like the lighter loads, but place additional stresses on the seal. If the seal gives up, which can happen, hot gasses blow right by affecting the pattern and reducing the load's effective pattern and velocity.

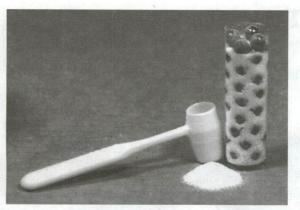
Here are a couple possible symptoms of gas seal failure or seal/bore/load compatibility:

- torn up wads
- inconsistent velocities
- · inconsistent patterns
- bloopers or other load failures
- · poor functioning of your automatic (Mag-10 hang-ups and such)
- exceedingly dirty shotgun (powder residue and whatnot.)

Most of the above symptoms can be solved simply by using the "X" seal. Perhaps now you can take advantage of the pattern benefits of overbored 10 and 12 gauge magnum loads without the headaches that usually accompany this popular barrel modification.







Buckshot pellets, individually, are large and heavy. Each pellet represents a greater percentage of a load than would a pellet typically used for birds. Since the loads are heavy, fast moving and the pellets contact each other on a focused area, the force put upon each buckshot pellet at the moment of firing (setback) is quite significant, usually enough to deform an unprotected pellet. To reduce the pellet to pellet pressure, buffering materials are added in order to fill the large spaces between pellets. When these spaces are filled, contact area is increased, and the broader support area is less likely to deform the pellet.

In order for the load to perform as designed and to keep the load's ballistics within safe parameters the handloader cannot indiscriminately use any kind of buffer material. All buffering materials are not the same (regardless of claims) and some counterfeit materials will run pressure curves to alarmingly high levels. Only use Ballistic Products, Inc. combinations of specialty buffers in loads recipes found in this publication.

Component Summary

Once brought together and assembled as a single shotshell, high-performance components create a wholly superior load; built to exceed performance expectations of even the most expensive manufactured ammunition. Yes, it takes a little more time, planning and learning to craft your own shotshells. Yes, some of your hand-crafted loads may even cost a bit more than off-the-shelf ammunition. However, spending time with each component will help you to understand its intrinsic value in the shotshell and how that can be used for other shooting disciplines. Once you load your own shotshells you will begin to make component decisions that make your ammunition a little better; for the game, for the conditions in which you are shooting and even for your personal preferences. Buckshot loads are particularly specialized ammunition, serving a wide variety of uses. The components used with buckshot loads can be manipulated countless ways - many that cannot be incorporated into mass-production operations.

Take the time to learn the craft of handloading and see for yourself the improvements, not just in your ammunition, but also in yourself as a hunter/shooter.



Shooting and Patterning Buckshot Loads

Guns and Loads

When combined into the scenario of patterning your shotgun and loads, the myriad of internal and external variables and influences of firing a shotgun can result in frustration for a reloader looking for some specific results. Possibly the most exasperating moment for the serious shooter is the time, effort and expense that can be put into a shotgun, especially in regard to special adaptable stainless steel "screw-in" chokes, backboring, forcing cone modifications, bore polish, chamber polish and so forth - only to find that our neighbor has purchased an economical "off-the-shelf" shotgun that seems, almost miraculously, to shoot as well as our custom-special-deluxe-super-modified shotgun! Damn, it is just not fair!

The situation can happen and has happened many times. Shotguns are temperamental instruments that all play a different "tune". One shotgun off the assembly line can be compared to the very next shotgun produced and found to shoot quite differently. Other slight manufacturing variables include: felt recoil, trigger pull weight, overall "balance," sighting plane, and so on. Patterns can also be quite different. These are just some variables we have discovered in fine shotguns made by the same methods and by the same people.

We have more than a dozen 10 gauge shotguns with which we use to test the heavy-duty loads. We have more than that amount of 12 gauge shotguns used only for test purposes. With our background, we feel very qualified in saying this about shotguns: they are different and the results from each shotgun should be expected to vary.

We have always advocated that the shotgun shooter/reloader have on hand as many quality shotguns to choose from as possible. Each shooting event or situation can call for a different gauge or configuration of a shotgun. However, a huge selection of shotguns is at odds (for most of us) with domestic tranquility. Compromises have to be made; not everyone gets another Fox-Sterlingworth double and a new riding lawn mower all in the same year. One shotgun is better than none and you can choose to use specialized ammunition and a trusted shotgun.

Once you get to know and understand the temperament of each shotgun you own, you can go to a particular shotgun for the results you desire on a particular day. A certain shotgun we have used has yet to provide impressive or even consistent pattern board results. However, it is a lucky thing we brought that gun out to the field one day, is consistently deadly on the wingshot. You may ask, how does that happen? Well, we need to look at factors other than pattern performance: The shotgun's weight, balance and touch band together and provide a handling ability that make this particular shotgun absolutely deadly when pitted against long range, fast moving ducks. It is a the shotgun "born" to fire the "Dirty-duck" load.

There are light shotguns chambered for three inch in which we would not dream of using to fire the "Dirty-Duck" load. "Ouch ". I am punished by recoil just thinking about it. The Dirty-Duck load comment mentions a "light" recoil, but let me pass along that it is light when you use a nine pound 12 gauge double barreled shotgun with 32" barrels. Everything is relative and so is load data. It's a good reason to become informed on what happens inside your shotgun barrels.

Once past the differences between shotguns and also, perhaps, past the knowledge and ability of a person who can selectively choose the "right" shotgun for task or test at hand, the shooter then faces the problem of averaging out the other components. Let's move on to that subject.

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BALLISTIC PROCESSING

Indubitably, there is a direct relationship between high quality shotguns using high quality loads and the best possible results. You get what you pay for. We mentioned earlier a scenario where an inferior shotgun works well, but if you are a gambling person where would you put your money?

What Affects Loads?

If we zero-in upon the 10 gauge, we find that the longer barrels influence the delivery of the load. Some barrels will drop the center of the pattern significantly at 50 yards while others send along the pattern straight and level. One could assume barrel alignment is a factor here, but load and component factors also enter into final analysis of the problem. Don't you think a heavier pellet will fly further, straighter than a lighter pellet? Perhaps in centering your pattern you have been comparing apples and oranges?

The powders used in the tested loads (from the same manufacturer and distributor) vary from lot to lot and can affect load outcome, in terms of both pattern and velocity. The changes in basic strength and format of the powder can ruin the best of pattern quality (setting aside lethal load quality for the moment) for the shooter. The ups and downs of powder strength and burn ratios when powders are used for maximum energy hunting loads can ruin a set of patterns and provide obtuse data.

Powders will always vary a bit in energy level and will even vary from within the same can! Remember to recombine your powder every time you load to minimize powder related inconsistencies. To recombine canned powders that have been separated by the vibration of shipping as they sat upright in the container, roll the can on its side until the powder inside is completely remixed.

Daily temperatures will change the character of one specific type of powder far more than other types of powders. A shooter fixated upon obtaining near perfect patterns can be plagued by temperature differentiation.

Altitude also can make a big difference in long range ten gauge patterns. Thinner air makes for far less pellet resistance. We have known for years that pellets fired in a near vacuum will tend to retain the original shape of the charge longer! The more air resistance the greater the problem in duplicating someone else's results. Tidewater shooters will always have more difficulty in creating a pattern percentage that was easily produced in the mountains!

The quality of pellets that we use has a great influence upon overall patterns and there seems to be limitless levels of quality and refinement available to the shooter in this component alone. The shot that comes out of a single bag may or may not be made under quite different conditions. The amount of antimony used to create "hard" lead shot may vary with the daily temperature at the drop tower and the price the Chinese are charging for antimony on the world market.

Primers are all over the playground in the rates of speed, power, time length and quality of the burn. Primers supply approximates, with regards to influence. The white hot gas they produce affects the powder charge in different ways on different days. Different duration and heat levels alter the primers effect on slow-burning and fast burning powders. The manufacturing process makes them close, not perfect. We would not want to pay the price that called for perfection!

Other components that alter expected results can be the hull, the powder and the wad. A test that consumes the items or forever alters the character of the items being tested is called a "destructive" test. Once the materials are fired the same test is never to be repeated with those same materials therefore results are estimations. We reloaders tend to regard a series of loads as identical. Heck, they look like they are all the same from the outside! Your shotgun does not see it that way.



As a test load increases in size from a base of 18 grains of fast burning powders and 1 ounce of lead shot into the larger hunting loads, the loads become more and more subject to the influences of the fit and form. Each component, (more and perhaps larger pellets; the burn capabilities of slower, more difficult to ignite powders; energy levels and greater volumes of slower burning powders; fit and finish of different types of wads; hulls; primers and the overall climactic event of the firing process), becomes a greater factor of the outcome and must be given due consideration for its value and quality.



Firing is a process measured in milliseconds, but it is a sequence of events, never occurring exactly the same from shot to shot. To understand ballistics, one needs to consider the firing process as a sequence of individual events, each affecting a final outcome. Sometimes, with the aid of an accurate patterning board, an accurate pressure cannon and an accurate, shotgun-specific chronograph, a shooter is able to see and measure some quantitative differences. But, in the field, the entire dynamic process is over in a wink. And since we've probably closed our eyes in reaction, we usually have consciously missed the event entirely.

The most difficult situation to a reloader to reproduce is something that some other reloader has produced with a wholly different lot of base components, a different lot of powder, slightly different weights and measures, at another place, another time, with another shotgun. Sometimes, what do you know, the results may not be identical. To become an accomplished handloader, you need to know which parts are needed to make a whole.



Load Errors

Large, measured shot-to-shot differences call for examination of load and components. There may be something wrong. Unmarked bushings might get mixed up by careless reloaders. Have you marked yours with a reloader's pen? If you are in doubt it is worthwhile to cut open one of your loads and measure the weights on an accurate scale. Big problems we hear of are usually results of component substitution and/or easily correctable assembly errors. Some of the top problems include: Wad substitution, shot charge not properly metered, (large shot meters differently than smaller shot), poor quality lead shot instead of high quality plated lead shot (results in horrible patterns), incorrect buffers (spherical or non-processed buffers frequently raise load pressures to dangerous levels), very weak, light (convex) crimps that do not allow a complete burn of the powder or inconsistent metering of powders and shot.

The reloader should note that even his reloading tools and arm strength can place differences into a load by setting the components into the hull either "tightly" or "loosely". The junction and "set" of the various components will influence the final fit and crimp of the load and therefore, it final performance.

As you move into the load recipes, take your time to develop a proper load for your conditions and game. Don't try to find a load to suit your components on hand, as in the end you will not be satisfied. Handload for performance and get the very best components for each job at hand. With this philosophy, you will far exceed the quality of any mass-produced load. Handloading gives you the unique opportunity, and components, to create exactly what you need without compromise. When you start to compromise on shot size and payload, and oh, I guess I don't really need the high velocity, and what the heck, these nonplated #7 1/2s are cheaper... you compromise your hunt, incrementally. People who are good at what they do use the best tools they can get their little hands on. The informational guidelines of how to make and develop excellent loads will give any shotgunner, novice or veteran, more confidence in the field.



Buckshot Reloading Glossary of Terms:

Buckshot Large lead shot that is from 0.17" (#B) to 0.38" (#0000)

in diameter.

Column Layers of pellets stacked on top of each other

Cross fit The fit of pellets side-by-side on a horizontal plane

FGM Refers to the Federal Gold Medal hull. The Gold

Medal is available in 2-3/4" and 3-inch, has a flat plastic disk basewad and is maroon in color.

Filler Wad When a "filler" wad is called for in a recipe you may

use either a Cork Filler Wad or a Felt Filler Wad of whatever thickness and number sufficient for a proper

crimp.

Fiocchi Low Base Basewad of 7-mm height. This hull is most often used

in high-capacity hunting loads.

Fiocchi High Base Basewad of 10.5 mm height. This hull is most often

used in lighter, target type hunting loads.

Hull Lengths 2.75 = 2-3/4", 3.00 = 3 inch, 3.50 = 3-1/2 inch. These

refer to the uncrimped, overall length of the shotshell

hull.

Large Pellets This means that larger pellets can be used with this

particular load. Of course smaller pellets can also be used, you just may need to use additional filler wads.

Layer Pellets laid next to each other on the horizontal plane

Stacking Placing buckshot pellets in layers on top of each other

Super Buckshot Ballistic Products brand-name - extremely round

buckshot pellets

Tuff™ Ballistic Products trademark name for high density,

steel shot compatible shotcups.

Component Abbreviation

abbreviation	description	abbreviation	description	abbreviation	description
4100	Scot/Accurate 4100 powder	Green Dot	Alliant Green Dot powder	РВ	IMR/Hodgdon PB Powder
Og	10 gauge	grns (gr)	grains (437.5 grains = 1 ounce)	PISK	Piston Skeet 12g wad
2 g	12 gauge	GS2	GS2 Air Wedge	Red Dot	Alliant Red Dot powder
4C	1/4" card wad	HCD18	Helix Cushion Driver #18	Rem	Remington
6g	16 gauge	HCD21	Helix Cushion Driver #21	Rem 209P	
209A	Federal 209A Primer	HCD24	Helix Cushion Driver #24	The state of the s	Remington 209 Primer (Orange/Green B
20g		The state of the s		Rem lo-disc	Remington hull w/low disc base wad
	20 gauge	HCDP	Helix Brush Wad	Rem RTL	Remington RTL type hull
23C	2/3" card wad	HCW	1/2" hard card wad	Rem SP	Remington SP type hull
3 <i>8C</i>	3/8" card wad	Herco	Alliant Herco powder	Rem STS	Remington STS type hull
700x	IMR/Hodgdon 700X Powder	Hevi-Shot	Hevi-Shot non-toxic shot	Rem STS209	Remington 209 Primer (Gold/Green Box)
300x	IMR/Hodgdon 800X Powder	HS-6	Hodgdon HS-6 powder	Rem Type 6	Remington hull - black or yellow basewad
300-X	IMR 800-X powder	HS-7	Hodgdon HS-7 powder	Rex24	Rex 247/8oz target wad
Am Select	American Select Powder	HV28	Magnum 28 wad - 28g	RPlus	Ranger-Plus 12ga steel wad
AQ	AQ Slug	Improved Foster	Improved Foster-type slug	SBK*	Super Buckshot lead shot
Barnes Exp	Barnes Expander SGS Sabot Slug	Int'l Clays	Hodgdon International Clays powder	SCAT	Scattermaster 12g wad
Bismuth	Bismuth No-Tox non-toxic shot	L078	Lightning 7/8 oz 12g wad	SF12	
Blue Dot	Alliant Blue Dot powder	LB12		The state of the s	Spitfire 12ga wad
3P12	the state of the s		Light Brush Wad 12g	SG16	Sporting 16 wad 16g
	12g Ballistic Patter Driver wad	LBC BluForce	LBC BluForce Sabot Slug	SG20L	Sporting 20 Long wad - 20g
3P12T	BP12-Tuff steel shot wad 12ga	LBC30	Limited Bore Contact 12ga 30mm	SG20S	Sporting 20 Short wad - 20g
3PD10	10g Ballistic Pattern Driver wad	LBC43	Limited Bore Contact 12ga 43mm	SG24	Sporting 24 wad - 24g
3PD10T	BPD10-Tuff steel shot wad 10ga	LBC50	Limited Bore Contact 12ga 50mm	SG28-II	Sporting 28-II (2nd version) 28g wad
3PGS	Ballistic Products Gas Seal	LGS28	Light Game Slug 28ga	SG32	Sporting 32 wad - 32g
3SB	Bismuth Buffer	LGS41	Light Game Slug .410 bore	SG410	Sporting .410 wad
Bullseye	Alliant Bullseye powder	Lil' Gun	Hodgdon Lil' Gun Powder	Solo 1000	Scot/Accurate Solo 1000 powder
3W12	Brush Wad (Original) 12ga	Longshot	Hodgdon Longshot Powder	Solo 1250	Scot/Accurate Solo 1250 powder
3W24	Brush Wad 24g	M209	Multi-Hull/Martingoni 209 Primer	SPK	the term of the te
3W28	Brush Wad 28g	MG410			Super Spark 12g wad
3W410	Brush Wad .410	MG42	Magnum .410 wad	SR4756	IMR/Hodgdon 4756 powder
CI 209		A lettered to the contract of	MG42 wad (now called "STS")	SR7625	IMR/Hodgdon 7625 powder
	CCI 209 Primer	Mica	mica dry-lubricant dust	SRC	Short Range Crusher 12g wad
CI 209M	CCI 209 Magnum Primer	Mix 47	Mix #47 buffering agent	Steel	Alliant Steel powder
CI 2095C	CCI 209 Sporting Clays Primer	ML*	Magnum Lead shot	Stretch	Stretch 36 wad410 bore
CS12	Collet Cup Sabot Slug 12ga	MM1035	Multi-Metal 10ga 3 1/2" wad	STS	G/BP STS wad (nee "MG42")
CCS20	Collet Cup Sabot Slug 20ga	MM1230	Multi-Metal 12ga 3" wad	Stump	Stump 36 wad410 bore
Œ	Compact Eurotarget 12ga wad	MM1235	Multi-Metal 12ga 3 1/2" wad	TC20	Trap Commander 20g wad
CH209	Cheddite 209 Primer	MM1275	Multi-Metal 12ga 2 3/4 wad	TEF10	10g Teflon Shot Sleeve
L*	Chilled Lead shot	MM16	Multi-Metal 16ga 2 3/4 wad	TEF12	12g Teflon Shot Sleeve
lays	Hodgdon Clays Powder	MultiHull 12/2A	BP Multi-hull 12ga 2 3/4"- Martingoni	Thunderbolt	
LBC	Cushioned LBC wad	MultiHull 12/2A.1	BP Multi-hull 12ga 2 3/4" - Cheddite		Dangerous Game Slug 12ga 3"1-3/8oz
0512	Clear Overshot Disc (12ga only)	MultiHull 12/3A		Titewad	Hodgdon Titewad Powder
P*			BP Multi-hull 12ga 3"- Martingoni	TPS1035	TPS 10ga 3 1/2" wad (unslit)
	Copper Plated lead shot	MultiHull 12/3A.1	BP Multi-hull 12ga 3"- Cheddite	TPS1230	TPS 12ga 3" wad (unslit)
S12	Competition Special 12g wad	MultiHull 16/2A	BP Multi-hull 16ga 23/4" - Martingoni	TPS1235	TPS 12ga 3 1/2" wad (unslit)
SD020	Cushioned Shot Driver 20ga	MultiHull 16/2A.1	BP Multi-hull 16ga 23/4" - Cheddite	TPS1275	TPS 12ga 23/4 wad (unslit)
SD078	Cushioned Shot Driver 12ga 7/8oz	MultiHull 20/2A.1	BP Multi-hull 20ga 2 3/4"- Cheddite	TR12	Turkey Ranger Wad
SD100	Cushioned Shot Driver 12ga 1 oz	MultiHull 20/3A.1	BP Multi-hull 20ga 3"- Cheddite	trim	trim component by specified amt.
SD118	Cushioned Shot Driver 12ga 1-1/8oz	MultiHull 28/2A.1	BP Multi-hull 28ga 23/4"- Cheddite	TY34	Tyvek 3/4" patch
W	cork wad (specify ga/thickness)	MultiHull 410/2A.1	BP Multi-hull .410 2 1/2"- Cheddite	TY58	Tyvek 5/8" patch
W/FW	cork wad OR felt wad	MultiHull 410/3A.1	BP Multi-hull .410 3"- Cheddite	Unique	Alliant Unique powder
eci-Max	Deci-Max 10ga wad	Mythick	Thick Mylar wraps		
GS12	Dangerous Game Slug 12ga 1-1/8oz			Univ. Clays	Hodgdon Universal Clays powder
GS123		Mythin	Thin Mylar wraps	USE	Ultra Short Eurotarget 12ga wad
GS16	Dangerous Game Slug 12ga 3"1-3/8oz	NC	Nitro Card .100"125"	W209	Winchester 209 primer
	Dangerous Game Slug 16ga	NC10	10ga Nitro Card	W-540	Winchester 540 powder
GS20	Dangerous Game Slug 20ga	NC12	12ga Nitro Card	W-571	Winchester 571 powder
X12	Dispersor-X 12g wad	NC16	16ga Nitro Card	Wad Slick	Mica Wad Slick dry-lubricant dust
xpander SGS	Barnes Expander SGS Sabot Slug	NC2O	20ga Nitro Card	Win AA	Winchester AA
616	Fiocchi #616 primer	Nitro 100	Scot/Accurate Nitro 100 powder	Win AA HS	New Winchester AA High Strength Hull
C	1/2" Fiber filler wad	NP*	Nickel Plated lead shot	Win Poly	Winchester Polyformed hull
ed 209A	Federal 209A Primer	o/u	over and under shot column	WSF	Winchester Super Field Powder
ed FB	Federal Fiber Base hulls	0B12	Obturator 12ga gas seal	WSL	
ed GM	Federal "Gold Medal" hull	0B16			Winchester Super Light
ed HP		001000	Obturator 16ga gas seal	WST	Winchester Super Target Powder
	Federal High Powder hull	0B20	Obturator 20ga gas seal	X1OX	X10X gas seal
ederal Field	Federal "Field" fiber base hull	Original	Original Buffer	X12X	X12X gas seal
iocchi	Fiocchi hull w/7mm basewad	0510	Overshot card (.0304") 10ga	Z16	Z16 Field Commander 16ga wad
iocchi 10 1/2mm	Fiocchi hull w/10 1/2mm basewad	0512	Overshot card (.0304") 12ga	Z21	12ga Trap Commander
W		0516			

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10 gauge 2-7/8"

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								gas seal and/or filler wad or	filler wad or	shot	shot				load notes/
load	٥	gauge	load ID gauge length	hull	primer	powder grains	grains	wad	internal wrap (oz.) type buffer P.S.I. F.P.S. application	(oz.)	type	buffer	P.S.I.	F.P.S.	application
20328	33	10g	20328 33 10g 2-7/8"	Federal	CCI209	Herco	30.0	30.0 X10X + Deci-Max 1/4" 12g cw + OS10	1/4" 12g cw + OS10	1-1/4oz	Lead	none	7,050	1,240	1-1/4oz Lead none 7,050 1,240 Roll Crimp
20328	37	10g	37 10g 2-7/8"	Federal	CCI209	PB	30.0	30.0 X10X + Deci-Max $\frac{1/4"}{0S10}$ Lead none 7,670 1,230 Roll Crimp	1/4" 12g cw + OS10	1-1/4oz	Lead	none	7,670	1,230	Roll Crimp
20328	36	10g	36 10g 2-7/8"	Federal	Fed209A	Unique	30.0	30.0 X10X + Deci-Max	1/4" 12g cw + 1-1/4oz Lead none 7,070 1,130 Roll Crimp OS10	1-1/4oz	Lead	none	7,070	1,130	Roll Crimp
20328	32	10g	10g 2-7/8"	Federal	Fed209A	Univ Clays	30.0	Fed209A Univ Clays $30.0 \times 100 \times 100 \times 100 \times 1/4$ " $12g \text{cw} + \frac{1-1}{40} \times 100 \times 100 \times 1/200 \times 1/$	1/4" 12g cw + 0S10	1-1/4oz	Lead	none	8,940	1,290	Roll Crimp
20328	34	10g	2-7/8"	Federal	CCI209	X008	30.0	30.0 X10X + Deci-Max	1/8" 12g cw + 1-3/8oz Lead none 8,550 1,260 Roll Crimp OS10	1-3/80z	Lead	none	8,550	1,260	Roll Crimp
20328	35	10g	10g 2-7/8"	Federal	CCI209	Univ Clays	30.0	Univ Clays 30.0 X10X + Deci-Max	1/8" 12g cw + 1-3/8oz Lead none 8,740 1,220 Roll Crimp OS10	1-3/80z	Lead	none	8,740	1,220	Roll Crimp

10 gauge 3-1/2"

			3			5		filler wad or	shot	shot				load notes/
load ID	gang	gauge length	hull	primer	powder	grains	gas seal and/or wad	internal wrap	(oz.)	type	type buffer	P.S.I.	F.P.S.	application
10820	10g	3-1/2"	Federal	Fed209A	PB	31.0	(2)X10X + Deci-Max	0S10	1-3/8oz Lead	Lead	none	9,300	1,300	
40303 30	304 10g	10g 3-1/2"	Federal	Fed209A	PB	33.0	(2)X10X + Deci-Max	0S10	1-3/8oz Lead	Lead	none	9,500	1,290	
10820	10g	3-1/2"	Federal	Fed209A	PB	31.0	X10X + Deci-Max	0S10	1-3/8oz Lead	Lead	none	9,100	1,280	
40303 30	303 10g	3-1/2"	Federal	Fed209A	Unique	34.0	(2)X10X + Deci-Max	0S10	1-3/8oz Lead	Lead	none	009'6	1,350	**************************************
40303 30	301 10g	3-1/2"	Federal	Fed209A	Herco	36.0	X10X + Deci-Max	NC10 + OS10	1-1/2oz Lead none	Lead	none	9,700	1,320	анизминистрации при при при при при при при при при п
40604 38	389 10g	3-1/2"	Federal	Fed209A	SR 4756	44.0	MM1035	(2) $1/4$ " 12ga fw + OS10	1-1/2oz Lead none	Lead	none	10,700	1,390	
40303 30	302 10g	3-1/2"	Federal	Fed209A	SR 7625	36.0	X10X + Deci-Max	NC10 + OS10	1-1/2oz Lead none	Lead	none	9,500	1,285	
40604 392		10g 3-1/2"	Federal	Fed209A	Blue Dot	44.5	MM1035	(2) 1/4" 12ga fw + OS10	1-5/8oz Lead none	Lead	none	10,300	1,340	
40604 393	93 10g	10g 3-1/2"	Federal	Fed209A	Blue Dot	42.0	MM1035	(2) 1/4" 12ga fw + OS10	1-3/4oz Lead none	Lead	none	10,800	1,300	Yournanianaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
10813	109	10g 3-1/2"	Federal	WIN209	X008	32.0	BPD10	1/4" 20ga fw + OS10	20Z	Lead	Lead none	11,000 1,235	1,235	
40604 387	37 10g	3-1/2"	Federal	Fed209A	Longshot	36.0	X10X + Deci-Max	0210	20Z	Lead	none	11,000	1,290	
830909	109	10g 3-1/2"	Federal	WIN209	HS-7	44.0	X10X + NC10 + 14C10 + Teflon	0210	2-1/8oz Lead none	Lead	none	8,900	1,150	
830909	10g	3-1/2"	3-1/2" Winchester	WIN209	HS-7	57.0	BPD10	(3) $1/4$ " 20ga fw + OS10	1-5/8oz Lead none 10,250	Lead	none	10,250	1,430	
760101	10g	3-1/2"	10g 3-1/2" Win Poly Fed209A	Fed209A	SR 4756	45.0	BPD10	1/8" 20ga fw + OS10	1-7/8oz Lead none 9,700 1,220	Lead	none	002'6	1,220	

12 gauge 3-1/2"

							gas seal and/or filler wad or	filler wad or	shot shot	shot				load notes/
load ID gauge length	gauge	length	hull	primer	powder grains	grains	wad	internal wrap (oz.) type buffer P.S.I. F.P.S. application	(oz.)	type	buffer	P.S.I.	F.P.S.	application
20111	12g	129 3-1/2"	Federal	Fed209A	Blue Dot	34.0	Dot 34.0 BW12 + TPS1275	0512	1-1/2oz Lead none 9,300 1,235	Lead	none	9,300	1,235	
970604	12g	3-1/2"	Federal	CCI209	Blue Dot		36.5 (2)BPGS + TR12	(2) 1/4" fw 20 1-5/8oz Lead none 11,500 1,230 + OS12	1-5/8oz	Lead	none	11,500	1,230	
970429	12g	3-1/2"	Federal	Win209	Blue Dot	37.0	MM1235	OS12	20Z	Lead	none	2oz Lead none 13,200 1,240	1,240	

12 gauge 3"

load ID															
		nge	gauge length	hull	primer	powder	grains	wad	internal wrap	(oz.)	type	buffer	P.S.I.	F.P.S.	application
40803	467 13	12g	3"	Cheddite	CH209	SR 4756	35.0	STS	0S12	1-1/2oz	lead	none	10,900	1,315	
31024	226 13	12g	3"	Fed FB	Fed 209A	Herco	30.0	STS	0S12	1-1/4oz lead	lead	none	11,400	1,400	
31024	223 12	12g	3"	Fed FB	Fed 209A	Longshot	30.0	NC12+MG42	OS CARD	1-3/80z	lead	none	10,600	1,320	
40803	466 12	12g	3"	Fed FB	Fed 209A	SR 4756	34.0	STS	0S12	1-1/2oz	lead	none	11,000	1,320	они в сели в
790718 WL		12g	3"	Fed FB	CCI209	HS-7	36.5	BPGS+BP12	0S12	1-5/80z	lead	none	10,900	1,200	
790717	DO 13	12g	3"	Federal	CCI209	SR 4756	36.5	BPGS+BP12	0S12	1-5/8oz	lead	none	11,000	1,280	
11228	T	12g	3"	Fiocchi	Fio 616	Solo 1000	23.0	BPGS+HCD21	0S12	1-1/4oz	lead	none	11,300	1,400	
11228	1	12g	3"	Fiocchi	Fio 616	Solo 1000	25.0	BPGS+HCD24	0S12	1-1/40z	lead	none	11,200	1,375	
11228	Ä	12g	3"	Fiocchi	Fio 616	Solo 1000	24.0	BPGS+Z21	0S12	1-1/40z	lead	none	11,400	1,410	
11228	1.	12g	3"	Fiocchi	Fio 616	SR 7625	34.0	HCD21	0S12	1-1/4oz	lead	none	10,400	1,345	
11228	1,	12g	3"	Fiocchi	Fio 616	SR 7625	34.0	221	0S12	1-1/40z	lead	none	10,300	1,235	
20122	1.	12g	3"	Fiocchi	Fio 616	Blue Dot	38.0	STS	0S12	1-1/2oz	lead	none	11,200	1,265	
790707	WL 12	12g	3"	Fiocchi	CH209	HS-7	35.0	BPGS+BP12	1/8" 20 fw + OS12	1-1/2oz	lead	none	9,300	1,230	
10822	1.	12g	3"	Fiocchi	Fio 616	SR 4756	35.0	STS	OS12	1-1/2oz lead	lead	none	11,000	1,265	
40803 4	469 12	12g	3"	Fiocchi	Fio 616	SR 4756	35.0	STS	0S12	1-1/2oz lead	lead	none	10,100	1,280	
40401	376 12	12g	3"	MultiHull 12/3A	CH209	PB	30.0	LB12+Teflon	OS12	1-1/40z	lead	none	11,400	1,395	
40803 4	468 12	12g	3"	MultiHull 12/3A	Fio 616	SR 4756	35.0	STS	OS12	1-1/2oz lead	lead	none	9,500	1,270	
790707	WL 12	12g	3"	Remington	Rem 209P	9-SH	31.0	BPGS+BP12	1/8" 20 fw + 0S12	1-3/8oz lead		none	10,900	1,340	
	12	12g	3"	Remington	CH209	HS-7	39.0	BPGS+BP12	1/8" 20 fw + 0S12	1-3/8oz lead		none	10,600 1,300	1,300	
790101	WL 12	12g	3"	Remington	Win 209	HS-7	39.0	BPGS+BP12	1/8" 20 fw + 0S12	1-3/8oz lead	lead	none	10,600	1,290	
790717	DU 12	12g	3"	Win AA	Win 209	SR 4756	31.5	BPGS+BP12+ Teflon	1/8" 20 fw + OS12	1-3/80z	lead	none	11,500	1,290	
790101	12	12g	3"	Win AA	Win 209	SR 4756	31.5	BPGS+BP12	OS12	1-5/8oz lead		none	009'6	1,200	



12 gauge 3"

							gas seal and/or	filler wad or	shot shot	shot				load notes/
load ID	gauge	gauge length	hull	primer	powder	grains	wad	internal wrap	(oz.)	type	buffer	(oz.) type buffer P.S.I. F.P.S.	F.P.S.	application
10218	12g	3"	Fiocchi	Fio 616	X008	34.0	GS2+Teflon	HCW12 + OS12 1-1/4oz lead none 11,150 1,380	1-1/40z	lead	none	11,150	1,380	
10218	129	3	Fiocchi	Fio 616	SR 4756	36.0	GS2+Teflon	(2) 1/4" 12 cw + OS12	1-1/2oz lead none 11,500 1,275	lead	none	11,500	1,275	
10218	12g	3"	Fiocchi	Fio 616	Blue Dot	39.0	GS2+Teflon	(2) 1/4" 12 cw + OS12	1-5/8oz	lead	none	1-5/8oz lead none 11,500 1,255	1,255	
10218	12g	3"	Fiocchi	Fio 616	HS-7	39.0	(2)GS2+NC12 + Teflon	NC12 + OS12	1-5/8oz lead	lead	none	none 11,350 1,245	1,245	
10218	129	3"	Fiocchi	Fio 616	Longshot	31.0	GS2+Teflon	1/4" 12 CW +	1-5/8oz lead	lead	none	9,500 1,240	1,240	
10218	12g	3"	Fiocchi	Fio 616	Blue Dot	38.0	GS2+Teflon	1/4" 12 CW +	1-3/4oz lead	lead	none	11,150	1,245	
10218	12g	3"	Fiocchi	Fio 616	Blue Dot	35.0	GS2+Teflon	1/4" 12 CW +	1-7/8oz lead	lead	none	11,500	1,200	
40203 282	12g	3"	MultiHull 12/3A	M209	9-SH	31.0	(2)GS2+Teflon	38C12 + 0S12	1-3/80z	lead	none	1-3/8oz lead none 10,000 1,200	1,200	
40203 281	11 12g	3"	MultiHull 12/3A	M209	9-SH	31.0	(2)X12X + Teflon	1/4" 12 cw + 0S12	1-3/8oz	lead	none	1-3/8oz lead none 9,900 1,200	1,200	
40203 283	3 12g	3"	MultiHull 12/3A	M209	SR 7625	31.0	(2)X12X + Teflon	38C12 + 0S12	1-3/8oz lead	lead	none	none 11,200 1,340	1,340	
40203 280	30 12g	3"	MultiHull 12/3A	M209	SR 4756	34.0	(2)X12X + Teflon	1/4" 12 cw + 0S12	1-1/2oz	lead	none	1-1/2oz lead none 11,100 1,285	1,285	

12 gauge 2-3/4"

load notes/ F.P.S. application	1,600	1,630	1,370	1,280	1,310	1,360	1,220	1,300	1,240	1,280	1,265	1,245	1,380	1,180	1,180	1,300	1,290	1,335	1,200	1,375	1,233	1,315	
P.S.I.	9,340	10,250	11,460	11,100	8,500	8,700	11,500	008'6	11,400	11,400	9,300	8,900	9,400	8,700	8,800	008'6	9,400	006'6	8,600	10,600	8,700	002'6	
buffer	none	none	none	none	none	none	none	none	none	none	none	none	none	none	none	none	none	none	none	none	none	none	
shot	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	
shot (oz.)	1-1/80z	1-1/8oz	10Z	1-1/4oz	1-3/80z	1-3/80z	1-1/2oz	1-1/80z	1-1/2oz Lead	1-1/80z	1-1/8oz Lead	1-1/80z	1-1/80z	1-1/80z	1-1/80z	1-1/4oz Lead	1-1/40z	1-1/40z	1-1/4oz	1-1/4oz	1-1/40z	1-1/40z	
filler wad or internal wrap	0S12	0S12	0S12	1/4" 20ga fw + 0S12	1/4" 20ga fw + 0S12	¥.	OS12	0S12	1/8" 20ga fw + OS12	OS12	OS12	OS12	OS12	OS12	OS12	OS12	OS12	OS12	1/8" 20ga fw + OS12	1/4" 20ga fw + OS12	OS12	0S12	
gas seal and/or wad	HCD21	221	221	BPGS + BP12	BPGS + BP12	BPGS + BP12	BPGS + BP12	LB12	STS	LB12	221	221	LB12	221	221	221	221	221	STS	BPGS + BP12	HCD18	HCD18	
grains	37.0	37.0	21.0	33.0	36.0	38.0	30.0	30.0	31.0	20.0	22.0	22.0	28.0	19.0	19.0	27.0	27.0	29.0	33.0	29.0	26.0	28.0	
powder	Longshot	Longshot	X00X	9-SH	Blue Dot	Blue Dot	Blue Dot	Solo 1250	Blue Dot	Clays	Green Dot	Green Dot	PB	Red Dot	Red Dot	X008	X008	X008	Blue Dot	Herco	Herco	Herco	DODGOGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG
primer	CH209	CH209	Win 209	CCI209	Win 209	Win 209	Win 209	Fio616	Fio616	Win 209	M209	Win 209	CH209	M209	Win 209	CCI209M	M209	M209	M209	M209	CCI209M	CCI209M	
llud	Cheddite	Cheddite	Federal GM	Federal GM	Federal GM	Federal GM	Federal GM	Fiocchi	Fiocchi	MultiHull 12/2A	2-3/4" MultiHull 12/2A CCI209M	2-3/4" MultiHull 12/2A	2-3/4" MultiHull 12/2A	2-3/4" MultiHull 12/2A	2-3/4" MultiHull 12/2A	MultiHull 12/2A	MultiHull 12/2A CCI209M						
gauge length	2-3/4"	2-3/4"	2-3/4"	2-3/4"	2-3/4"	2-3/4"	2-3/4"	2-3/4"	2-3/4"	2-3/4"	2-3/4"	2-3/4"	2-3/4"	2-3/4"	2-3/4"	2-3/4"	2-3/4"	2-3/4"	2-3/4"	2-3/4"	2-3/4"	2-3/4"	OOLD COLUMN TO SEE SEE SEE SEE SEE SEE SEE SEE SEE SE
gauge	12g	12g	12g	12g	12g	12g	12g	12g	12g	12g	12g	12g	12g	12g	12g	12g	12g	12g	12g	12g	12g	12g	
9	13	12					216		219	373	92	93	375	96	26	131	130	212	116	256	110	139	
load ID	30825	30825	950623	790707	781222	0	970429	10830	970429	40401	31012	31012	40401	31012	31012	30915	30915	31021	30915	31121	30915	30917	



	2	dalige length	Profile	primer	powder	arains	and/or wad	internal wrap	shot (oz.)	shot	buffer	S	E P	load notes/
30915 1.	113 12	12g 2-3/4	Multi	CCI209M	Herco	26.0	STS	1/8" 20ga fw + OS12	N	ead	none	10,300	II .	
30915 1.	112 12	12g 2-3/4	2-3/4" MultiHull 12/2A	M209	Herco	26.0	STS	1/8" 20ga fw + OS12	1-1/40z l	Lead	none	9,200	1,240	
31121 26	261 12	12g 2-3/4	2-3/4" MultiHull 12/2A Win 209	Win 209	9-SH	34.0	BPGS + BP12	1/8" 20ga fw + OS12	1-1/4oz l	Lead	Mix 47	10,700	1,325	
30917 13	138 ₇ 12g		2-3/4" MultiHull 12/2A CCI209M	CCI209M	HS-6	33.5	STS	1/8" 20ga fw + 0S12	1-1/4oz Lead	-ead	none	10,500	1,330	
30915 1.	117 12	12g 2-3/4	2-3/4" MultiHull 12/2A	M209	HS-6	32.0	STS	1/8" 20ga fw + 0S12	1-1/4oz Lead	-ead	none	008'6	1,265	
30915 13	133 12	12g 2-3/4	2-3/4" MultiHull 12/2A CCI209M	CCI209M	Longshot	31.0	Z21	0S12	1-1/40z l	Lead	none	9,500	1,390	
30915 13	132 12	12g 2-3/4"	" MultiHull 12/2A	M209	Longshot	31.0	Z21	0S12	1-1/4oz l	Lead	none	9,200	1,380	
31012 10	100 12	12g 2-3/4"	" MultiHull 12/2A	CCI209	PB	26.5	221	0S12	1-1/4oz l	Lead	none	9,400	1,260	
31012 9	98 12	12g 2-3/4"	" MultiHull 12/2A	M209	PB	26.5	Z21	0S12	1-1/4oz l	Lead	none	10,200	1,300	
31012 9	99 12	12g 2-3/4"	" MultiHull 12/2A	Win 209	PB	26.5	Z21	0S12	1-1/4oz l	Lead	none	9,700	1,280	
31012 9	94 12	12g 2-3/4"	" MultiHull 12/2A	M209	Solo 1250	22.0	Z21	0S12	1-1/4oz l	Lead	none	7,300	1,035	
31012 9	95 12	12g 2-3/4"	" MultiHull 12/2A	Win 209	Solo 1250	22.0	221	0S12	1-1/40z l	Lead	none	7,400	1,045	
30915 1	115 12	12g 2-3/4	2-3/4" MultiHull 12/2A CCI209M	CCI209M	SR 4756	31.0	STS	1/8" 20ga fw + OS12	1-1/40z l	Lead	none	10,400	1,305	
30915 1	114 12	12g 2-3/4	2-3/4" MultiHull 12/2A	M209	SR 4756	31.0	STS	1/8" 20ga fw + 0S12	1-1/4oz Lead	ead	none	9,400	1,250	
31121 2	258 12	12g 2-3/4	2-3/4" MultiHull 12/2A CCI209M	CCI209M	Herco	26.5	STS	0S12	1-3/80z l	Lead	none	11,000	1,280	
31121 2	257 12	12g 2-3/4"	" MultiHull 12/2A	Win 209	Herco	26.5	STS	0S12	1-3/8oz 1	Lead	none	11,000	1,285	
820914	12	12g 2-3/4"	l" Rem SP	Win 209	Unique	25.0	BPGS + BP12	1/4" 20ga fw + OS12	1-1/4oz l	Lead	none	9,550	1,250	
820914	12	12g 2-3/4"	l" Rem SP	Win 209	Unique	25.0	BPGS + BP12	1/4" 20ga fw + OS12	1-3/80z l	Lead	none	006'6	1,285	
004 Ba	Ilistic	© 2004 Ballistic Products Inc	Inc			Bucks	Buckshot Load Data 07							12 gauge 2-3/4"



														2000
load ID	gauge	length	hull	primer	powder	grains	and/or wad	internal wrap	(oz.)	type	buffer	P.S.I.	F.P.S.	application
970307	12g	2-3/4"	Rem STS	Win 209	Unique	24.0	HCD21	OS12	1-1/80z	Lead	none	11,000	1,300	
	12g	2-3/4"	Remington	Win 209	Herco	25.0	BPGS + BP12	1/4" 20ga fw + OS12	1-1/4oz	Lead	none	11,200	1,220	
830418	12g	2-3/4"	Remington	Win 209	X008	22.0	BPGS + BP12	0S12	1-1/2oz	Lead	none	10,400	1,150	
990101	12g	2-3/4"	Win AA	Win 209	Nitro 100	16.5	221	0S12	10Z	Lead	none	6,400	1,200	
990101	12g	2-3/4"	Win AA	Win 209	Solo 1000	19.5	HCD21	0S12	10Z	Lead	none	000'6	1,290	
990101	12g	2-3/4"	Win AA	Win 209	Solo 1000	18.0	221	0S12	10Z	Lead	none	7,700	1,200	
920601	12g	2-3/4"	Win AA	Win 209	Nitro 100	15.5	HCD18	0S12	1-1/80z	Lead	none	7,900	1,125	
990101	12g	2-3/4"	Win AA	Win 209	Nitro 100	17.0	HCD18	0S12	1-1/80z	Lead	none	9,500	1,200	- Anna and a sea and
990101	12g	2-3/4"	Win AA	Win 209	Nitro 100	18.0	HCD18	0S12	1-1/80z	Lead	none	10,800	1,255	
990101	12g	2-3/4"	Win AA	Win 209	Solo 1000	17.0	HCD18	0S12	1-1/8oz	Lead	none	7,800	1,125	
990101	12g	2-3/4"	Win AA	Win 209	Solo 1000	17.5	HCD18	0S12	1-1/8oz	Lead	none	8,300	1,145	
990101	12g	2-3/4"	Win AA	Win 209	Solo 1000	18.5	HCD18	0S12	1-1/8oz	Lead	none	9,700	1,200	
990101	12g	2-3/4"	Win AA	Win 209	Solo 1250	22.0	HCD18	0S12	1-1/80z	Lead	none	9,500	1,200	
990101	12g	2-3/4"	Win AA	Win 209	Solo 1250	23.0	HCD18	0S12	1-1/80z	Lead	none	10,800	1,255	
970307	12g	2-3/4"	Win AA	Win 209	Unique	24.0	HCD18	0S12	1-1/80z	Lead	none	11,200	1,300	
820719	12g	2-3/4"	Win AA	Win 209	Herco	26.0	BPGS + BP12	1/4" 20ga fw + OS12	1-1/4oz	Lead	none	006'6	1,330	
820719	12g	2-3/4"	Win AA	Win 209	Herco	27.5	BPGS + BP12	1/4" 20ga fw + OS12	1-1/40z	Lead	none	11,400	1,400	
830418	12g	2-3/4"	Win AA	Win 209	PB	21.0	BPGS + BP12	1/4" 20ga fw + OS12	1-1/40z	Lead	none	6,750	1,100	
820719	12g	2-3/4"	Win AA	Win 209	Unique	24.0	BPGS + BP12	1/4" 20ga fw + OS12	1-1/4oz Lead	Lead	none	009'6	1,280	
Teflon Wrap Loads	Loads													
920601	12g	2-3/4"	Fiocchi	Fio616	Nitro 100	20.0	BW12 + Teflon Wrap	1/8" 12ga fw + OS12	10z	Lead	none	7,500	1,270	
920601	12g	2-3/4"	Fiocchi	Fio616	Nitro 100	20.0	BW12 + Teflon Wrap	OS12	1-1/80z	Lead	none	9,050	1,260	Roll Crimp
10218	12g	2-3/4"	Fiocchi	Fio616	Red Dot	18.0	(2)GS2 + Teflon Wrap	1/4" 12ga fw + OS12	1-1/80z	Lead	none	10,500	1,280	
10218	12g	2-3/4"	Fiocchi	Fio616	Solo 1000	18.0	(2)GS2 + Teflon Wrap	1/4" 12ga fw + OS12	1-1/80z	Lead	none	11,000	1,300	
© 2004 Ballistic Products Inc	stic Pro	ducts Inc				Bucks	Buckshot Load Data 08	8						12 gauge 2-3/4"



		8	longth	Ī	nrimor	nowder	grains	gas seal	internal wrap	(oz.)	type	buffer	S	S d	load notes/
load ID		gange			Dillies Dillies	i panod	giailis	- 11	da wide	(05:)	2016				application
10218		12g	2-3/4"	Fiocchi	Fio616	Herco	26.0	GS2 + Teflon Wrap	1/4" 12ga fw + 0S12	1-1/40z	Lead	none	9,100	1,225	
10218		12g	2-3/4"	Fiocchi	Fio616	9-SH	33.0	GS2 + Teflon Wrap	(2) $1/4$ " 12ga fw + OS12	1-1/40z	Lead	none	10,400	1,360	
10218	шалаполитоннописнописнописнописнописнописнописноп	12g	2-3/4"	Fiocchi	Fio616	PB	25.0	GS2 + Teflon Wrap	(2) $1/4$ " 12ga fw + OS12	1-1/40z	Lead	none	11,000	1,390	
10218		12g	2-3/4"	Fiocchi	Fio616	Solo 1250	25.0	GS2 + Teflon Wrap	1/4" 12ga fw + 0S12	1-1/40z	Lead	none	10,400	1,300	
10218		12g	2-3/4"	Fiocchi	Fio616	SR 7625	30.0	GS2 + Teflon Wrap	1/4" 12ga fw + 0S12	1-1/40z	Lead	none	11,500	1,390	
40401	377	12g	2-3/4"	2-3/4" MultiHull 12/2A	CH209	Int Clays	23.0	LB12 + Teflon Wrap	0S12	10Z	Lead	none	9,200	1,345	
40629	442	12g	2-3/4"	2-3/4" MultiHull 12/2A	M209	X00X	22.0	(2)HWC12 + Teflon Wrap	0S12	102	Lead	none	9,400	1,285	
40904	380	12g	2-3/4"	MultiHull 12/2A	CH209	Titewad	19.0	(4)NC12 + Teflon Wrap	HCW12 + 0S12	102	Lead	none	006'6	1,155	
40604A	380 A	12g	2-3/4"	MultiHull 12/2A	CH209	Titewad	20.0	(4)NC12 + Teflon Wrap	HCW12 + 0S12	102	Lead	none	10,200	1,200	
40203	269	12g	2-3/4"	2-3/4" MultiHull 12/2A	CCI209M	Unique	25.0	X12X + Teflon Wrap	23C12 + OS12	1-1/80z	Lead	none	10,800	1,320	
40203	271	12g	2-3/4"	2-3/4" MultiHull 12/2A CCI209M	CCI209M	Herco	30.5	(2)X12X + Teflon Wrap	1/4" 12ga fw + 0S12	1-1/40z	Lead	none	11,500	1,400	
40401	362	12g	2-3/4"	2-3/4" MultiHull 12/2A	CCI209M	9-SH	34.0	LB12 + Teflon Wrap	0S12	1-1/40z	Lead	none	10,400	1,355	
40203	270	12g	2-3/4"	2-3/4" MultiHull 12/2A	M209	Herco	31.0	(3)NC12 + Teflon Wrap	23C12 + OS12	1-1/4oz	Lead	none	8,600	1,290	
40203	272	12g	2-3/4"	MultiHull 12/2A	M209	Herco	31.0	GS2 + Teflon Wrap	(2) 1/4" 12ga fw + 0S12	1-1/4oz	Lead	none	8,700	1,320	
31121	255	12g	2-3/4"	MultiHull 12/2A	M209	Herco	27.0	X12X + Teflon Wrap	1/4" 20ga fw + OS12	1-1/4oz	Lead	none	9,400	1,235	
31121	254	12g	2-3/4"	2-3/4" MultiHull 12/2A	M209	Herco	30.0	X12X + Teflon Wrap	1/4" 20ga fw + OS12	1-1/4oz	Lead	none	9,200	1,345	
40203	277	12g	2-3/4"	2-3/4" MultiHull 12/2A	M209	SR 7625	31.0	GS2 + Teflon Wrap	1/4" 12ga fw + 0S12	1-1/40z	Lead	none	9,400	1,290	
40203	276	12g	2-3/4"	2-3/4" MultiHull 12/2A	M209	SR 7625	31.0	X12X + Teflon Wrap	(2) $1/4$ " 12ga cw + OS12	1-1/40z	Lead	none	9,500	1,290	
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								gas seal	filler wad or	shot	shot				load notes/
load ID	Q	gauge	gauge length	llny	primer	powder	grains	a	internal wrap	(oz.)	type	buffer	P.S.I.	F.P.S.	application
40203	268	12g	2-3/4"	2-3/4" MultiHull 12/2A	M209	Unique	23.0	X12X + Teflon Wrap	23C12 + OS12 1-1/4oz	1-1/4oz	Lead	none	8,500	1,130	
40203	275	12g		2-3/4" MultiHull 12/2A	M209	Herco	28.0	(2)17C12 + Teflon Wrap	HCW12 + 0S12	1-3/8oz Lead	Lead	none	8,300	1,125	
40203	273	12g	2-3/4"	2-3/4" MultiHull 12/2A	M209	Herco	28.0	GS2 + Teflon Wrap	1/4" cw + 17C12 + OS12 1-3/80z Lead	1-3/80z	Lead	none	9,300	1,220	
40203	274	12g	2-3/4"	2-3/4" MultiHull 12/2A CCI209M	CCI209M	Herco	28.0	X12X + Teflon Wrap	HCW12 + 0S12	1-3/8oz Lead	Lead	none	11,100	1,275	THE THE PROPERTY OF THE PROPER
40203	279	12g	2-3/4"	2-3/4" MultiHull 12/2A	M209	SR 4756	30.0	GS2 + Teflon Wrap	38C12 + OS12 1-3/8oz Lead	1-3/80z	Lead	none	8,900	1,150	
40203	278	12g		2-3/4" MultiHull 12/2A	M209	SR 4756	30.0	X12X + Teflon Wrap	38C12 + OS12 1-3/8oz Lead	1-3/80z	Lead	none	8,900	1,165	
40401	369	12g	2-3/4"	Win AA	Win 209	X00X	18.0	LB12 + Teflon Wrap	0S12	10Z	Lead	none	10,450	1,335	
920601		12g	2-3/4"	Win AA	Win 209	Nitro 100	20.0	BW12 + Teflon Wrap	1/8" 12ga fw + 0S12	10Z	Lead	none	10,600	1,340	
40604 383	383	12g	2-3/4"	Win AA	Win 209	Clays	19.0	(2)NC12 + Teflon Wrap	HCW12 + 0S12	102	Lead	none	008'6	1,230	
40604A	383 A	12g	2-3/4"	Win AA	Win 209	Clays	18.5	(2)NC12 + Teflon Wrap	HCW12 + OS12	102	Lead	none	009'6	1,200	
40401	371	12g	2-3/4"	Win AA	Win 209	Int Clays	23.0	LB12 + Teflon Wrap	0S12	10Z	Lead	none	10,400	1,380	
40604	384	12g	2-3/4"	Win AA	Win 209	Int Clays	22.0	(2)NC12 + Teflon Wrap	23C12 + OS12	102	Lead	none	9,100	1,275	
920601		12g	2-3/4"	Win AA	Win 209	Nitro 100	18.5	BW12 + Teflon Wrap	0S12	1-1/80z	Lead	none	11,500	1,290	
40904	385	12g	2-3/4"	Win AA	Win 209	Int Clays	20.0	(3)NC12 + Teflon Wrap	(2) 14C12 + 0S12	1-1/8oz Lead	Lead	none	10,500 1,210	1,210	



) 16 gauge 2-3/4"	1,300	10,200	none	Lead	10z	0S16 Data 11	Z16 OS Buckshot Load Data 11	22.0 Bu c	SR-7625	Win 209	2-3/4" Win AA ucts Inc	40323 344 16g 2-3/4" © 2004 Ballistic Products Inc	16g tic Prod	344 Ballis	40323 © 2004
(Anti-contention contention conte	1,375	11,000	none	Lead	102	0S16	Z16	26.0	SR-4756	CCI209	Win AA	2-3/4"	169		
	1,282	10,100	none	Lead	102	0S16	Z16	24.0	SR-4756	CCI209	Win AA	2-3/4"	16g	400	4
	1,425	10,650	none	Lead	10Z	0S16	Z16	25.0	Longshot	Win 209	Win AA	2-3/4"	16g	342	34
	1,345	9,850	none	Lead	7/80z	0S16	Z16	21.0	PB	Win 209	Win AA	2-3/4"	16g	343	3
чинивания при	1,290	10,600	none	Lead	1-1/40z	0S16	Z16	24.0	Longshot	Fio 616	Fiocchi	2-3/4"	16g	403	4
онновананонопонинанананананананананананананананананан	1,390	10,300	none	Lead	1-1/80z	0S16	Z16	26.0	Longshot	Fio 616	Fiocchi	2-3/4"	16g	404	4
	1,470	6,700	none	Lead	10Z	0S16	Z16	28.0	Longshot	Fio 616	Fiocchi	2-3/4"	16g	402	4
- при	1,220	8,600	none	Lead	10Z	0S16	Z16	22.0	SR-7625	Fio 616	Fiocchi	2-3/4"	16g	413	4
distributional disconnection and connection and conn	1,330	9,100	none	Lead	10Z	0S16	Z16	28.0	SR-4756	Fio 616	Fiocchi	2-3/4"	16g	397	3
	1,210	9,400	none	Lead	10Z	0S16	Z16	22.0	SR-4756	CCI209	Fiocchi	2-3/4"	16g	399	n
	1,300	10,800	none	Lead	10Z	0S16	Z16	19.0	Solo 1000	Fio 616	Fiocchi	2-3/4"	16g	412n	4
делением при	1,310	10,900	none	Lead	10Z	0S16	Z16	20.0	Solo 1000	Fio 616	Fiocchi	2-3/4"	16g	412	4
	1,400	10,500	none	Lead	102	0S16	Z16	30.0	Longshot	Fio 616	Fiocchi	2-3/4"	16g		
	1,300	10,450	none	Lead	10Z	0S16	216	27.0	Longshot	Fio 616	Fiocchi	2-3/4"	16g		
положность подавления п	1,290	10,400	none	Lead	10Z	0S16	Z16	26.0	Longshot	Fio 616	Fiocchi	2-3/4"	16g	XS	
	1,350	10,000	none	Lead	7/80z	0S16	Z16	19.0	Solo 1000	Fio 616	Fiocchi	2-3/4"	16g	411n	4
«Монтрасите поверхня при	1,360	006'6	none	Lead	7/8oz	0S16	Z16	20.0	Solo 1000	Fio 616	Fiocchi	2-3/4"	16g	411	4
A+	1,465	11,200	none	Lead	1-1/80z	0S16	Z16	28.0	Longshot	CH209	Cheddite	2-3/4"	16g	350	3
	1,300	10,300	none	Lead	1-1/80z	0S16	216	23.0	X008	CH209	Cheddite	2-3/4"	16g	359	m
A+	1,515	10,900	none	Lead	102	0516	Z16	24.0	Univ Clays	CH209	Cheddite	2-3/4"	16g	352	(4)
	1,345	10,150	none	Lead	10Z	0S16	Z16	22.0	Unique	CH209	Cheddite	2-3/4"	16g	339	m
speedy	1,320	009'6	none	Lead	10Z	0S16	Z16	24.0	SR-7625	CH209	Cheddite	2-3/4"	16g	332	3
A+	1,440	10,300	none	Lead	102	0516	Z16	27.0	SR-7625	CH209	Cheddite	2-3/4"	16g	356	3
full	1,440	10,500	none	Lead	10Z	0S16	Z16	30.0	SR-4756	CH209	Cheddite	2-3/4"	16g	335	3
PERFECT	1,200	009'6	none	Lead	102	0S16	Z16	17.0	Solo 1000	CH209	Cheddite	2-3/4"	16g	355	3
	1,210	10,400	none	Lead	102	0S16	216	16.5	Red Dot	Win 209	Cheddite	2-3/4"	16g	329	3
	1,500	10,800	none	Lead	10Z	0S16	Z16	30.0	Longshot	CH209	Cheddite	2-3/4"	16g	334	3
application	F.P.S.	P.S.I.	buffer	shot type	shot (oz.)	internal wrap	wad	grains	powder	primer	llnd	length	gauge		load ID

1D gauge length hull primer powder grains wad internal wrap shot (oz.) 326 16g 2-3/4" Cheddite CH209 Clays 16.5 10.14CW+ OS16 7/80z 354 16g 2-3/4" Cheddite CH209 Clays 18.0 OB16+(2)NC16 OS16 7/80z 351 16g 2-3/4" Cheddite CH209 Univ Clays 22.5 OB16+(2)NC16 OS16 7/80z 331 16g 2-3/4" Cheddite CH209 Green Dot 18.5 OB16+ HCW16+ OS16 10z 357 16g 2-3/4" Cheddite CH209 SR-7625 25.0 HCW16+ Teffon OS16 1.78oz 358 16g 2-3/4" Cheddite CH209 SR-7625 25.0 HCW16+ Teffon OS16 1.1/40z 358 16g 2-3/4" Cheddite CH209 SR-7625 25.0 HCW16+ Teffon OS16 1.1/40z <t< th=""><th></th><th>8</th><th></th><th></th><th></th><th></th><th></th><th></th><th>gas seal and/or</th><th>filler wad or</th><th></th><th></th><th></th><th></th><th></th><th>load notes/</th></t<>		8							gas seal and/or	filler wad or						load notes/
326 16g 2-3/4" Cheddite CH209 Clays 16.5 C)14HCW + OS16 7/80z 354 16g 2-3/4" Cheddite CH209 Solo 1000 18.0 CB16 + (2)NC16 OS16 7/80z 351 16g 2-3/4" Cheddite CH209 Univ Clays 22.5 CB16 + HCW16 OS16 7/80z 331 16g 2-3/4" Cheddite CH209 Green Dot 18.5 CB16 + HCW16 OS16 10z 357 16g 2-3/4" Cheddite CH209 SR-7625 26.0 HCW16 + Teflon Wrap 358 16g 2-3/4" Cheddite CH209 SR-7625 26.0 HCW16 + Teflon Wrap 359 16g 2-3/4" Cheddite CH209 SR-7625 26.0 HCW16 + Teflon Wrap 350 16g 2-3/4" Cheddite CH209 SR-7625 26.0 HCW16 + Teflon Wrap 350 16g 2-3/4" Cheddite CH209 SR-7625 26.0 HCW16 + Teflon Wrap 351 352 354 Cheddite CH209 SR-7625 26.0 HCW16 + Teflon Wrap 352 354 16g 2-3/4" Cheddite CH209 SR-7625 26.0 HCW16 + Teflon Wrap 353 354 354 Flocchi Flo 616 SR-7625 26.0 HCW16 + Teflon Wrap 354 355 357 358 358 358 358 358 358 358 358 358 359 359 359 359 359 355 357 358 358 358 359	loac	Q	gauge		llnd	primer	powder	grains	wad	internal wrap	shot (oz.)	shot type	buffer	P.S.I.	F.P.S.	application
354 16g 2-3/4" Cheddite CH209 Solo 1000 18.0	40319		16g	2-3/4"			Clays	16.5	OB16 + (2)14HCW + Teflon Wrap	0S16	7/8oz	Lead	none	none 11,300 1,250	1,250	
351 169 2-3/4" Cheddite CH209 Univ Clays 22.5 HCW16 + NC16	40401		16g	2-3/4"			Solo 1000	18.0	OB16 + (2)NC16 + HCW16	0S16	7/80z	Lead	none	11,200	1,260	
355 16g 2-3/4" Cheddite CH209 Green Dot 18.5 + Teflon Wrap 331 16g 2-3/4" Cheddite CH209 PB 22.0 1/8 cw 20 + OS16 10z Teflon Wrap 357 16g 2-3/4" Cheddite CH209 SR-7625 26.0 HCW16 + Teflon Wrap 358 16g 2-3/4" Cheddite CH209 800X 24.0 HCW16 + Teflon OS16 1-1/8oz 330 16g 2-3/4" Cheddite Win 209 Steel 30.0 (2)NG16 + Teflon Wrap 414 16g 2-3/4" Flocchi Fio 616 Longshot 25.0 (2)HWC16 + OS16 7/8oz 405 16g 2-3/4" Flocchi Fio 616 Univ Clays 26.0 (2)HWC16 + OS16 7/8oz 407 16g 2-3/4" Flocchi Fio 616 Univ Clays 26.0 (2)HWC16 + OS16 7/8oz Teflon Wrap Teflon Wrap (2)NG16 + OS16 7/8oz Teflon Wrap (2)HWC16 + OS16 7/8oz Teflon Wrap (3)NC16 + OS16 7/8oz Teflon Wrap	40401	351	16g	2-3/4"	Cheddite		Univ Clays	22.5	OB16 + NC16 + HCW16 + Teflon	0S16	7/80z	Lead	none	11,200	1,460	
331 16g 2-3/4" Cheddite CH209 PB 22.0 1/8 cw 20 + OS16 10z 357 16g 2-3/4" Cheddite CH209 SR-7625 26.0 HCW16 + Teflon Wrap 358 16g 2-3/4" Cheddite CH209 SR-7625 26.0 HCW16 + Teflon OS16 1-1/80z 330 16g 2-3/4" Cheddite Win 209 Steel 30.0 (2)OB16 + 14C16 OS16 1-1/80z 414 16g 2-3/4" Fiocchi Fio 616 Longshot 25.0 (2)HWC16 + OS16 7/80z 405 16g 2-3/4" Fiocchi Fio 616 Univ Clays 26.0 (2)HWC16 + OS16 7/80z 347 16g 2-3/4" Win AA Win 209 SR-4756 24.0 OB16 + HCW16 + OS16 1-1/80z 347 16g 2-3/4" Win AA Win 209 SR-4756 24.0 OB16 + HCW16 + OS16 1-1/80z	40319		16g	2-3/4"	Cheddite		Green Dot	18.5	OB16 + (2)14C16 + Teflon Wrap	0S16	102	Lead	none	11,000 1,250	1,250	
357 16g 2-3/4" Cheddite CH209 SR-7625 26.0 HCW16 + Teflon OS16 10z Wirab (2)NC16 + (3)NC16 + (4)NC16 + (4)NC16 + (4)NC16 + (5)NC16 + (6)NC16 + (7)NC16 + (7)NC16 + (8)NC16 + (8	40319		16g	2-3/4"	Cheddite		ВВ	22.0	OB16 + HCW16 + 1/8 cw 20 + Teflon Wrap	0S16	10Z	Lead	none	none 10,600 1,290	1,290	
358 16g 2-3/4" Cheddite CH209 800X 24.0 HCW16 + Teflon OS16 1-1/8oz 330 16g 2-3/4" Cheddite Win 209 Steel 30.0 (2)OB16 + 14C16 OS16 1-1/4oz 414 16g 2-3/4" Fiocchi Fio 616 R00X 25.0 (2)HWC16 + OS16 7/8oz 405 16g 2-3/4" Fiocchi Fio 616 Longshot 25.0 (2)HWC16 + OS16 7/8oz 407 16g 2-3/4" Fiocchi Fio 616 Univ Clays 26.0 (2)HWC16 + OS16 7/8oz 347 16g 2-3/4" Win AA Win 209 SR-4756 24.0 OB16 + HCW16 + OS16 1-1/8oz	40401	357	16g	2-3/4"	Cheddite		SR-7625	26.0	(2)NC16 + HCW16 + Teflon Wrap	0S16	10z	Lead	none	11,300	1,375	
330 16g 2-3/4" Cheddite Win 209 Steel 30.0 (2)OB16 + 14C16 OS16 1-1/4oz + Teflon Wrap C3/4" Fiocchi Fio 616 800X 25.0 (2)HWC16 + OS16 7/8oz Teflon Wrap C3/4" Fiocchi Fio 616 Longshot 25.0 (2)HWC16 + OS16 7/8oz C3/4" Fiocchi Fio 616 Univ Clays 26.0 (2)HWC16 + OS16 7/8oz C3/4" Fiocchi Fio 616 Univ Clays 26.0 (2)HWC16 + OS16 7/8oz Teflon Wrap C3/4" Win AA Win 209 SR-4756 24.0 OB16 + HCW16 + OS16 1-1/8oz	40401	358	16g	2-3/4"	Cheddite	CH209	X008	24.0	(2)NC16 + HCW16 + Teflon Wrap	0S16	1-1/80z	Lead	none	none 10,000 1,220	1,220	
414 16g 2-3/4" Fiocchi Fio 616 800X 25.0 Teflon Wrap 405 16g 2-3/4" Fiocchi Fio 616 Longshot 25.0 Teflon Wrap 407 16g 2-3/4" Fiocchi Fio 616 Univ Clays 26.0 (2)HWC16 + OS16 7/80z 407 16g 2-3/4" Fiocchi Fio 616 Univ Clays 26.0 (2)HWC16 + Teflon Wrap 407 16g 2-3/4" Win AA Win 209 SR-4756 24.0 OB16 + HCW16 + OS16 1-1/80z	40319	330	169	2-3/4"	Cheddite	Win 209		30.0	(2)OB16 + 14C16 + Teflon Wrap	0516	1-1/4oz	Lead	none	none 11,200 1,390	1,390	
405 16g 2-3/4" Flocchi Fio 616 Longshot 25.0 (2)HWC16 + OS16 7/8oz 407 16g 2-3/4" Flocchi Fio 616 Univ Clays 26.0 (2)HWC16 + OS16 7/8oz Teflon Wrap	40629		16g	2-3/4"		Fio 616	X008	25.0	(2)HWC16 + Teflon Wrap	0516	7/80z	Lead	none	10,300	1,405	
(3)NC16 + 407 16g 2-3/4" Fiocchi Fio 616 Univ Clays 26.0 (2)HWC16 + OS16 7/8oz Teflon Wrap 347 16g 2-3/4" Win AA Win 209 SR-4756 24.0 OB16 + HCW16 + OS16 1-1/8oz	40629	405	16g	2-3/4"		Fio 616	Longshot	25.0	(2)HWC16 + Teflon Wrap	0S16	7/8oz	Lead	none	9,300	1,385	
347 16g 2-3/4" Win AA Win 209 SR-4756 24.0 OB16 + HCW16 + OS16 1-1/80z	40629	407	16g	2-3/4"			Univ Clays	26.0	(3)NC16 + (2)HWC16 + Teflon Wrap	0S16	7/8oz	Lead	none	11,500 1,485	1,485	100000000000000000000000000000000000000
Letion Wrap	40323	347	169	2-3/4"	Win AA	Win 209	SR-4756	24.0	OB16 + HCW16 + Teflon Wrap	0516	1-1/8oz	Lead	none	none 10,150 1,205	1,205	



20 gauge 3"

application load notes/ 1,310 F.P.S. 9,000 1,455 9,900 1,400 9,600 1,220 10,900 1,370 11,100 1,260 10,250 1,400 9,200 9,700 P.S.I. none none none none buffer none none none none internal wrap shot (oz.) shot type Lead Lead Lead Lead Lead Lead Lead Lead 1-1/80z 1-1/80z 7/80z 7/80z 7/80z 10Z 10Z 10Z filler wad or 0250 0250 0250 0250 0250 0250 0250 0250 OB20 + TC20 NC20 + TC20 (2)HWC20 + Teflon Wrap Teflon Wrap (2)HWC20 + Teflon Wrap Teflon Wrap and/or wad BW20 + BW20 + gas seal TC20 TC20 grains 26.0 26.0 24.0 27.0 25.0 22.0 26.0 28.0 Longshot Longshot SR 4756 SR-4756 powder Steel Steel PB PB CCI 209M Fio 616 primer Fiocchi Fiocchi Fiocchi Fiocchi Fiocchi Fiocchi Fiocchi Fiocchi Pre length 2 5 3 ~ ~ 3 3 gauge 20g **20g 20g** 20g 20g 20g 20g 20g Teflon Wrap Loads 31015 183 40629 422 31015 176 31015 181 30921 147 31015 177 40629 421 31017 187 load ID



							gas seal and/or filler wad or	filler wad or						load notes/
load ID	gauge	e length	llny	primer	powder	grains	wad	internal wrap	shot (oz.)	shot type	buffer	P.S.I.	F.P.S.	application
31015 165	5 20g	2-3/4"	Cheddite	CH209	X008	24.0	TC20	0250	7/8oz	Lead	none	11,400	1,465	Roll Crimp
31015 168	8 20g	2-3/4"	Cheddite	CH209	9-SH	24.0	TC20	0250	7/80z	Lead	none	009'6	1,310	
31015 161	1 20g	2-3/4"	Cheddite	CH209	Longshot	24.0	TC20	0250	7/80z	Lead	none	10,300	1,350	
A101	20g	2-3/4"	Fiocchi	Fio 616	Blue Dot	26.0	TC20	0250	7/80z	Lead	none	10,600	1,340	
A102	20g	2-3/4"	Rem RXP	Rem 209P	Unique	16.0	TC20	0250	7/80z	Lead	none	11,300	1,200	
Teflon Wrap Loads	ap Loads													
31015 166	6 20g	2-3/4"	Cheddite	CH209	X008	22.0	BW20 + Teflon Wrap	0250	7/8oz	Lead	none	11,800	1,400	Roll Crimp
31015 163	3 20g	2-3/4"	Cheddite	CH209	Herco	21.0	BW20 + Teflon Wrap	0250	7/8oz	Lead	none	11,500	1,425	
31015 167	7 20g	2-3/4"	2-3/4" Cheddite	CH209	9-SH	24.0	BW20 + Teflon Wrap	0250	7/8oz	Lead	none	10,100	1,345	
31015 162	2 20g	2-3/4"	Cheddite	CH209	Longshot	24.0	BW20 + Teflon Wrap	0250	7/8oz	Lead	none	10,300	1,475	
31021 194	4 20g	2-3/4"	Cheddite	Win 209	Longshot	24.0	BW20 + Teflon Wrap	0250	7/8oz	Lead	none	11,900	1,525	
							OB20 + 14C20							
31015 169	9 20g	2-3/4"	Cheddite	CH209	SR 4756	25.0	+ 1/4" cw 20	0250	7/8oz	Lead	none	6,700	1,345	
							+ Tetlon Wrap							
31015 171	1 20g	2-3/4"	Cheddite	CH209	SR 7625	22.0	BW20 + Teflon Wrap	0250	7/8oz	Lead	none	10,500	1,345	Roll Crimp
							OB20 + NC20							
31021 197	7 20g	2-3/4"	Cheddite	CH209	Solo 1250	18.0	+ 1/4" cw 20	0250	10Z	Lead	none	11,500	1,325	
							+ Teflon Wrap							
31021 195	5 20g	2-3/4"	Cheddite	CH209	SR 4756	20.0	(2)0B20 + Teflon Wrap	0250	102	Lead	none	008'6	1,150	of the parties of the
31015 170) 20g	2-3/4"	Cheddite	CH209	SR 4756	23.0	OB20 + 14C20 + NC20 + Teflon Wrap	0250	102	Lead	none	10,200	1,255	
31015	20g	2-3/4"	2-3/4" Cheddite	CH209	SR 4756	23.0	OB20 + 14C20 + Teflon Wrap	0250	102	Lead	none	10,300	1,255	
© 2004 Ballistic Products Inc	istic Pro	ducts In	10	transmission address and address and a property of the contract of the contrac		B	Buckshot Load Data 14	ta 14		на периодини при при при при при при при при при пр			20 8	20 gauge 2-3/4"



lerion wrap Loads	Coads													
load ID	gauge	length	hull	primer	powder	grains	gas seal and/or wad	filler wad or internal wrap	shot (oz.)	shot type	buffer	P.S.I.	F.P.S.	application
40629 419	20g	2-3/4"	Fiocchi	Fio 616	X008	20.0	(2)HWC20	Teflon + OS20	7/8oz	Lead	none	9,500	1,210	
40629 417	20g	2-3/4"	Fiocchi	Fio 616	Green Dot	17.5	(2)HWC20	Teflon + OS20	7/8oz	Lead	none	11,600	1,220	
20205	20g	2-3/4"	Fiocchi	Fio 616	Green Dot	16.0	OB20 + (2)14C20 + NC20	Teflon + OS20	7/8oz	Lead	none	10,800	1,270	
20205	20g	2-3/4"	Fiocchi	Fio 616	Green Dot	18.0	OB20 + (2)14C20	Teflon + OS20	7/8oz	Lead	none	10,950	1,285	
20205	20g	2-3/4"	Fiocchi	Fio 616	Herco	20.0	OB20 + 14C20 + NC20	Teflon + OS20	7/8oz	Lead	none	10,000	1,200	
40629 420	20g	2-3/4"	Fiocchi	Fio 616	Longshot	24.0	(2)HWC20	Teflon + OS20	7/8oz	Lead	none	10,200	1,390	
11228	20g	2-3/4"	Fiocchi	Fio 616	Longshot	24.0	OB20 + (2)14C20 + NC20	Teflon + OS20	7/8oz	Lead	none	10,000	1,240	
40629 418	20g	2-3/4"	Fiocchi	Fio 616	Solo 1250	20.0	(2)HWC20	Teflon + OS20	7/80z	Lead	none	006'6	1,265	
20205	20g	2-3/4"	Fiocchi	Fio 616	Solo 1250	19.0	(2)NC20 + (2)14C20	Teflon + 0S20	7/8oz	Lead	none	000'6	1,100	
20205	20g	2-3/4"	Fiocchi	Fio 616	Solo 1250	22.0	(2)NC20 + (2)14C20	Teflon + OS20	7/80z	Lead	none	10,300	1,290	
31021 196	20g	2-3/4"	Fiocchi	Fio 616	Solo 1250	20.0	(2)OB20	Teflon + OS20	7/8oz	Lead	none	11,600	1,335	
20205	20g	2-3/4"	Fiocchi	Fio 616	Solo 1250	20.0	(3)14C20	Teflon + OS20	7/8oz	Lead	none	8,600	1,080	
20205	20g	2-3/4"	Fiocchi	Fio 616	Solo 1250	20.0	OB20 + (2)14C20	Teflon + OS20	7/8oz	Lead	none	11,500	1,325	
20205	20g	2-3/4"	Fiocchi	Fio 616	SR 4756	24.0	OB20 + 14C20 + 1/4" cw 20	Teflon + OS20	7/80z	Lead	none	10,100	1,220	
20205	20g	2-3/4"	Fiocchi	Fio 616	Herco	19.0	OB20 + (2)14C20 + NC20	Teflon + OS20	102	Lead	none	10,600	1,220	
11228	20g	2-3/4"	Fiocchi	Fio 616	SR 4756	22.0	(4)NC20 + 14C20	Teflon + OS20	10z	Lead	none	9,300	1,200	Roll Crimp
© 2004 Ballistic Products Inc	listic Pr	oducts Ir	JC				Buckshot Load Data 15	Data 15					20	20 gauge 2-3/4"
		CALL WILLIAM CO.				Charles of the last of the las								

Teflon Wrap Loads	o Loads													
load ID	gauge	gauge length	llnd	primer	powder	grains	gas seal and/or filler wad or wad internal wrap	filler wad or internal wrap shot (oz.) shot type buffer P.S.I. F.P.S.	shot (oz.)	shot type	buffer	P.S.I.	F.P.S.	load notes/
31021 197		20g 2-3/4"	Fiocchi	Fio 616	SR 4756	24.0	0820	Teflon + OS20	10Z	Lead	none	none 11,800 1,355	1,355	11
11228	20g		2-3/4" Rem UB	Rem 209P Longshot	Longshot	23.0	BW20	Teflon + OS20	7/8oz	Lead	none	none 11,900	1,340	
40308 318	20g	2-3/4"	Win AA	CCI 209	Herco	16.0	(3)NC20 + HCW20	Teflon + OS20	7/8oz	Lead	none	none 10,300 1,100	1,100	
40308 318	20g	2-3/4"	Win AA	CCI 209	Herco	16.0	(3)NC20 + HCW20	Teflon + OS20	7/8oz	Lead	none	10,300	1,100	
40308 316	20g	2-3/4"	Win AA	CCI 209	Herco	15.5	OB20 + 38C20 + 1/4" cw 20	Teflon + OS20	7/8oz	Lead	none	009'6	1,130	
40308 316	20g	2-3/4"	Win AA	CCI 209	Herco	15.5	OB20 + 38C20 + 1/4" cw 20	Teflon + OS20	7/8oz	Lead	none	009'6	1,130	
11228	20g	2-3/4"	Win AA	Win 209	9-SH	22.0	BW20	Teflon + OS20	7/8oz	Lead	none	10,400	10,400 1,355	
40308 315	20g	2-3/4"	Win AA	CCI 209	Steel	22.0	OB20 + 14C20 + 1/4cw 20	Teflon + OS20	10Z	Lead	none	006'6	1,255	
40308 315	20g	2-3/4"	Win AA	CCI 209	Steel	22.0	0 -	Teflon + OS20	102	Lead	none	006'6	1,255	



								gas seal and/or	tiller wad or						load notes/
load ID		agnu	gauge length	hull	primer	powder	grains	wad	internal wrap	shot (oz.)	shot type	puffer	P.S.I.	F.P.S.	application
20319	2	28g	2-3/4"	Cheddite	CH209	X008	17.0	BW28	0S28	3/4oz	Lead	none	11,300	1,385	A+
979317	2	28g	2-3/4"	Federal	REM 209P	Blue Dot	20.0	BW28	0S28	3/4oz	Lead	none	8,480	1,246	
20312	2	28g	2-3/4"	Cheddite	CH209	Herco	16.0	BW28	0S28	3/4oz	Lead	none	12,200	1,310	distribution of the contract o
21125	2	28g	2-3/4"	Cheddite	CH209	Longshot	18.0	N728 + SG28-II	0S28	3/4oz	Lead	none	11,700	1,390	
20312	2	28g	2-3/4"	Cheddite	CH209	Longshot	19.0	BW28	0S28	3/4oz	Lead	none	10,950	1,345	
20328	2	28g	2-3/4"	Cheddite	CH209	SR-4756	18.0	BW28	0S28	3/40z	Lead	none	10,650	1,300	
20312	47 2	28g	2-3/4"	Cheddite	CH209	SR-7625	14.0	BW28	0S28	3/4oz	Lead	none	9,350	1,275	
20328	87 2	28g	2-3/4"	Cheddite	CH209	SR-7625	16.0	BW28	0S28	3/4oz	Lead	none	11,900	1,400	
21125	2	28g	2-3/4"	Cheddite	CH209	Blue Dot	20.0	HV28	0S28	7/8oz	Lead	none	11,850	1,220	
30909	76 2	28g	2-3/4"	Cheddite	CH209	H110	30.0	HV28	0S28	7/8oz	Lead	none	8,340	1,320	
21125	2	28g	2-3/4"	Win AA	Win 209	Lil Gun	24.0	HV28	0S28	7/8oz	Lead	none	11,100	1,180	A+
21125	2	28g	2-3/4"	Cheddite	CH209	Lil Gun	28.0	HV28	0S28	7/8oz	Lead	none	11,280	1,200	
30909	77 2	28g	2-3/4"	Cheddite	CH209	SR-4756	17.5	HV28	0S28	7/8oz	Lead	none	12,500	1,250	
30910	88 2	28g	2-3/4"	Cheddite	CH209	Steel	20.0	HV28	0S28	7/8oz	Lead	none	12,200	1,390	
30917	142 2	28g	2-3/4"	Cheddite	CH209	Steel	21.0	HV28	0S28	10Z	Lead	none	12,500	1,250	
30917	143 2	28g	2-3/4"	Cheddite	CH209	Steel	22.5	HV28	0S28	10Z	Lead	none	12,000	1,230	Roll Crimp
Teflon V	Teflon Wrap Loads	spi	120												
30828	2	28g	2-3/4"	2-3/4" Cheddite	CH209	Longshot	16.5	(3)NC28 + (2)14C28	Teflon + OS28	3/4oz	Lead	none	11,000	1,355	
30828	2	28g	2-3/4"	Cheddite	CH209	Longshot	16.5	(3)NC28 + (2)14C28	Teflon + 0S28	3/4oz	Lead	none	11,000	1,355	
20328	2	28g	2-3/4"	Win AA	Win 209	SR-4756	18.5	(3)NC28 + (2)14C28	Teflon + OS28	3/4oz	Lead	none	11,200	1,210	
20319	7	28g	2-3/4"	Win AA	Win 209	Blue Dot	21.5	(2)N728 + 38C28	Teflon + 0S28	7/80z	Lead	none	12,200	1,230	
20329	7	28g	2-3/4"	Win AA	Win 209	Lil Gun	24.0	(3)NC28 + (2)14C28	Teflon + OS28	7/8oz	Lead	none	050'6	1,050	
V.	***************************************	***************************************													

28 gauge 2-1/2"

							gas seal	filler wad or	100 mm mm mm m					load notes/
load ID gauge length hull	gauge	length	- 1	primer	primer powder	grains	and/or wad	internal wrap	shot (oz.)	shot type buffer P.S.I. F.P.S.	buffer	P.S.I.	F.P.S.	application
30828 47 28g 2-1/2"	28g	2-1/2"	Fiocchi	Fio 616	HS6	19.0	SG28-II	0S28	3/4oz	Lead	none	10,820 1,280	1,280	Roll Crimp
30828 46 28g 2-1/2"	28g	2-1/2"	Fiocchi	Fio 616	SR-7625	16.0	SG28-II	0528	3/4oz	Lead	none	11,400 1,200	1,200	Roll Crimp
30828 39		2-1/2"	28g 2-1/2" Fiocchi Fio 616	Fio 616	SR-7625	16.0	SG28-II	0528	3/4oz	Lead	none	11,250	1,260	Fold Crimp
30909 81	28g	28g 2-1/2"	Fiocchi	Fio 616	Fio 616 Longshot	15.0	HV28	0S28	7/8oz	Lead	none	11,933 1,235	1,235	Roll Crimp
30828 48	28g	2-1/2"	Fiocchi	Fio 616	Longshot	14.5	SG28-II	0528	7/80z	Lead	none	12,400	1,240	Roll Crimp
30828 50	28g	2-1/2"	Fiocchi	Fio 616	Fio 616 Longshot	14.5	SG28-II	0528	7/8oz	Lead	none	12,400	1,245	Roll Crimp
30903 69	28g	2-1/2"	Fiocchi	Fio 616	SR-7625	16.0	HV28	0528	7/8oz	Lead	none	12,400	1,220	Roll Crimp
Teflon Wrap Loads	Coads													
20308	28g	28g 2-1/2"	- 1	Fiocchi Fio 616	X008	17.0	(2)NC28 +(2) 14C28	Teflon + OS28	3/402	Lead	none	none 11,000 1,235	1,235	Roll Crimp
20301	28g	28g 2-1/2"		Fiocchi Fio 616	X008	15.0	(3)14C28	Teflon + OS28	3/4oz	Lead	none	10,600 1,220	1,220	Roll Crimp
30828 42 28g 2-1/2"	28g	2-1/2"		Fio 616	Fiocchi Fio 616 Longshot	14.5	(3)NC28 + (2)14C28	Teflon + 0S28	7/8oz	Lead	none	8,620	1,100	Roll Crimp



							gas seal	filler wad or						load notes/
load ID gauge length	gauge	length	llny	primer	powder	grains	and/or wad	internal wrap	shot (oz.)	shot type	buffer	buffer P.S.I.	F.P.S.	application
40712 453 410	410	3"	Cheddite	CH 209	4100(Accurate)	17.0	Stretch	0S41	1/2oz	Lead	none	000'6	1,310	
40709 444	410	3"	Cheddite	CH 209	Cheddite CH 209 H110 (Hodgdon)	16.0	Stretch	0S41	1/2oz	Lead	none	5,500	1,200	
40709 445	410	3"	Cheddite	CH 209	H110 (Hodgdon)	18.0	Stretch	0S41	1/2oz	Lead	none	6,400	1,280	
40709 443	410	3"	Cheddite	CH 209	H110 (Hodgdon)	20.0	(4)NC410	0S41	1/2oz	Lead	none	9,200	1,200	
40709 450	410	3"	Cheddite	CH 209	H110 (Hodgdon)	16.0	(3)NC410	0S41	2/80z	Lead	none	9,300	1,200	
40709 447	410	3"	Cheddite	CH 209	H110 (Hodgdon)	16.0	Stump	0S41	2/80z	Lead	none	009'6	1,225	
40709 448	410	3"	Cheddite	CH 209	H110 (Hodgdon)	18.0	Stump	0S41	2/80z	Lead	none	10,300	1,325	
40712 461	410	3"	Cheddite	CH 209	4100(Accurate)	15.0	Stump	0841	3/4oz	Lead	none	11,600	1,165	

Buckshot Weight Table

	#T 0.20"		461	474	486	499	512	525	538	550	263	576	280	602	614	627	640	653	999	829	691	704	717	730	742	755	298	781	794	908	819	832	845	858	870	883	968
	#F 0.22"		580	596	612	628	644	099	676	692	202	725	741	757	773	789	805	821	837	853	698	886	902	918	934	950	996	982	866	1014	1030	1047	1063	1079	1095	1111	1127
	#4 0.24"	ins)	731	751	777	792	812	832	853	873	803	914	034	954	974	995	1015	1035	1056	1076	1096	1117	1137	1157	1177	1198	1218										
	#3	n Gra	846	870	893	917	940	964	987	1011	1034	1058	1081	1105	1128	1152	1175	1199	1222	1246																	
	#2 0.27	Approximate Weight (in Grains)	1044	1073	1102	1131	1160	1189	1218	777																											
	#10.30"	e We	I																																		
	0.34" 0.32"	xima																																			
)	0.34"	Appro																																			
	000																																				
	0.38"																																				
0	Pellet size Diamter	of Pellets	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	22	26	57	28	29	09	61	62	63	64	65	99	67	89	69	20
	P	#																																			
	#T 0.20"		12.8	5.6	8.4	1.2	54	8.9	9.6	00	ر ا تر	28	41	54	99	79	92	05	18	30	43	26	69	82	94	07	20	33	46	58	71	84	26	10	22	35	48
	#F 4 0.22" 0.			32.2																																	
	#4 #4 0.24" 0.	(33																									-	P						11		
	#3 # 0.26" 0.	rains	23.5 20																																		
	27 0.2	t (in G	0.0	∞ t	~																																
	:1 30" 0.	Neigh	0.0	80 2	20.00																													92	36	986	10
	0.32" 0.30"	nate 1	48.0 40																										10	11	11	12					
	0.34" 0.3	Approximate Weight (in Grains)	.0 48																							11	12	12									
		7.		8 . 108																	10	100	11	118	12				t								
	0000		74.0																125																		
	0.38		85.0	170	222	340	425	510	595	089	765	850	935	1020	1105	1190	1275																				
	ize	llets									_	0	_	7	3	4	5	9	7	18	6	0		22	3	4	2	9	7	00	6	0	_	7	3	4.	10
	t s mt	26	\Box	2	0.	4	2	9	1	α		1																				_	1	6 4	6.7		L ,
;	Pellet size Diamter	# of Pellets	1	20	ο.	4	S	9	_	. ∞	0	1		1	7		1	1	1	1	7	7	7	7	7	71	7	7	7	5	7	3(3.	37	33	m i	33

Weights and sizes represented in this table are not exact. Weigh and measure your buckshot. 437.5 grains = 1 ounce.

MULTING MANAGERIA

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"I just sent in an order for hulls and wads—you guys are GREAT for those of us throwbacks who love the 16ga. Keep up the good work!"
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