RELOADERS' GUIDE

When You Are
Looking For
Consistency,
Reliability &
Performance...
Look No Further
Than Alliant Powder

Centerfold Powder Guide Pullout Inside

2005 Edition

Technical Assistance: 800-276-9337

www.alliantpowder.com



Our Mission: PREMIUM PERFORMANCE, CONSISTENT QUALITY.

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

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



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CAUTION

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

Protect yourself by studying books that describe safe reloading techniques in detail. When using smokeless powders, use only the exact type and quantity described herein.

Always store and use your smokeless powders in accordance with the guidelines listed in this booklet.

POWDER WARNINGS

- <u>NEVER</u> substitute smokeless powder for black powder, or for black powder substitutes.
- **NEVER** mix together any two powders, regardless of type, brand, style, or source.
- Violation of any of the above could result in severe personal injury (including death) or gun damage.
- NEVER use the data in this Reloaders' Guide for any other powders, even if advertised "similar to Bullseye" or "burns the same as Red Dot," etc.

WARNING — BE SURE TO:

- The powder charge weights listed in our data tables are maximum. For rifle and pistol loads, the maximum powder charge should be reduced by 10% to establish a minimum or starting powder charge.
- All loads have been tested in our ballistics lab with SAAMI approved, un-vented test barrels.
 Keep in mind that such test equipment often yields higher velocities than are usually obtained with sporting arms.
- If ever you are unsure of your load data, or if you detect any signs of high pressure while using load data from this Guide, stop loading or testing at once. Contact our technical service personnel at 800-276-9337 before proceeding.

BALLISTICS

The ballistic data shown in this booklet were obtained in the laboratory under strictly controlled conditions. You must load only the exact combinations that are listed. Even then, different reloading techniques, plus industrial tolerances of each component, likely will cause your ammunition, or ammunition loaded by other competent laboratories, to yield slightly different ballistic data. Therefore, powder charge recommendations in this booklet <u>must never be exceeded.</u>

Safe shooters and hunters know that accuracy, not maximum power, is their key to success.

FOR TECHNICAL ASSISTANCE

For Technical Assistance or for any information not included in this Reloaders' Guide, please call 1-800-276-9337.

For our interactive Reloaders' Guide on the Web, click onto www.alliantpowder.com.

Our e-mail address is: alliant reloading@atk.com

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Alliant disclaims any warranties with respect to this product, the safety or suitability thereof, or the results obtained, whether express or implied, including, without limitation, any
implied warranty of merchantability or fitness for a particular purpose and/or any other
warranty. Buyers and users assume all risk, responsibility, and liability whatsoever for any
and all injuries (including death), losses, or damages to persons or property arising from
the use of this product, whether or not occasioned by seller's negligence or based on
strict product liability or principles of indemnity or contribution.

Alliant neither assumes nor authorizes any person to assume for it any liability in connection with the use of this product.



ALLIANT SHOTSHELL PO ALL-TIME FAVORITES RED DOT, GREEN DOT, AI



Red Dot®. Now Cleaner BURNING! America's #1 choice for clay target loads, now 50% cleaner. Since 1932, more 100 straights than any other powder. Available in 8-lb., 4-lb., and 1-lb. canisters.



€^{3®}. The first of a new generation of high performance powders.



Green Dot®. Now Cleaner **BURNING!** It delivers precise burn rates for uniformly tight patterns, and you'll appreciate the lower felt recoil. Versatile for target and field. Available in 8-lb., 4-lb., and 1-lb. canisters.



PROMO. America's #1 economy-priced 12 ga. target powder. Promo has the same burn speed as Red Dot, but is more dense, thus requiring a smaller bushing to obtain the same charge weight. Available in 8-lb. canister only.



Blue Dot®. The powder of choice for magnum lead shotshell loads. 10, 12, 16, and 20 gauge. Consistent and accurate. Doubles as magnum handgun powder. Available in 5-lb., and 1-lb. canisters.

LL POWDERS ARE #1! OT, AND UNIQUE ARE 50% CLEANER BURNING.



American Select®. Our "ultra clean" burning premium powder makes a versatile target load and superior 1-oz. load for improved clay target scores. Great for **Cowboy Action** handgun loading too! Available in 8-lb., 4-lb., and 1-lb. canisters.



410°. Cleanest .410 bore powder on the market.



Steel®.
Designed for waterfowl shotshell. Gives steel shot high velocity within safe pressure limits for 10 and 12 gauge loads.
Available in 4-lb. and 1-lb. canisters.



Herco[®]. Since 1920, a proven powder for heavy shotshell loads, including 10, 12, 16, 20 and 28 gauge target loads. The ultimate in 12 gauge, 1-1/4 oz. upland game loads. Available in 8-lb, 4-lb, and 1-lb, canisters.



Unique®. Now CLEANER BURNING! Most versatile shotgun/handgun powder made. Great for 12, 16, 20 and 28 gauge loads. Use with most hulls, primers and wads. Available in 8-lb., 4-lb., and 1-lb. canisters.

SHOTSHELL RELOADING DATA

10-Gauge, 3 1/2 inch Fed. Plastic with Paper Wad Base

| × | | | | | | | | | | | | | | | |
|--------------------------|----------|----------------------|------------------------|---------------|---------------------|-------------------|---------------------------|-----------------|---------|-------------------------------|--------|----------------------|----------------|---------------------|---|
| Shot Wt. (ounces) | Welecity | Printer | Wid | Red Grains | Det pai x1000 | Americ Graites | en Select pai zi000 | Green Grains | 1 80 90 | Unique Grains pai x1000 | Gesins | eroo pai x1000 | Sine Greins | Det psi 11000 | Spacers (cord wad directly under shot) |
| 1.3/4 | 1,265 | CCI 209M | Reen, SP10 | 1 | | I | | 29.5 | 8.3 | I | I | | 1 | | (6) .135 |
| | | Win. 209 | Rem. SP10 | | | | | 29.0 | 8.8 | | | | | | (6) .135 |
| 1 5/8 | 1,285 | CCI 209M Win, 209 | Rem. SP10 Rem. SP10 | | | | | ļ | | | 36.0 | 10.3 | 45.0 45.5 | 8.0 8.3 | (4) .135 (4) .135 |
| 1 7/8 | 1,270 | CCI 209M Win. 209 | Rem. SP10 Rem. SP10 | | | 888888 | | | | | | | 45.5 45.5 | 9.9 10.2 | (3) .135 (3) .135 |
| 2 | 1,210 | CCI 209M Win. 209 | Rem. SP10 Rem. SP10 | | | | | l | | 00000000 | | | 43.5 44.0 | 9.2 9.4 | (2) .135 (2) .135 |
| 2 1/4 | 1,165 | CCI 209M Win. 209 | Rem. SP10 Rem. SP10 | | | | | l | | | 000000 | | 42.0 42.5 | 9.8 10.2 | (1) .135 (1) .135 |

10-Gauge, 3 1/2 inch Rem. SP Shell

| Shot Wt. (ounces) | Velocity | Primer | Wed | Red Dut Grains pai x1000 | American Select Grains pai x1600 | Grens Grains | | Grains | que psi x1000 | Herce Gestra pai x1000 | Nue Grains | Dot psi x1000 | Spacers (cord wed directly under shot) |
|----------------------|----------|----------|------------|--------------------------------|--|-----------------|-----|--------|---------------------|------------------------------|---------------|---------------------|---|
| 1.1/4 | 1,265 | CCI 209M | Rem. SP10 | 1 | | 28.5 | 8.8 | 31.0 | 7.5 | | | | (6) .135 |
| | | Win. 209 | Rem. SP10 | | 1 | 29.0 | 8.8 | 31.0 | 7.6 | | | | (6) .135 |
| 1.5/B | 1,285 | CCI 209M | Rem. SP10 | | | | | | | | 43.5 | 8.5 | (4) .135 |
| | | Win. 209 | Rem. SP10 | | | | | | | | 44.0 | 8.5 | (4) .135 |
| 1.7/8 | 1,270 | CCI 209M | Rem. SP10 | | | | | | | | 44.0 | 9.8 | (3) .135 |
| | | Win. 209 | Rem. SP10 | | | | | | | 0000000000 | 44.5 | 9.1 | (3) .135 |
| 2 | 1,210 | CCI 209M | Reen. SP10 | | | | | | | | 42.0 | 10.4 | (2) .135 |
| | | Win. 209 | Rem. SP10 | | | 10000 | | | | | 42.5 | 10.1 | (2) .135 |
| 2 1/4 | 1,165 | CCI 209M | Rems. SP10 | | | | | | | | 40.5 | 10.4 | none |
| | | Win. 209 | Rem. SP10 | | | | | | | | 41.0 | 10.5 | none |

10-Gauge, 3 1/2 inch Win. Polyformed with Plastic Base Wad

| Shot Wt. (ounces) | Welscity | Prinser | Wed | Red Dut Grains pai x1000 | American Select Grains psi x1000 | Green Greins | Det psi x1000 | Unique Greizs pei ×1000 | Graties | reco pei x1000 | Mase Gestins | :Dot psi x1000 | Spaces (card wed directly under shot) |
|----------------------|----------|----------|------------|--------------------------------|--|-----------------|---------------------|---|---------|----------------------|-----------------|----------------------|--|
| 1.1/4 | 1,265 | CCI 209M | Rem. SP10 | 1 | | 28.0 | 8.5 | | 1 | | 1 | | (5) .135 |
| | | Win. 209 | Rem. SP10 | | | 28.5 | 8.6 | 000000000000000000000000000000000000000 | | | | | (5) .135 |
| 1.5/8 | 1,285 | CCI 209M | Rrun. SP10 | | | 1 | | | 35.5 | 10.4 | 44.5 | 8.7 | (3) .135 |
| | | Win. 209 | Rem. SP10 | | | | | | 1 | | 45.0 | 8.5 | (3) .135 |
| 1.7/8 | 1,270 | CCI 209M | Rem. SP10 | | | 9 | | | | | 45.0 | 9.8 | (2) .135 |
| | | Win. 209 | Rem. SP10 | | | | | 000000000 | 1 | | 45.5 | 10.2 | (2) .135 |
| 2 | 1,210 | CCI 209M | Rem. SP10 | | | | | | 1 | | 43.0 | 9.4 | (1) .135 |
| | | Win. 209 | Rem. SP10 | | | | | | | | 43.5 | 9.5 | (1) .135 |
| 21/4 | 1,165 | CCI 209M | Rem. SP10 | | | | | | | | 41.5 | 10.5 | none |
| | | Win. 209 | Rem. SP10 | | | d and a | | | | | 42.0 | 10.5 | none |

12-Gauge, 23/4 inch Cheddite Plastic Hull

| ********** | Shot Wt. (ounces) | Velocity | Printer | Ww. | Red Grains | Det pai x1000 | Americ Grains | un Select pai x1000 | Green Greins | Dot psi x1600 | Unique Greins psi x1000 | Herce Graites pai x1000 | Nine Dot Gesins psi x1000 | 2460 Grains pui x1000 |
|------------|----------------------|----------|----------|-------------------------|---------------|---------------------|------------------|---------------------------|-----------------|---------------------|-------------------------------|-------------------------------|---------------------------------|-----------------------------|
| | 1 | 1,200 | Chedditz | Fed. 129O | 19.6 | 7.8 | 20.0 | 6.2 | 21.5 | 6.9 | 1 | I | 1 | I |
| | i | 1,255 | Cheddite | Fed. 125O | 20.0 | 8.7 | 21.5 | 7.0 | 23.0 | 7.8 | 500000000000 | 60000000000 | 000000000000 | |
| | 1 | 1,290 | Cheddite | Fed. 125O | 21.0 | 9.3 | | | 24.0 | 8.3 | l | 1 | | |
| | 1 | 1,300 | Cheddite | Fed. 125O | | | 22.5 | 7.5 | 4000 | | | | | |
| | 1 1/8 | 1,145 | Cheddite | Fed. 1253 | 18.0 | 9.0 | 19.0 | 7.6 | 20.0 | 7.5 | | | | |
| | | | | Rem. RXP12 | 18.0 | 8.5 | 19.5 | 7.2 | 20.5 | 7.1 | | l | | |
| | 1 1/8 | 1,200 | Cheddite | Fed. 1253 Rem. RXP12 | 19.5 19.5 | 9.6 8.8 | 20.5 20.5 | 8.5 7.5 | 21.5 22.0 | 8.3 7.8 | | | | |

12-Gauge, 2 3/4 inch Fed. Gold Medal Plastic Target Shells

| Shot Wt. (ounces) | Velocity Primer | Wad | Red I Grains | Det psi x1000 | America Grains | n Select psi x1000 | Green I Grains | | | He Grains | roc pai 11000 | Site Gesites | Dot psi x1000 | 2400 Gasha pai x1000 | |
|----------------------|-----------------|-----------|-----------------|---------------------|-------------------|--------------------------|-------------------|--|--|--------------|---------------------|-----------------|---------------------|----------------------------|--|
| 7/8 | 1,200 Fed. 209A | Purple PC | 17.0 | 6.4 | | | | | | | | | | | |

12-Gauge, 2 3/4 inch Fed. Gold Medal Plastic Target Shells

| Shut Wi. (cunces) | Velocity | Printer | Wed | Rad Dot Greins pei 20000 | American Select Grains pai 2000 | Green Dot Greins pai 1100 | Unique Gestes psi x1000 | Hieron Genéra pai x1000 | Blue Dut Goties pai 2000 | 3400 Grains pai x1000 |
|---|------------|-----------------------|------------------------------------|---|---------------------------------------|---------------------------------|--|-------------------------------|---|--|
| Cont. from Prev. P | age: Veloc | ity - 1,200 • 5 | bot Wt 7/8 | *************************************** | | | | | | |
| | | | Rem. TGT 12 | 17.5 7.1 | 1 | 1 | 1 | ı | 1 | 400 |
| | | | Win. WAA12SL | 17.0 7.3 | | 1 | | 1 | | |
| 7/8 | 1,250 | Fed. 209A | Fed. 128O | 19.0 7.9 | | | | | | |
| | | | Purple PC Rem. TGT 12 | 18.5 7.3 18.5 7.8 | | | | | | |
| | | | Win, WAAL2SL | 18.0 6.0 | | | | | | |
| 7/8 | 1,309 | Fed. 209A | Claybuster 1100-12 | | 21.5 6.9 | | 1 | | | |
| | | | Fed. 12SO Purple PC | 19.5 8.4 19.5 7.9 | | 22.0 7.5 22.5 7.0 | | 1 | | 200 |
| | | | Rem. TGT 12 | 19.5 8.5 | | 22.0 7.2 | | 1 | 1 | |
| 000000000000000000000000000000000000000 | | 02000222 | Win, WAA12SE | 19.0 8.4 | | 21.5 7.6 | | | | |
| 1 | 1,209 | Fed. 209A | Chebuster 1100-12 Fed. 125O | 18.0 8.3 | 20.0 7.5 19.5 7.1 | 20.5 7.6 | | | | |
| | | | Furple PC | 18.0 7.4 | | 20.5 7.3 | | | | |
| | | | Rem. TGT 12 | 18.0 7.9 | 19.5 7.5 | 20.0 7.0 | | | | |
| 000000000000000000000000000000000000000 | 1 466 | D-1 4004 | Win. WAA12SL | 18.0 8.7 | | 20.0 7.8 | 01000000000 | | 000000000000000000000000000000000000000 | |
| 1 | 1,255 | Fed. 209A | Clayburter 1109-12 Fed. 125O | 19.5 9.3 | 21.0 7.6 21.0 7.7 | 21.5 8.6 | : | 1 | | |
| | | | Purple PC | 19.5 8.7 | | 21.5 8.0 | | 1 | | 200 |
| | | | Rem. TGT 12 | 19.0 5.7 | | 21.5 7.9 | | 1 | 1 | en e |
| 1 | 1.295 | Fed. 209A | Win, WAA12SE Claybuster 1100-12 | 18.5 9.1 | 21.0 8.4 21.5 8.0 | 21.5 8.5 | | | 0000000000 | |
| | 1,222 | | Fed. 128O | 20.5 10.5 | | 22.5 6.7 | | | | |
| | | | Purple PC | 20.5 9.3 | | 22.5 8.3 | | | | |
| | | | Rem. TGT 12 Win. WAA12SL | 20.0 9.1 | | 22.5 8.5 22.5 9.0 | | | | |
| 1 1/8 | 1,005 | Fed. 209A | Fed. 12S5 | 14.0 7.5 | | ***** | ************ | ************ | | *************************************** |
| 1 1/9 | 1,090 | CCI 209M | Fed. 1283 | 17.0 8.3 | | 300000000 | | | 0000000000 | |
| | | Fed. 209A | Claybuster 3118-12 Fed. 1283 | 17.0 8.4 | 17.5 7.1 17.5 7.1 | 18.5 7.8 | | 1 | | |
| | | | Fiocchi FIW1 | 17.0 8.4 16.5 8.5 | | 18.5 7.8 18.9 7.8 | | 1 | 1 | |
| | | | Hornarly Versalite | 17.0 8.6 | 17.0 8.1 | 18.9 7.2 | | 1 | | |
| | | | Rem. Fig. 8 | 17.0 7.7 | | 18.9 7.0 | | 1 | 1 | |
| | | | Win. WAA13 (White) Win. WAA12SL | 16.5 8.5 17.0 8.1 | | 18.0 7.7 18.0 7.6 | | 1 | | 200 |
| | | | Win. WT12 (Orange) | 17.0 6.1 | 18.9 7.7 | 1.00 | 1 | 1 | 1 | |
| | | | Windjammer | 17.5 7.6 | | 18.5 6.6 | | | | |
| | | Fio. 615 Win. 209 | Fed. 1255 Fed. 1253 | 17.5 8.2 17.0 8.4 | | | | | | |
| 1 1/6 | 1,145 | CCI 209 | Fed. 1253 | 18.0 8.2 | | 19.0 7.8 | | | | 1 |
| | | OCI 209M | Fed. 1253 | 18.0 8.6 | | 19.5 7.5 | | | | |
| | | OCI 2095C | 0 00000 00000 000 000 000 000 | 19.0 9.8 19.5 9.5 | | 20.5 8.6 | | | | |
| | | | Rem. Fig. 8 Win. WAA12 (White) | 18.5 10.2 | | 21.0 8.3 20.5 9.0 | C 30 10 SC 30 30 30 30 30 30 30 30 30 30 | | | |
| | | Fed. 209A | Claybuster 3118-12 | | 19.0 8.2 | | .00000000000 | | | |
| | | | Fed. 1283 Fiocchi FTW1 | 18.0 5.8 | | 19.5 8.1 19.5 8.6 | | 1 | | |
| | | | Hornady Versalite | 18.0 9.6 18.0 9.4 | | 19.5 8.6 19.0 8.0 | | 1 | 1 | |
| | | | Rom. Fig. 8 | 18.0 8.8 | 19.0 9.0 | 19.0 7.7 | · | 1 | | 200 |
| | | | Rem. RXP12 | 18.0 9.4 | | 19.6 8.0 | | | | |
| | | | Win, WAA13 (White) Win, WAA12SL | 17.5 9.4 18.0 9.2 | | 19.0 8.2 19.0 8.2 | 1 | | | TO STATE OF THE ST |
| | | | Win. WT12 (Orange) | 18.5 9.3 | 19.0 9.3 | 20.0 8.4 | | 1 | | |
| | | | Windjammer | 18.5 8.2 | | 19.5 7.7 | | | | |
| | | Rem. 209P Win. 209 | Fed. 1253 Fed. 1253 | 18.5 8.2 17.5 9.6 | | 20.5 6.8 19.5 8.0 | | | | |
| 1 1/8 | 1,200 | | Fed. 1283 | 20.0 9.8 | | 22.0 9.2 | 24,0 8.3 | | | |
| | | CCI 209M | Fed. 1283 | 19.0 8.9 | | 21.0 8.6 | 23.5 8.0 | | | |
| | | OCI 2095C | Fed. 1253 Rem. Fig. 8 | 20.5 10.7 | | 22.5 8.9 23.0 9.2 | | | | |
| | | | Win. WAA12 (White) | 20.0 10.5 | | 22.0 10.2 | | | | |
| | | Fed. 209A | Chybeater 5118-12 | | 20.5 9.6 | 1 | | | 1 | |
| | | | Fed. 1253 | 19.5 10.0 | | 20.0 9.0 | | | | |
| | | | Fiocchi PTW1 Mornady Versalite | 19.0 10.9 19.0 10.1 | | 20.5 9.3 20.5 9.4 | | | | |
| | | | Rem. Fig. 8 | 19.0 9.5 | | 20.0 8.6 | 22.5 7.3 | 1 | | |
| | | | Rem. RXP12 | 19.0 9.9 | | 20.0 8.8 | 22.5 7.8 | 1 | | |
| | | | Win, WAA12 (White) Win, WAA12SL | 19.0 10.4 19.0 10.0 | | 20.0 9.2 20.0 8.8 | | | | |
| | | | Win, WT12 (Orange) | 20.0 10.0 | | 21.5 8.8 | | | | |
| | | | Windjammer | 19.5 9.6 | 20.5 9.8 | 21.0 8.2 | 22.5 6.9 | | | |
| | | Rem. 209P | Fed. 1255 | 19.5 9.3 | | 21.5 7.9 | | | | |
| | | Wiss. 209 | Fed. 1285 | 19.0 10.5 | 20.5 9.9 | 20.5 9.0 | 23.0 8.6 | 1 | 1 | 8 |

12-Gauge, 2 3/4 inch Fed. Gold Medal Plastic Target Shells

| | Shot Wt. (cunces) | Velocity | Print | Wed | Rad Grains | Dat psi 2000 | Americ Grains | om Select pai 2000 | Grein Grein | | Genter | ique pri x1000 | Gesés | rai 1100 | Flor Gorias | Dot psi 2000 | 2400 Grains pal 12000 |
|-----------|----------------------|------------|-----------------------|---------------------------------|-----------------------|--------------------|------------------|--------------------------|----------------|------|--------------|----------------------|--------|-------------|----------------|--------------------|---|
| Court for | om Prev. Pa | age: Veloc | ity - 1,250 • S | bot Wt 1 1/8 | | | | | | | | | | | | | |
| | 1.1/8 | 1,250 | CCI 209M | | 10000 | | 100000 | | 22.5 | 9,8 | 24,0 | 9,1 | 1000 | | 100000 | | |
| | | | Fed. 209A | Claybuster 5318-12 | 8 | | 22.0 | 10.6 | 1 | | 1 | | 1 | | 1 | | |
| | | | | Fed. 1285 | 9 | | 22.0 | 10.1 | 21.5 | 9.5 | 23.5 | 8.1 | 26.0 | 8.0 | 1 | | |
| | | | | Hornady Versalite | 20.0 | 15.7 | 21.0 | 10.9 | 21.5 | 9.0 | 24.0 | 8.3 | 26.0 | 8.2 | 1 | | |
| | | | | Rem. Fig. 8 | 20.0 | 9.5 | 1 | | 22.0 | 9.2 | 23.5 | 7.8 | 26.0 | 7.7 | 1 | | |
| | | | | Rem. RXP12 | 20.0 | 19.1 | | | 21.5 | 9.7 | 25.5 | 8.4 | 26.0 | 8.0 | 1 | | |
| | | | | Win. WAA12 (White) | 1 | | ١ | | 21.5 | 9.4 | 23.0 | 8.4 | 26.0 | 8.3 | 1 | | |
| | | | | Windismmer | 20.5 | 9.5 | 21.5 | 10.7 | 22.5 | 8.4 | 24.0 | 7.7 | 26.0 | 7.4 | | | • |
| | | | Rem. 209P | Fed. 1283 | 100000 | | 100000 | | 23.0 | 8.8 | 25.0 | 7.6 | 10000 | | 100000 | | |
| | | | Wiss. 209 | Fed. 1253 | | | | | 22.5 | 10.5 | 24.0 | 9.8 | | | | | . |
| | 1 1/6 | 1,310 | Fed. 209A | Hornady Verselite Rem. RXP12 | | | 00000 | | 1 | | 25.0 | 10.0 | | | 00000 | | |
| | | | | Win, WAA12 (White) | | | | | 23.0 | 10.4 | 26.0 | 10.3 | | | | | |
| | | | | Windjenner | | | | | 24.0 | 8.8 | 25.0 25.0 | 9,2 9,7 | | | | | |
| | 1.1/6 | 1,400 | Fed. 209A | Win. WAA12F114 | possion of the second | | | | 10000 | | 1444 | | 50.0 | 10.5 | | | |
| | 11/8 | 1,440 | Fed. 209A | Red PC | | | 200000 | | 90000 | | 2000 | | | 10.5 | | | . |
| | 1.1/4 | 1,205 | OCT 2090M | Rem. RP12 | 100000 | | 000000 | | 90000 | | 000000 | | 1200 | | 54.0 | 9.4 | • |
| | 955955995 | | Fed. 209A | Rem. RP12 | 10000 | | 2000 | | deces | | 2000 | | 10000 | | 31.0 | 9.7 | |
| | | | Rem. 200P | Rem. RP12 | | | ***** | | | | | | | | 35.5 | 8.3 | • |
| | | | Win. 209 | Rem. RP12 | \$0000 | | 00000 | | X 99999 | | 10000 | | 10000 | | 34.5 | 9.9 | . |
| | 1 1/4 | 1,229 | OCI 209M | Fed. 1254 | Possos | | 000000 | | × 00000 | | 24.5 | 9.5 | 25.5 | 8.7 | - | 000000 | P 000000000000000000000000000000000000 |
| | | | Fed. 209A | Fed. 1284 | 10000 | | 98888 | | 8 10000 | | 24.0 | 10.5 | 25.0 | 10.2 | 100000 | | |
| | | | | Rem. SP12 | 10000 | | | | 8 | | 24.0 | 10.4 | 26.0 | 9.7 | | | |
| | | | | Win. WAAL2F114 | | | | | | | 24.0 | 10.6 | 25.0 | 10.1 | | | |
| | | | Rem. 209P | | 1 | | | | 1 | | 25.0 | 9.8 | 25.5 | 8.1 | | | |
| | | | Win. 209 | Fed. 1254 | | | 88888 | | 9 8888 | | 24,0 | 9.5 | 25.5 | 9,4 | 33333 | | |
| | 1 1/4 | 1,275 | CCI 209M | Fed. 1284 | | | | | | | | | | | 35.0 | 9.1 | |
| | | | Fed. 209A | Fed. 1254 | | | 00000 | | 1000 | | 10000 | | | | 54.0 | 8.9 | |
| | | | | Reto. SP12 | | | | | | | | | 27.0 | 10.1 | | | |
| | | | | Win. WAAL2F114 | | | | | | | | | | 10.5 | | | |
| | | | Rem. 209P | Fed. 1264 | | | | | | | | | 27.5 | 9.2 | | | |
| | 80,000,000 | 3000000 | Wis. 209 | Fed. 1254 | 400000 | | 00000 | | p 0000 | | 1 000 | | 100 | | 35.0 | 8.7 | 0.0000000000000000000000000000000000000 |
| | 11/4 | 1,309 | Fed. 209A | Win. WAA12F114 | | | ***** | | | | | | 28.0 | 10.8 | 222222 | | |
| | 1 1/4 | 1,310 | Fed. 209A | Red PC | 1000 | | 10000 | | 1000 | | 1000 | | 29.0 | 10.0 | | XIII | |
| | 11/4 | 1,330 | CCI 209M | Rem. SP12 | | | 55555 | | | | 10000 | | | | 37.5 | 8.3 | |
| | | | Fed. 209A | Rem. SP12 | 10000 | | 00000 | | 1000 | | #0000 | | pos | | 35.0 | 10.5 | P 000000000000000000000000000000000000 |
| | 00000000000 | 00000 | Win. 209 | Rem. SP12 | | | 200000 | | 00000 | | 00000 | | 0000 | | 57.0 | 9.0 | 000000000000000000000000000000000000000 |
| | 1 1/4 | 1,440 | Fed. 209A | Rem, RP12 | 400000 | | 500000 | | 95555 | | 80000 | | 10000 | | 40.5 | 10.7 | 000000000000000000000000000000000000 |
| | 1 3/6 | 1,240 | CCI 209M Fed. 209A | Rem. RP12 | lana. | | 00000 | | 1000 | | 10000 | | 1000 | | 35.0 | 9.9 | |
| | | | Rem. 209P | Rem. RP12 Rem. RP12 | 1000 | | **** | | 4 | | | | | | 34.0 56.0 | 7.8 | |
| | | | Win. 209 | Rem. RP12 | deces | | 99999 | | 2000 | | 10000 | | 10000 | | 54.5 | 8.6 | |
| | 1.3/8 | 1,295 | OCI 209M | Rem. RP12 | possisi | | 00000 | | × 00000 | | 40000 | | 100000 | | 36.5 | 9.0 | pococcccccccccccccccccc |
| | | | Fed. 209A | Rem. RP12 | deces. | | 99999 | | 1 99991 | | 9999 | | 1999 | | 35.5 | 10.7 | . |
| | | | Rem. 209P | Rem. RP12 | 100000 | | 00000 | | 200000 | | 00000 | | 100000 | | 39.0 | 8.6 | pocononnonnonnon |
| | | | Win. 209 | Rem. RP12 | dana. | | 20000 | | y name | | 4000 | | 1000 | | 36.0 | 9.2 | |
| | 1 1/2 | 1,150 | Fed. 209A | Rem. RP12 | ******* | | 1000000 | | 900000 | | 000000 | | lar - | 10.1 | 33.5 | 8.3 | •00000000000000000000000000000000000000 |

12-Gauge, 2 3/4 inch Fed. Hi Power Plastic Shells with Rolled Paper Base Wad

| Shot Wi. (orances) | Velocity | Primer | Wed | Red Grains | Det på :1000 | American Select Centres pei x1600 | Green Greens | Dat pai x1000 | Un Grein | ique 2si x000) | Herno Greins pui x1000 | Hios Det Grains psi x1000 | 2400 Grains pri x1000 |
|-----------------------|----------|-------------|--------------------|---------------|--------------------|---|----------------------|---------------------|---------------|----------------------|---|---|---|
| | | | | | | 1 | 4 | | 1 | | 1 | 1 | |
| 1 | 1,290 | Fed. 209A | Fed. 1283 | 21.0 | 9.4 | 000000000000000000000000000000000000000 | 23.0 22.5 20.0 | 7.5 7.4 | | | 000000000000000000000000000000000000000 | 000000000000000000000000000000000000000 | |
| | | | Rem. R12L | 20.5 | 8.5 | 00000000000 | 22.5 | 7.4 | 10000 | | 000000000 | 000000000000000000000000000000000000000 | |
| 1 1/8 | 1,145 | CCI 209M | Fed. 1253 | 18.5 | 8.6 | | 20.5 | 7.6 | I | | | | |
| | | Fed. 209A | Fed. 1255 | 18.5 | 7.3 | | 20.0 | 7.6 7.2 | 1 | | | 100000000000000000000000000000000000000 | 1 |
| | | | Hornady Versalite | 18.5 | 8.3 | | 19.5 | 7.1 | 1000 | | 000000000000000000000000000000000000000 | beeeeeeee | |
| | | | Rem, RXP12 | 18.5 | 8.7 | | 19.0 | 8.7 | 1 0000 | | 0000000000 | 50000000000 | |
| | | | Win. WAA12 (White) | 18.5 | 9.6 | 000000000000000000000000000000000000000 | 18.5 | 9.1 | 10000 | | 0000000000 | 000000000000000000000000000000000000000 | 000000000000000000000000000000000000000 |
| | | Resta. 209P | Fed. 1255 | 18.5 | 8.4 | | 21.0 | 6.7 | | | | | |
| | | Win. 209 | Fed. 1285 | 18.5 | 9.1 | | 20.0 | 8.2 | | | 000000000000000000000000000000000000000 | 500000000000000000000000000000000000000 | |
| 1.1/8 | 1,209 | CCI 209M | Fed. 1253 | 20.0 | 9.3 | | 21.5 | 8.6 | 24.0 | 7.7 | | ~~~~~~~~ | |
| | | Fed. 209A | Fed. 12C1 | 10000 | | 200000000000000000000000000000000000000 | 20.5 | 9.4 | | | 9999999999 | 200000000000000000000000000000000000000 | |
| | | | Fed. 1283 | 19.0 | 9.3 | 6000000000 | 21.5 | 8.0 | 25.0 | 7.7 | 600000000 | 000000000000000000000000000000000000000 | |
| | | | Hornady Versalite | 19.5 | 9.0 | 6000000000 | 20.0 | 5.8 | 22.5 | 8.0 | 0000000000 | 60000000000 | |
| | | | Rem. RXP12 | 19.5 | 9.3 | 000000000000000000000000000000000000000 | 20.5 | 9.1 | 22.0 | 8.3 | 000000000000000000000000000000000000000 | 000000000000000000000000000000000000000 | |
| | | | Win, WAAL2 (White) | 19.0 | 9.8 | 00000000000 | 20.0 | 9.1 9.3 | 21.0 | 8.1 7.7 | 000000000000000000000000000000000000000 | 000000000000000000000000000000000000000 | |
| | | Ress. 209P | Fed. 1253 | 20.0 | 9.2 | 44444444444 | 22.0 | 7.6 | | | | 44444444444 | |
| | | Win. 209 | Fed. 1253 | 19.5 | 9.5 | 22222222222 | 21.5 | | 23.5 | 8.1 | 200000000000000000000000000000000000000 | 9999999999 | |
| 1 1/8 | 1,255 | CCI 209M | Fed. 1283 | 21,5 | 10.1 | ********* | 22,0 | | 25.5 | 8.4 | ******* | CARARAKKEEK | |

12-Gauge, 2 3/4 inch Fed. Hi Power Plastic Shells with Rolled Paper Base Wad

| Sus Wi. (cence) | Velocity | Printer | Wad | Rai Graias | Dot pai 11000 | American Select Grains pai x1000 | Green Greins | Det pri 11000 | Us Genéra | ique pri x1000 | Grains Grains | rros psi 11600 | Flor Grains | :Dot psi x1900 | 3400 Grains pal 2000 |
|---|-------------|-----------------------|------------------------|--------------------|---------------------|---|-----------------|---------------------|--------------|----------------------|------------------|----------------------|----------------|----------------------|--|
| out, from Prev. | Page: Veloc | ity - 1,255 • S | bot Wt - 1 1/8 | | | | | | | | | | | | |
| | | Fed. 209A | Fed. 12C1 | 21.0 | | 000000000000000000000000000000000000000 | 22.0 | 10.1 | | | | | less: | | la companya da la com |
| | | | Fed. 1253 | 21.5 | | | 22.0 | 9.0 | 24.0 | 8.1 | | | 100000 | | |
| | | | Homady Versalite | 20.5 | | | 23.5 | 8.6 | 25.5 | 8.2 | | | | | |
| | | | Rem. RXP12 | 21.0 | 9.8 | | 22.5 | 10.0 | 25.0 | 8.1 | | | | | |
| | | The ADDRESS | Win, WAA12 (White) | | | 80000000000 | 22.0 | 10.3 | 23.0 | 8.6 | 10000 | | 00000 | | |
| | | Rem. 209P | Fed. 1283 | 22.0 | | 000000000000 | 23.0 | 8.5 | | | 00000 | | 000000 | | |
| 1 1/4 | 1 499 | Win, 209 CCI 209M | Fed. 1253 Fed. 1254 | 21,5 | 10.7 | 000000000000000000000000000000000000000 | 23.0 | 9,4 | 25.0 | 9.1 10.0 | 00000 | | 100000 | | |
| | 1,220 | Fed. 209A | Fed. 12C1 | dana. | | | | | 25.0 | 9.0 | | | | | • |
| | | FOL MAN | Fed. 1254 | | | 000000000000000000000000000000000000000 | 23.0 | 9.8 | 23.0 23.0 | 9.5 | | | 100000 | | |
| | | | Hornady Verseine | | | | 25.0 | 9.7 | 23.5 | 8.6 | | | | | |
| | | | Rem. R12H | | | 000000000000000000000000000000000000000 | 22.0 | 10.5 | 1 | 0.0 | | | | | |
| | | | Rero, RXP12 | | | | 22.0 | 9.6 | 23.0 | 8.3 | | | | | |
| | | | Win. WAA12 (White) | | | 000000000000000000000000000000000000000 | 21.5 | 9.5 | 23.0 | 9.6 | 0000 | | 0000 | | |
| | | | Win, WAAL2FL14 | | | | 23.0 | 9.9 | 23.0 | 9.4 | | | | | |
| | | Rem. 209P | Fed. 1254 | 100000 | | 000000000000000000000000000000000000000 | 1*** | 000 | 25.5 | 9.0 | 00000 | | 000000 | | • |
| | | Win. 209 | Fed. 1284 | 1000 | | 888888888888888888888888888888888888888 | 3 8888 | | 25.0 | 9.5 | 1000 | | 88888 | | |
| 1 1/4 | 1,330 | CCI 209M | Fed. 1254 | 1 | | | | | - | | 30.0 | 9.5 | 38.0 | 9.8 | |
| 000000000000000000000000000000000000000 | | Fed. 209A | Fed. 12C1 | 1 0000 | | 000000000000000000000000000000000000000 | 3 00000 | | 25.5 | 10.2 | 28.5 | 9.8 | 00000 | | L ecconomica (con |
| | | | Fed. 1284 | 1000 | | | 3 00000 | | 1000 | | 29.0 | 10.2 | 10000 | | |
| | | | Rem, SP12 | | | | | | 25.5 | 10.2 | 28.5 | 9.9 | | | |
| | | | Win. WAA12 (White) | | | | | | | | 29.0 | 10.5 | | | |
| | | | Win. WAA12F114 | | | | 1 | | | | 29.5 | 9.4 | | | |
| | | Win. 209 | Fed. 1254 | | | | | | | | 30.0 | 10.2 | 38.0 | 8.6 | |
| 1.378 | 1,295 | OCI 209M | Rem. RP12 | | | | | | 0000 | | 10000 | | 39.0 | 8.5 | |
| | | Fed. 209A | Rem. RP12 | 9 | | 1 | 1 | | | | 1 | | 38.5 | 8.6 | |
| | | | Rem. 5P12 | 9 | | 1 | 1 | | | | 1 | | .58.0 | 9.0 | |
| | | | Win. WAA12 (White) | | | | | | | | | | 37.5 | 8.5 | |
| | | Rem. 209P | Rem. RP12 | ļ. | | 000000000000000000000000000000000000000 | 90000 | | 1000 | | 0000 | | 39.0 | 8.4 | |
| | | Wim. 209 | Rem. RP12 | . Isaasa | | | | | | | | | 39.0 | 9.4 | |
| 1 3/8 | 1,350 | CCI 209M | Ren. RP12 | Post of the second | | 100000000000000000000000000000000000000 | 90000 | | | | 0000 | | 39.5 | 9.6 9.7 | |
| | | Fed. 209A | Rem. RP12 | d | | ********* | | | | | | | 39.5 40.0 | 9.7 | . |
| 1 1/2 | 1 100 | Win. 209 Fed. 209A | Rem. RP12 Rem. RP12 | Į. | | 000000000000000000000000000000000000000 | | | 1000 | | 10000 | | 33.5 | 8.4 | |
| 1 112 | 1,190 | POG. ANA | Rem. SP12 | 9 | | 1 | 1 | | | | 26.5 | 8.9 | 33.3 | 6.4 | |
| 1 1/2 | 1,205 | CCI 209M | | dana. | | ****** | 4888 | | 3333 | | 20.5 | | 55.0 | 8.7 | |
| 1.44 | 1,203 | Fed. 209A | Reto, RP12 | 100000 | | 56555555555 | 95555 | | 100000 | | 00000 | | 34.5 | 8.5 | |
| | | Win. 209 | Rem. RP12 | 99999 | | 000000000000000000000000000000000000000 | 929999 | | 1999 | | 9999 | | 34.5 | 8.6 | 000000000000000000000000000000000000000 |
| 1 1/2 | 1,269 | CCI 209M | Rem. RP12 | 100000 | | 000000000000000000000000000000000000000 | 90000 | | 10000 | | 00000 | | 37.0 | 9.5 | 000000000000000000000000000000000000000 |
| | | Fed. 209A | Rem. RP12 | | | | 1000 | | 1000 | | | | 36.0 | 9.5 | |
| | | | Rem. SP12 | 1000 | | 000000000000000000000000000000000000000 | 10000 | | 1000 | | | | 37.0 | 9.6 | |
| | | Win. 209 | Rem. RP12 | P0000 | | 000000000000000000000000000000000000000 | × 00000 | | 00000 | | 20000 | | 37.0 | 9.9 | postananananananan |

12-Gauge, 2 3/4 inch Fed. One-Piece Plastic Shells

| Shot WL (oranosi) | Velocity | Primer | Wed | Red Det Grains pai ±1000 | | m Select gui x1600 | Grains Grains | 74 Pai 11000 | Creiru | igue psi x1000 | Greins | eme pai x1000 | Grains | n Det pai x1000 | 2400 Grains pai x2000 |
|---------------------------------------|---|----------------------|-----------------------------|---|---------------------------------------|--------------------------|------------------|--------------------|---------------|----------------------|--------|---------------------|--------------|-----------------------|--|
| 1 1/4 | 1,220 | CCI 209M | Fed. 1254 | 4. | | | 10000 | | 25.5 | 9.2 | 26.0 | 8.9 | | | L arana and a same and a same |
| | | Fed. 209A | Fed. 1284 | | | | 1 | | 25.0 | 9.2 9.1 | 26.0 | 8.4 | | | |
| | | | Sem. SP12 | 8 | | | 1 | | 25.5 | 8.7 | 26.5 | 7.8 | 1 | | |
| | | | Win. WAA12F114 | | | | 1 | | 25.0 | 8.7 | 26.0 | 8.6 | | | |
| | | Wiss, 209 | Fed. 1254 | | | | | | 25.0 | 9.2 | 26.0 | 8.5 | 0000 | | |
| 1 1/4 | 1,275 | CCI 209M | Fed. 1284 | | | | | | | | 27.5 | 9.5 | | | |
| | | Fed. 209A | Fed. 1254 | | | | 100000 | | 1000 | | 28.0 | 9.5 | | | |
| | | | Rem. SP12 | | | | | | | | 27.5 | 8.2 | | | |
| | | :0 <u>00</u> 0000000 | Wig. WAA12F114 | 10 0000000000 | XX XX XX XX XX XX XX XX | | p 000000 | | p 0000 | | 27.5 | 8.7 | 00000 | | 000000000000000000000000000000000000000 |
| | 000000000000000000000000000000000000000 | Win. 209 | Fed. 1254 | | | | | | | | 27.5 | 9.0 | | | |
| 1 1/4 | 1,350 | CCI 209M | Fed. 1254 | 88 8888888888 | 84 888888 | | | | 8888 | | 58888 | | 37.5 | 9.0 | |
| | | Fed. 209A | Fed. 1254 | | | | 1 | | | | | | 38.5 | 8.5 | 2000 |
| | | 100- 100 | Win. WAA12F114 Fed. 12S4 | 94 | 99 999999 | | | | 9000 | | | | 39.0 39.0 | 7.7 8.4 | . |
| 1 3/8 | 1,240 | Win. 209 CCI 209M | Rem. SP12 | orpossossos | 0000000 | | 4000000 | | 00000 | | P0000 | | 37.5 | 8.3 | P |
| | 1,290 | Fed. 209A | Rem. SP12 | | 88 8888888 | | | | | | 99999 | | 37.0 | 8.1 | |
| | | Win. 209 | Rem. SP12 | 201000000000000000000000000000000000000 | 50,000,000 | | 2000000 | | pooco | | 00000 | | 37.5 | 7.7 | 000000000000000000000000000000000000000 |
| 1 3/8 | 1,295 | CCI 209M | Rem. RP12 | 201000000000000000000000000000000000000 | 2000 | | 4 | | lesses. | | 9999 | | 38.0 | 9.2 | • |
| · · · · · · · · · · · · · · · · · · · | o contractor | Fed. 209A | Bern, RP12 | | ******* | | | | | | | | 38.5 | 8.7 | • |
| | | Win. 209 | Rem. RP12 | 000000000000000000000000000000000000000 | 8600000 | | 1000000 | | 6000 | | 10000 | | 38.5 | 9.3 | CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC |
| 1 1/2 | 1,150 | OCI 2090M | Fed. 1284 | ********** | ***** | | ***** | | **** | | 26.5 | 10.6 | | ××**** | |
| 86886888888 | | Fed. 209A | Fed. 1254 | :: 1 00000000000000000000000000000000000 | | | 100000 | | 10000 | | 27.0 | 9.2 | 100000 | | 0.0000000000000000000000000000000000000 |
| | | | Rem. SP12 | | | | | | | | 27.0 | 8.6 | | | |

12-Gauge, 2 3/4 inch Fed. One-Piece Plastic Shells

| | isot Wt. Essen) | Velocity | Printer | Wed | Red Det Greies pei ±1990 | American Select Grains psi ±1900 | Geens Det Greins pei 1800) | Unique Gesita psi x1000 | Herco Grains poi 1800 | Blac Dot Goties pel 2000 | 3400 Gestion pul 11000 |
|---------|--------------------|------------|-----------------------|------------------------|--------------------------------|--|----------------------------------|-------------------------------|-----------------------------|---|------------------------------|
| st from | ı Prev. Peç | ge: Veloci | ity - 1,150 • S | bot Wt - 1 1/2 | | | | | | | |
| | | | 15- 616 | T-1 1704 | 8 | ı | 1 | ı | laco 101 | ı | 100 |
| | | | Fio. 615 Rem. 2097 | Fed. 1254 Fed. 1254 | | | | | 26.0 10.1 26.5 9.9 | 500000000000 | |
| | | | Win. 209 | Fed. 1254 | | | | | 26.5 9.9 26.5 10.1 | | |
| | 1/2 | 1,205 | OCT 2090M | Rem. RP12 | | | | | | 36.0 8.5 | |
| | | | Fed. 209A | Rem. RP12 | | | ********** | | ******* | 36.0 8.8 | |
| | | | | Rem. RP12 | | | 1 | | | 38.0 9.9 | |
| | | | Win. 209 | Rem. RP12 | | | | 000000000 | | 37.0 8.5 | |
| 1 | 1/2 | 1,269 | CCI 209M | Rem. RP12 | | | | | | 38.0 10.0 | |
| | | | Win. 209 | Rem. RP12 | | | | | | 38.0 9.1 | |
| 1 | 5/8 | 1,115 | CCI 209M | Rem. SP12 | | | | l | 26.5 10.0 26.5 10.0 | | |
| | | | Fed. 209A | Rem. SP12 | | | | | | | |
| | | | Pio. 616 | Rem. SP12 | | | | | 26.0 10.3 | | |
| | | | Rem. 2091 | Rem, SP12 | | | | 00000000 | 26.5 9.5 | 000000000000000000000000000000000000000 | |
| | | | Wiss. 209 | Rem. SP12 | | | 1 | | 26.5 9.8 | | |

12-Gauge, 2 3/4 inch Fed. Paper Target Shells

| Stat Wt. (oraces) | Velocity | Prison | Wed | Red Grains | Det psi x1600 | Americ Grains | nu Select pai x1100 | Gracias Gracias | n Dos pai x1000 | Grein | igae psi 2000 | Hereo Greins pei 13000 | Mine Det Grains pai x1800 | 2400 Grain pa £1000 |
|----------------------|----------|---|------------------------|---------------|---------------------|------------------|---------------------------|--------------------|-----------------------|-------|---------------------|---|---|---|
| 1 | 1,290 | CCI 209M | Fed. 1253 | 21.0 | 8.7 | lesses. | | 23.0 | 7.8 | less. | | k | la constant | 600000000000000000000000000000000000000 |
| | | Fed. 209A | Fed, 12\$3 | 20.5 | 5.0 | | | 23.5 | 9.4 | T | | | | |
| | | | Fed. 128O | 20.5 | 10.4 | ı | | 22.5 | 9.2 | 1 | | | | |
| | | | Rem. R122. | 20.0 | 9.3 | ı | | 21.5 | 8.8 | | | | | |
| 1 1/8 | 1,145 | OCI 209M | Fed. 12C1 | 18.5 | 7.9 | | | 20.6 | 7.4 | | | | | |
| | | OCI 2095C | Fed. 1255 | | | 19.0 | 8.5 | | | 1 | | | | |
| | | Fed 209A | Fed. 12C1 | 18.0 | 8.5 | | | 19.5 | 8.2 | | | 0000000000 | | |
| | | | Fed. 1253 | 15.0 | 8.7 | 19.0 | 8.2 | 19.5 | 7.4 | | | 0.0000000000000000000000000000000000000 | | |
| | | | Piocchi FTW1 | 18.5 | 9.0 | | | 20.0 | 7.9 | | | | | |
| | | | Hornady Versalite | 19.0 | 8.8 | 19.0 | 7.9 | 19.5 | 5.9 | | | | | |
| | | | Lage Univad | 15.0 | 8.5 | | | 19.0 | 8.4 | | | | | |
| | | | Red PC | 18.0 | 8.3 | | | 20.0 | 7.6 | | | | | |
| | | | Rem. Fig. 8 | | | 19.0 | 7.6 | 10000 | | 10000 | | | | |
| | | | Rem. R121. | 18.5 | 9.3 | | | 19.0 | 8.0 | | | | | |
| | | | Rem. RXP12 | 18.0 | 6,9 | | | 18.5 | 6.1 | | | 000000000000000000000000000000000000000 | 100000000000 | |
| | | | Win. WAA12 (White) | 18.0 | 8.6 | 19.0 | 8.4 | 18.5 | 5.0 | 10000 | | 0000000000 | 000000000000000000000000000000000000000 | |
| | | | Win. WT12 (Orange) | ١ | | 19.0 | 8.1 | l | | | | 1000000000 | | |
| | | T 2007 | Windjammer | 18.5 | 8.2 | 19.5 | 7.1 | 20.5 | 6.6 | 00000 | | 5888888888 | 88888888888 | 0.0000000000000000000000000000000000000 |
| | | Rum. 209P | Fed. 12C1 | 18.5 | 8.3 | | | 20.5 | 7.0 | 1 | | | | |
| | | 100- 100 | Fed. 1283 | lane. | 8.6 | 19.0 | 8.5 | line | | 90000 | | 200000000000000000000000000000000000000 | 000000000000 | |
| | | Win. 209 | Fed. 12C1 | 18.5 | 8.0 | | 8.9 | 19.5 | 7,5 | 1000 | | 0000000000 | 000000000000000000000000000000000000000 | |
| 1.14 | 1 202 | CCTTOOM | Fed, 1283 | 20.0 | 8.7 | 19.0 | 4.7 | 21.6 | 7.7 | 24.0 | 7.2 | | eccessors. | 200000000000000000000000000000000000000 |
| 1 1/5 | 1,205 | CCI 209M CCI 2098C | | 29.0 | | 20.5 | 9.6 | 21.5 | | 24.0 | 0000 | 0000000000 | 2000000000000 | 000000000000000000000000000000000000000 |
| | | Fed. 209A | Ped. 1283 Fed. 12C1 | 19.0 | 9.3 | 2005 | 9.0 | 20.0 | 8.6 | 22.0 | 8.2 | 0000000000 | 500000000000 | 000000000000000000000000000000000000000 |
| | | F62, 209A | Fed. 1285 | 19.0 | 9.8 | 20.5 | 10.4 | 21.0 | 7.8 | 22.0 | 7.2 | | | |
| | | | Piocchi FTW1 | 19.5 | 9.5 | 20.5 | ANG ST | 21.0 | 8.2 | 22.0 | 1.6 | | 1 | |
| | | | Hornady Versalite | 19.0 | 8.9 | 20.0 | 16.1 | 21.0 | 5.3 | 22.0 | 7.9 | | | |
| | | | Lage Uniwad | 18.5 | 9.4 | 1044747 | 246.2 | 20.0 | 8.8 | 22.0 | 8.0 | | | |
| | | | Red PC | 19.0 | 10.3 | ı | | 21.0 | 8.8 | 22.5 | 8.4 | | | |
| | | | Rem. Fig. 8 | 1.510 | 2400 | 20.0 | 9.8 | | 4300 | | | | | |
| | | | Rem. R12H | 19.0 | 9.2 | | | 19.5 | 8.8 | 1 | | | | |
| | | | Rem. R12L | 19.5 | 9.5 | ı | | 20.0 | 8.6 | 22.0 | 7.8 | | | |
| | | | Rem. RXP12 | 19,0 | 9.9 | ı | | 20.9 | 8.6 | 21.0 | 8.0 | | | |
| | | | Win. WAA12 (White) | 19.0 | 10.5 | 20.5 | 10.4 | 19.5 | 9.0 | 21.0 | 8.6 | | | |
| | | | Win, WT12 (Crange) | 9 | | 20.5 | 10.2 | | | | | | | |
| | | | Windiammer | 19.0 | 8.7 | 20.0 | 9.1 | 22.0 | 7.7 | 23.5 | 7.6 | | | |
| | | Rem. 209P | Fed. 12C1 | 20.0 | 9.2 | | | 22.0 | 7.8 | 24.0 | 7.0 | 000000000000000000000000000000000000000 | 600000000000 | |
| | | | Fed, 1255 | 10000 | | 21,0 | 9.7 | | | | | 000000000000000000000000000000000000000 | 000000000000000000000000000000000000000 | |
| | | Win. 209 | Fed. 12C1 | 19.5 | 9.8 | | | 21.0 | 5.1 | 23.0 | 7.6 | | | |
| | | | Fed. 1235 | <u> </u> | | 20.5 | 9.7 | 1 | | I | | | | |
| 1 1/8 | 1,255 | | Fed. 12C1 | 21.0 | 10.5 | | | 22.5 | 8.5 | 24.5 | 8.4 | | | |
| | | Fed. 209A | Fed. 12C1 | 21.0 | 10.2 | | | 21.5 | 7.9 | 22.5 | 8.9 | | | |
| | | | Fed. 1253 | 21.0 | 9.4 | 1 | | 23.0 | 9.1 | 23.0 | 8.3 | | | |
| | | | Hornady Versalite | 20.5 | 9.9 | 1 | | 22.5 | 8.5 | 23.0 | 8.7 | | | |
| | | | Red PC | 20.5 | 10.7 | 1 | | 22.5 | 9.6 | 24.5 | 8.5 | | | |
| | | | Rem. R12H | | | 1 | | 21.5 | 9.9 | 22.5 | 9.0 | | | |
| | | | Rem. RXP12 | 21.0 | 10.0 | 1 | | 21.5 | 9.3 | 22.0 | 8.5 | | | |
| | | 000000000000000000000000000000000000000 | Win, WAA12 (White) | | 0000 | 000000 | | 21.5 | 10.5 | 22.0 | 9.5 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 000000000000000000000000000000000000000 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX |
| | | Rem. 2091 | Fed. 12C1 | 21.5 | 10.7 | | | 23.5 | 7.5 | 26.0 | 7.5 | | 22222222 | |
| | | Wiss, 209 | Fed. 12C1 | 21.0 | 10.5 | I | | 22,5 | 9.0 | 24,5 | 6.3 | 1 | 1 | |

12-Gauge, 2 3/4 inch Fed. Paper Target Shells

| Shot Wt. (curren) | Velocity | Primer | Wed | Rad Dut Grains pai | American Select Grains pai | Greins | | Un Geratus | nque 70 | H Grains | rai | Files Gories | Dat Dat | 3400 Grains pai |
|----------------------|------------|-----------------------|------------------------|---|---|--------|------|---------------|------------|-------------|-------|-----------------|------------|---|
| | | ****** | | 11000 | z2000 | | 1200 | | ×1006 | | ¥1690 | | 25000 | 12000 |
| out, from Prev. P | ege: Veloc | ity - 1,255 • S | bot Wt - 1 1/8 | | | | | | | | | | | |
| 1 1/6 | 1,319 | OCI 209M | Fed. 12C1 | 10000000000 | 100000000000000000000000000000000000000 | 10000 | | 26.5 | 9.4 | 10000 | | 100000 | | 100000000000000000000000000000000000000 |
| | | Fed. 209A | Fed. 12CI | | | 24.5 | 9.9 | 26.5 | 9.0 | | | | | |
| | | | Fed. 1253 | | 1 | 1 | | 26.5 | 9.7 | 1 | | 1 | | |
| | | | Rem. RXP12 | 9 | 1 | 24.5 | 9.8 | 26.5 | 8.6 | 1 | | 1 | | |
| | | | Win. WAAL2 (White) | | 1 | 24.5 | 9.7 | 26.5 | 9.3 | l | | l | | |
| | | Rem. 209P | Fed. 12C1 | | | 25.5 | 9.3 | 27.5 | 8.3 | | | | | |
| | | Win. 209 | Fed. 12CI | | | | | 26.5 | 9.2 | | | | | |
| 1.176 | 1,400 | Fed. 209A | Win, WAA12F114 | | 000000000000000000000000000000000000000 | 4 | | | | 30.0 | 10.7 | | | |
| 1 1/4 | 1,220 | CCI 209M | Fed. 12\$4 | | | 23.0 | 10.5 | 25.5 | 9.7 | I | | | | |
| | | Pod. 209A | Fed. 12C1 | | | 21.0 | 10.6 | 22.5 | 9,5 | | | 00000 | | |
| | | | Fed. 1254 | | | 23.0 | 10.5 | 24.0 | 9.8 | | | | | |
| | | | Hornady Versalite | 1000000000 | | 23.5 | 9.6 | 25.0 | 8.8 | | | | | |
| | | | Rem. SP12 | | | 21.0 | 9.6 | 22.0 | 9.6 | 1000 | | | | |
| | | | Win. WAA12 (White) | | | 21.0 | 10.5 | 22.0 | 10.0 | | | | | |
| | | | Win. WAA12F114 | | 888888888888 | 23.0 | 9,9 | 23.5 | 9.5 | \$3333 | | 33333 | | |
| | | Rem. 209P Win. 209 | Fed. 1254 | | 000000000000 | 23.0 | 9.9 | 25.5 | 9.1 | 10000 | | 00000 | | b0000000000000000000000000000000000000 |
| 11/4 | 1,350 | CCI 209M | Fed. 1284 Fed. 1284 | 100000000000000000000000000000000000000 | 00000000000000 | 900000 | | 24.5 | 10.6 | 29.5 | 9.9 | 37.0 | 9.0 | 000000000000000000000000000000000000000 |
| | 1,330 | Fed. 209A | Fed. 1254 | | ***** | 40000 | | 20.0 | 20.7 | 100 | | | 10.3 | |
| | | 100. 205A | Rem. RP12 | | | | | | | 29.0 | 9.4 | 21.0 | 20.3 | |
| | | | Rem. SP12 | | | 10000 | | | | 29.5 | 9.3 | | | |
| | | | Win. WAA12F114 | | | | | | | 29.5 | 9.2 | | | |
| | | Win. 209 | Fed. 1284 | ********* | *********** | | | | | 1000 | | 57.5 | 10.3 | |
| 11/4 | 1,400 | Fed. 209A | Reto, RP12 | £000000000 | 88888888888 | X 0000 | | #6666 | | 10000 | | 39.0 | 10.5 | |
| 1.3/8 | 1,249 | OCT 2099M | Rem. SP12 | ********* | ****** | | | ***** | | | | 54.5 | 9.5 | ****** |
| 555555555555 | | Fed. 209A | Rem. SP12 | 3333333333 | 888888888888 | 85333 | | \$5555 | | 18888 | | 34.0 | 9.9 | |
| | | Rem. 209P | Rem. SP12 | | | | | | | 1 | | 36.0 | 8.3 | *************************************** |
| | | Win. 209 | Rem. SP12 | 10000000000 | 000000000000000000000000000000000000000 | 10000 | | 10000 | | 10000 | | 34.5 | 9.5 | |
| 1.3/8 | 1,295 | OCI 209M | Rem. SP12 | | | 1 | | | | | | 37.0 | 10.6 | |
| | | Fed. 209A | Rem. SP12 | | | | | | | | | 35.5 | 10.3 | |
| | | Rem. 209P | Rem. SP12 | | | | | | | | | 38.0 | 8.6 | |
| | | Win. 209 | Rem, SP12 | | 000000000000000000000000000000000000000 | 30000 | | 0000 | | | | 36.5 | 10.2 | |
| 1.3/8 | 1,350 | Fed. 209A | Rem, RP12 | | | | | 1 | | | | 37.5 | 10.7 | |
| 1 1/2 | 1,150 | Fed. 209A | Rem. RP12 | 100000000000 | 000000000000000000000000000000000000000 | 10000 | | 10000 | | 10000 | | 52.5 | 8.5 | |
| | | | Renn. SP12 | 000000000000000000000000000000000000000 | 000000000000000000000000000000000000000 | | | | | 25.0 | 10.2 | | | 000000000000000000000000000000000000000 |
| 1 1/2 | 1,205 | CCI 209M | Rom, RP12 | | L | 1 | | I | | | | .55.0 | 9.4 | |
| | | Fed. 209A | Reto. RP12 | | | 9000 | | | | | | 54.0 | 9.3 | |
| | | Rom. 209P | Rem. RP12 | | | | | | | | | 54.5 | 10.3 | |
| | | Win. 209 | Rem. RP12 | | | | | 1 0000 | | | | 35.0 | 9.6 | |

12-Gauge, 2 3/4 inch Fiocchi Plastic Target Shells

| | Root Wit. rancos) | Velocity | Princer | Wad | Rei Greins | Det pri x1000 | Americ Grains | an Select pai x1000 | Green Grains | | | Hexus Greins pei z 1900 | Hue Dut Gmins pri xil | 2400 Grains pai 00 ±1000 |
|---|----------------------|----------|----------|---|------------------------------|---------------------|------------------|---------------------------|------------------------------|--------------------------|-------------|-------------------------------|-----------------------------|---|
| | 7/8 | 1,200 | Fio. 616 | Fed. 12SO Fumple PC | 17.5 17.5 | 6.7 6.4 | | | | | | | | 1 |
| | | | | Rem. TGT 12 Win, WAA12SL | 17.0 17.0 | 5.9 | 000000000 | | | | ********* | ******* | | *************************************** |
| | 7/8 | 1,250 | Fio. 615 | Fed. 125O Furple PC Rem. TGT 12 Win, WAA12SL | 19.0 19.0 18.5 18.5 | 5.7 7.0 | | | | | | | | |
| | 7/6 | 1,300 | Pio. 616 | Fed. 12SO Purple PC Rem. TGT 12 Win. WAA12SL | 19.5 29.0 26.0 26.0 | 8.8 8.6 7.9 | 00000 | | 22.5 22.0 22.0 | 7.7 7.6 7.9 | ********** | | | |
| | 1 | 1,200 | Pio. 616 | Fed. 128O Furple PC Rem. TGT 12 Win. WAA128L | 18.0 18.0 18.0 | 9.1 8.1 8.5 | | | 20.0 20.0 20.0 20.0 | 8.1 7.2 7.4 7.9 | | | | |
| | 1 | 1,255 | Fio. 615 | Purple PC Rem. TGT 12 Win, WAA12SL | 19.0 19.0 19.0 | 9.5 9.3 | | | 21.0 | 8.2 8.4 8.1 | ********* | | ~~~~~ | |
| | 1 | 1,290 | Pio. 616 | Purple PC Rem. TGT 12 Win. WAA12SL | 21.0 20.5 20.5 | 9.8 | | | 21.0 23.0 22.5 22.5 | 8.4 8.6 9.4 | | | | |
| 1 | 1/8 | 1,090 | Fio. 616 | Claybuster 3118-12AR Fed. 12C1 Fed. 12S3 | 16,0 | | 12.5 | 7.1 7.4 | 18.5 | 6.8 7.2 | #0000000000 | | 00000000 | |
| | | | | Piocchi PTW1 | 16.5 | 5.1 | | | 18.5 | 6.8 | 1 | 1 | l | |

12-Gauge, 2 3/4 inch Fiocchi Plastic Target Shells

| Sust Wt. (cuncus) | Velocity | Priner | Wed | Rad Greias | Dat psi 2000 | Americ Grains | nn Select psi x1000 | Green Green | | Grains | ique pri x1000 | Grains Grains | rros psi <u>1100</u> | Goulas | :Dot pd 21900 | SACO Gražna pak pú000 |
|---|------------|----------------------|------------------------------------|---------------|--------------------|------------------|---------------------------|----------------|-------------|--------------|----------------------|------------------|----------------------------|--------------|---------------------|---|
| t. from Prev. Pe | ige: Veloc | ity - 1,090 • S | bot Wt 1 1/8 | | | | | | | | | | | | | |
| | | | Finechi TLI | | | 18.0 | 7.4 | l | | | | 1 | | 1 | | 1000000 |
| | | | Hornady Versalite | 16.5 | 5.1 | | | 18.5 | 7.1 | | | 1 | | | | |
| | | | Rem. Fig. 8 Rem. FXP12 | 16.0 16.5 | 8.0 8.7 | l | | 18.5 | 6.5 6.7 | | | 1 | | | | |
| | | | Win. WAAL2 (White) | 17.0 | 7.6 | l | | 18.5 | 7.0 | 1 | | 1 | | | | |
| | | | Win, WAA12SL | 17.0 | 7.3 | l | | | | 1 | | l | | | | 000 |
| 1 1/6 | 1,145 | Fig. 615 | Clasbuster 3118-12AR | | | 19,5 | 8.0 | | | | | | | | | |
| | | | Fed. 12C1 | 18.0 | 8.8 | | | 19.5 | 7.5 | | | | | | | |
| | | | Fed. 1253 | 18.0 | 9.2 | 19.0 | 8.7 | 20.0 | 7.5 | | | | | | | |
| | | | Fiocchi FTW1 Fiocchi TL1 | 17.5 | 8.8 | 19.5 | 8.5 | 20.0 | 7.3 | | | | | | | |
| | | | Hornady Versalite | 17.5 | 9.0 | 19.3 | 4.5 | 19.5 | 7.5 | | | | | | | |
| | | | Rem. Fig. 8 | 18.0 | 8.4 | | | 20.0 | 7.1 | | | | | | | |
| | | | Rem. RXP12 | 18.0 | 8.7 | | | 20.0 | 7.2 | | | | | | | |
| | | | Win. WAAL2 (White) | 15.0 | 9.0 | 10000 | | 20.0 | 7.6 | | | | | | | |
| | | | Win. WAALISL | 15.0 | 8.3 | | | 1 | | | | | | | | |
| 1 1/8 | 1 205 | Pio. 616 | Windjammer Claybuster 3118-12AR | 18.5 | 7.4 | 21.9 | 9.0 | 19.5 | 7.2 | 100000 | | 00000 | | 1000000 | | |
| 1 504 | Ayano | 100.010 | Fed. 12C1 | 19.0 | 9.5 | 22.00 | 5.0 | 21.0 | 8.4 | 23.5 | 6.9 | 1 | | 1 | | |
| | | | Fed. 1253 | 19.0 | 9.7 | 20.5 | 9.4 | | | | • | 1 | | | | |
| | | | Fiocchi FTW1 | 19,0 | 9.3 | | | 21.0 | 7.8 | 23.5 | 7.4 | 1 | | 1 | | |
| | | | Finechi TE1 | | | 20.5 | 9.2 | l | | | | 1 | | | | |
| | | | Hornarly Versaline | 18.5 | 9.5 | l | | 21.0 | 8.2 | 24.0 | 7.3 | 1 | | | | |
| | | | Rem. Fig. 8 Rem. RXP12 | 19.5 19.5 | 9.6 9.7 | l | | 21.5 | 5.5 7.9 | 23.5 22.5 | 7.0 7.2 | 1 | | | | |
| | | | Win. WAA12 (White) | 19.5 | 9.4 | l | | 21.5 | 8.1 | 23.5 | 6.8 | 1 | | | | 9 |
| | | | Windjammer | 20.0 | 8.6 | l | | 21.0 | 7.7 | 24.0 | 6.4 | 1 | | 1 | | |
| 1 1/9 | 1,250 | Pio. 615 | Claybuster 3118-12AR | | | 22.5 | 10.7 | | | | | | | 100000 | | |
| | | | Fed. L2C1 | 20.5 | 10.7 | | | 22.5 | 9.3 | 24.5 | 8.0 | 26.0 | 7.5 | | | |
| | | | Fed. 1285 | l | | 22.0 | 16.3 | l | | L | | l | | | | |
| | | | Piocchi FTW1 Piocchi TL1 | 21.0 | 10.5 | 22,0 | 10,2 | 23.0 | 9.2 | 24.5 | 8.2 | 26.0 | 8.3 | | | |
| | | | Hornady Versalite | | | 22.0 | 100.0 | 22.5 | 9.3 | 25.0 | 7.8 | 25.5 | 7.7 | | | |
| | | | Rem. Fig. 8 | 20.5 | 15.2 | | | 23.0 | 8.8 | 24.5 | 7.6 | 26.0 | 7.3 | | | |
| | | | Rem. RXP12 | | | | | 23.0 | 9.2 | 23.5 | 8.2 | 26.0 | 7.5 | | | |
| | | | Win. WAA12 (White) | | | | | 25.0 | 6.9 | 25.0 | 7.8 | 26.0 | 7.9 | | | |
| 00000000000 | | com seem r | Windjummer | 21.0 | 9.4 | 00000 | | 22.5 | 9.0 | 25.5 | 6.9 | 26.5 | 7.7 | 100000 | | |
| 1 1/8 | 1,310 | OCI 209M Pio. 616 | Rem. RXP12 Fed. 1253 | | | 888888 | | 24.0 25.0 | 10.0 9.6 | 26.5 27.0 | 8.4 | | | 33333 | | |
| | | Win. 209 | Win. WAA12 (White) | | | ***** | | 25.0 | 8.7 | 26.5 | 8.3 | | | ***** | | |
| 1 1/4 | 1,229 | | | 88888 | | 6 66666 | | 24.5 | 5.0 | | 8888 | 80000 | | 100000 | | 000000000000000000000000000000000000000 |
| | | Fie. 616 | Fed. 1254 | | | | | 23.0 | 9.7 | 25.0 | 8.8 | | | 1 | | |
| 200000000000000000000000000000000000000 | | Win 209 | Win. WAAL2F114 | | | 1 00000 | | 23.0 | 10.0 | 25.0 | 8.7 | 10000 | 3333 | | | |
| 11/4 | 1,275 | CCI 209M | | haaa | | | | | | 27.0 | 10.3 | 28.0 | 8.3 9.5 | | | |
| | | Pio. 616 Win. 209 | Fed. 1284 Win, WAA12F114 | | | 800000 | | 200000 | | 27.0 | 10.0 | 28.0 | 8.4 | 200000 | | |
| 1 1/4 | 1,300 | | Rem. SP12 | 10000 | | 60000 | | 60000 | | | | 30.0 | 9.2 | 41.0 | 7.6 | |
| | | Fig. 615 | Fed. 1254 | | | 1 | | | | | | 30.0 | 9.5 | 40.0 | 8.3 | |
| | | | Rem. SP12 | | | l | | 1 | | 1 | | 30.5 | 8.6 | 41.0 | 7.7 | 000 |
| | | | Win, WAA12F114 | | | | | | | | | 30.0 | 9.2 | 39.5 | 7.5 | |
| 1 3/8 | 1,295 | Win. 209 CCI 209M | Win. WAA12F114 Rem. RP12 | | | 000000 | | 10000 | | Pass | | 30.0 | 10.1 | 38.5 | 8.3 | 000000000000000000000000000000000000000 |
| 1.3/8 | 1,472 | Pio. 616 | Rem. RP12 | 00000 | | 55555 | | 10000 | | 1000 | | 66688 | | 37.0 38.0 | 9.6 9.1 | become 200 |
| | | Win. 209 | Rem. RP12 | | | 000000 | | 1 | | T | | | | 38.0 | 9.5 | |
| 1 3/8 | 1,350 | CCI 209M | Rem. RP12 | | | | | | | | | | | 40.0 | 10.1 | |
| | 3323333 | Win. 209 | Rem. RP12 | | | 22222 | | 2222 | | 2222 | | | | 46.0 | 9,9 | |
| 1 1/2 | 1,150 | | Rem. RP12 | p0000 | | 100000 | | 100000 | | 10000 | | 10000 | | 32.5 | 8.7 | |
| 1 1/2 | 1,205 | CCI 209M Fig. 615 | | | | | | | | | | | | 33.0 36.5 | 9.5 9.0 | |
| | | Win. 209 | Rem. RP12 Rem. RP12 | | | ***** | | 1 | | 1 | | | | 35.5 | 8.6 | ************* |
| 1 1/2 | 1,260 | CCI 209M | | | | | | 1000 | | | | | | 36.5 | | h |
| ~~~~ ~~ | | Fio. 615 | Rem. RP12 | | | | | 1 | | 1 | | 1 | | 57.5 | 9.6 | |
| | | Win. 209 | Rero. RP12 | | | E8888 | | 1 | | 1000 | | 10000 | | 36.5 | 10.3 | I |

12-Gauge, 2 3/4 inch Rem. Premier, STS Plastic Target Shells

| Start Vrt. (orcassa) | Velocity | Prints | Wed | Red Grains | Dot psi 11600 | Americ Gosies | nn Select pai x1000 | Green Greens | | Uni Grains | ique [%i | Be Greins | rce psi 2000 | Mue Grains | Dot pa 11600 | 2400 Grains pai £1000 |
|---|----------|-----------|--------------------------------------|---------------|---------------------|------------------|---------------------------|-----------------|------------|---------------|-----------------|--------------|--------------------|---------------|--------------------|---|
| 7/8 | 1,209 | Rem. 209P | Claybuster 4100-12 B | 17.5 | 7.1 | 18.9 | 5.2 | | | | | | | | | |
| | | | Fed. 125O | 17.0 | | | | 1 | | | | 1 | | | | |
| | | | Purple PC Rem. TGT 12 | 17.5 17.0 | | | | 1 | | | | 1 | | | | |
| | | | Win. WAA12L (Gray) | 16.5 | 8.0 | 18.0 | 5.8 | 1 | | | | 1 | | | | |
| 7/8 | 1.000 | Rem. 209P | Win, WAA12SE Claybuster 4100-12 B | 17.0 | | 19.6 | 5.9 | | | 0000 | | | | 00000 | | 2000000000000000000 |
| //** | 1.450 | Arm. Mar | Fed. 128O | 18.0 18.0 | | 19.0 | 5.9 | | | | | | | | | |
| | | | Purple PC | 18.5 | 6.9 | | | | | | | | | | | |
| | | | Rem. TGT 12 Win, WAA12L (Grey) | 18.5 17.5 | | 19.0 | 6.8 | | | | | | | | | |
| | | | Win, WAA12SL | 18.5 | | | - | | | | | | | | | |
| 7/8 | 1,300 | Rem. 209P | Claybuster 1100-12 | | | 20.5 | 6.9 | 1 | | | | 1 | | | | |
| | | | Claybuster 4100-12 B Fed. 125O | 19.0 20.0 | | 20.5 | 6.7 7.7 | 22.0 | 5.0 | | | 1 | | | | |
| | | | Furple PC | 20.0 | 7.5 | | | 1 | | | | 1 | | | | |
| | | | Rem. TGT 12 | 26.5 | | 20.5 | 7.0 | 22.0 | 7.1 | | | 1 | | | | 200 |
| | | | Win. WAA12L (Gray) Win. WAA12SL | 18.5 20.5 | | 20.5 | 7.2 7.9 | 21.5 | 7.9 | | | 1 | | | | |
| 7/8 | 1,400 | Rem. 209P | Win. WAALIL (Gray) | | | 22.0 | 10.5 | | | | | | | | | |
| 1 | 1,190 | Rem. 209P | Clayburter 1100-12 | 16.5 | | | | 18.5 | 7.0 | | | 1 | | | | 2000 |
| | | | Rem. TGT 12 Win, WAA12L (Gray) | 17.0 16.5 | | 17.0 | 6.9 7.5 | 18.0 | 6.6 6.3 | | | 1 | | | | |
| 1 | 1,200 | Rem. 209P | Claybuster 1100-12 | 17.8 | 8.0 | 19.5 | 7.5 | 19.2 | 7.5 | | | | | | | |
| | | | Duster - Green | 17.5 | | 19.0 | 2.7 | 19.5 | 7.5 | | | | | | | |
| | | | Fed. 125O Purple PC | 18.0 18.5 | 9.0 8.3 | 19.5 | 7.9 | 19.5 | 8.6 7.0 | | | | | | | |
| | | | Reto. TGT 12 | 18.0 | | 19.0 | 7.0 | 20.0 | 5.2 | | | | | | | |
| | | | Win. WAALISE | 15.0 | | 19.0 | 7.6 | 19.5 | 8.6 | | | | | | | |
| 1 | 1,255 | Rem. 209P | Claybuster 1100-12 Duster - Green | 18.7 18.5 | 8.8 10.9 | 20.5 | 8.0 8.4 | 21.0 | 8.3 8.8 | | | 1 | | | | |
| | | | Fed. 128O | 19.5 | | 20.5 | 8.6 | 21.5 | 9.3 | | | 1 | | | | |
| | | | Purple PC | 19.5 | | | | 21.5 | 8.5 | | | 1 | | | | 200 |
| | | | Rem. TGT 12 Win. WAAL2SL | 19.0 19.5 | | 20.5 | 8.0 8.7 | 21.5 | 8.5 8.9 | | | 1 | | | | |
| 1 | 1,290 | OCI 209M | Rem, R12L | 20.0 | | 20,5 | ::: ! | 22.0 | 9.1 | 10000 | | 0000 | | 100000 | | |
| | | Rem. 209P | Claybuster 1100-12 | 19.7 | | 22,5 | 8.5 | 22.0 | 8,5 | | | | | | | |
| | | | Fed. 12SO Purple PC | 20.0 | | 21.5 | 9.9 | 22.0 22.5 | 8.7 8.2 | | | 1 | | | | |
| | | | Rom. Fig. 8 | 21.5 | | | | 22.0 | 8.1 | | | 1 | | | | 2000 |
| | | | Rero, R12L | 20.5 | 9.9 | | | | | | | 1 | | | | |
| | | | Rem. TGT 12 Win. WAA12F1 | 21.0 | | 22.5 | 8.7 | 22.5 | 8.4 7.2 | | | 1 | | | | |
| | | | Win. WAA12SL | 20.5 | | 21.5 | 9.2 | 22.5 | 9.0 | | | | | | | |
| 900000090000000000000000000000000000000 | | Win. 209 | Rem. R12L | 20.0 | | | | 22.0 | 8.7 | 10000 | | | | 2000 | | |
| 1 1/8 1 1/8 | 1,000 | CCI 209M | Rem. Fig. 8 | 14.5 16.0 | | 15.0 | 6.5 | 17.5 | 8.5 | 0000 | | | | 88888 | | |
| 100 | TWO | CC4 20501 | Fiocchi FIW1 | 16.5 | | | | 17.5 | 8.5 | | | | | | | |
| | | | Red PC | 16.5 | 9.2 | | | 18.0 | 7.4 | | | | | | | |
| | | | Rem. Fig. 8 Rem. RXP12 | 16.5 16.0 | | | | 18.0 | 8.4 8.6 | | | | | | | |
| | | | Win. WAA12 (White) | 16.0 | | | | 17.0 | 8.7 | | | | | | | |
| | | | Windjammer | 16.5 | 6.3 | | | 18.0 | 7.6 | | | | | | | |
| | | Fig. 615 | Rem. Fig. 5 Clarbuster 3116-12 | 16.5 | | 200 | | | | | | **** | | | | |
| | | Rem. 209P | Duster-Bine | 16.2 16.0 | | 17.5 | 6.9 8.0 | 17.5 | 7.8 8.2 | | | | | | | |
| | | | Fed. 1253 | 16.0 | 10.3 | 17,5 | 8.2 | | | | | | | | | |
| | | | Piocchi FTW1 | 16.5 | | | | | | | | | | | | |
| | | | Red PC Rem. Fig. 6 | 16.5 16.5 | | 17.5 17.5 | 7.0 7.1 | 18.5 | 8.5 | | | | | | | |
| | | | Rem. RXP12 | 16.0 | | 17.0 | 7.5 | 18.0 | 8.7 | | | | | | | |
| | | | Win, WAA12 (White) | 16.0 | | 12.0 | 8,1 | 18.0 | 6.5 | | | | | | | |
| | | | Win. WT12 (Orange) Windjammer | 15.5 16.5 | | 17.0 | 7.5 6.9 | 18.0 | 5.1 7.3 | | | | | | | |
| | | Win. 209 | Rem. Fig. 8 | 16.5 | | | 000 | - MARIE | 0000000 | poodó | | 00000 | | 000000 | | 000000000000000000000000000000000000000 |
| 1 1/# | 1,145 | OCI 209 | Rem. Fig. 8 | 17.5 | | 10000 | | 19.5 | 7.1 | 10000 | | 00000 | | 00000 | | D0000000000000000000000000000000000000 |

12-Gauge, 2 3/4 inch Rem. Premier, STS Plastic Target Shells

| Shot Wt. (curren) | Velocity | Primer | Wd | Red Det Greins psi | Ann Gra | erican Sela iras pai | ct Green | a Dot s pai | | que pei | Heren Grains poi | Blue Det Greizs pai | 2400 Gerina pai |
|----------------------|------------|------------------|----------------------------------|-----------------------|--------------------|-------------------------|-------------------|----------------|--------------|------------|---|------------------------|---|
| | ***** | | | اللنا | سلـه | <u>:20</u> | <u> </u> | <u></u> | L | 300E | 1100 | 1990 | 1000 |
| lout, from Prev. Pr | age: Veloc | ity - 1,145 • Si | not Wt 1 1/8 | | | | | | | | | | |
| | | CCI 209M | 2-4 1262 | 17.5 10 | اء | | lian | 8.9 | ı | | 1 | 1 | 6 |
| | | CA 209M | Finechi FTW1 | | 9 | | 19.0 | | | | | | |
| | | | Hornady Versalite | 3 | .1 | | 19.0 | | 1 | | | | |
| | | | Red PC Rem. Fig. 8 | | 3 | | 19.5 19.5 | | | | | 1 | |
| | | | Rem. RXP12 | 6 | .6 | | 19.0 | | | | | 1 | |
| | | | Win. WAA12 (White) | 16.5 10 | 2 | | 19.0 | 9.4 | | | | 1 | |
| | | COST TAMES | Windiammer | - 8 | 0 | | 19.5 | 7.9 9.5 | | | | | |
| | | CCI 2095C | Rem. Fig. 8 | 18.5 10 18.0 10 | | .5 8.9 | 19.5 | | | | | | |
| | | | Win. WAA12 (White) | | | | 20.0 | | | | | | |
| | | V. J. 4904 | Windjammer | 18.5 9 | | | | | 1 | | | 4 | |
| | | Fed. 209A | Fed. S3 Red PC | 16.5 10 17.0 10 | | | 19.0 | 9.9 10.0 | | | | 1 | |
| | | | Rom, Fig. 8 | 16.5 10 | 3 18 | 5 92 | | 19.1 | | | | 1 | |
| | | | Rem. RXP12 | 16.0 10 | | | 19.5 | | | | | 1 | |
| | | Pio. 615 | Windjammer Rem. Fig. 8 | 17.5 10 17.5 8 | | | 20.5 19.5 | 9.6 7.8 | less: | | | 3 8888888888 | |
| | | Rem. 209P | | 17.0 8 | .8 19 | | 19.9 | 8.7 | 1 | | | | |
| | | | Duster-Blue | 17.0 9 | | | | 9.0 | | | | 1 | |
| | | | Fed. 1255 Fiocchi FTW1 | 18.0 10 17.5 9 | | .5 9.1 | 19.5 19.5 | 8.8 8.8 | | | | 1 | |
| | | | Hornady Verselite | | .0 | | 19.0 | 8.0 | | | | | |
| | | | Lage Uniwad | 5 | 9 | | 19.0 | 8.0 | | | | 1 | |
| | | | Red PC Rem. Fig. 8 | | .0 19 .2 19 | | | | | | | 1 | |
| | | | Rem. RXP12 | 17.5 8 | 9 18 | .5 8.3 | 19.0 | 7.7 | | | | | |
| | | | Win. WAA12 (White) | 17.0 10 | | | | 6.7 | | | | 1 | |
| | | | Win. WT12 (Crange) Windiammer | 18.5 S | 8 18 9 19 | | | 8.3 7.8 | | | | | |
| | | Win. 209 | Rem. Fig. 6 | 18.0 9 | .5 18 | | | 8.1 | | | | | |
| 1 1/8 | 1,209 | ^^ <u>^</u> | Rem. Fig. 8 | 19.5 9 | 9 | | 21.9 | 8.7 10.2 | 22.5 22.0 | 8.5 | 000000000 | | |
| | | CCI 209M | Fed. 1253 Fiocchi FTW1 | 18.5 10 | | | 20.5 20.5 | 9.7 | 22.0 | 9.7 | | | |
| | | | Hornady Versalite | 19.0 10 | | | 20.0 | 9.2 | 22.0 | 8.8 | | | |
| | | | Red PC | 19.0 10 | | | 20.5 | 9.0 9.3 | 22.5 | 8.7 9.5 | | | |
| | | | Rem. Fig. 8 Rem. RXP12 | 18.5 10 | | | 20.0 | 9.2 | 22.5 22.5 | 9.5 | | 1 | |
| | | | Win. WAA12 (White) | | | | 21.0 | 9.6 | 22.0 | 9.5 | | | |
| | | OCI 2095C | Windjammer Ted 1988 | 18.5 9 | 7 | | 20.5 20.0 | 8.7 10.6 | 23.5 | 8.2 | 000000000 | 90000000000 | 000000000000000000000000000000000000000 |
| | | CALL MISSO | Rem. Fig. 5 | | 20 | .0 10.3 | | | | | | 1 | |
| | | | Windiammer | | | | 22.0 | 10.4 | | 2002200 | | | |
| | | Fed. 209A | Rem. Fig. 8 Rem. RXP12 | 17.0 10 17.0 10 | | .0 10.7 | 20.5 | 10.5 | 23.0 | 9.2 9.1 | | | |
| | | Pio. 616 | Rem. Fig. 8 | 19.5 10 | | | 20.0 | | 23.0 | 8.5 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | × 0000000000 | P |
| | | Rem. 209P | Clasbuster 3118-12 | 18.5 9 | 8 20 | | 20.3 | 9.7 | 22.2 | 7.3 | | | |
| | | | Duster-Blue Fed. 1253 | 18.5 10 | 3 20 | | | 9.8 9.7 | 22.7 22.0 | 7.8 9.1 | | | |
| | | | Piocchi PTW1 | 18.5 10 | | 1976 | 20.5 | 9.9 | 1 | *** | | | |
| | | | Hornady Venadite | | | | 20.0 | 8.7 | 22.0 | 7.9 | | | |
| | | | Red PC Rem. Fig. 5 | 19.5 10 | | | 0.000 | 8.5 8.8 | 22.5 22.5 | 7.8 8.2 | | | |
| | | | Rem. RXP12 | 19.0 10 | .0 20 | .5 10.2 | 20.5 | 8,7 | 22.5 | 8.3 | | 1 | |
| | | | Win. WAA12 (White) | 18.3 10 | | | | 5.9 | 22.0 | 8.9 | | | |
| | | | Win. WT12 (Orange) Windjammer | 19.5 10 | | | | 8.7 8.2 | 23.5 23.5 | 8.3 7.0 | | | |
| | | Wiss. 209 | Rem. Fig. 8 | 19.0 10 | | | 20.9 | 8.6 | 22.5 | 8.4 | | | |
| 1 1/9 | 1,299 | CCI 209M | | | | | 21.5 | | 23.5 | 10.2 | 245 9.9 | | |
| | | | Hornady Verselite Red PC | | | | 21.5 22.0 | | 23.5 24.0 | 9.9 9.4 | 24.5 9.9 25.0 9.5 | | |
| | | | Rem, RXP12 | | | | 22.0 | 9.6 | 24,0 | 10.4 | 24.5 9.8 | | |
| | | | Win, WAA12 (White) | | | | 22.5 | 10,7 | 24,0 | 10.3 | 24.5 10.4 | | |
| | | Fio. 616 | Windjammer Rem. RXP12 | | 884888 | | 22.0 | | 25.0 23.5 | 9.3 9.1 | 25.0 9.4 | | |
| | | Rem. 209P | Claybuster 3118-12 | 000000000 | 21 | .5 10.6 | 21.0 | | | | 100000000000000000000000000000000000000 | | 000000000000000000000000000000000000000 |
| | | | Duster-Blue | | | | 21.5 | 10.3 | | | | | |
| | | | Rem. Fig. 8 Rem. RXP12 | | 21 21 | | | 10.7 | | | | | |
| | | | Win. WT12 (Orange) | | | er 1965 | 22.0 | | | | | | |
| 000000000000000 | 0000000 | Wiss. 209 | Rem. RXP12 | | | | 22.0 | | 24.5 | 8.8 | 990000000 | | |
| 1 1/8 | 1,310 | CCI 209M | Rem. RXP12 | 4 000000000 | ::0 EE | | 999 1000 | | 25.0 | 10.0 | 26.5 9.7 | g :0000000000 | #0000000000000000000000000000000000000 |

12-Gauge, 2 3/4 inch Rem. Premier, STS Plastic Target Shells

| Start Wt. (cunces) | Velocity | Printer | Wed | Red Dut Greizs pei ±1900 | American Select Grains pai x1000 | Green Dot Greins pai 1990 | Unia Gradus | gue pai x1000 | Hi Genéra | rros psi x1800 | Flor Greizs | Dot psi 2000 | 3400 Grains pal 11000 |
|-----------------------|-------------------|----------------|------------------------|---|---|---|----------------|---------------------|--------------|----------------------|----------------|--------------------|---|
| om Prev. Pe | ige: Veloci | ty - 1,310 · S | bot Wt 1 1/8 | | diameter and the second | | disconnection | ALLES | Rococococo | - | Монности | | |
| | | Fio. 615 | Rem. RXP12 | 1 | ı | ı | 26.0 | 9.9 | 27.5 | 9.3 | ı | | 400 |
| | | Rem. 209P | Hornady Versalite | | **** | | 25.5 | | 27.0 | 8.8 | | | 000000000000000000000000000000000000000 |
| | | Nem 2097 | Rem. RXP12 | | | | 24.5 | | 27.5 | 8.4 | | | |
| | | | Win. WAAL2 (White) | 1 000000000000000000000000000000000000 | £666666666 | 8000000000 | 25.0 | | 27.0 | 8.8 | 000000 | | 000000000000000000000000000000000000000 |
| | | | Windjammer | | | | 26.5 | | 28.5 | 8.6 | | | |
| | | Win. 209 | Rem. RXP12 | I | 000000000000000000000000000000000000000 | | 26.0 | 9.8 | 27.0 | 9.5 | 000000 | | |
| 1 1/4 | 1,220 | CCI 209M | Rem, SP12 | . 55555555555 | 8555555555555 | 388888888888888888888888888888888888888 | 29.5 | | 24.5 | 10.0 | 555555 | | 55555555555 |
| ********* | 22. 14 | Fig. 616 | Rem, SP12 | | ***** | ****** | 23.0 | 9.6 | 24.5 | 9.3 | ***** | | |
| | | Rem. 209P | | | | | 23.0 | | 25.0 | 10.4 | | | |
| | | | Hornach Venselite | | | | 23.5 | 9.4 | 25.0 | 8.4 | | | |
| | | | Reto. SP12 | | | | 23.5 | 9.3 | 25.0 | 9.6 | | | |
| | | | Win. WAA12F114 | 1 000000000000000000000000000000000000 | £666666666 | 8000000000 | 24.0 | 10.1 | 24.5 | 9.3 | 000000 | | 000000000000000000000000000000000000000 |
| | | Win. 209 | Rem. SP12 | | | | 23.5 | 10.0 | 24.5 | 9.6 | | | |
| 1 1/4 | 1,275 | OCI 209M | Rem. SP12 | 1000000000 | | | | | | | 54.5 | 9.8 | 0.0000000000000000000000000000000000000 |
| | | Fio. 616 | Rem. SP12 | | | | | | | | 35.5 | 9.3 | |
| | | Rem. 209P | Fed. 1254 | | | | | | | | 34.0 | 10.1 | |
| | | | Rem. SP12 | | | 100000000000000000000000000000000000000 | | | | 10.7 | 34.5 | 8.6 | |
| | | | Win, WAA12F114 | | | | 10000 | | 26.5 | 10.5 | | | |
| | | Win. 209 | Rem. SP12 | | | | | | 26.0 | 10.6 | 35.5 | 9.1 | |
| 1 1/4 | 1,350 | CCI 209M | Kem. SP12 | 000000000000000000000000000000000000000 | | | | | 0000 | | 35.5 | 10.3 | |
| | | Fio. 615 | Rem. SP12 | | | | | | | | .35.5 | 9.9 | |
| | | Rem. 209P | | | | | 60000 | | 10000 | | 37.5 | 10.2 | |
| | | | Jenn. SP12 | | | | | | 1000 | | 57.5 | 9,7 | |
| | | Win. 209 | Rero. SP12 | . | ******** | | | | | | 36.5 | 9.9 | |
| 1.3/8 | 1,240 | OCI 209M | | P 0000000000 | 000000000000000000000000000000000000000 | *********** | 00000 | | P0000 | | 34.0 | 9.4 | passassassas |
| | | Fig. 615 | Rem. SP12 | 1 000000000000000000000000000000000000 | | | | | 9999 | | 34.0 | 9.1 9.9 | . |
| | | Rem. 209P | | | | | | | | | 34.0 | 9.5 | |
| | | Win. 209 | Rem. SP12 | accesses and | 400000000000000000000000000000000000000 | a constant | 100000 | | 10000 | | 35.0 35.0 | 9.3 | receesesses |
| 1.3/8 | 1.295 | OCI 209M | Rem. SP12 Rem. RF12 | . | | | | | | | 35.5 | 10.4 | |
| | 1,430 | Pio. 616 | Rem. RP12 | ******* | ****** | | | | | | 35.5 | 10.0 | . |
| | | Rem. 209P | | | ***** | | | | | | 36.5 | 9.9 | |
| | | NESS AUST | Sem. SP12 | | | | | | 0000 | | 37.5 | 10.3 | |
| | | Wim. 209 | Rem. RP12 | | ****** | ********* | | | 2222 | | 35.5 | 10.5 | |
| 1 1/2 | 1,150 | CCI 209M | | | | | | | 9333 | | 31.0 | 9.9 | |
| ~~ **** | | Fig. 615 | Rem. RP12 | 1 | ************ | | T | | 1 | | 51.0 | 9.8 | ···· |
| | | Rem. 209P | Clasbuster 1158-12 | 100000000000000000000000000000000000000 | 200000000000000000000000000000000000000 | ****** | lesses. | | 2222 | | 32.0 | 10.6 | 0999999999 |
| | | | Rem. RP12 | | | | 00000 | | 00000 | | 31.0 | 9.9 | |
| | | Win. 209 | Rem. RP12 | | | | | | | | 31.5 | 10.1 | |
| 1 1/2 | 1,205 | CCI 209M | | [00000000000000000000000000000000000000 | | | | | 00000 | | 33.0 | 10.1 | |
| | | Pio. 616 | Rem. RP12 | | | 1 | | | | | 33.0 | 10.1 | |
| | | Rem. 209P | Rem. RP12 | | | | | | | | 33.0 | 10.2 | |
| | | Wim. 209 | Rem. RP12 | 2000 | | | | | | | 33.0 | 10.2 | |

12-Gauge, 2 3/4 inch Rem.-Peters Unibody SP Plastic Shells

| Short Wit. (masons) | Véndy | Prince | Wed | Red Grains | Det pri x1000 | | n Select pai x1000 | Green Greens | | Greias | dgne psi x1000 | Greins | 2000 pai 210000 | Grains | Det pai x1000 | 2000 Grains pai x1000 |
|------------------------|----------|----------|--------------------|---------------|---------------------|---------|--------------------------|----------------------|------|--------------|----------------------|--------|-----------------------|--------|---------------------|-----------------------------|
| 1000 | 1,290 | CCI 209 | Rem. R12L | 21.0 | 9.7 | becees | | becom | 8.1 | booo | | leeses | | becee | | |
| 0000 * 0000 | - Approx | CCI 209M | Rem. R12L | 20.0 | 10.6 | | | 23.5 22.5 22.0 | 8.1 | 10000 | | 00000 | | | | |
| | | Rem. 209 | Rem. R12L | | | | | 22.0 | 9.2 | 1000 | | 00000 | | 10000 | | |
| | | | Rem. RXP12 | 1000 | | | | 21.5 | 9.9 | | | | | | | |
| | | | Win, WAA12FI | | | | | 21.0 | 9.9 | | | | | | | |
| | | Win. 209 | Rem. R121. | 20.0 | 10.7 | ***** | | 21.0 21.5 | 5.8 | | | | | | | |
| 1 1/8 | 1,145 | OCI 209 | Rem. RXP12 | 18.0 | 10.1 | | | 18.5 | 9.2 | | | | | | | |
| | | CCI 209M | Rem. RXP12 | 17.0 | 10.2 | | | 18.5 | 9.1 | | | | | | | |
| | | Rem. 209 | Fed. 1253 | 17.0 | 10.1 | | | 19.0 | 9.2 | 10000 | | 00000 | | 00000 | | |
| | | | Hornady Versalite | 17.0 | 5.8 | | | 18.0 | 8.5 | | | | | | | |
| | | | Rem. R12H | 17.5 | 9.5 | | | 19.6 19.6 | 8.5 | | | | | | | |
| | | | Rem. RXP12 | 10000 | | | | 19.0 | 8.8 | | | | | | | |
| | | | Win. WAA12 (White) | 17.0 | | | | 17.5 | 10.0 | | | 10000 | | | | |
| | | Win. 209 | Rem. RXP12 | 17.0 | 10.5 | | | 18.5 | 8.8 | I | | | | | | |
| 1 1/6 | 1,200 | CCI 209 | Rem. RXP12 | | | | | 21.0 | 8.8 | 25.0 22.0 | 8.3 6.8 | | | | | |
| | | CCI 209M | Rem. RXP12 | | | 0000000 | | 20.0 | 10.0 | 22.0 | 8.8 | | | | | |
| | | Rem. 209 | Fed. 1253 | 1000 | | | | | | 21,5 | 8.8 | 00000 | | 00000 | | |
| | | | Hornady Versalite | 18.0 | | | | 19.0 | 9.9 | 21.0 | 8.2 | | | | | |
| | | | Rem. R12H | 18.0 | 10.0 | | | 19.5 | 9.4 | 21.5 | 8.3 | | | | | |
| | | | Rem. RXP12 | 18.0 | 10.5 | 1000000 | | 20.0 | | 22.0 | 9.1 | 00000 | | 00000 | | |
| | | | Wio. WAA12 (White) | | | | | 19.5 | | 21.5 | 8.4 | | | | | |
| | | | Windjammer | 18.5 | 9.6 | 10000 | | 20.5 | 8.3 | 22.0 | 7.7 | 1000 | | | | |

12-Gauge, 2 3/4 inch Rem.-Peters Unibody SP Plastic Shells

| | Soot Wt. conces) | Velocity | Primer | Wed | Red Dot Greins pei | American Select Grains pai | Green Greins | | U) Genéra | nque pu | H Gerána | enco psi | Filos Graias | Dat pe | 3400 Gerica pai |
|----------|---------------------|------------|-------------------------------|--------------------|---|---|-----------------|-------|---------------|------------|-------------|-------------|-----------------|-----------|---|
| | | | | | ±1900 | z2000 | L | 11200 | | x1000 | | 1800 | | 1990. | 12000 |
| est from | ca Prev. Pe | ge: Veloci | ity - 1,200 • S | bot Wt 1 1/8 | | | | | | | | | | | |
| | | - | | | § | | | | | | | | | | á |
| | | | Win. 209 | Rem, RXP12 | | | 20,5 | 9.8 | 22.0 | 8,9 | | | | | |
| | 1 1/8 | 1,255 | OCI 209 | Rem. RXP12 | | | 22.5 | 10,5 | 23,0 | 8.8 | | | | | |
| | | | CCI 209M | | 1 | | 21.0 | 10.1 | 23.0 | 9.7 | L | | | | L |
| | | | Rem. 209 | Fed. 1285 | | | | | 22.5 | 9.8 | | | | | |
| | | | | Rem. R12H | | | 21.0 | 10.4 | 22.5 | 8.3 | | | | | |
| | | | | Rem. RXP12 | | | 20.5 | 10.5 | 22.5 | 9.2 | | | 100000 | | |
| | | | | Win. WAA12 (White) | and the second | | 4880 | 83383 | 22.5 | 9.2 | 0.000 | | 25555 | | |
| | | | Wint. 209 | Rem. RXP12 | | | 21.5 | 10.7 | 23.5 | 9.8 | | | | | |
| | 1 1/8 | 1,310 | CCI 209 | Rem. R12H | (000000000000000000000000000000000000 | | 90000 | | 25.5 | 9.6 | 27.0 | 9.3 | 100000 | | |
| | | | CCI 209M | Rem. R12H | | | | | 25.0 | 30.7 | 26.5 | 10.5 | | | |
| | | | Rem. 209 | Rem. R12H | | | | | 24.5 | | 25.5 | 10.1 | | | |
| | | | | Rem, RXP12 | | | | | 24.0 | | 25.5 | 10.2 | | | |
| | | | | Win, WAA12 (White) | | | 4 | | 24.0 | | 24.5 | 10.2 | 33333 | | |
| | | | Wiss. 209 | Rem. R12H | | | | | 25.0 | 10.7 | 26.5 | 10.7 | | | |
| | 1 1/4 | 1,229 | OCI 209 | Rem, SP12 | | | 3 0000 | | 24.5 | 9.6 | 25.5 | 9.1 | 00000 | | |
| | | | CCI 209M | Rem. SP12 | . | | | | 23.0 | 10.1 | | 000020000 | 32.0 | 8.5 | |
| | | | Rem. 209 | Rem. SP12 | | | | | 22.5 | 9.7 | 25.5 | 9.4 | | | |
| | | | V <u>212</u> 000 <u>2</u> 000 | Win. WAA12F114 | P | | 4555 | | 222 | | 23.0 | 10.1 | 30.0 | 10.3 | |
| | 20020000 | | Wisi, 209 | Rem. SP12 | . | | | | 23.0 | 10.6 | 24.5 | 10.5 | 33.0 | 9.0 | . |
| | 1 1/4 | 1,275 | OCI 209 | Rem. SP12 | 0.0000000000000000000000000000000000000 | | 48888 | | 8888 | | 55555 | | 35.5 | 8.9 | |
| | | | CCI 209M | Rem. SP12 | £0000000000 | 0000000000000 | | | 0000 | | 00000 | | 33.5 | 9.8 | boooccooccooc |
| | | | Rem. 209 | Rem. SP12 | | | | | 0000 | | 10000 | | 32.0 | 10.2 | |
| | | | | Win. WAA12F114 | | ********* | 40000 | | Property. | | 2000 | | 32.0 | 10.0 | |
| | | | Win. 209 | Rem. SP12 | . | | | | | | | | 35.0 | 10.3 | L |
| | 1 1/4 | 1,350 | OCI 209 | Rem, RP12 | P 0000000000 | 100000000000000000000000000000000000000 | 3 00000 | | \$0000 | | 10000 | | 37.5 | 9.7 | |
| | 000020000 | 0000000 | CCI 209M | Rem. RP12 | | | 00000 | | boood | | 0000 | | 35.5 | 10.4 | . |
| | 1.3/8 | 1,240 | CCI 209 | Rem. RP12 | | | 4000 | | 1000 | | Parties. | | 36.0 | 10.1 | |
| | | | CCI 209M | | 1 | | | | | | | | 52.5 | 10.5 | |
| | 1 1/2 | 1,150 | CCI 209M | | 000000000000000000000000000000000000000 | 1 000000000000000000000000000000000000 | 90000 | | POOR | | 00000 | | 32.0 | 8.4 | |
| | | | Fig. 615 | Rem. RP12 | | | | | | | | | 31.5 | 9.2 | |
| | | | Rem. 209P | | | | | | | | | | 31.5 | 9.6 | |
| | | | **** | Rem. RP12 | 00000000000 | #6000000000000000000000000000000000000 | 400000 | | 1000 | | 0000 | | 32.5 | 8.0 | 000000000000000000000000000000000000000 |
| | | | Win. 209 | Rem. RP12 | | ********* | | | 8888 | | | | 32.0 | 8.3 | |
| | 1 5/8 | 1,115 | CCI 209M | | poccoccocco | 800000000000000000000000000000000000000 | 10000 | | (000) | | 10000 | | 29.5 | 10.3 | pecessessessess |
| | | | Fed. 209A | Activ T42 | | | | | 5555 | | | | 29.0 | 10.4 | |
| | | | Fig. 616 | Activ T42 | #0000000000 | 000000000000000000000000000000000000000 | 1000 | | 1000 | | 1000 | | 29.5 | 10.4 | P0000000000000000000000000000000000000 |
| | | | Rem. 209P | Activ T42 | 3 | I | 1 | | 1 | | 1 | | 29.5 | 20.5 | 3 |

12-Gauge, 2 3/4 inch Win. Plastic AA Shells

| Shot Wt. (oznes) | Velocity | Prints | Wed | Red Grades | Det psi z1600 | Ameri Genies | cen Select pai x1600 | Green Green | Dat pri x1000 | | Herus Greins pai x1000 | Kon Det Grzins psi ±1000 | 3400 Grains pai x1000 |
|--|----------|---|----------------------|---------------|---------------------|-----------------|----------------------------|----------------|---------------------|---|------------------------------|---|--|
| 7/8 | 1 202 | Wis. 209 | Clasbuater 4100-12 B | 17.5 | 6.9 | 18.5 | 5.6 | 1 | | 1 | ı | ı | 1000 |
| 77-6 | 1,209 | 1910. 209 | Fed. 125O | 15.0 | 8.0 | 10.5 | 3/6 | 1 | | | 1 | | |
| | | | Purple PC | 17.0 | 7.5 | l | | 1 | | | 1 | 1 | 8 |
| | | | Rom. TGT 12 | 16.5 | | l | | 1 | | l | 1 | | |
| | | | Win. WAA12L (Gray) | 16.5 | 7.9 | 17.6 | 6.2 | 1 | | l | 1 | | |
| | | | Win. WAA12SL | 16.5 | 7.3 | 67.0 | 10.2 | 1 | | | 1 | | |
| 7/8 | 1.955 | Win. 209 | Claybuster 4100-12 B | 18.0 | 7.6 | 19.5 | 6.1 | 1 | | | 1 | 1 | 8 |
| :::::::::::::::::::::::::::::::::::::: | | | Fed. 125O | 17.5 | 9.0 | | | 10000 | | | 0000000000 | ********** | . |
| | | | Purple PC | 18.0 | | | | | | 0000000000 | | 000000000000000000000000000000000000000 | |
| | | | Rem. TGT 12 | 18.0 | | | | | | | | | |
| | | | Win, WAAL2SL | 18.0 | | | | | | D00000000 | | | |
| | | | Win, WAALZL (Gray) | 17.5 | | 18.5 | 7.2 | | | | | | |
| 7/8 | 1.300 | Win. 209 | Clayburter 1100-12 | g one | | 21.0 | 7.2 | | | ******** | | ********* | |
| **** | 2,500 | *** | Claybuster 4100-12 B | 18.5 | 7.9 | 20.5 | 6.9 | 1 | | | 1 | 1 | |
| | | | Fed. 12SO | 19.0 | 9.4 | 21.0 | 8.3 | 21.0 | 8.9 | l | 1 | 1 | |
| | | | Purple PC | 19.5 | 9.0 | 20.5 | 7.2 | 21.5 | 7.9 | | 1 | | 000 |
| | | | Rem. TGT 12 | 19.0 | 9.3 | 20.5 | 7.5 | 21.0 | 8.4 | | 1 | | |
| | | | Win. WAA125L | 19.0 | 10.5 | 20.5 | 8.4 | 20.5 | 5.8 | | 1 | 1 | 8 |
| | | | Win. WAA12L (Grey) | 18.5 | 9.3 | 19.5 | 8.0 | 20.9 | 8.3 | l | 1 | | |
| 7/8 | 1,400 | Win. 209 | Win. WAA12L (Grey) | | 999 9 | 22.0 | 10.2 | | | 200000000000000000000000000000000000000 | 999999999 | 200000000000000000000000000000000000000 | |
| 1 | 1,150 | Win. 209 | Clayburter 1100-12 | 17.0 | 7.9 | 18.0 | 6.7 | 18.5 | 7.1 | ********** | | ********* | |
| - | ., | *************************************** | Win. WAA12L (Gozy) | 16.5 | | 18.0 | 6.7 | 18.5 | 7.6 | l | 1 | | |
| | | | Win, WAA12SL | 16.5 | | 17.5 | 7.6 | 18.9 | | l | 1 | | |
| 0001 | 1.209 | Win. 209 | Clasburter 1100-12 | 15.0 | 8.6 | 18.5 | 6.9 | 19.8 | 8.0 7.7 | 000000000 | 000000000 | 00000000000 | D0000000000000000000000000000000000000 |
| | | | Duster - Green | | | 19.0 | 8.1 | 19.5 | 8.3 | | | | |
| | | | Fed. 125O | 18.0 | 9.6 | 19.0 | 8.7 | 19.5 | 8.4 | 0000000000 | | | |
| | | | Purple PC | 18.0 | 8.9 | | | 19.5 | 7.0 | B000000000 | | | |

12-Gauge, 2 3/4 inch Win. Plastic AA Shells

| | bot Wt. unces) | Velocity | Priner | Wed | Red I Grains | | Americ Grains | om Select psi x1000 | Green Greins | | Unique Cesius pai x1000 | Herco Gestas psi x1000 | Blue Dot Greizs pei 1990 | 5400 Grains pai 11000 |
|------------|-------------------|-----------|-----------------------------------|--|-----------------|--------------|------------------|---------------------------|-----------------|-------------|-------------------------------|---|---|---|
| Coat. from | Prev. Page | : Veloci | ity - 1,200 • Si | bot Wt - 1 | - | | | | ****** | | | | | |
| | | | | | 40000 | | تعمدا | | Acces. | | | 4 | | 4 |
| | | | | Rem. TGT 12 Win, WAA12SL | 18.0 18.0 | 9.2 10.2 | 19.0 | 8.0 8.2 | 19.5 | 7.9 5.5 | | | | |
| | | | | Win. WT12 (Crange) | 17.5 | 10.6 | 19.0 | 8.4 | 19.5 | 8.1 | | | l | |
| | 1 | 1,255 | Win. 209 | Claybuster 1100-12 | 19.0 | 9.3 | 20.5 | 8.8 | 21.0 | 8.2 | | 0.0000000000000000000000000000000000000 | 000000000000000000000000000000000000000 | |
| | | | | Duster - Green | 9 | | 20.0 | 8.9 | 20.5 | 9.2 | | | | |
| | | | | Fed. 12SO Purple PC | 19.0 | 9.7 | 20.0 | 10.0 | 21.5 | 8.7 | | | | |
| | | | | Sem. TGT 12 | 19.5 | 9.8 | 20.0 | 9.1 | 21.0 | 6.8 | | | | |
| | | | | Wio. WAA12\$L | 19.0 | 10.5 | 20.0 | 9.5 | 21.0 | 9.2 | | | | |
| | 1 | 1,290 | OCI 209M Wig. 209 | Win. WAA12 (White) | 18.5 | 10.4 | | | 21.5 | 9,9 9,1 | | 3 000000000 | | |
| | | | W112. 2019 | Chybuster 1100-12 Duater - Green | 19.5 | 5.9 | 21.5 | 9.2 9.7 | 22.0 22.0 | 9.5 | | | | |
| | | | | Fed. 12C1 | 26.0 | 10.2 | 200 | | 21.0 | 8.8 | | | | |
| | | | | Fed. 1283 | 26.0 | 9.9 | | | 22.5 | 9.7 | | | | |
| | | | | Fed. 128O | 22.0 | 10.4 | 20.5 | 10.2 | | | | | | |
| | | | | Purple PC Rem. RXP12 | 29.0 29.0 | 10.4 | l | | 22.0 | 9.0 8.8 | | | | |
| | | | | Rem. TGT 12 | 20.0 | Local | 21.0 | 9.5 | 22.0 | 9.7 | | | | |
| | | | | Win. WAA12 (White) | 19.0 | 10.5 | | | 20.0 | 8.7 | | | | 5 |
| 00000000 | 92200000 | V 444 | norman r | Win, WAA12SL | 19.5 | 11,2 | 21,5 | 10.3 | 21.5 | 9,5 | 000000000 | | 00000000000 | L0000000000000000000000000000000000000 |
| 00000004 | 1/6 | 1,090 | CCI 209M CCI 209SC | Win. WAA12 (White) Win. WAA12 (White) | 17,0 | 9.8 | 17.0 | 7.9 | 00000 | | 000000000 | 45000000000 | 88888888888 | |
| | | | Fed. 209A | Win. WAA12 (White) | lecces: | | 17.0 | 8.7 | 1000 | | 1 00000000 | 200000000000000000000000000000000000000 | 000000000000000000000000000000000000000 | 000000000000000000000000000000000000000 |
| | | Fig. 616 | Win. WAA12 (White) | 16.0 | 5.9 | | | | | | | | | |
| | | Rem. 209P | Win. WAA12 (White) | 17.0 | 8.1 | 17.0 | 8.0 | 1 | | | 900000000 | | | |
| | | Win. 209 | Claybuster 1100-12 Duster-Biue | 16.0 15.5 | 8.0 10.3 | 17.0 17.0 | 7.6 8.3 | 17.5 | 7.8 8.3 | | | | | |
| | | | Fed. 1283 | 17.0 | 10.4 | 1.770 | 0.5 | 18.0 | 9.7 | | | | | |
| | | | Hornady Versalite | 16.5 | 9.0 | | | 17.5 | 7.8 | | | | | |
| | | | Red PC | 16.0 | 9.1 | 17.0 | 7.3 | 18.0 | 7.8 | | | | | |
| | | | Rem. Fig. 8 Rem. RXP12 | 16.0 16.5 | 8.3 9.0 | 17.5 | 8.1 9.1 | 18.9 | 7.4 7.6 | | | | | |
| | | | | Win, WAA12 (White) | 16.0 | 9.5 | 17.0 | 9.0 | 17.5 | 8.1 | | | | |
| | | | | Win, WAA12SL | 16.0 | 9.3 | 16.8 | 8.4 | 18.0 | 6.0 | | | | |
| | 4440000 | | | Win. WT12 (Orange) | l | | | | 16.5 | 9.0 | | | | |
| 9333333 | 1/8 | 1,145 | OCI 209M OCI 209SC | | 17.5 18.0 | 10.4 | | | 18.5 | 10.1 9.7 | | 9 | 888888888888888888888888888888888888888 | |
| | | | CAL 2050C | Win. WAA12 (White) | 17.5 | 10.6 | 18.5 | 9.6 | 19.5 | 10.3 | | 1 | | |
| | | | | Windiammer | 15.0 | 9.9 | | | 20.5 | 9.5 | | | | |
| | | | Ped. 209A | Clasbuster 5118-12 | 17.0 | 9.6 | | | 18.5 | 8.4 | | | 1 | |
| | | | | Hornady Versalite Red PC | 17.0 17.0 | 10.3 | | | 18.5 | 9.3 8.7 | | | | |
| | | | | Rem. Fig. 6 | 17.0 | 9.8 | | | 18.5 | 8.6 | | | | |
| | | | | Win. WAA12 (White) | 17.0 | 10.6 | 18,5 | 9.8 | 18.0 | 9,3 | | | | |
| | | | | Windjammer | 17.0 | 9.0 | | | 18.5 | 8.2 | | | | |
| | | | Fio. 616 Rem. 209P | Win, WAA12 (White) Win, WAA12 (White) | 17.0 17.5 | 10.2 6.7 | 19.0 | 8.7 | 18.5 | 9.4 | | | | |
| | | | Wis. 209 | Claybuster 3118-12 | 16.8 | 9.1 | 18.5 | 9.0 | 19.1 | 9.3 | 000000000 | 0000000000 | 000000000000 | 000000000000000000000000000000000000000 |
| | | | | Duster-Bime | 16.5 | 19.6 | 18.0 | 9.0 | 19.0 | 9.3 | | | | |
| | | | | Fed. 12C1 | 17.5 | 9.4 | | | 18.5 | 8.1 | | 1 | | |
| | | | | Hornady Versalite Red PC | 18.0 17.5 | 9.5 9.5 | 18.5 | 8.6 | 19.5 19.0 | 8.0 8.3 | | | | |
| | | | | Rem. Fig. 8 | 17.5 | 9.9 | 19.0 | 9.4 | 19.0 | 8.6 | | | | |
| | | | | Rem. FXP12 | 17.0 | 8.4 | 19.0 | 9.4 | 18.0 | 8.1 | | | | |
| | | | | Win. WAA12 (White) | 17.0 | 10.0 | 18.0 | 9.4 | 18.0 | 8.5 | | | | |
| | | | | Win. WT12 (Orange) Windjemmer | 16.5 17.5 | 10.7 9.3 | 18.5 | 9.6 8.1 | 18.0 | 9.4 8.4 | | | | 200 |
| 0000001 | 176 | 1,200 | OCI 209M | | 18.5 | 10.5 | | 000000 | 20.0 | 10.4 | 21.5 10.5 | a <mark>1</mark> 000000000 | 000000000000000000000000000000000000000 | |
| | | | OCI 2095C | Sem. Fig. 8 | 18.5 | 10.4 | 1 | | 22.0 | 10.4 | | 1 | | |
| | | | | Win. WAA12 (White) | 9 | | 19.5 | 16.1 | 20.5 | 10.7 | | | | 2000 |
| | | | Ted. 209A | Windjammer Clasbuater 5118-12 | 18.5 | 10.5 | | | 22.0 19.5 | 10.2 9.3 | 0.000.000 | | ***** | 0.000.000.000.000.000.000 |
| | | | THE MAN | Hornady Versalite | 18.0 | 10.7 | | | 19.5 | 10.4 | | | | |
| | | | | Red PC | 18.0 | 10.0 | | | 19.5 | 10.5 | | | | |
| | | | | Rem. Fig. 8 | 18.5 | 10.2 | 1 | | 19.5 | 9.4 | | | | |
| | | | | Win. WAA12 (White) Windjammer | 19.0 | 10.0 | 19.5 | 10.8 | 19.0 20.0 | 9.2 | | | | |
| | | | Fio. 616 | Win, WAA12 (White) | 18.0 | 10.5 | 000000 | | 20.0 | 9.5 | 21.5 9.1 | 000000000000000000000000000000000000000 | 000000000000 | 065555555555555555 |
| | | | Rem. 209P | Win. WAAL2 (White) | 19.0 | 9.5 | 21.0 | 9.6 | 20.0 | 9.8 | 23.0 7.5 | | | |
| | | | Wiss, 209 | Claybuster 3118-12 | 18,5 | 10.5 | 19.5 | 10.2 | 20.0 | 9.8 | 22.5 8.8 | | | |
| | | | | Duster-Blue Fed. 12C1 | 19.0 18.5 | 10.8 9.7 | 19.5 | 16.0 | 20.0 19.5 | 9.4 9.0 | 22.0 8.3 22.0 8.9 | | | |
| | | | | Hornady Versalite | 19.0 | 9.7 | 1 | | 21.0 | | 22.0 8.3 | | | |

12-Gauge, 2 3/4 inch Win. Plastic AA Shells

| | Social Houses) | Velocity | Printer | Wed | Rad Graias | | Americ Grains | an Select pai 2000 | Green Green | | Grains | ique pri x1000 | Hi Gratia | roo psi 11000 | Files Grains | | 3400 Gražna paš 12000 |
|-----------|-------------------|-----------|-----------------------|-----------------------------|---------------|------|------------------|--------------------------|----------------|-------------|--------|----------------------|--------------|---------------------|-----------------|------|---|
| out, frou | a Prev. Pag | e: Veloci | ity - 1,200 • Si | bot Wt 1 1/8 | | | | | | | | | | | | | |
| | | | | Red PC | 18,5 | 10.5 | 20.0 | 10.1 | 20.5 | 9.8 | 23.5 | 9.5 | 1 | | 1 | | 9000 |
| | | | | Rem. Fig. 8 | 18.5 | 10.7 | 20.0 | 9.8 | 20.5 | 9.5 | 22.5 | 8.3 | 1 | | 1 | | |
| | | | | Rem. RXP12 | 18.5 | 9.8 | 20.5 | 10.7 | 19.5 | 5.9 | 22.0 | 8.7 | | | 1 | | |
| | | | | Win. WAA12 (White) | 18.0 | 15.4 | 19.5 | 10.5 | 19.5 | 9.3 | 21.0 | 9.3 | 1 | | 1 | | |
| | | | | Win. WT12 (Crunge) | 17.0 | 10.7 | 19.5 | 10.7 | 20.0 | 9.2 | 21.5 | 9.0 | 1 | | 1 | | |
| | | | | Windjammer | 18.5 | 9.9 | 20.5 | 9.2 | 21.9 | 9.0 | 22.5 | 8.2 | | | | | |
| 555555 | 1 1/6 | 1,250 | Fac. 615 | Win. WAA12 (White) | 22.0 | 10.5 | 55555 | | 23.5 | 10.1 | 10000 | | 1888 | | 55555 | | |
| | | | Rem. 209P | Rem. Fig. 8 | | | 22.5 | 9.4 | 1 | | | | 1 | | 1 | | |
| | | | | Win. WAA12 (White) | | | | | | | 24.0 | 9,3 | | | | | |
| | | | Wis. 209 | Clasbuster 3118-12 | | | 20.5 | 10.7 | I | | L | | | | | | |
| | | | | Fed. 12C1 | | | 100000 | | 21.0 | 10.2 | 23.0 | 9.5 | 25.0 | 9.4 | | | |
| | | | | Hornady Versalite Red PC | | | 21.5 | 10.8 | 22.0 | 9.9 10.3 | 24.5 | 9.4 10.0 | 24.5 25.0 | 9,2 9,1 | | | |
| | | | | Rem. Fig. 8 | | | 41.2 | 1000 | 22.0 | 10.3 | 24.0 | 9.0 | 25.0 | 9.1 | | | |
| | | | | Rom. RXP12 | | | 21,0 | 10.8 | 21.0 | 9.5 | 23.0 | 9.2 | 25.0 | 9.2 | | | |
| | | | | Win, WAA12 (White) | | | *** | 100,00 | 21.5 | 10.5 | 23.5 | 9.4 | 25.0 | 9.5 | | | |
| | | | | Win. WT12 (Orange) | 00000 | | (0000) | | 21.5 | 9.8 | 22.5 | 9.5 | 25.5 | 9.4 | | | |
| | 1 1/8 | 1.310 | CCI 209M | Win, WAA12 (White) | | | *********** | | MANUE. | | 25.5 | 9.7 | | | ********** | | 000000000000000000000000000000000000000 |
| 888888 | 30030000 | :5555 | Rem. 209P | Win. WAA12 (White) | B00000 | | 60000 | | 80000 | | 26.0 | 9.7 | 27.0 | 8.1 | 88888 | | 000000000000000000000000000000000000000 |
| | | | Win. 209 | Hornady Versalite | | | | | | | 25.0 | 10.3 | 26.5 | 9.9 | | | |
| | | | | Red PC | 9 | | l | | 23.0 | 10.2 | 25.0 | 9.3 | | | 1 | | |
| | | | | Rem. RXP12 | | | l | | | | 24.0 | 9.8 | 26.5 | 9.1 | 1 | | |
| | | | | Win. WAAL2 (White) | 8 | | l | | .1 | | 25.5 | 30.0 | 26.5 | 9.3 | 1 | | 8 |
| | 11/4 | 1,220 | CCI 209M | Win. WAALZF114 | | | | | | | 23.5 | 9.9 | 24.0 | 9.1 | | | |
| | | | Fio. 616 | Win, WAA12F114 | | | | | | | 23,0 | 10.3 | 25.0 | 9.8 | | | |
| | | | Rem. 209P | Win, WAA12F114 | | | | | | | 24.0 | 10.0 | 25.5 | 8.3 | | | |
| | | | Wiss. 209 | Claybuster 1138-12 | 9 | | l | | 1 | | | | 25.0 | 9.6 | 1 | | |
| | | | | Formady Verseline | | | l | | 1 | | 24.0 | 9.8 | 25.5 | 8.5 | 1 | | |
| | | | | Rem. RP12 | 8 | | l | | 1 | | 22.5 | 9.5 | | | 1 | | |
| | | | W | Win. WAAL2FL14 | | | | | | | 23.5 | 9.9 | 25.0 | 8.4 | | | ******* |
| ****** | 1 1/4 | 1,275 | Rem. 209P Win. 209 | Win. WAA12F114 Rem. SP12 | | | **** | | ***** | | **** | | 27.0 | 9.4 | 35.0 | 8.2 | |
| | 1 1/4 | 1,350 | Win. 209 | Rem. RP12 | haan | | MANA | | - | | h | | | | 35.0 | 10.2 | 000000000000000000000000000000000000000 |
| | 1 2/4 | 1,350 | WIEL 2009 | Sem. SP12 | | | | | | | | | | | 37.0 | 10.3 | |
| | | | | Win WAA12R | 00000 | | 00000 | | 1000 | | | | | | 37.5 | 10.2 | 000000000000000000000000000000000000000 |
| 0.0000000 | 1 1/4 | 1,375 | Wis. 209 | Clasbuater 1138-12 | | | KRRRRR | | | | **** | | **** | | 37.5 | 10.6 | XXXXXXXXXXXXXXX |
| | 1 3/6 | 1,200 | Win. 209 | Rem, RP12 | lana. | | 20000 | | 10000 | | lana. | | 1000 | | 53.0 | 10.4 | |
| | 1 3/8 | 1,240 | Win. 209 | Rem. SP12 | 00000 | | 000000 | | 100000 | | Posses | | 000000 | | 34.5 | 10.3 | 000000000000000000000000000000000000000 |
| | 1 1/2 | 1,150 | Wim. 209 | Rem. RP12 | 100000 | | | | 10000 | | 10000 | | 2000 | | 30.5 | 10.8 | |
| | | | | Win WAA12R | | | 100000 | | 10000 | | 1000 | | | | 31.0 | 10.4 | |
| | 1 1/2 | 1,205 | Win. 209 | Claybuster 1138-12 | 1 | | | | 1 | | 1 | | 1 | | 53.7 | 30,3 | |

12-Gauge, 2 3/4 inch Win. Polyformed with Plastic Wad

| Shet Wt. (ouzon) | Velocity | Primer | Wed | Ret Grates | Det psi x1660 | | n Select pal 1880 | Green Greens | | Uzágae Grains psi 1200 | Ha Grains | Ko Grains | e Dot Jul 11660 | 2400 Grains Jui ±1000 |
|---------------------|----------|-----------|--------------------|---------------|---------------------|---------|-------------------------|----------------------|-------------------|------------------------------|--------------|--------------|-----------------------|---|
| | 1,295 | OCI 209M | Win, WAA12F1 | 21.0 | 8.4 | 600000 | | 23.0 | 7.5 | 60000000 | deces | 00000 | | (22222222222222222 |
| ********** | | Fed. 209 | Win. WAA12F1 | 21.0 | | ***** | | | | | | ***** | | |
| | | Fig. 615 | Win, WAA12F1 | 21.5 | | 0000000 | | 23.0 | 7.4 | beeceses | 3 00000 | 000000 | | 000000000000000000000000000000000000000 |
| | | Rem. 209P | Win. WAA12F1 | 21.5 | | 555555 | | | | 600000000 | | | | |
| | | Win. 209 | Fed. 128O | 21.0 | | **** | | | | | 8 | | | |
| | | | Purple PC | 21.5 | 7.9 | | | 24.0 | 5.8 | | 30000 | | | |
| | | | Rem. Fig. 8 | 21.5 | | | | 23.0 | 5.8 7.8 7.0 | | | | | |
| | | | Win, WAAL2FL | 22.0 | | | | 23.5 23.5 18.5 | 7.0 | | | | | |
| 1 1/8 | 1.095 | OCI 209M | Win, WAA12 (White) | 17.0 | | ***** | | 18.5 | 7.0 | | | ***** | | |
| | | Pio. 616 | Win. WAAL2 (White) | 17.0 | | | | 18.5 | 7.0 7.1 | | 9,0000 | 0000 | | |
| | | Rem. 209P | Win, WAA12 (White) | 16.5 | | | | | | | | | | |
| | | Win. 209 | Fed. 1253 | 17.5 | 7.8 | | | 10000 | | 60000000 | X 88888 | 100000 | | [000000000000000000000000000000000000 |
| | | | Hornady Verselite | 16.5 | 7.9 | 600000 | | 18.5 | 6.7 | 10000000 | X | B00000 | | |
| | | | Red PC | 17.0 | 7.5 | 600000 | | 10000 | | | 30000 | 100000 | | |
| | | | Rem. Fig. 5 | 17.0 | 6.9 | | | 18.5 | 6.7 | | | | | |
| | | | Win. WAA12 (White) | 16.5 | 7.8 | | | | | | 4 | | | |
| 1 1/8 | 1,145 | CCI 209M | Win. WAA12 (White) | 18.0 | 9.0 | | | 20.0 | 7.4 | | 1 | | | |
| | | Fig. 615 | Win. WAA12 (White) | 18.5 | 8.3 | | | 20.5 | 5.8 | | | | | |
| | | Rem. 209P | Win. WAA12 (White) | 18.5 | 8.1 | | | | | | | | | |
| | | Win. 209 | Fed. 1253 | 18.0 | 8.9 | | | | | | 4000 | | | |
| | | | Hormady Versalite | 15.0 | 8.6 | | | 20.9 | 7.2 | 00000000 | 900000 | 00000 | | |
| | | | Red PC | 18.5 | 7.8 | | | 20.5 | 6.8 | 0000000 | | | | |
| | | | Rem. Fig. 8 | 18.0 | 8.0 | | | 19.5 | 7.0 | 10000000 | | | | |
| | | | Win. WAA12 (White) | 18.0 | 8.5 | | | 20.5 | 7.3 | | 1000 | | | |

12-Gauge, 2 3/4 inch Win. Polyformed with Plastic Wad

| Sus. (cunc | | Velocity | Priner | Wed | Red Greies | Dat psi 21000 | American Select Grains pai 2000 | Green Greins | Det pei 11000 | Us Genéra | ique pri x1000 | Herco Grains poi 1800 | Blac Dot Goties pel 2000 | 3400 Grains pai 12000 |
|---------------|----------|-----------|-----------------|--------------------|---------------|---------------------|---|------------------------------|---------------------|--------------|----------------------|-----------------------------|---|--|
| out from Pr | rev. Pag | e: Veloci | ty - 1,145 • Si | bot Wt 1 1/8 | | | | | | | | | | |
| 18 | 8 | 1,200 | Fig. 615 | Win. WAAL2 (White) | 19.5 | 9.3 | L | 21.5 | 7.6 | 23.5 | 7.2 7.9 | I | 1 | NAME OF THE OWNER OWNER OF THE OWNER OWNE |
| | | | Rem. 209P | Win. WAA12 (White) | 19.5 | 9.0 | | | | 23.5 | 7.9 | | 000000000000000000000000000000000000000 | |
| | | | Wint. 209 | Fed. 1253 | 19.0 | 9.6 | | 21.5 | 8.3 | 23.5 | 8.3 | | | |
| | | | | Hornady Versalite | 19.0 | 9.4 | | 21.5 | 8.3 7.7 | 23.0 | 7.7 | 1 | | |
| | | | | Red PC | 19.5 | 8.4 | | 22.9 | | 23.5 | 7.6 | 1 | | |
| | | | | Rem. Fig. 8 | 19.0 | 8.7 | | 21.5 | | 23.0 | 7.4 | | | |
| | | | | Win, WAA12 (White) | 19.5 | 8.9 | | 22.9 | 8.7 | 23,0 | 7.6 8.5 | | | |
| 1.07 | 0 | 1,255 | CCI 209M | Win, WAA12 (White) | 21.5 | 10.0 | | 23.0 | | 25.0 | 8.5 | 666666666 | 50000000000 | |
| | | | Fin. 615 | Win. WAA12 (White) | 21.5 | 10.1 | | 23.0 | 8.6 | 25.0 | 8.0 | | | |
| | | | Rem. 209P | Win. WAA12 (White) | 21.5 | 9.5 | | | | 25.5 | 7.7 | | 000000000000000000000000000000000000000 | |
| | | | Win. 209 | Fed. 1253 | 9 | | | 25.5 | 5.6 | 25.0 | 8.4 | 1 | | |
| | | | | Hornady Versaline | 21.5 | 9.7 | | 24.0 | | 25.0 | 8.0 | | | |
| | | | | Red PC | 21.0 | 9.9 | | 23.5 | | 25.0 | 7.9 | 1 | | |
| | | | | Win. WAAL2 (White) | 21.0 | 9.4 | | 25.5 25.0 24.5 25.0 | 8.8 | 25.0 | 8.5 | | | |
| 11/ | • | 1,310 | CCI 209M | Win. WAAL2 (White) | 22.0 | 9.4 | 000000000000000000000000000000000000000 | 25.0 | 9.0 | 26.0 | 8.5 | | 000000000000000000000000000000000000000 | |
| | | | Fio. 615 | Win. WAA12 (White) | 22.5 | 10.6 | | 24.5 | 8.9 8.8 | 27.5 | 9.2 9.6 | | | |
| | | | Rem. 209P | Win. WAAL2 (White) | 22.5 | 10.2 | | 25.0 | | 27.0 | | | 500000000000 | |
| | | | Wiss. 209 | Fed. 1253 | | | l | 24.5 | | 26.0 | 9.4 | 1 | | |
| | | | | Hormady Verselite | 22.5 | 10.3 | l | 25.0 | | 26.5 | 9.6 | 1 | | |
| | | | | Red PC | 22.5 | 10,2 | l | 25.5 | | 26,5 | 8.6 | 1 | | |
| | | | | Win, WAA12 (White) | 9 | | l | 25.5 | 6.9 | 26.5 | 8.6 | l | 1 | |

12-Gauge, 3 inch Fed. Hi Power Plastic Shells with Rolled Paper Base Wad

| Short Wil. (onunces) | Westy | Priner | Wisd | Red Det Grains pal x1000 | Azuerican Select Grains pai x1000 | Green Dot Greins pai x1000 | Unigae Gesiau pai | Greiso | 500 pri 71000 | Kin Grains | Det pai x1000 | 2600 Grains pai x1000 |
|-------------------------|-------|-----------|--------------------|--------------------------------|---|---|----------------------|--------|---------------------|---------------|---------------------|-----------------------------|
| ^^^^ | ***** | ^^^^ | | LAlber | i | 1 | LHill. | | | i | _HOS. | |
| 1 3/6 | 1,295 | Fed. 209A | Fed. 1288 | lananananan | | | basasasas | 30.5 | 10.0 | terre e | | |
| | | | Rem. RXP12 | | | | | 30.5 | 9.3 | 38.0 | 9.0 | |
| | | | Win. WAA12 (White) | | | | | 30.5 | 9.7 | 58.0 | 8.6 | |
| 1 3/8 | 1,350 | Fed. 209A | Fed. 1284 | | | | | | | 40.0 | 9.4 | |
| | | | Rem. SP12 | | | 1 | | 1 | | 40.0 | 8.9 | |
| 1 1/2 | 1,315 | Fed. 209A | Fed. 1253 | 10000000 | | 800000000000000000000000000000000000000 | | 1000 | | 38.0 | 9.7 | |
| | | | Rem. RXP12 | | 000000000000000000000000000000000000000 | 0000000000 | | | | 38.5 | 9.6 | |
| | | | Win. WAA12 (White) | | | 0000000000 | | | | 37.5 | 9.8 | |
| 1.5/8 | 1,289 | Fed. 209A | Rem. SP12 | | | | | | | 39.0 | 10.4 | |
| 1 3/4 | 1.245 | Fed. 209A | Rem. RP12 | | | 100000000000000000000000000000000000000 | 1 00000000 | | | 39.0 | 10.5 | |
| 1 7/8 | 1,155 | Fed. 209A | Rem. RP12 | | | T | T | 1 | | 34.0 | 10.5 | |
| | | | Sem. SP12 | | | 1 | l | 1 | | 36.0 | 50.3 | 8 |

12-Gauge, 3 inch Fed. One-Piece Plastic Shells

| Short Wit. (counces) | Véndy | Printer | Wed | Red Det Grains pai | American Select Gesins pai | Green Dot Greins pai | Unigne Gosios psi | Hamo Greins pui | Kine Dot Grains pai | 2000 Greins pai |
|-------------------------|-------|-----------|----------------------------------|-----------------------|--|---|----------------------|------------------------|------------------------|--|
| | | | | x1000 | x1000 | x1000 | x1000 | x1000 | x1000 | r1000 |
| 1 3/5 | 1,295 | Fed. 209A | Fed. 1283 Rem. RXP12 | | | | | 31.0 10.5 32.0 10.1 | 60.5 7.9 | |
| | | | Win. WAAL2 (White) | | | | | | 38.0 9.8 | |
| 1 3/8 | 1,350 | Ped. 209A | Rgm, RXP12 Win, WAA12 (White) | | | 1 | | | 42.0 8.0 44.0 9.9 | NACO DE LA COLONIA DE LA COLON |
| 1 1/2 | 1,315 | Fed. 209A | Fed. 1254 Rem. SP12 | | | | | | 40.0 9.7 40.0 9.0 | |
| 1 5/8 | 1,289 | Fed. 209A | Fed. 1254 Rem. SP12 | | | | | | 46.0 10.1 40.0 9.4 | SOURCE STATE OF THE STATE OF TH |
| 13/4 | 1,245 | Fed. 209A | Rero. RP12 | 888888888888 | \$ \$55555555555555555555555555555555555 | 100000000000000000000000000000000000000 | 10000000000 | 88888888888 | 39.0 10.5 | |
| 1 7/8 | 1,155 | Fed. 209A | Rem. SP12 | | | | | | 36.5 9.9 | *************************************** |

12-Gauge, 3 inch Federal High Power Plastic with 7/16 Fiber Base Wad

| Shot Wi. (outsits) | Velocity | Primer | Wad | Red Det Grains pal x1600 | American Select Govies pai x1000 | Green Dot Greiss pei x1000 | Unigae Gosias psi 2000) | Hecro Greino pai 2000 | Kine Dut Grains pai x1660 | 2000 Grains pai 21000 |
|-----------------------|----------------|-----------------------|-------------------------|--------------------------------|--|----------------------------------|-------------------------------|-----------------------------|---------------------------------|-----------------------------|
| 17/8 | 1,175 1,150 | Fed. 209A Win. 209 | Win WAA12R Rem. SP12 | | | | | | 52.5 11.2 53.0 11.4 | |

12-Gauge, 3 inch Fiocchi Plastic Shells

| Shot WL (OUNCES) | Velocity | Priner | Wed | Red Det Grains psi ±1000 | American Select Gosias psi x1000 | Green Dut Greins pei x1000 | | Havus Grains pai x1000 | Non-Det Grains pai x1000 | 3490 Grains psi ±1000 |
|-------------------------|----------|------------|--------------------|---|---|---|---|---|---|---|
| 1.3/8 | 1,295 | CCI 209M | Fed. 1253 | barrana. | | 100000000 | 10000000 | 30.0 10.0 | 37.0 9.0 | . |
| · | | Fin. 615 | Fed. 12S5 | | | | | 31.5 9.1 | | ····· |
| | | | Fiocchi FTW1 | | | | | 31.0 9.2 | | |
| | | | Rem. RXP12 | 9 | | | | 32.5 8.6 | | |
| | | | Wip. WAA12 (White) | | | | | 31.5 8.9 | | |
| 3000000000 | 200000 | Wiss. 2009 | Fed. 1253 | 000000000000000000000000000000000000000 | 000000000000000000000000000000000000000 | 000000000000000000000000000000000000000 | p 000000000 | 29.5 10.6 | 37.5 8.8 | 000000000000000000000000000000000000000 |
| 1 3/8 | 1,350 | CCI 209M | Fed. 1254 | | | | L | | 38.0 10.4 | 7 |
| | | Fio. 616 | Fed. 1254 | | 000000000000000000000000000000000000000 | 1000000000 | | 32.0 10.7 32.5 10.1 | 000000000000000000000000000000000000000 | |
| | | | Rem. SP12 | | | | | 32.5 10.1 | | |
| | | Wiss. 209 | Fed. 1254 | | | I | l | l | 38.5 30.3 | |
| 1 1/2 | 1,315 | CCI 209M | Fed. 1284 | | 000000000000000000000000000000000000000 | 0000000000 | | | 38.0 10.4 | |
| | | Fig. 616 | Fed. 1254 | | | | | | 39.0 10.3 | |
| | | | Rem. SP12 | | | 1 | l | 1 | 39.0 9.7 | |
| | | Win. 209 | Fed. 1254 | 1 | 000000000000000000000000000000000000000 | • | 4 000000000000000000000000000000000000 | 1 00000000 | 39.0 10.6 | |
| 1.5/8 | 1,289 | Fio. 615 | Fed. 1254 | | | | | | 59.0 10.7 | |
| | | | Rero. SP12 | 2000 | l | 1 | | l | 39.5 9.7 | 9000 |
| 1.2/8 | 1,155 | Fig. 615 | Rem. RP12 | 000000000000000000000000000000000000000 | 500000000000000000000000000000000000000 | 100000000000000000000000000000000000000 | 100000000 | 600000000000000000000000000000000000000 | 54.5 10.7 | 000000000000000000000000000000000000000 |

12-Gauge, 3 inch Rem.-Peters SP Plastic Shells with Separate Plastic Base Wad

| Shot Wi. (outsets) | Váschy | Primer | Wad | Red Det Grains pel x1600 | American Select Gostes put x1000 | Green Dot Greits psi x1000 | Unique Greins psi x100) | Hesto Greins pul :1000 | | 2600 Grains psi x1000 |
|-----------------------|--------|----------|---|--|--|----------------------------------|-------------------------------|---|------------------------------------|---|
| 1 3/8 | 1,295 | OCI 209M | Fed. 1255 Rem. RXP12 Win. WAA12 (White) | Name of the last o | | | | 29.5 30.0 30.0 9.2 30.0 10.0 | | 100000000000000000000000000000000000000 |
| 1 3/8 | 1,350 | CCI 209M | Fed. 1283 Rem. RXP12 Win. WAA12 (White) | | | | | | 42.0 8.4 42.5 8.0 42.0 8.5 | |
| 1 1/2 | 1,315 | OCI 209M | Fed. 1254 Rem. SP12 | | | | | | 39.5 9.8 40.0 9.4 | gr |
| 1 5/8 | 1.280 | CCI 209M | Fed. 1254 Rem. SP12 Win, WAA12F114 | | | | | | 38.5 10.2 39.0 9.8 38.5 10.5 | |
| 1.3/4 | 1,245 | CCI 209M | Rem. RP12 | | ********** | | | | 38.5 10.7 | |
| 1.7/8 | 1,155 | CCI 209M | Rem. RP12 | 000000000000000000000000000000000000000 | | | | 000000000000000000000000000000000000000 | 34.0 10.3 | 000000000000000000000000000000000000000 |

12-Gauge, 3 1/2 inch Fed. Plastic Shells

| Shot Wi. (0120%) | Velocity | Prison | Wed | Red Det Grains pei x1860 | American Select Grains pai ±1000 | Green Dot Grains pai x1000 | Unique Grain pai x100) | Hereo Graino psi 1900 | Nine Det Greins pai x1000 | 3400 Grains pai xi000 |
|---------------------|----------|-----------|----------------|--------------------------------|---|----------------------------------|------------------------------|---|---------------------------------|--|
| 1 7/8 | 1,200 | CCI 209M | Fed. 12SO | 3000 | I | 1 | l | 1 | 41.0 9.1 | 19000 |
| | | | Rem. R12L | 8 | | | | | 40.5 9.6 | |
| | | | Win. WAA12SL | 9 | | | | | 41.0 8.9 | |
| | | Win. 209 | Fed. 125O | 04 0000000000 | 66666666666 | 0000000000 | 0000000000 | 0000000000 | 40.0 9.0 | B0000000000000000000000000000000000000 |
| 1 7/8 | 1,255 | OCI 209M | Fed. 125O | | | | | | 43.0 9.8 | |
| | | | Rem. R121. | 8 | | 1 | | | 42.5 10.1 | |
| | | | Win. WAA12SL | | | | | | 43.0 9.5 | |
| | | Wiss. 209 | Fed. 125O | | | 1 | | | 42.5 10.1 | |
| 2 | 1,220 | CCI 209M | Fed. 128O | | | | | | 42.5 10.0 | |
| | | | Rem. R121. | 8 | | 1 | | | 42.0 10.0 | |
| | | | Win. WAA12SE | | | 1 | | | 42.5 9.8 | |
| | | Win. 209 | Fed. 125O | | | | | 000000000000000000000000000000000000000 | 41.0 9.9 | |
| 2 1/4 | 1,159 | CCI 209M | Fed. 1254 | 0 | | | | | 58.5 31.3 | |
| | | | Rem. SP12 | 9 | | 1 | | | 39.5 11.2 | |
| | | | Win. WAA12P114 | | | | | | 38.5 11.1 | |
| | | Win. 209 | Fed. 1254 | | 000000000000000000000000000000000000000 | 10000000000 | 0000000000 | 0000000000 | 38.0 10.9 | |

12-Gauge, 3 1/2 inch Rem. Plastic SP

| Shot WL (ounces) | Velocity | Priner | Wed | Red Det Grains psi ±1000 | American Select Gosias psi x1000 | Green Det Greins psi ±1000 | Unique Greim psi x1000 | Hasus Grains pai 1900 | Nor Det Grains pai ±1000 | 3400 Grains psi x1000 |
|---------------------|----------|-----------|--------------|---|---|---|------------------------------|---|--------------------------------|--|
| 1 7/8 | 1,200 | CCI 209M | Fed. 128O | ú | 1 | 1 | 1 | ı | 38.0 10.1 | NAME AND ADDRESS OF THE PARTY O |
| 1 110 | 1,100 | CCI LUJUI | Bom. R121. | | | | | | 38.0 30.3 | |
| | | | Win. WAA12SL | | | | | | 38.0 10.0 | |
| | | Win. 209 | Rem. R121. | | | | | *** | 57.5 10.5 | |
| 1 7/8 | 1,255 | CCI 209M | Fed. 128O | | | | | | 39.0 10.6 | |
| | | | Rem. R121. | | | 1 | | | 39.0 10.9 | |
| | | | Win, WAA12SE | | | | | | 39.0 10.4 | |
| | | Win. 209 | Rem. R121. | 60 (00000000000000000000000000000000000 | 500000000000000000000000000000000000000 | 100000000000000000000000000000000000000 | | 000000000000000000000000000000000000000 | 38.5 1L0 | 0.0000000000000000000000000000000000000 |
| 2 | 1,220 | CCI 209M | Fed. 128O | | | | | | 39.5 10.8 | |
| | | | Rem. R121. | | | | | | 39.5 11.1 | |
| | | | Win. WAA12SL | | | | | | 39.0 10.7 | 2000 |
| | | Win. 209 | Rem. R121. | | | 000000000000000000000000000000000000000 | | | 39.0 11.2 | |
| 2 1/4 | 1,150 | CCI 209M | Fed. 1254 | | | | | | 57.0 11.1 | |
| | | | Rem. SP12 | | l | 1 | | | 38.0 31.3 | |
| | | Win. 209 | Rem. SP12 | | | 000000000000000000000000000000000000000 | | | 58.0 11.5 | |

12-Gauge, 3 1/2 inch Win. Plastic Shells

| Shot Wt. (ourses) | Velocity | Priner | Wid | Red Det Grains pri ±1(60 | American Select Grains pal 21800 | Green Dot Greins pai ±1000 | Unique Grain pai 12000 | Heren Grains pui ±2000 | Kne Dat Grains pai ±1000 | 2490 Godas pai z1000 |
|----------------------|----------|----------|--------------|--------------------------------|---|----------------------------------|------------------------------|---|--------------------------------|---|
| 1.7/8 | 1,200 | CCI 209M | Win, WAA12SE | 8 | I | 1 | I | 1 | 38.0 10.1 | 1000 |
| | | Win. 209 | Fed. 125O | | | | | | 38.5 10.6 | |
| | | | Rem. R12L | | | | | | 58.5 10.3 | |
| | | | Wig. WAA12SL | | 600000000000000000000000000000000000000 | 10000000000 | | 0000000000 | 38.5 10.0 | |
| 1.7/8 | 1,255 | OCI 209M | Win, WAA12SE | | | | | | 39.5 10.5 | |
| | | Win. 209 | Fed. 128O | | | 0000000000 | | 000000000 | 60.5 10.7 | |
| | | | Rem. R12L | | 000000000000000000000000000000000000000 | 0000000000 | | 0000000000 | 40.0 10.7 | |
| | | | Win. WAA12SL | | | 0000000000 | | | 40.0 10.8 | |
| 2 | 1,229 | CCI 209M | Win. WAA12SE | | | | | | 39.0 11.2 | |
| | | Win. 209 | Fed. 128O | | | 10000000000 | | 000000000000000000000000000000000000000 | 40.5 11.0 | |
| | | | Rem. R121. | | 000000000000000000000000000000000000000 | 10000000000 | 1 00000000 | 0000000000 | 39.0 10.6 | |
| | | | Win, WAA12SL | | 000000000000000000000000000000000000000 | 100000000 | 00000000 | 0000000000 | 46.0 11.2 | 000000000000000000000000000000000000000 |
| 2 1/4 | 1,150 | Win. 209 | Rem. SP12 | | | | | | 37.0 11.2 | |

16-Gauge, 2 3/4 inch Fed. Plastic Hi Power Shells with Paper Base Wad

| Shot Wi. (oznas) | Velocity | Primer | Wed | Red Det Grains pai | American Salast Genius pai | Gma Gradus | Dot pri | Crein: | nique pai | Grein Grein | gui gui | Blor Grains | :Det pai | 2400 Grains pai |
|---------------------|----------|-----------|-------------------------|---|-------------------------------|---------------|--------------|--------------|--------------|----------------|--------------|----------------|-------------|--|
| | | | | z1000 | x1600 | <u> </u> | x1066 | L | 19091 | L | x9000 | <u> </u> | z1000 | x1000 |
| 1 | 1,220 | Fed. 209A | Win. WAA16 | 4 | | 19.0 | 9.8 | 21.0 | 8.4 | 21.5 | 8.1 | | | 1.22.22.22.22.22.22.22.22.22.22.22.22.22 |
| 1 | 1,275 | Fed. 209A | Win, WAA16 | | | | | 23.0 | 8.8 | 25.5 | 8.7 | | | |
| 1 1/8 | 1,185 | Fed. 209A | Rem. SP16 Win. WAA16 | | | 19.0 | 10.6 10.2 | 21.5 | 8.9 8.7 | 22.0 22.0 | 9.1 9.1 | | | |
| 1 1/8 | | Fed. 209A | Rem. SP16 Win. WAA16 | | | | | 22.5 22.0 | 9.6 10.2 | 23.5 24.0 | 10.1 10.2 | | | |
| 1 1/8 | 1,295 | Fed. 209A | Rem. SP16 | 00 000000000000000000000000000000000000 | 66666666666 | 00000 | | 0000 | | 24.5 | 10.3 | 32.0 | 8.6 | |
| 1 1/4 | 1,269 | Fed. 209A | Rem. SP16 | | | | | | | | | 50.5 | 10.2 | |

16-Gauge, 2 3/4 inch Fiocchi Plastic Shells

| Sh (oz | net Wil. (noes) | Velocity | Primer | Vivi | Red Grains | Det pri ±1600 | America Greins | Select pai x1600 | Green Graina | Dot psi x1000 | Us Graina | rigae Pai 2000) | Greins | enco pai x10000 | Hine Grains | Det pri x1600 | 2600 Grains pei 2000 |
|-----------|--------------------|----------------|----------------------|--------------------------|---------------|---------------------|-------------------|------------------------|-----------------|---------------------|--------------|-----------------------|--------|-----------------------|----------------|---------------------|---|
| | 1 | 1,165 | Pio. 615 | Win. WAA16 | 15.5 | 10.4 | 909999 | | 17.5 | 9.4 | 19.0 | 8.1 | | 0000 | 000000 | | 000000000000000000000000000000000000000 |
| | i | 1,220 | Fig. 616 Fig. 616 | Win. WAA16 Win. WAA16 | book | | | | 18.6 | 10.5 | 20.5 | 8.8 9.9 | 22.0 | 8.9 9.6 | 00000 | | |
| 1 | 1/8 | 1,185 | Pio. 616 | Rem. SP16 Win. WAAL5 | | | | | | | 20.5 19.5 | 9.9 10.6 | 21.0 | 10.2 | | | |
| | 1/8 1/8 | 1,240 1,295 | Pio. 616 Pio. 616 | Rem. SP16 Rem. SP16 | | | 3000000 | | | | | | 23.5 | 10.7 | 31.0 32.5 | 8.9 9.2 | |

16-Gauge, 2 3/4 inch Rem.-Peters SP Plastic Shells with Plastic BaseWad

| Shot Wt. (ounces) | Velocity | Primer | Wed | Red Dot Grains pai x1000 | American Select Grains pel x1000 | Green Det Grains pai x1600 | Unique Grains pri x1000 | Hereo Grains pei x1000 | Hine Det Grains pai x1000 | 2490 Genina psi x1000 |
|---------------------------|----------|-----------|------------|---|--|---|---|------------------------------|---------------------------------|-----------------------------|
| 333333333 3 333333 | 1.165 | Rem. 209P | Wim. WAA16 | | keessessesses | 16.5 10.2 | 19.0 8.6 | | beersees | |
| 1 | 1,220 | | | | | | 20.0 9.4 | 21.0 9.7 | ****** | **************** |
| 1 | 1,275 | Rem. 209P | Wim. WAA16 | | | | 21.0 10.2 | 22.0 9.6 | | |
| 1 1/8 | 1,185 | Rem. 209P | Win. WAA16 | | | | 20.0 10.3 | 21.0 10.6 | | |
| 1 1/8 | 1,240 | Rem. 209P | Rem. SP16 | 000000000000000000000000000000000000000 | | 100000000000000000000000000000000000000 | 000000000000000000000000000000000000000 | 00000000000 | 27.0 9.9 | |

16-Gauge, 2 3/4 inch Win. AA-Type Shells

| Shot Wt. (ouzon) | Velocity | Primer | Wad | Red Dot Grains pai x1000 | American Select Grains pei x1000 | Green Dot Grains pai x1000 | Unique Graizs pri x1000 | Hereo Gruina pei 11000 | Hine Det Graine pai x1000 | 2490 Grain pri x1000 |
|---------------------|----------|----------|------------|--|--|---|---|------------------------------|---------------------------------|----------------------------|
| 1 | 1,165 | Win. 209 | Win. WAA16 | 1 | l | | 19.0 9.2 | I | | |
| 1 | 1,220 | Win. 209 | Win. WAA16 | | | | 19.5 10.5 | 20.0 10.2 | | |
| 1 | 1,275 | Win. 209 | Rem. SP16 | | | | | | 29.0 9.3 | |
| 1 1/8 | 1,185 | Win. 209 | Rem. SP16 | Y 000000000000000000000000000000000000 | | 100000000000000000000000000000000000000 | 000000000000000000000000000000000000000 | | 27.0 10.0 | |

20-Gauge, 2 3/4 inch Fed. Plastic Target Shells

| Shot Wt. (ounces) | Velocity | Primer | Wid | Red Dot Grains pai x1000 | American Select Greins pei 20000 | Green Grains | | Grain | zique pri x1000 | H Grains | ereo pei 21000 | Hina Geráne | Det pai x1000 | 2400 Genius pui x1000 |
|----------------------|------------|-----------|--------------------------|---|---|-----------------|------|--------|-----------------------|--------------|----------------------|----------------|---------------------|---|
| | | | - 1 | 1 | I | 1 | | 1 | | ı | | 1 | | I |
| 7/8 | 1,155 | CCI 109 | Ped. 2051 | | | 14.5 | 8.4 | | | l | | | | |
| | | | Lage Uniwad | 1 | l | 15.5 | 8.7 | 17.0 | 8.5 8.6 | l | | | | |
| | | | Rem. RXP20 Win. WAA20 | | | 14.5 | 8.0 | 16.0 | 8.0 | l | | | | l |
| | | CCI 209M | Fed. 2051 | | ****** | 14.5 | 9.1 | 16.0 | 8.7 | | | **** | | |
| | | Fed. 209 | Hornady Versalite | | | 15.5 | 10.0 | 14000 | 9 W | 22222 | 22222 | ***** | | |
| | | 200.209 | Lage Uniwad | | | 16.0 | 16.1 | 1 | | l | | | | |
| | | | Win. WAA20 | | | 14.5 | 9.7 | 1 | | | | | | |
| | | | Windiammer | | l | 15.0 | 10.0 | 16.5 | 8.6 | l | | 1 | | 1 |
| 7/8 | 1,200 | CCI 109 | Fed. 2081 | | | 15.5 | 9.4 | 17.0 | 8.5 | 17.0 | 9.5 | | | |
| | | | Lage Uniwad | | | 16.0 | 10.0 | 18.0 | 8.8 | | | | | |
| | | | Rem. RXP20 | | | 16.0 | 9.6 | 17.0 | 9.2 | 18.0 | 8.8 | | | |
| | | | Win. WAA20 | | | 15.5 | 9.1 | 17.0 | 8.5 | 17.0 | 9.1 | | | |
| | | CCI 209M | Fed. 2081 | | | 16.5 | 9.3 | 17.0 | 9.1 | 17.5 | 7.6 | | | |
| | | Fed. 209 | Fed. 2051 | | | 16.5 | 10.6 | | | | | | | |
| | | | Hornady Versalite | | | 16.0 | 10.5 | | | | | | | |
| | | | Lage Uniwad | | | 16.5 | 11.0 | | | | | | | |
| | | | Windjammer | | | 16.0 | 10.9 | 17.0 | 10.6 | 18.5 | 10.2 | 8888 | | |
| | | Fed. 209A | PC 20 | | | 16.0 | 11.2 | 18.0 | 9.8 | 16.0 | 9.2 | | | |
| 1 | 1,165 | Fed. 209 | Rem. RXP20 | | | | | | 40.0 | 17.0 | 11.5 | | | |
| | | | SP20 Win, WAA20F1 | | | | | 16.0 | | 17.0 | 9.6 | | | |
| .000000000000 | 1,220 | CCI 2090M | Ped. 2051 | 000000000000000000000000000000000000000 | 000000000000000000000000000000000000000 | Posses | | 15.5 | 11.9 | 16.5 16.5 | 11.1 9.6 | 500000 | | 000000000000000000000000000000000000000 |
| ***** | - District | Fed. 209 | Rem. SP20 | | | lesses: | | | | 19.3 | 7.0 | 24.0 | 10.2 | |
| | | 200.209 | Win, WAA20F1 | | | 1000 | | | | | | 24.0 | 10.1 | |
| 1 1/8 | 1.175 | Fed. 209 | Rem. SP20 | | 000000000000000 | 000000 | | P00000 | | 000000 | 200000 | 23.0 | 10.9 | 000000000000000000000000000000000000000 |

20-Gauge, 2 3/4 inch Fiocchi Shells

| ************ | Shot Wit. (ounces) | Velocity | Primer | Wad | Red Dot Grains pei x1000 | American Select Grains pei ±1000 | Green Graina | Det pri 1960 | U Grains | nique pei 21000 | Herco Graine pai 21000 | Bine Det Ceains psi x1000 | 2400 Creine pui ±1000 |
|--------------|-----------------------|----------|----------------------------------|-------------------------------------|--------------------------------|--|-----------------|--------------------|--------------|-----------------------|------------------------------|---------------------------------|-----------------------------|
| | 7/8 | 1,155 | CCI 209M Fed. 209 Fio. 616 | Fed. 2051 Fed. 2051 Fed. 2051 | 1 | | 14.5 | 10.5 11.1 | 16.0 15.5 | 9.2 16.0 9.1 | | | |
| | | | 210.010 | Hornady Versalite | | | 15.5 | 9.7 | 18.0 | 8.3 | | | |

20-Gauge, 2 3/4 inch Fiocchi Shells

| Shot Wi. (cunces) | Velocity | Printer | Wed | Rad Det Greies psi 21900 | American Select Grains pai x1000 | Grein Grein | | Contra Contra | ique pri x1000 | H Grains | ruo pai 11800 | Gorden | Det pel 21900 | 3400 Grains pal 12000 |
|----------------------|------------|----------------------|------------------------|---|---|----------------|------|------------------|----------------------|-------------|---------------------|----------|---------------------|---|
| from Prev. P | age: Veloc | ity - 1,155 • S | bot Wt - 7/8 | | | | | | | | | | | |
| | | | Lage Univad | 4 | 1 | 153 | 9.5 | 17.5 | 8,6 | 1000 | | 100000 | | |
| | | Rem. 209 | Fed. 2051 | | | 14.5 | 10.0 | 16.0 | 9.4 | | | | | |
| | | Win. 209 | Fed. 2051 | | | 14.5 | 10.6 | 16.5 | 9.0 10.0 | | | | | |
| 7/8 | 1,200 | CCI 209M | Fed. 2081 | | | 15.5 | 10.7 | 17.0 | 10.0 | 17.0 | 9.9 | 1 | | |
| | | Fed. 209 | Fed. 2051 | 50 000000000 | 10000000000 | 15.5 | 11.1 | 17.0 | 10.8 | 17.5 | 10.2 | | | |
| | | Pio. 615 | Fed. 2081 | | | 16.0 | 10.9 | 18.0 | 9.7 | 18.0 | 9.2 | 1 | | |
| | | | Hornady Versalite | | 1 | 16.0 | 10.0 | | | 19.0 | 8.3 | 1 | | |
| | | | Lage Uniwad | | | 17.5 | 5.2 | 19.0 | 8.0 | l | | 1 | | |
| | | | Rem. RXP20 | | | 16.5 | 10.3 | l | | 19.0 | R.5 | 1 | | |
| | | Weeks and | Win. WAA29 | | | 16.0 | 10.6 | 17.5 | 9.6 | 18.5 | 8.7 9.2 | | | |
| | | Fig. 616 | Fed. 2051 | 5040000000000 | \$6666666666 | 15.5 | 10.8 | 17.5 | 10.0 | 18.0 | 9.9 | 500000 | | . |
| | | Rem. 209 Win. 209 | Fed. 2051 Fed. 2051 | | | 15.5 | 10.4 | 16.0 | 10.1 | 16.5 | 9.9 | . | | |
| | 1,225 | OCI 209M | Rem. SP20 | | | 1500 | 100% | 1000 | -894 | 13832 | - 3-X | 24.0 | 10.7 | |
| | | Fed. 209 | Rem. SP20 | | ***** | 88888 | | 8333 | | 10000 | | 23.0 | 10.3 | |
| | | Fie. 615 | Rem. SP20 | 000000000000000000000000000000000000000 | 0000000000000 | 100000 | | 40000 | | 00000 | | 27.5 | 9.2 | p00000000000000000 |
| | | Fig. 616 | Rem. SP20 | 98 | 900000000000000000000000000000000000000 | 4533 | | 1000 | | less. | | 24.5 | 10.5 | |
| | | Rem. 209 | Rem. SP20 | | ********* | | | | | | | 22.5 | 10.6 | |
| 0000010000 | 1,275 | Fed. 209 | Rem. SP20 | 90 0000000000 | 90000000000 | a bcccc | | 10000 | | 10000 | | 25.0 | 10.3 | 000000000000000000000000000000000000000 |
| ccccc. | | Fig. 616 | Rem. SP20 | | | 1 | | 10000 | | | | 26.0 | 10.8 | |
| | | Win. 209 | Rem. SP20 | 00 000000000000000000000000000000000000 | 000000000000000000000000000000000000000 | 3000 | | 1000 | | | | 26.0 | 10.6 | |
| 1.1/8 | 1,175 | Fed. 209 | Rem. SP20 | | | | | | | | | 23.5 | 30.7 | |
| 0000000000 | 2000000 | Pio. 615 | Nem, SP20 | 000000000000000000000000000000000000000 | 100000000000000000000000000000000000000 | 10000 | | 1000 | | | | 23.5 | 10.0 | D0000000000000000000000000000000000000 |
| | | Win. 209 | Rem. SP20 | | | 1 | | 1 | | 1 | | 23.5 | 11.4 | |

20-Gauge, 2 3/4 inch Rem. Premier Plastic Target Shells

| Shet Wi. (ourses) | Velocity | Prince | Wed | Red Det Grains pai x1000 | American Select Grains pai x1000 | Green Det Greins pei x1000 | Grains | rique 7si 2100) | Grains | 2000 Pei 11000 | Grains Grains | e Dut pei x1600 | 2400 Grains pai x1000 |
|----------------------|----------|----------------------|--------------------------|---|--|---|---------------|-----------------------|--------|----------------------|------------------|-----------------------|---|
| 7/8 | 1,155 | CCI 209M | Renn. RXP20 | a l acacacacac | | | 15.5 | | 16.5 | 10.5 | 10000 | | |
| | | Fig. 616 | Rom. RXP20 | | | | 16.0 | 20.7 | 16.5 | 30.3 | | | |
| | | Rem. 209P | Rent. RXP20 | | | | 13.5 | 10.0 | | | | | |
| | | | Clasbuater 1078-20 | | | | 15.5 | 9.5 | 16.0 | 9.8 | | | |
| | | | Duster - Crange | | | 000000000000000000000000000000000000000 | 16.5 | 7.7 | | | | | |
| | | | Fed. 2061 | | | | 15,5 | 10.0 | 16.0 | 10.0 | | | |
| | | | Win, WAA20F1 | 8 888888888888 | | 800000000000000000000000000000000000000 | | | 16.0 | 9.5 | 800000 | | 88888888888888888888 |
| 00000000 | 1.300 | Win. 209 | Rem. RXP20 Rem. RXP20 | 0.0000000000000000000000000000000000000 | 0000000000000 | 0000000000 | 15.5 | 10.3 9.9 | 16.5 | 10.2 9.4 | 20000 | | 000000000000000000000000000000000000000 |
| 7/8 | 1,200 | CCI 209 | | | 000000000000000000000000000000000000000 | 20000000000 | 16.5 | | 17.5 | 10.8 | 500000 | | |
| | | CCI 209M Pio, 616 | Rem. RXP20 Rem. RXP20 | | | | 16.5 | | 17.0 | 10.7 | 00000 | | |
| | | Rem. 209P | Claybuster 1078-20 | | Section of the sectio | 100000000000000000000000000000000000000 | 16.5 | | 17.5 | 9.8 | 10000 | | eccesses constitution |
| | | ACM, 2091 | Ducter - Orange | 9 | | | 17.5 | 8.3 | 13 | 9.0 | 1 | | |
| | | | Fed. 2061 | 8 | | 1 | 16.5 | | 17.0 | 10.5 | 1 | | |
| | | | Hormady Verasime | 9 | | | 16.5 | 10.2 | 17.5 | 10.4 | 1 | | |
| | | | Lege Uniwed | 9 | | 1 | 16.5 | | 17.5 | 10.3 | 1 | | |
| | | | Rem. RXP20 | 9 | | | 16.5 | | 17.0 | 10.6 | 1 | | |
| | | | Win, WAA20F1 | 9 | | | 16.0 | | 17.5 | 10.4 | 1 | | |
| | | | Win. WAA29 | 9 | | 1 | 16.5 | 30.9 | 17.0 | 30.7 | 1 | | |
| | | | Windjammer | 200 | | | 16.0 | 10.4 | 17.0 | 10.1 | | | |
| | | Win. 209 | Rem. RXP20 | | | | 16.5 | 11.3 | 17.0 | 10.6 | | | |
| 1 | 1,075 | Rem. 209P | Wio. WAA20F1 | | | | | | 14.5 | 11.0 | | | |
| | 1,155 | OCI 209 | Renn, SP20 | 000000000000000000000000000000000000000 | 000000000000000000000000000000000000000 | 000000000 | 0000 | | 0000 | | 22.0 | 9.5 | |
| | | CCI 209M | Rem. SP20 | | | L | | | | | 21.5 | 10.5 | |
| | | Fio. 615 | Rem. SP20 | | | | | | | | 22.5 | 9.8 | |
| | | Resta. 209P | Rem. SP20 | 9 | | | 1 | | l | | 21.5 | 9.0 | |
| | | | Win. WAA20Ft | | | | | | 17.5 | 11.5 | 21.5 | 9.0 | |
| | 1,000 | Win. 209 | Rem. SP20 | 8 | | | 1 0000 | | 10000 | | 21.5 | 10.6 | |
| | 1,229 | OCI 209 OCI 209M | Rem. SP20 Rem. SP20 | 0.0000000000000000000000000000000000000 | 2000000000000 | 2000000000 | 00000 | | 0000 | | 23.0 | 10.3 | 000000000000000000000000000000000000000 |
| | | Fig. 616 | Rem. SP20 | 0.0000000000000000000000000000000000000 | 500000000000000 | 000000000000000000000000000000000000000 | 55555 | | 00000 | | 23.5 | 11.0 | 000000000000000000000000000000000000000 |
| | | Rem. 200P | Rem. SP20 | 9 9999999999 | 2000000000000 | 20000000000 | 4888 | | 9999 | | 24.0 | 11.1 | 000000000000000000000000000000000000000 |
| | | Taken Digit | Win, WAA20F1 | | | | 1000 | | | | 23.5 | 10.9 | |
| | | Win. 209 | Rem. SP20 | 000000000000000000000000000000000000000 | 000000000000000 | 00000000000 | ****** | | 100000 | | 22.0 | 11.1 | 000000000000000000000000000000000000000 |

20-Gauge, 2 3/4 inch Rem. SP with Plastic Base Wad

| Shet W (renon | | Prince | Wed | Red Det Grains pai 2000 | Azzerioza Select Grains pai x1000 | Green Dot Greinu pai x1000 | Unique Genites pai x1000 | Herco Geshus pai x1000 | Bine Det Centes poi 19000 | 2400 Gerina pai x1000 |
|------------------|-------|----------|---------------------------|-------------------------------|---|----------------------------------|--------------------------------|------------------------------|---------------------------------|-----------------------------|
| 7/8 | 1,200 | Rem. 209 | Rem. RXP20 Wis. WAA20 | | | | 16.5 9.1 16.5 9.8 | | | |
| 1 | 1,165 | Rem. 209 | Rem. SP20 Win. WAA20F1 | | | | | 17.5 11.3 17.5 16.7 | | |
| 1 | 1,320 | Rem. 209 | Rem, SP20 Wis, WAA20F1 | | | | | | 25.0 10.3 24.0 10.1 | |

20-Gauge, 2 3/4 inch Rem.-Peters Unibody Shells

| Shot \ (conc | | Primer | Wed | Red Det Genius pai 19000 | American Select Grains pai x1000 | Green Dot Greiss psi x1000 | Unique Gruins pai x1000 | Hetto Gruius pui x1000 | Bine Det Gesies pai ±1900 | 2490 Gesina psi x1000 |
|-----------------|--|-----------|-------------------|--------------------------------|--|---|-------------------------------|------------------------------|---------------------------------|---|
| 7/8 | 3,200 | CCI 209M | Rem. RXP20 | 1 | I | I | 16.5 10.9 | 17.5 11.5 | I | 1 |
| :0000000000 | 00000000000000000000000000000000000000 | Fed. 209 | Rem. RXP20 | 5000000000000 | 500000000000 | 8 6666666666 | 16.0 11.5 | 16.5 10.7 | 5666666666 | 800000000000000000000000000000000000000 |
| | | Rem. 209 | Hornady Versalite | | | | | 16.5 10.9 | | |
| | | | Rem. RXP20 | | | 1 | 16.5 10.8 | 16.5 10.2 | | 1 |
| | | | Wim. WAA20 | | | | 16.5 11.2 | | | |
| | | Win. 209 | Rem. RXF20 | | | | | 17.5 10.9 | | |
| | 1,165 | CCI 209M | Rem. 52'20 | | | | | | 22.0 10.5 | |
| | | Fed. 209 | Rem. SP20 | | | | | | 21.5 10.5 | |
| | | Fern, 209 | Rem. SP20 | 1 | | | | | 21.0 11.5 | |
| | | | Wiss, WAA20P1 | | | | | | 21.5 11.1 | |
| | | Win, 209 | Rem, SP20 | | | 000000000000000000000000000000000000000 | 0000000000 | 000000000 | 22.0 11.3 | 000000000000000000000000000000000000000 |

20-Gauge, 2 3/4 inch Win.-Western Plastic AA-type Shells

| Shot W (GEDOR | | Primer | West | Red Det Greize pai 21900 | America Grains | s Select pai 11990 | Grein Grein | | U: Grains | íque pei x1000 | Graine Graine | erce Psi 13000 | | Det psi 2000 | 2400 Gries pá 2000 |
|------------------|-------|----------------------|--|--------------------------------|-------------------|--------------------------|----------------|------|------------------------------|-----------------------------|----------------------|----------------------|----------------------|--------------------|---|
| 7/8 | 1,050 | Win. 209 | Win, WAA20 | s k | ł. | | 11.2 | 11.0 | less | | less. | | bees | | leses e e e e e e e e e e e e e e e e e |
| 7/8 | 1,100 | | Claybuster 1078-20 Wiss. WAA20 Wiss. WAA20F1 | | ***** | | 13.0 | 11.2 | 13.8 | 11.2 | | | xxxxx | | |
| 7/8 | 1,155 | CCI 205M Win. 209 | Win, WAA20 Claybuster 1078-20 PC20 Rem, RXP20 Win, WAA20F1 | | | | 13.5 | 11.2 | 15.0 15.0 15.0 15.0 | 10.2 10.2 8.7 11.0 | 16.0 | 16.5 11.0 | | | |
| 7/8 | 1,300 | Win. 209 | Claybuster 1078-20 PC20 Rem. RXP20 Win, WAA20P1 | | | | | | 15.0 16.0 16.0 15.5 | 11.2 11.2 9.0 11.2 | 16.5 16.5 16.5 | 11.0 11.3 9.0 | | | |
| 1 | 1,165 | Win, 209 | Rem. RXP20 Rem. SP20 | | | | 1 | | | | 16,5 16,5 | 9.6 10.0 | l | | |
| 1 | 1,220 | Win. 209 | Rem. RXP20 Rem. SP20 Win. WAA20F1 | | | | | | | | | | 23.0 25.5 25.0 | 11.4 | |

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| 20-Gauge, 2 3/4 men 11111-11estenn i nastie Apert Manger Shens (1 01/101 men 5) | inWestern Plastic Xpert Ranger Shells (Polyformed Shell) |
|---|--|
|---|--|

| | hot Wt. sances) | Welocity | Primer | Wed | Rad Do Grains pe | e ci 1000 | America Grains | n Select psi x0001 | Green S Grains | Dat pei z1000 | Uni Grains | pei 20000 | Heren Grains pei vioce | Blue Grains | Due pai x1000 | 2420 Grains pei x1060 | |
|--------|--------------------|----------|-------------|------------|---------------------|-----------------|-------------------|--------------------------|-------------------|---------------------|---------------|--------------|---|----------------|---------------------|-----------------------------|--|
| ~~~~~~ | | ****** | *********** | | ******* | | ~~~~~ | ~~~~~ | ******* | | ~~~~ | ~~~~ | ********** | ******* | ~~~~ | | |
| | 7/8 | 1,155 | Win. 209 | Ped. 2051 | 1 | | | | | | 14.5 | 9.7 | | | | l | |
| | | | | Win. WAA20 | | | | | | | 14.5 | 9.8 | | | | | |
| | 7/8 | 1,200 | Win. 209 | Ped. 2051 | | | | | | 8888 | 15.5 | 10.8 | | | | | |
| | | | | Rem. RXP20 | | 6666 | 00000 | | £00000 | 88888 | 15.5 | 9.7 | 0000000000 | 00000 | | | |
| | | | | Win. WAA20 | | 6666 | 000000 | | 00000 | 66666 | 15.5 | 10.7 | 000000000000000000000000000000000000000 | 00000 | | | |
| | 1 | 1,165 | Win, 209 | Rem. RXP20 | | | | | | | 16.0 | 11.1 | | | | | |

20-Gauge, 3 inch Fed. Plastic Shells

| Shot Wt. (ounce) | Velocity | Primer | Wed | Red Dot Gesius pai 11000 | American Select Grain pai x1000 | Green Dot Gmits pri x1000 | Unique Grains pei x1900 | Herco Grains pei x1000 | iškae Dot Genius pri z1000 | 2400 Graice pai x1000 |
|---------------------|----------|----------|---------------------------------------|--------------------------------|---------------------------------------|---------------------------------|-------------------------------|------------------------------|-------------------------------------|-----------------------------|
| 1 | 1,255 | Ped. 209 | Rem. RXP20 | 1 | l:::::::::::: | | l . | la constant | 27.0 9.2 | become |
| | | | Win, WAA20 | | | | | | 26.5 9.4 | |
| 5. | 1,310 | Ped. 209 | Ped. 20S1 Rem. RXP20 Win. WAA20 | | | | | | 28.0 10.3 28.0 10.2 28.5 10.6 | |
| 1 1/8 | 1,230 | Ped. 209 | Rem. SP20 Win, WAA20F1 | | | | | | 26.5 10.3 26.0 10.1 | |
| 1 1/4 | 1,185 | Fed. 209 | Rem. SP20 Win. WAA20F1 | | | | | | 25.5 10.6 25.5 10.4 | |

28-Gauge, 2 3/4 inch Fed. Plastic Target Shells

| Shot W (ounces | | Primer | Wed | Red Dot Grains pei | American Select Greins pei | Green Dat Greins pei | Uzique Greios pei | Herco- Greine pei | Blue Dot Grains pei | 2400 Greios pei |
|---|-------|----------|---------------------------------------|-----------------------|-------------------------------|-------------------------|-------------------------------------|------------------------|----------------------------------|--------------------|
| *************************************** | | | | ±1000 | x:001 | x1000 | :0000 | x1066 | ±1000 | x1000 |
| 3/4 | 1,200 | OCE 109 | Rem. SP28 Win. WAA28 | | | 15.0 10.0 | 13.5 9.4 14.0 10.4 | 14.5 10.0 | 18.5 9.8 | |
| | | Ped. 209 | Fed. 28SLA Rem. SP28 Win. WAA28 | | | 12.5 11.8 | 13.5 11.6 13.6 11.2 13.5 10.5 | 14.0 11.7 13.0 10.1 | 17.5 9.6 18.0 9.9 17.5 8.7 | |
| 3/4 | 1,295 | Ped. 209 | Rem. SP28 | | | | | 140 103 | 20.0 10.9 | |

28-Gauge, 2 3/4 inch Rem.-Peters Plastic Target Shells

| Shot Wt. (ounces) | Welocity | Friner | Wed | Red Genius | Dot pai | America Grains | es Select pri | Green Grains | Dot pei | Un Grains | ique pri | Hi Grains | bej asco | She Greits | Dot pri | 2400 Graios pei |
|----------------------|----------|-----------|-------------------------|---------------|------------|-------------------|------------------|--|--------------|--------------|-------------|--------------|-------------|---------------|-------------|--------------------|
| | | | | | X:000 | | X(00) | | 11000 | | 19900 | L | X1006 | | I:000 | 11000 |
| 3/4 | 1,200 | CCI 109 | Fed. 28SLA Rem. SP28 | | | | | 13.0 12.0 | 11.8 10.2 | 14.0 | 10.9 | 14.5 14.0 | 10.7 8.9 | 18.5 | 10.1 7.5 | |
| | | | Win. WAA28 | | | 1 | | 12.0 | 16.4 | 13.0 | 9.1 | 14.0 | 8.3 | 18.0 | 7.3 | |
| | | Rgm. 209P | Fed. 2851.A | | | | | | | 13.5 | 11.3 | 14.5 | 11.2 | 18.0 | 9.2 | |
| | | | Rem. SP28 | | | | | 12,0 | 19.5 | 13.0 | 9.1 | 14.0 | 8.7 | 18,0 | 7.6 | |
| | | | Win, WAA28 | | | | | 12.0 | 10.3 | 13.0 | 8.9 | 14.0 | 8.8 | 18.0 | 7.7 | |
| 3/4 | 1,295 | Rem. 2099 | Rem. SP28 | | | | | None None None None None None None None | | 35.0 | 10.6 | 16.5 | 10.3 | 21.0 | 9.7 | |

28-Gauge, 2 3/4 inch Remington Premier STS

| Shot Wt. (ounces) | Velocity | Prins | Wed | Red Dot Greise pei x2009 | American Select Grain pri zi000 | Green Dot Grains pei 11600 | Unique Grains poi x/900 | Herco Grains pei x1000 | She Dot Greico pri 1800) | 2420 Graice pai x1000 |
|----------------------|----------|-----------|-----------------------|--------------------------------|---------------------------------------|----------------------------------|-------------------------------|------------------------------|--------------------------------|-----------------------------|
| 3/4 | 1,200 | Rem, 209P | Duster Red PC Blue | | | | 14.0 9.6 14.0 11.2 | 14.8 9.6 14.5 10.8 | 18.5 9.6 | |

28-Gauge, 2 3/4 inch Win.-Western Plastic AA-Type Shells

| Shot W). (ounce) | Velocity | hine | Wed | Rad Dot Gestes pel 1000 | American Select Greins pei 1990 | Geem Dot Grains pri 11800 | Unique Grains pri 2000 | Heros Grains pei x1000 | Stac Dot Grains pri 11000 | 2400 Gražas pai 21600 |
|---------------------|----------|---------------------|--------------------------|-------------------------------|---------------------------------------|---------------------------------|------------------------------|------------------------------|---------------------------------|-----------------------------|
| 3/4 | 1,200 | CCI 109 Win, 209 | Win, WAA28 Win, WAA28 | | | 12.5 11.9 | 13.0 8.4 13.0 9.4 | 14.0 7.9 14.0 8.4 | 000000000 | |

28-Gauge, 2 3/4 inch Win.-Western Plastic AA-Type "HS" Shells

| Shot Wi. (ounces) | Velocity | Primer | Wid | Red Dat Grains pei x1000 | American Select Grains pei x1000 | Green Dot Grains pai x1660 | Unique Grains pai x1000 | Herco Grains pri x1000 | Blue Dot Grains pai x1000 | 2460 Gražna pai x1000 |
|----------------------|----------|---------------------|------------------------------|--------------------------------|--|----------------------------------|-------------------------------|------------------------------|---------------------------------|-----------------------------|
| 3/4 | 1,200 | Win 209 Win. 209 | Win. WAA28HS Win. WAA28HS | | . | | 13.1 11.3 | 14.0 10.9 | | |

410 Bore, 2 1/2 inch Fed. Plastic Shell

| Shot Wt. Wde (ounces) | city Prieser | Wad | Red Det Grains pai 21000 | American Select Grains pei x1000 | Green Dot Greins pei 12000 | Unique Greins pri x1000 | Herco Grains pei x1000 | Sine Dot Grains pai 11000 | 2400 Grains pei ±1000 |
|--------------------------|-------------------------|--|--------------------------------|--|----------------------------------|-------------------------------|------------------------------|---------------------------------|--|
| 1/2 1,2 | 00 Fed. 209 Fed. 410 | Fed. 4109C Rem. SP410 Win. WAA41 Fed. 4109C | | | | | | | 13.5 11.9 13.0 11.5 13.0 11.3 13.5 12.0 |

410 Bore, 2 1/2 inch Rem.-Peters Plastic Shell

| oot Wit. unces) | Velocity | Primer | Wed | Red Grains | Det psi x1000 | America Grains | n Select pei x1000 | Green Greins | Dot pai ni600 | Uni Gnits | que pri x1000 | Grains Grains | pei 11000 | She Getine | Dot psi r1000 | | |
|--------------------|----------|-----------------------|--|---------------|---------------------|-------------------|--------------------------|---|---------------------|--------------|---------------------|------------------|--------------|---------------|---------------------|------------------------------|----------------------|
| 1/2 | 1,260 | CCI 209 | Fed. 410SC Rem. SP410 Wim. WAA41 | | | | | 300000000000000000000000000000000000000 | | | | | | | | 14.5 | 10.6 10.5 10.3 |
| | | CCI 209M Rena. 97* | Rem. SP410 Fed. 4108C Rem. SP410 Win. WAA41 | | | | | | | | | | | | | 13.5 13.5 13.0 14.0 | 11.4 11.5 |

410 Bore, 2 1/2 inch Win.-Western Plastic AA-Type Shell

| (0 | bot WL searces) | Velocity | Primer | Wed | Red Dot Grains pai x1000 | American Select Grains pei x1000 | Green Dot Grains pei zi600 | Unique Grains pri x1000 | Herce Grains pei x1000 | Shee Dot Graine pai x1000 | 2400 Grains pai x1000 |
|----|--------------------|----------|----------|--------------------------|--------------------------------|--|----------------------------------|-------------------------------|------------------------------|---------------------------------|-----------------------------|
| | 1/2 | 1,200 | CCI 209 | Ped. 4108C Rem. 5P410 | | | | | | | 13.0 12.1 13.5 12.0 |
| | | | Wim. 209 | Wim. WAA41 | 1 | 1 | 9 | | 1 | | 13.0 11.7 |

410 Bore, 3 inch Rem.-Peters Plastic Shell

| Shot W (suzen | | Primer | Wad | Red Grains | Det pai x1000 | America Genina | n Select pei 19000 | Green Greins | Dot pai x1600 | Uniq Graits | ne pri r1000 | He Gnins | ce psi 11000 | Shoe Gesine | Dot pai x1000 | 2400 Grains pri 2100 | 0 w |
|------------------|-------|----------|------------|---------------|---------------------|-------------------|--------------------------|-----------------|---------------------|----------------|--------------------|-------------|--------------------|----------------|---------------------|----------------------------|-----|
| 2/3 | 1,135 | CCI 209M | Rem. 52410 | l | | l | | 1000 | | | | 500000 | 00000 | 100000 | | 145 12 | .2 |
| | | Fed. 410 | Rem. SP410 | | | | | | | | | | | | | 14.0 12 | .7 |
| | | Rem. 97* | Fed. 4105C | | | | | | | | | | | 10000 | | 14.5 12 | .6 |
| | | | Rem. 52410 | | | | | | | | | | | | | 14.5 13 | .0 |
| | | | Wim. WAA41 | | | 1 | | | | | | | | | | 14.5 12 | .5 |

America's Clean Team





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410™ RELOADING DATA NEW!

Alliant Powder's new 410 is the only flake powder that is specifically designed for the exacting needs of .410 skeet and field loads. It's the cleanest burning .410 powder available. New 410 is more efficient, with lower powder charge weights, giving it optimum loading characteristics. The superior ballistic performance of 410 creates perfect patterns. Consistent performance in any weather, shot after shot, lot after lot, makes the new 410 your reloading powder of choice.

| Shell Type | Short Weight (ounces) | Velocity (fps) | Frizzer | Wwd | Powder | Charge Wt. (GRS) | Pressure PSI | |
|---|--|--|--|---|--|--|--|--|
| 410 Bore, 2 1/2 inch Remington Promier Shell | 1/2 ex 1/2 ex 1/2 ex 1/2 ex 1/2 ex 1/2 ex 1/2 ex | 1,250 1,250 1,250 1,250 1,250 1,230 1,230 | Rem 2095TS CCI 209M Rem 2095TS Rem 2095TS Rem 2095TS Rem 2095TS Rem 2095TS | SP 410 SP 410 Fed. 410 SC WAA41 CB 1050 41 Duster 4150 SP 410 | 410 410 410 410 410 410 410 | 12 12.2 12.2 12.3 12.3 12.6 12.7 | 9,500 9,800 10,700 8,800 8,700 9,900 9,700 | |
| 410 Bare, 2 1/2 inch Win. Western Plastic AA Type Shell | 1/2 oz 1/2 oz 1/2 oz 1/2 oz 1/2 oz 1/2 oz 1/2 oz 1/2 oz | 1,250 1,260 1,260 1,260 1,260 1,230 1,230 | OCI 205M Win 259 Win 269 Win 269 Win 269 OCI 205M Win 259 | WAA41 C85050-41 Duster 4150 Fed. 4109C Rem. 57 410 WAA41 C85050-41 | 420 420 420 420 420 420 420 | 11.5 11.5 11.4 11 11.5 11.9 11.9 | 11,500 16,100 11,100 11,500 10,500 11,500 | |
| 410 Bore, 2 1/2 inch Federal Plantic Shell | 1/2 ex 1/2 ex | 1,200 1,200 1,200 1,200 1,200 1,200 1,230 1,230 1,230 1,230 | CCI 205M Fed 209A Fed 209A Fed 209A Fed 209A Fed 209A Fed 209A Fed 209A Fed 209A Fed 209A | Fed. 4105C WAA41 SF410 Duster 4150 CB 1050-41 Fed. 4105C Duster 4150 Fed. 4108C Rem. SF410 WAA41 CB 1050-41 | 410 410 410 410 410 410 410 410 410 410 | 11.5 11.5 11.5 11.5 11.5 11.5 11.9 11.9 | 10,500 10,500 10,700 10,000 10,500 11,500 11,500 11,500 11,500 11,400 | 1/16 in. spacer req. |

BIG THINGS COME IN SMALL PACKAGES



410™ Powder

Alliant's 410™ is the cleanest burning .410 bore powder available. Its outstanding performance gives .410 reloaders the opportunity to design their own dependable load, tailored to their individual needs.



PROMO™ RELOADING DATA

PROMO™ is Alliant's budget priced 12 gauge target shotshell powder. Available in 8 pound containers only, it provides economical loads that are reliable and consistent, shot after shot.

Note - To determine the proper bushing size for PROMO™ shotshell powder, be sure to use the following procedure:

- Select a bushing 2 sizes smaller than the one recommended for the same number of grains of Red Dot® from the manufacturers' bushing chart, then...
- · Place this bushing in your reloading machine and weigh several charges on your powder scales, then...
- Compare the weighed charge to the recommended charge weight.
- Adjust the bushing size if necessary to obtain the desired charge weight.
- Confirm your bushing size with each new powder lot.
- We recommend this same procedure for confirming the correct bushing size for each new lot of PROMO.™
- With all powders, you should routinely verify your powder charge using an accurate powder scale.

All data are for 12 gauge, 2 3/4 inch shells

| Sunt Weight | Sed | Welocity (FPS) | Primer | Wad | Promo Greina |
|-------------|-----------------------------------|----------------|------------|--------------------|--------------|
| 00000000 | Pederal Gold Medal | 1,200 | Fed. 209A | Fed1250 | 18 |
| | Federal Gold Medal | 1,200 | Fed. 209A | WAA12 SL | 18 |
| | Federal Gold Medal | 1,200 | Fed. 209A | Cleybuster 1100-12 | 18 |
| | Federal Gold Medal | 1,255 | Fed. 209A. | Fed1290 | 19 |
| | Federal Gold Medal | 1,255 | Fed. 209A. | WAA12 SL | 18.5 |
| | Federal Gold Medal | 1,255 | Fed. 209A | Claybuster 1100-12 | 18.5 |
| | Remington STS, Nitro 27 & Premier | 1,200 | Rem. 209P | Rem. TGT12 | 18 |
| | Remington STS, Nitro 27 & Premier | 1,200 | Rem. 209P | Claybuster 1100-12 | 18 |
| | Remington STS, Nitro 27 & Premier | 1,200 | Rem. 209P | Purple PC | 18.5 |
| | Remington STS, Nitro 27 & Premier | 1,255 | Rem. 209P | Rem. TGT12 | 19 |
| | Remington STS, Nitro 27 & Premier | 1,255 | Rem. 209P | Claybuster 1100-12 | 19.5 |
| | Remington STS, Nitro 27 & Premier | 1,255 | Rem. 209P | Purple PC | 19.5 |
| | Winchester AA | 1,200 | Win. 209 | WAA12 SL | 18 |
| | Winchester AA | 1,200 | Wis. 209 | Clayburter 1100-12 | 18 |
| | Winchester AA | 1,200 | Win. 209 | Purple PC | 18 |
| | Winchester AA | 1,255 | Win. 209 | WAA12 SL | 19 |
| | Winchester AA | 1,255 | Win. 209 | WAA12 SL | 19 |
| | Windsester AA | 1,255 | Wiss. 209 | Chrybuster 1300-12 | 19 |
| | Winchester AA | 1,255 | Win. 209 | Purple PC | 19 |
| 1/8 | Federal Gold Medal | 1,145 | Fed. 209A | Fed. 1253 | 18 |
| 1/8 | Federal Gold Medal | 1,145 | Fed. 209A | WAA12 (white) | 17.5 |
| 1/8 | Federal Gold Medal | 1,145 | Fed. 209A | Claybuster 3118-12 | 18 |
| 1/8 | Federal Gold Medal | 1,200 | Fed. 209A | Red. 1253 | 19.5 |
| 1/8 | Federal Gold Medal | 1,200 | Fed. 209A | WAA12 (white) | 19 |
| L/B | Federal Gold Medal | 1,200 | Fed. 209A | Claybuater 3118-12 | 19 |
| 1/8 | Remington STS, Nitro 27 & Premier | 1,145 | Rem. 209P | Pigure 8 | 15 |
| /8 | Remington STS, Nitro 27 & Premier | 1,145 | Rem. 209P | Windismore | 17.5 |
| 1/8 | Remington STS, Nitro 27 & Premier | 1,145 | Rem. 209P | Claybuster 3118-12 | 17.5 |
| 1/8 | Remington STS, Nitro 27 & Premier | 1,145 | Rern. 209P | Red PC | 17.5 |
| /B | Remington STS, Nitro 27 & Premier | 1,200 | Rem. 209P | Figure 8 | 19 |
| 1/8 | Remington STS, Nitro 27 & Premier | 1,200 | Rem. 209P | Windsammer | 18.5 |
| 1/8 | Remington STS, Nitro 27 & Premier | 1,200 | Rem. 209P | Claybuster 3118-12 | 19 |
| 1/8 | Winchester AA | 1,145 | Win. 209 | WAA12 (white) | 17 |
| 1/8 | Winchester AA | 1,145 | Win, 209 | Figure 8 | 17.5 |
| 1/8 | Winchester AA | 1,145 | Win. 209 | Windiammer | 17.5 |
| 1/8 | Winchester AA | 1,145 | Win. 209 | Clayburter 3118-12 | 17 |
| 1/8 | Winchester AA | 1,145 | Win. 209 | Red PC | 17.5 |
| /B | Winchester AA | 1,200 | Win. 209 | WAA12 (white) | 18 |
| 1/8 | Winchester AA | 1,200 | Wim. 209 | Pigare 8 | 18.5 |
| 1/8 | Winchester AA | 1,200 | Wiss. 209 | Windiammer | 18.5 |
| 1/8 | Winchester AA | 1,200 | Win. 209 | Claybuster 3116-12 | 18 |
| 1/8 | Winchester AA | 1,200 | Win. 209 | Red PC | 18.5 |

e³ Reloading data New!

Great patterns, superior consistency, low charge weight efficiency. To top it off, e^3 is the cleanest double-base powder available, and far less affected by temperature changes than single-base powders. That means better performance from your reloads and more broken targets. Give it a shot and you'll see the difference. Energy, Efficiency, Excellence...that's e^3 .

All data are for 12-gauge, 23/4 inch shells

| thd:Type | Shot Weight (otnoes) | Wocity (Ha) | Printer | Wud | Posader | Charge Wt. (GES) | Pressure PSI |
|--------------------------------------|--|---|--|---|--------------|--|---|
| Fed. Gold Medal Plastic Target Shell | 7/8 os 1 os | 1,200 1,250 1,250 1,300 1,300 1,300 1,200 1,200 1,200 1,255 1,255 1,255 1,250 1,290 1,090 1,090 1,090 1,090 1,090 1,090 1,090 1,090 1,145 | Frd 209A | Fed. 123 O Rem. TGT 12 Fed. 125 O Rem. TGT 12 Fed. 125 O Duster - Green Rem. TGT 12 Fed. 125 O Duster - Green Rem. TGT 12 Fed. 123 O Claptuster 3118-12AR Claptuster 4118 Rem. Hg. 8 Win. WAA12 (white) Win. WAA125L Fed. 125 3 Duster - Bue Claptuster 4118 Claptuster 4118 Claptuster 3118-12AR Win. WAA121 Uster - Bue Rem. Hg. 8 Fed. 125 3 Claptuster 4118 Rem. Hg. 8 Win. WAA12 (white) Duster - Blue Fed. 125 3 Claptuster 4118 Rem. Hg. 8 Win. WAA12 (white) Duster - Blue Fed. 125 3 Win. WAA12 (white) | ลลลลลลลลลลลล | 16.5 17.0 17.5 18.0 18.5 16.5 17.0 17.5 18.0 18.0 18.5 18.5 18.5 18.5 15.5 15.5 15.5 15.5 | 6,905 7,095 8,095 7,995 8,095 7,925 8,835 8,310 8,000 9,040 8,840 9,710 9,340 10,035 9,660 10,070 8,210 7,860 7,930 8,290 8,495 8,495 8,495 8,495 8,495 8,495 8,960 9,215 9,520 8,875 9,260 9,990 9,525 9,900 10,470 10,550 10,660 10,755 |
| Fed. Paper Target Shell | 7/8 es 1 | L,300 L,250 L,250 L,300 L,300 L,200 L,255 L,290 L,255 L,290 L,145 | Fed 209A Fed 209A | Claptoster 4100-12B Win WAA12L (Gray) Claptoster 4100-12B Win WAA12L (Gray) Claptoster 4100-12B Win WAA12L (Gray) Ped. 12SO Ped. 12SO Ped. 12SO Claptoster 4118 Claptoster 4118 Rem. Egg 8 Rem. EXP12 Ped. 12S1 Win WAA12 (White) Rem. Eg 8 Rem. EXP12 | <u> </u> | 16.5 16.5 17.5 18.5 18.5 18.5 18.5 18.5 19.5 18.5 17.0 17.0 17.0 17.0 17.0 17.0 18.0 | 6,380 6,960 7,075 7,345 7,400 8,230 8,335 9,375 10,630 7,985 9,375 8,765 9,280 9,380 9,380 9,385 9,640 9,815 9,640 10,630 |

All data are for 12-gauge, 2 3/4 inch shells (6° continued)

| Shell Type | Shot Weight (outses) | Velocity (fps) | Primer | VSui | Powder . | Charge Wt. (GRS) | Pressure PSI |
|--|-------------------------|-------------------|-----------------------|---|----------------|---------------------|------------------|
| Fed. Paper Target Shell (continued) | 1 1/8 oc | 1,200 | Fed 209A | Claybuster 5118-12AR | es . | 18.0 | 10,630 |
| • • • • | 1 1/8 oz | 1,200 | Fed 209A | Win. WAA12 (White) | es . | 18.0 | 10,780 |
| | 1 1/8 oz. | 1,200 | Fed 209A | Claybuster 4118 | es C | 18.5 | 9,860 |
| | 1 1/8 oz | 1,200 | Ped 209A | Fed. 1253 | e ³ | 18.5 | 10,955 |
| Rom. Promier, STS Plautic Target Shell | 7/8 cz | 1,200 | Rem 2099 | Red. 1250 | es . | 15.5 | 8,015 |
| | 7/8 cz | 1,200 | Rem 2097 | Win. WAA12L (Gray) | es es | 16.0 | 7,265 |
| | 7/8 oz. | 1,200 | Rem 2097 | Claybuster 4100-12 B Fed. 128O | es es | 16.2 | 6,195 |
| | 7/8 cz. 7/8 cz. | 1,250 1,250 | Rem 209P Rem 209P | Win. WAA12L (Gray) | e ^s | 17.0 17.0 | 7,575 7,635 |
| | 7/8 oz. | 1,250 | Rem 205P | Rem. TGT 12 | es . | 17.0 | 7,620 |
| | 7/8 az | 1,250 | Rem 209P | Claybuster 4100-12 B | e ^s | 17.2 | 7,045 |
| | 7/8 oz | 1,300 | Rem 205P | Rem. TGT 12 | e, | 17.8 | 8,585 |
| | 7/8 oz | 1,300 | Rem 209P | Fed. 128O | e, | 17.8 | 10,245 |
| | 7/8 cc | 1,300 | Rem 2092 | Win, WAA12L (Gray) | es . | 18.0 | 8,525 |
| | 7/8 oz | 1,300 | Rem 209P | Claybuster 4100-12 B | es où | 18.2 | 7,580 |
| | l ot | 1,150 | Rem 209P | Win. WAA12L (Gray) | es es | 15.5 | 8,950 |
| | 1 00 | 1,150 | Rem 209P Rem, 209P | Claybuster 1100-12 | es es | 16.0 16.0 | 7,730 |
| | 1 ox 1 ox | 1,150 1,300 | Rem 209P | Rem. TGT 12 Win. WAA12SL | es . | 16.5 | 7,970 10,015 |
| | 100 | 1,200 | Rem 2097 | Rem. TGT 12 | es . | 16.9 | 8,550 |
| | 106 | 1,200 | Rem 2097 | Claybuster 1100-12 | es . | 17.0 | 8,730 |
| | 1 06 | 1,200 | Rem 2097 | Duster - Green | C ₂ | 17.0 | 9,455 |
| | 1 00 | 1,200 | Rem 205P | Fed. 125O | es . | 17.2 | 9,585 |
| | 1 08 | 1,250 | Rem 205P | Rem. TGT 12 | e ^s | 18.0 | 9,710 |
| | 1 ox | 1,255 | Rem 205P | Win, WAA12SL | e ^s | 17.5 | 10,530 |
| | 1 02 | 1,255 | Rem 205P | Duster - Green | e, | 17.5 | 10,970 |
| | 1 02 | 1,255 | Rem 2097 | Claybuster 1100-12 | es | 18.0 | 9,560 |
| | 1 00 | 1,255 | Rem 2097 | Fed. 128O | es es | 18.3 | 10,330 |
| | l oz | 1,290 1,290 | Rem 2099 Rem 2099 | Claybuster 1100-12 Rem. TGT 12 | وع وت | 19.0 19.0 | 10,040 10,850 |
| | 1 oz 1 1/8 oz | 1,090 | Rem. 209P | Rem. RXP12 | ě | 15.0 | 8,635 |
| | 1 1/8 az | 1,090 | Rem. 209P | Rem. Fig. 8 | e ³ | 15.0 | 8,760 |
| | 1 1/8 oz | 1,090 | Rem. 209P | Win, WAAI2 (White) | es . | 15,0 | 9,175 |
| | 1 1/8 oz | 1,096 | Rem 209P | Fed. 1253 | es . | 15.2 | 8,595 |
| | 1 1/8 az | 1,096 | Rem 2097 | Claybuster 0118 | e ^s | 15.4 | 8,075 |
| | 1 1/8 cz | 1,090 | Rem 2097 | Claybuster 4118 | e, | 15.5 | 7,950 |
| | 1 1/8 cz | 1,145 | Rem 205P | Win. WAA12 (White) | es | 16.0 | 10,170 |
| | 1 1/8 cz | 1,145 | Rem 205P | Claybuster 0118 | es es | 16.2 | 8,640 |
| | 1 1/8 oz | 1,145 1,145 | Rem 209P Rem 209P | Rem, RXP12 Claybuster 4118 | es es | 16.3 16.5 | 9,465 9,390 |
| | 1 1/8 oz 1 1/8 oz | 1,145 | Rem 209P | Rem. Fig. 8 | e | 16.5 | 9,930 |
| | 1 1/8 oz | 1,145 | Rem 209P | Fed. 1253 | è | 16.7 | 10,425 |
| | 1 1/8 oz | 1,200 | Rem 209P | Win. WAA12 (White) | è | 17.2 | 10,960 |
| | 1 1/8 az | 1,200 | Rem 2099 | Rem. Fig. 8 | es | 17.5 | 10,775 |
| | 1 1/8 oz | 1,200 | Rem 209P | Claybuster 0118 | e ³ | 17.7 | 10,575 |
| | 1 1/8 ax | 1,200 | Rem: 209P | Rem. RXP12 | e ³ | 17.9 | 10,660 |
| | 1 1/8 az | 1,200 | Rem 2097 | Claybuster 4118 | es . | 18.0 | 10,710 |
| Win. Plantic AA Shell | 7/8 oz | 1,200 | Wisc 209 | Rem. YGY 12 | es . | 15.7 | 7,380 |
| | 7/8 cz. | 1,200 | Win 209 | Claybuster 4100-12 B | e ^s | 16.0 | 6,870 |
| | 7/8 cz | 1,300 | Win 209 | Win. WAA12L (Gosy) | es | 16.0 | 7,425 |
| | 7/8 cz. | 1,250 | Win 209 | Ress. TGT 12 | es es | 16.5 | 8,200 |
| | 7/8 cz. 7/8 cz | 1,250 1,250 | Win 209 Win 209 | Claybuster 4100-12 B Win, WAA121. (Gray) | e ³ | 17.0 17.0 | 7,473 8,210 |
| | 7/8 cz | 1,300 | Win 209 | Win, WAA12L (Gray) | e, | 18.0 | 8,385 |
| | 7/8 oz | 1,500 | Win 209 | Rem. TGT 12 | e | 18.3 | 5,730 |
| | l or | 1,150 | Win 209 | Win. WAA12L (Gray) | è | 15.0 | 8,635 |
| | los | 1,150 | Win 209 | Win. WAA12SL | es | 15.5 | 8,085 |
| | i ot | 1,159 | Win 209 | Rem. TGT 12 | es | 15.5 | 8,530 |
| | 1 00 | 1,150 | Win 209 | Claybuster 1100-12 | es . | 16.0 | 8,285 |
| | 3 ox | 1,150 | Win 209 | Duster - Green | e ³ | 16.0 | 8,730 |
| | 1 05 | 1,300 | Win 209 | Win. WAA12SL | es es | 16.5 | 9,240 |
| | 1 00 | 1,200 | Win 209 | Rem. TGY 12 | e s | 16.5 | 9,305 |
| | 1 05 | 1,200 1,200 | Win 209 Win 209 | Win. WAA12L (Gray) Claybuater 1100-12 | e, | 16.5 17.0 | 9,410 8,805 |
| | 1 08 | 1,300 | Win 209 | Duster - Green | e ^s | 17.0 | 9,525 |
| | 1 96 | 1,255 | Win 209 | Win. WAA12L (Gray) | e ^s | 17.5 | 9,740 |
| | 1 02 | 1,255 | Win 209 | Rem, TGT 12 | es . | 17.5 | 10,070 |
| | | | | | | | |
| | log | 1,255 | Win 209 | Chyboster 1100-12 | e, | 18.0 | 9,245 |

All data are for 12-gauge, 2 3/4 inch shells (C3 continued)

| Shel Type | Shot Weight (comes) | Velocity (ips) | Primer | Wud | Powda | Charge Wt. (GRS) | Pressure PSI |
|--|------------------------|-------------------|---------|--------------------|----------------|---------------------|-----------------|
| 2 3/4 inch Win. Plastic AA Shell (continued) | l coz | 1,255 | Win 209 | Durter - Green | e ^s | 18.0 | 10,580 |
| | 100 | 1,290 | Win 209 | Win, WAA128L | e ³ | 18.5 | 10,080 |
| | I oz | 1,290 | Win 209 | Win. WAA12L (Gosy) | è | 28.5 | 10,570 |
| | 1 00 | 1,290 | Win 209 | Rem. TGT 12 | è | 18.5 | 11,015 |
| | Los | 1,250 | Win 209 | Claybuster 1100-12 | e ^a | 19.0 | 10,135 |
| | 1 1/8 ex | 1,090 | Win 209 | Rem. Fig. 3 | 63 | 15.0 | 8,520 |
| | 1 1/8 oz | 1,050 | Win 209 | Claybeater 4118 | e ^a | 15.0 | 8,555 |
| | 1 1/8 ez | 1,050 | Win 209 | Win, WAA12SL | e ⁸ | 15.0 | 8.645 |
| | 1 1/8 ez | 1,050 | Win 209 | Rem. RXP12 | e ^t | 15.0 | 8,700 |
| | 1 1/8 eg | 1,090 | Win 209 | Claybester 0118 | e) | 15.0 | 8,905 |
| | 1 1/8 ex | 1,090 | Win 209 | Duster - Eluc | e, | 15.0 | 9,015 |
| | 1 1/8 ex | 1,090 | Win 209 | Win, WAA12 (White) | e) | 15.0 | 9.090 |
| | 1 1/8 ez | 1,145 | Win 209 | Claybeater 0118 | C ³ | 16.0 | 9,050 |
| | 1 1/8 ca | 1,145 | Win 209 | Rem. Fig. 8 | e) | 16.0 | 9,325 |
| | 1 1/8 oz | 1,145 | Win 209 | Win. WAA12SL | es | 16.0 | 9,625 |
| | 1 1/8 ez | 1,145 | Win 209 | Win. WAA12 (White) | e ³ | 36.5 | 9,900 |
| | 1 1/8 ez | 1,145 | Win 209 | Duster - Kine | e ³ | 16.0 | 10,265 |
| | 1 1/8 ex | 1,145 | Win 209 | Rem. RXP12 | es . | 16.5 | 9.835 |
| | 1 1/8 ex | 1,145 | Win 209 | Clayburter 4118 | e ^a | 16.5 | 9.835 |
| | 1 1/8 ex | 1,200 | Win 209 | Claybeater 0118 | e ^a | 17.0 | 9.970 |
| | 1 1/8 ez | 1,250 | Win 209 | Win, WAA12 (White) | e ³ | 17.0 | 10,450 |
| | 1 1/8 ez | 1,200 | Win 209 | Dester - Rhie | e ^s | 17.0 | 10,505 |
| | 1 1/8 ez | 1,250 | Win 209 | Claybeater 4118 | e ^s | 17.5 | 10,855 |
| | 1 1/8 ex | 1,200 | Win 209 | Rem. Fig. 8 | e ¹ | 17.5 | 10,920 |



INTERNATIONAL



24-Gram International Target Loads with

12-Gauge, 2 3/4 inch Fed. Gold Medal Plastic Target Shells

| | | | | Red | Red Dot | | American Select | | Dot |
|---------------|-------------------|-----------|--------------------|--------|--------------|--------|-----------------|--------|-------|
| Deum Equie | Velocity (fpt) | Prince | Wed | Greins | 94i x1006 | Gruins | psi x(300) | Grains | x1000 |
| 3 1/2 | 1,345 | Fed. 209A | Cherbuster 1100-12 | 20.0 | 8.7 | 21.0 | 8.0 | | |
| | | | Fed. 12SO | 20.0 | 8.9 | 20.5 | 7.9 | | |
| | | | Purple PC | 19.5 | 8.7 | | | | |
| | | | Rem. TGT 12 | 20.5 | 8.9 | 21.0 | 8.1 | | |
| | | | Win. WAA12L (Gray) | 20.0 | 9.0 | 21.5 | 8.1 | | |

24-Gram International Target Loads with

12-Gauge, 2 3/4 inch Fiocchi Plastic Target Shells

| | | | | Red | Dot | America | ın Select. | Green | Dot |
|----------------|-------------------|----------|-----------------------------------|--------------|------------|--------------|--------------|--------|--------------|
| Drem Equire | Velocity (fps) | Frince | Wed | Greitu | zione | Grains | psi x 000 | Grains | psi x1060 |
| 3 1/2 | 1,345 | Fio. 616 | Fed. 125O Furple PC | 20,5 | 8.7 | 22.0 22.5 | 7.8 6.9 | | |
| | | | Rem. TGT 12 Win. WAA12L (Gray) | 20.5 21.9 | 8.2 8.5 | 22.0 22.0 | 7.6 7.5 | | |

24-Gram International Target Loads with

12-Gauge, 2 3/4 inch Rem. Premier, STS Plastic Target Shells

| | | | Red | Dot | American Select | | Green Dot | | |
|----------------|-------------------|-----------|---------------------|--------|-----------------|--------|--------------|--------|---|
| Dram Equiv. | Velocity (fps) | Friner | ₩4 | Grains | ≖1000 | Genina | gai x1000 | Genitu | T 1000 |
| 3 1/2 | 1,345 | Rem. 209P | Claybuater 1100-12 | 20.5 | 8.8 | 20.5 | 6.7 | | 000000000000000000000000000000000000000 |
| | | | Fed. 128O | 20.0 | 9.8 | 20.5 | 9.6 | | |
| | | | Purple PC | 20.5 | 8.3 | 21.0 | 8.1 | | |
| | | | Rem. TGT 12 | 20.5 | 9.2 | 20.5 | 8.5 | | |
| | | | Win, WAA12I. (Gray) | 20.5 | 9.8 | 20.5 | 8.7 | | |

24-Gram International Target Loads with

12-Gauge, 2 3/4 inch Win. AA Plastic Target Shells

| | | | Red | Red Dot | | American Select | | Dot | |
|---------------|-------------------|----------|---------------------------------------|---------|--------------|-----------------|--------------|---|--------------|
| Drun Equix | Velocity (fps) | Primer | Wed | Greiss | 94i x1000 | Genitu | pei 11000 | Grains | pai x1000 |
| 3 1/2 | 1,345 | Win. 209 | Clayburter 1100-12 | 20.0 | 9.6 | 20.5 | 8.7 | 100000000000000000000000000000000000000 | ******* |
| 888888 | | | Fed. 128O | 20.0 | 10.1 | 20.5 | 9.1 | | |
| | | | Fed. 12SO Furple PC Rem. TGT 12 | 20.0 | 9,0 | 21.0 | 8.1 | | |
| | | | Rem, TGT 12 | 20.0 | 9.6 | 20.5 | 8.6 | | |
| | | | Win. WAA12L (Gray) | 20.0 | 10.2 | 20.5 | 9.7 | | |

28-Gram International Target Loads with

12-Gauge, 2 3/4 inch Fed. Gold Medal Plastic Target Shells

| | | | Red | Red Dot | | American Select | | Dot | |
|----------------|-------------------|-----------|--|---------|-------------|-----------------|------------------|--------|----------------|
| Drum Equiv. | Velocity (Spe) | Friner | Wed | Grains | ⊒4 ≖1000 | Gesites | 12(00) | Greias | 21006 21006 |
| 3 1/2 | 1,345 | Fed. 209A | Fed. 125O | 23.0 | 9.9 | 5888888888888 | 2888888888888888 | 24.5 | 9,1 |
| | | | Fed. 12SO Furple PC Retu. Fig. 8 | 23.0 | 8.6 | | | 25.0 | 8.2 |
| | | | Rem. Fig. 8 | 22.5 | 9.5 | | | 25.0 | 8.4 |
| | | | Win. WAA12SL | 22.5 | 9.5 | | | 24.5 | 8.4 |

28-Gram International Target Loads with

12-Gauge, 2 3/4 inch Fiocchi Plastic Target Shells

| | | | Red | Red Dot | | American Select | | Dot | |
|----------------|-------------------|----------|------------------------|---------|--------------|-----------------|--------------|--------|--------------|
| Dram Beure. | Velocity (fps) | Primer | Wed | Grains | psi x1000 | Grains | psi x1900 | Grains | psi x1000 |
| 3 1/2 | 1,345 | Pio. 615 | Ped. 1283 | 22.0 | 9.6 | | | 24.0 | 8.5 |
| | | | Ped. 1283 Purple PC | 22.5 | 9.5 | | | 24.0 | 8.8 |
| | | | Rem. Fig. 8 | 21.5 | 9.7 | | | 24.0 | 8.5 |
| | | | Win. WAA12SL | 21.5 | 10.4 | | | 24.0 | 8.5 |

28-Gram International Target Loads with

12-Gauge, 2 3/4 inch Rem. Premier Plastic Target Shells

| | | | | Red Dot | | American Select | | Green | Dot |
|----------------|-------------------|-----------|--------------------------|---------|--|---|---------------|--------------------------------|--------------|
| Dean Bquir. | Velocity (fps) | Printer | Wed | Greine | psi x1000 | Graine | 2000 x1000 | Grains | pai x1000 |
| 3 1/2 | 1,345 | Rem. 2097 | Fed. 1255 | | | | | 23.0 | 10.3 |
| | | | Purple PC Rem. Hig. 8 | 21.5 | 10.6 | | | 24.0 | 9.9 9.7 |
| | | | | | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | # < < < < < < < < < < < < < < < < < < < | ~~~~~~~~ | 2222 2220 022000000 | |

28-Gram International Target Loads with

12-Gauge, 2 3/4 inch Win.-Western Plastic AA-Type Shells

| Dram Bejuiv. | Velocity (Spe) | Primer | Wed | Red Dot Grains | ரண கர் | Americ Grine | an Select zio | Green Guits | Dot pri x1000 |
|-----------------|-------------------|----------|---|-------------------|-----------|-----------------|------------------|----------------|---------------------|
| 3 1/2 | 1,345 | Win. 209 | Ped. 12S5 Purple PC Rem. Pig. 8 Win. WAA12SL | | | | | 23.0 22.5 | 9.5 10.6 |



NON-TOXIC SHOTSHELL RELOADING DATA

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

Regarding the use of fillers/spacers:

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

Steel Shot Only 10-Gauge, 3 1/2-inch Shells

| Shell Type | Wed | Primer | Powder | Shot Weight (ounces) | Velocity (fps) | Grains | psi (x1900) | Spaces |
|-------------------------------------|---------------------------------------|-----------|--------|-------------------------|-------------------|--------|----------------|--------|
| Reminston (vellow plastic base wad) | Precision Reloading TUPRW105 | Fed. 209A | Steel | 1 1/4 | 1.590 | 50.0 | 9.8 | 1/2 U |
| Remington (yellow plastic base wad) | Ballistic Products #3221000 | Fed. 209A | Steel | 1 5/8 | 1,310 | 37.0 | 10.1 | none |
| Remington Plastic SP | Precision Reloading TUPRW105 | Fed. 209A | Steel | 1 3/8 | 1,475 | 43.5 | 10.0 | 3/8 U |
| Remington Plastic SP | Ballistic Products #3221000 | Fed. 209A | Steel | 1 5/8 | 1,535 | 46.0 | 10.1 | 5/8 U |
| Remington Plastic SP | Rel. Specialties "SAM 1" 10 ga 3 1/2" | Fed. 209A | Steel | 1 3/8 | 1,555 | 48.0 | 10.3 | 1/4 U |
| Remington Plastic SP | Precision Reloading TUPRW105 | Fed. 209A | Steel | 1 1/2 | 1,345 | 37.5 | 10.3 | 1/4 U |
| Remington Plastic SP | Ballistic Products #3221000 | Fed. 209A | Steel | 1 1/2 | 1,385 | 39.0 | 10.1 | 1/4 U |
| Remington Plastic SP | Rel. Specialties "SAM 1" 10 gz 3 1/2" | Fed. 209A | Steel | 1 1/2 | 1,470 | 45.0 | 10.1 | 1/8 U |
| Winchester Polyformed | Rel. Specialties "SAM 1" 10 ga 3 1/2" | Fed. 209A | Steel | 1 3/8 | 1,538 | 45.5 | 10.2 | 1/4 U |
| Winchester Polyformed | Rel. Specialties "SAM 1" 10 ga 3 1/2" | | Steel | 1 1/2 | 1,415 | 41.0 | 9.9 | 1/8 U |

Steel Shot Only 12-Gauge, 2 3/4-inch Shells

| Wad | Primer | Powiet | Shot Weight | Velocity (fee) | Contra | psi (~1000) | Spacers |
|--------------------------------------|---|--|---|--|--|---|---|
| | | | (Diabas) | 10240 | Course | (Automy) | |
| Rel. Specialties "SAM 1" 12 ga 2 3/4 | Fed. 209A | Steel | 7/8 | 1,700 | 42.0 | 7.8 | 1/8 U |
| Ballistic Products #3221275 | Fed. 209A | Steel | 7/8 | 1,765 | 45.0 | 9.0 | none |
| Ballistic Products #3221275 | Fed. 209A | Steel | 1 | 1,480 | 33.0 | 9.5 | 1/8 U |
| Precision Reloading TUPRW12 | Fed. 209A | Steel | 1 | 1,500 | 37.0 | 8.0 | 1/8 U |
| Rel. Specialties "SAM 1" 12 ga 2 3/4 | Ped. 209A | Steel | 1 | 1,520 | 36.0 | 9.2 | none |
| Rel. Specialties "SAM 1" 12 ga 2 3/4 | Ped. 209A | Steel | 1 1/8 | 1,380 | 32.0 | 9.0 | none |
| Precision Rel. TUPRW12 | Ped. 209A | Steel | 1 1/8 | 1,425 | 32.0 | 9.6 | none |
| Precision Rel. TUPRW12 | Ped. 209A | Steel | 1 | 1,520 | 35.5 | 10.8 | none |
| Rel. Specialties "SAM 1 12 ga 2 3/4 | Ped. 209A | Steel | 1 | 1,546 | 35.5 | 10.3 | none |
| Precision Rel. TUPRW12 | Ped. 209A | Steel | 1 1/8 | 1,351 | 29.5 | 10.4 | none |
| Rel. Specialties "SAM 1" 12 ga 2 3/4 | Ped. 209A | Steel | 1 1/8 | 1,428 | 32.5 | 10.4 | none |
| | Rel. Specialties "SAM 1" 12 ga 2 3/4 Ballistic Products #3221275 Ballistic Products #3221275 Precision Reloading TUPRW12 Rel. Specialties "SAM 1" 12 ga 2 3/4 Rel. Specialties "SAM 1" 12 ga 2 3/4 Precision Rel. TUPRW12 Precision Rel. TUPRW12 Rel. Specialties "SAM 1 12 ga 2 3/4 Precision Rel. TUPRW12 | Rel. Specialties "SAM 1" 12 ga 2 3/4 Ped. 209A Ballistic Products #3221275 Ped. 209A Ballistic Products #3221275 Ped. 209A Precision Reloading TUPRW12 Ped. 209A Rel. Specialties "SAM 1" 12 ga 2 3/4 Ped. 209A Precision Rel. TUPRW12 Ped. 209A Precision Rel. TUPRW12 Ped. 209A Rel. Specialties "SAM 1" 12 ga 2 3/4 Ped. 209A Precision Rel. TUPRW12 Ped. 209A | Rel. Specialties "SAM 1" 12 ga 2 3/4 Ped. 209A Steel Ballistic Products #3221275 Ped. 209A Steel Ballistic Products #3221275 Ped. 209A Steel Precision Reloading TUPRW12 Ped. 209A Steel Rel. Specialties "SAM 1" 12 ga 2 3/4 Ped. 209A Steel Rel. Specialties "SAM 1" 12 ga 2 3/4 Ped. 209A Steel Precision Rel. TUPRW12 Ped. 209A Steel Precision Rel. TUPRW12 Ped. 209A Steel Rel. Specialties "SAM 1 12 ga 2 3/4 Ped. 209A Steel Precision Rel. TUPRW12 Ped. 209A Steel Precision Rel. TUPRW12 Ped. 209A Steel Precision Rel. TUPRW12 Ped. 209A Steel | Rel. Specialties "SAM 1" 12 ga 2 3/4 Red. 209A Steel 7/8 | Rel. Specialties "SAM 1" 12 ga 2 3/4 Ped. 209A Steel 7/8 1,700 | Rel. Specialties "SAM 1" 12 ga 2 3/4 Ped. 209A Steel 7/8 1,700 42.0 | Rel. Specialties "SAM 1" 12 ga 2 3/4 Ped. 209A Steel 7/8 1,700 42.0 7.8 |

Steel Shot Only 12-Gauge, 3 inch Shells

| Sheli Type | Wad | Primer | Powder | Shot Weight (ounces) | Velocity (fps) | Grains | psi (x1990) | Spacers |
|---------------------------------|------------------------------|------------|--------|-------------------------|-------------------|--------|----------------|---------|
| Federal 0.090 Integral Base Wad | Precision Reloading TUPRW123 | Fed. 209A | Steel | 1 | 1,660 | 44.0 | 9.4 | 1/4 U |
| Federal 0.090 Integral Base Wad | Ballistic Products #3221230 | Fed. 209A | Steel | 1 | 1,690 | 45.0 | 10.5 | 3/8 U |
| Federal 0.090 Integral Base Wad | Rel, Specialties 12 ga 3" | Fed. 209A | Steel | 1 | 1,720 | 47.0 | 8.9 | 3/8 U |
| Federal 0.090 Integral Base Wad | Ballistic Products #3221230 | Fed. 209A | Steel | 1 1/8 | 1,510 | 37.0 | 10.4 | 1/4 U |
| Federal 0.090 Integral Base Wad | Precision Reloading TUPRW123 | Fed. 209A | Steel | 1 1/8 | 1,515 | 38.0 | 10.9 | 1/4 U |
| Federal 0.090 Integral Base Wad | Rel. Specialties 12 ga 3° | Fed. 209A | Steel | 1 1/8 | 1,580 | 40.5 | 10.7 | 1/8 U |
| Federal 0.090 Integral Base Wad | Precision Reloading TUPRW123 | Fed. 209A | Steel | 1 1/4 | 1,355 | 33.0 | 10.5 | 1/8 U |
| Federal 0.090 Integral Base Wad | Ballistic Products #3221230 | Fed. 209A | Steel | 1 1/4 | 1,370 | 33.0 | 10.5 | 1/8 U |
| Federal 0.090 Integral Base Wad | Rel. Specialties 12 gz 3" | Fed. 209A | Steel | 1 1/4 | 1,455 | 37.0 | 10.8 | 1/8 U |
| Federal Hi-Power 7/16 Base Wad | Ballistic Products #9221230 | Fed. 209A. | Steel | 1 | 1,665 | 45.0 | 8.9 | 1/4 U |
| Federal HI-Power 7/16 Base Wad | Rel, Specialties 12 ga 3" | Fed. 209A | Steel | 1 | 1,700 | 48.0 | 8.2 | 1/4 U |
| Federal Hi-Power 7/16 Base Wad | Ballistic Products #3221230 | Fed. 209A | Steel | 1 1/8 | 1,550 | 39.5 | 10.6 | 1/4 U |
| Federal HI-Power 7/16 Base Wad | Rel. Specialties 12 ga 3" | Fed. 209A | Steel | 1 1/8 | 1,560 | 40.5 | 10.5 | 1/8 U |
| Federal Hi-Power 7/16 Base Wad | Ballistic Products #3221230 | Fed. 209A | Steel | 1 1/4 | 1,390 | 33.0 | 10.9 | 1/4 U |
| Federal HI-Power 7/16 Base Wad | Rel. Specialties 12 gs. 3" | Fed. 209A | Steel | 1 1/4 | 1,430 | 36.0 | 10.5 | попе |
| Remineton Nitro Steel | Ballistic Products #3221230 | Fed. 209A | Steel | 1 1/8 | 1,440 | 33.5 | 10.8 | 1/4 U |
| Rumington Nitro Steel | Precision Reloading TUFRW123 | Fed. 209A | Steel | 1 1/8 | 1,457 | 35.0 | 10.7 | 1/4 U |
| Remineton Nitro Steel | Rel. Specialties 12 ga 3" | Fed. 209A | Steel | 1 1/8 | 1,479 | 33.0 | 10.6 | 1/4 U |
| Remington Nitro Steel | Precision Reloading TUPRW123 | Fed. 209A | Steel | 1 1/4 | 1,392 | 32.0 | 10.7 | 1/8 U |

Steel Shot Only 12-Gauge, 3 1/2-inch Shells

| Shell Type | Wud | Primer | Shot Weight (ounces) | Velocity (fps) | Grains | psi (x1000) | Spacers |
|---------------------------|-------------------------------|-----------|-------------------------|-------------------|--------|----------------|---------|
| Federal Integral Base Wad | Reloading Specialties "SAM 1" | Fed. 209A | 11/4 | 1,510 | 45.0 | 10.4 | 3/8 U |
| Federal Integral Base Wad | Ballistic Products mm12312 | Fed. 209A | 1 1/4 | 1,560 | 45.0 | 10.9 | 1/8 U |
| Federal Integral Base Wad | Precision Reloading TUPRW1235 | Fed. 209A | 1 1/4 | 1,565 | 45.0 | 10.7 | 1/2 U |
| Federal Integral Base Wad | Precision Reloading TUPRW1235 | Fed. 209A | 1 3/8 | 1,470 | 40.0 | 12.5 | 5/8 U |
| Federal Integral Base Wad | Ballistic Products mm12312 | Fed. 209A | 1 3/8 | 1,485 | 41.5 | 12.6 | 3/8 U |
| Federal Integral Base Wad | Precision Reloading TUPRW1235 | Fed. 209A | 1 1/2 | 1,360 | 36.0 | 12.6 | 5/8 U |
| Federal Integral Base Wad | Ballistic Products mm12312 | Fed. 209A | 1 1/2 | 1,385 | 37.0 | 12.8 | 1/4 U |
| Federal Integral Base Wad | Reloading Specialties "SAM I" | Fed. 209A | 1 1/2 | 1,390 | 39.0 | 13.3 | 1/4 U |
| Remington Plastic SP | Reloading Specialties "SAM 1" | Fed. 209A | 11/4 | 1,595 | 45.0 | 13.1 | 3/8 U |
| Remington Plastic SP | Ballistic Products mm12312 | Fed. 209A | 1 1/4 | 1,615 | 45.0 | 13.3 | 3/8 U |
| Remington Plastic SP | Ballistic Products mm12312 | Fed. 209A | 1 3/8 | 1,430 | 37.0 | 12.8 | 1/4 U |
| Remington Plastic SP | Reloading Specialties "SAM 1" | Fed. 209A | 1 3/8 | 1,430 | 38.5 | 12.8 | 3/8 U |
| Remineton Plastic SP | Ballistic Products mm12312 | Fed. 209A | 1 1/2 | 1,305 | 33.0 | 13.0 | 1/4 U |
| Remington Plastic SP | Reloading Specialties "SAM 1" | Fed. 209A | 1 1/2 | 1,330 | 35.0 | 13.0 | 1/4 U |

Bismuth Shot Only

12-Gauge, 23/4-inch Shells

| Sheli Type | Wed | Primer | Powder | Shot Weight (muses) | Velocity (fps) | Grains | pei (x1000) | Spacers |
|--|------------------------|------------------------|----------------|------------------------|-------------------|--------------|----------------|----------------|
| 2 1 100 CD D 201 | × 1010 | 7. 7. 444.1 | | | | | | |
| Federal 7/16 Paper Base Wad Remington premier STS | Rem. RP12 Rem. RP12 | Fed. 209A Fed. 209A | Hereo Hereo | 1 1/8 1 1/8 | 1,300 1,292 | 27.0 25.0 | 9.5 10.4 | 1/8,0 1/8,0 |
| Remington premier STS | Claybuster 1138-12 | Fed. 209A | Blue Dot | 1 1/4 | 1,421 | 39.5 | 10.1 | None |

Bismuth Shot Only 12-Gauge, 3-inch Shells

| Shell Type | Wed | Primer | Powder | Shot Weight (ounces) | Velocity (fps) | Grains | psi (x1900) | Spicen |
|----------------------------------|-----------|-----------|----------|-------------------------|-------------------|--------|----------------|--------|
| Federal .090 Integral Base Wad | Rem. SP12 | Fed. 209A | Blue Dot | 1 3/8 | 1,507 | 46.0 | 10.7 | 1/8. O |
| Federal .090 Integral Base Wad | Fed. 1254 | Fed. 209A | Blue Dot | 1 1/2 | 1,310 | 38.0 | 10.1 | None |
| Federal .090 Integral Base Wad | Rem, RP12 | Fed. 209A | Blue Dot | 1 1/2 | 1,359 | 40.0 | 10.8 | 1/4, O |
| Federal 7/16 Paper Base Wad | Rem. SP12 | Fed. 209A | Blue Dot | 1 3/8 | 1,464 | 43.5 | 10.7 | 1/4,0 |
| Federal 7/16 Paper Base Wad | Rem, RP12 | Fed. 209A | Blue Dot | 1 1/2 | 1,347 | 39.0 | 10.4 | 1/8, O |
| Remington SPELV plastic Base Wad | Rem, RP12 | Fed. 209A | Blue Dot | 1 3/8 | 1,473 | 44.0 | 10.7 | 1/8, O |
| Remington SPELV plastic Base Wad | Rem, SP12 | Fed. 209A | Blue Dot | 1 3/8 | 1,564 | 50.0 | 10.7 | None |
| Remington SPELV plastic Base Wad | Rem, RP12 | Fed. 209A | Blue Dot | 1 1/2 | 1,441 | 45.0 | 10.7 | None |

Hevi Shot Only

12-Gauge, 23/4-inch Shells

| Shell Type | Wed | Primer | Powies | Shot Weight (outsign) | Velocity (fps) | Grains | psi (x1900) | Specien |
|-----------------------------|-------------------------------------|-----------|--------|--------------------------|-------------------|--------|----------------|--------------|
| | | | | | | | | |
| Federal 7/16 Paper Base Wad | Precision Reloading TUPRWIZ (White) | Fed. 209A | STEEL | 1 3/8 | 1,320 | 33.5 | 10.6 | 1/8 O, 1/4 U |

Hevi Shot Only

12-Gauge, 3-inch Shells

| Shell Type | Wed | Frimer | Powlet | Shot Weight (ounces) | Velocity (Eye) | Grains | psi (±2000) | Spaces |
|--------------------------------|-------------------------------------|------------|----------|-------------------------|-------------------|--------|----------------|--------|
| Federal COS Tetrand December 1 | node na Posta Parana (Occasi) | F: 1 000 h | etterer. | 1.245 | 1.173 | 40.0 | 10.0 | 2/0.11 |
| Federal .090 Integral Base Wad | Precision Reloading TUPR23 (Orange) | Fed. 209A | STREE | 1 3/8 | 1,372 | 40.0 | 10.3 | 3/8 U |
| Federal .090 Integral Base Wad | Precision Reloading TUPR23 (Orange) | Fed. 209A | STREEL | 1 1/2 | 1,294 | 34.0 | 10.9 | 3/8 U |
| Federal 7/16 Paper Buse Wad | Precision Reloading TUPR23 (Orange) | Fed. 209A | STREL | 1 3/8 | 1,371 | 36.5 | 10.6 | 3/8 U |
| Federal 7/16 Paper Base Wad | Precision Releading TUPR23 (Orange) | Fed. 209A | STREL | 1 1/2 | 1,274 | 33.0 | 10.5 | 1/4 U |
| Remington SPEDV plastic | Precision Reloading TUPR23 (Orange) | Fed. 209A | STREL | 1 1/4 | 1,462 | 40.0 | 10.3 | 3/8 U |
| Remington SPELV plastic | Precision Reloading TUPR23 (Orange) | Fed. 209A | STREEL | 1 3/8 | 1,385 | 37.5 | 10.9 | 3/8 U |
| Remington SPELV plastic | Precision Reloading TUPR23 (Orange) | Fed. 209A | STREEL | 1 1/2 | 1,259 | 33.0 | 10.9 | 1/4 U |

BUCKSHOT RELOADING

10-Gauge, 3 1/2 inch Fed. Plastic Shell Buckshot Loads

| Printer | Shell | No. and Sire | Welecity | Wed | Unique | Horco | Mac Dot | 2400 |
|----------|--------------------------|------------------|----------|--|---------|-----------------------|------------------------|---------|
| | | Buchhet | (294) | | (a1000) | Grains per (±1000) | (21000) | (x1000) |
| Ped. 209 | Fed. Plastic Shell | 40-45 17-05 | 1,275 | SP10+.270 in. 20 ga. Card. SP10+.135 in. 20 ga. Card. | | | 45.0 10.1 46.0 10.0 | |
| Rem. 57 | Rem. Plastic Shell | 40-4's 17-0's | 1,275 | SP10+.270 in. 20 ga. Card SP10+.135 in. 20 ga. Card | | | 46.0 10.1 48.5 9.8 | |
| Win. 209 | WinWestern Plastic Shell | 40-4's 17-0's | 1,275 | SP10+.270 in. 20 gs. Card SP10 | | | 47.5 10.0 51.0 9.5 | |

12-Gauge, 3 inch Fed. Buckshot Loads

| Primer | Stell | No. and Size | Velocity | Wei | Unique | Horo | | Elac | Dat | 24 | 00 |
|----------|----------------|----------------------------|-------------------------|--|------------------------|--------|----------------|--------------|----------------|--------|----------------|
| | | Suchhiet | (fju) " | | Grains pei (ki1001) | Grains | pei (x1000) | Grains | pci (23000) | Geséss | psi (x1000) |
| Fed. 209 | Hi Power Shell | 18-1's 33-4's 12-0's | 1,225 1,250 1,275 | Bal. Prod. GS&SC Bal. Prod. GS&SC RP12+, 200 in. 20 sa. Cand | - | 31.5 | 9.8 | 36.0 37.0 | 9.7 10.5 | 50.0 | 8.1 |
| Rem. 97* | Unibody Shell | 18-1's 33-4's 12-0's | 1,225 1,250 1,275 | Bal. Prod. GS&SC Bal. Prod. GS&SC RP12+200 in, 20 gs. Card | | 29.5 | 10.0 | 35.5 | 9.8 | 46.0 | 9.4 |

20-Gauge, 2 3/4 inch Fed. Hi Power Plastic Buckshot Loads

| Primer | Shell | No. and Size Recisives | Velocity (fps) | Wed | Unique Grains pel (x1000) | Heros Grains | pei (x1000) | Blac Grains | Dot pei (±1000) | 24 Grains | 00 [si (xH(00) |
|----------|-----------------------------|----------------------------|-------------------------|---|---------------------------------|-----------------|----------------|----------------------|-----------------------|--------------|----------------------|
| Fed. 209 | Fed. Hi Power Plastic Shell | 24-3's 18-4's 12-1's | 1,200 1,275 1,275 | Rem. SP20 Petals Removed. Rem. SP20 Rem. SP20 Petals Removed. | | 19.0 | 11.6 | 24.0 25.0 25.5 | 11.2 9.3 10.1 | | |
| Win. 209 | WinWestern AA-Type Shell | 18-4's 12-1's | 1,275 1,275 | Rem. SP20 Rem. SP20 Petals Removed | | | | 24.0 25.5 | 9.5 10.4 | | |

20-Gauge, 3 inch Fed. Buckshot Loads

| Primer | Seli | No. and Size Bushshot | Videoity (fiju) | Wal | Unique Grains pai (x1001) | Henri Grzins | pei (x1000) | Shar Dot Grains pai (21000) | 2600 Genius pai (x1600) |
|-------------|------------------------|--------------------------|--------------------|---------------------------|---------------------------------|-----------------|----------------|-----------------------------------|-------------------------------|
| *********** | | | ****** | | | ********** | ************ | ************ | |
| Fed. 209 | Hi Power Plastic Shell | 18-3's 21-3's | 1,220 1,220 | Rem. RXP20 Rem. SP20 | | 19.5 | 8.4 | 26.0 7.8 | |
| Win. 209 | AA-Type Shell | 21-5% 18-5% | 1,200 1,220 | Rem. RP20 Win. WAA20F1 | | 19.0 | 9.5 | 25.0 9.4 | |

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RIFLED SLUG LOADS

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

| Sing WL | Princer | Velocity Wed | Heron Blue Det | |
|------------|-----------|--|------------------------------------|------------|
| - | | (\$ps) . | Greins pei Greins pe (x1000) (x | i 1000) |
| l oz., Lee | Fed. 209A | 1,538 Win. WAA12 (White) 1,690 Win. WAA12 (White) | 34.0 10.4 | 0.2 |

12-Gauge, 2 3/4 inch Remington Premier, STS

| Sing Wt. | Prince | Velocity Wed (fgn) | Greins | Hense pgi (x1000) | Blue Grades | Det pai (x1000) | |
|--------------------------|----------------------|--|--------|-------------------------|----------------|-----------------------|------|
| l oz., Lee l oz., Lee | Win. 209 Win. 209 | 1,522 Wiss WAA12 (White) 1,673 Wiss WAA12 (White) | 34.0 | 10.4 | 49.0 | 10.2 | 8888 |

12-Gauge, 2 3/4 inch Winchester AA

| Sing Wt. | Prince | Velocity (fps) | Wed | Greina Greina | psi (x1000) | Hue Det Grains pei (x1000) | |
|------------|----------|-------------------|--------------------|------------------|----------------|----------------------------------|--|
| l oz., Lec | Win. 209 | | Vis. WAA12 (White) | 36.0 | 10.6 | | |

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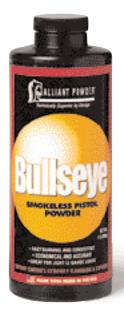


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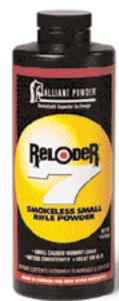


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and 1-lb. canisters.

RELORDING PISTOL/REVOLVER

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| 115 EM | Win. Will | 1.12 | * | 9.0 | 1,180 51.0 | Ş | 1,150 32.6 | | | | 1,150 50.0 | 55 | 5 1,168 | 8 33.2 | 67 1280 | 33.5 | 6.3 1,180 | 0 28.7 | 8.0 1,190 | 0 292 | | |
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| 147 XTP | Win. WSP | Ŧ | • | 2 | 1,010 \$2.9 | 2 | 895 32.4 | 3.7 890 | 0 32.7 | 2 | 990 322 | <u>.</u> | 3.9 912 | 3119 | 5.7 1,095 | 200 | 43 1,630 | 0 305 | 62 1,050 | 802 | | |
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| 160 LRN | Win, WSP | 0.965 | • • | 22 | 202 | 25 | 86 213 | | | 22 | 98 218 | 79 | 3 985 | 5 20.9 | 23 23 | 316 | | | | | | |
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| 158 LSWC | Red 200 | 1.58 | 9.6 | | 1,320 33.9 | 2 | | 6.0 1,210 | 0 32.8 | 9 | | | 8 1,79 | 5 33.9 | | | | 5 33.9 | L | | | |
| DARING TANKS | Red. 200 | 1.585 | 9.6 | | 1,175 33.9 | 2.4 | | 2 | | 3 | | | 8 1,17 | | 8.0 1,195 | 33.3 | | | 5 | | 12.1 1,365 | 38 |
| 180 JPP | E4 20 | 5 | 96 | 69 | 1,135 34.0 | 23 | 930 33.2 | 43 | | 35 | 26 910,1 | 34.0 7. | 7.0 1,125 | 5 33.8 | | 33.8 | 7.2 1,130 | 0 34.0 | 9.7 1,260 | 0 33.3 | 12.5 1,300 | 38 |
| The same | 1244 1444 | - Application | ŧ | | Autor Service | | | | | | | <u>.</u> | | | | | | | L | | ALL SHOP | 9 |
| 38 Special 110 H/P | Fed. 100 | | 90 | | 1,085 14.9 | 9 | | 7 | | 9.6 | | | | | | | | | 5 | | | |
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| 148 DVC | Ped. 100 | | 3.6 | | 631 518 | 572 | | | | 2.9 | | | | | | | | | 53 | | | |
| 148 LWC (turnel) | Red. 100 | | 9,6 | | 785 14.6 | 2.3 | | 3.0 805 | 9.61 8 | 2.7 | | _ | | | | | | | | | | |
| 158 LSWC | Fed. 100 | | 9.6 | | 910 15.5 | 3,1 | | | | 3.5 | | ಼ | | 0.91 0 | | | 4.5 20 | 930 13.8 | 6.1 955 | 9 15.6 | | |
| ISB LSWC | Rem. SP 1.5 | | 9'6 | | | nninnin | | 4.3 950 | 691 08 | | | | | | | | | | | | | |
| 160)52 | Ped. 100 | | 3.6 | 3.5 | 905 15.6 | | 715 15.7 | | | 3.6 | 28 15 | 15.8 4.2 | 2 500 | | | - | 44 50 | 808 16.0 | 3 | 5 15.5 | | |
| DECLEN | Hed. 100 | | 9'6 | 2 | 760 15.1 | 77 | | | | 77 | | | | 0 15.7 | | | | 15.5 | | | | |
| 38 Special +P | 200 | | 31.30 | | - | | | | 3 | | | | 212 | | | | | | | | 3 | |
| e)HD | Red. 100 | 141 | 9.6 | 99 | 1,340 17.0 | 2 | 1,245 17.0 | | | 3.1 | 1,280 16 | 16.9 6.3 | 3 1,300 | 8.91 D | | | 6.5 1,310 | 0 17.1 | 911,345 | 6 16.9 | | |
| 110 JHP | Æ. 100 | 143 | 9,6 | | 1,175 174 | 7 | | - | W. W. W. W. | | | _ | 9 1.16 | | 6.5 1,200 | 77 | | | 2 | | | |
| 125/52 | Md. 100 | 1.445 | 9.6 | | 1,090 17.5 | 4.1 | | | | | | | 6 1,00 | | | 17.2 | | | 2 | | | |
| 158 LSWC | Red. 100 | 7.42 | 9,6 | 8 | 945 17.2 | 2 | | 4.3 930 | 69 08 | | | - | g s | | | - | | 5 173 | 3 | | X1000001001001 | |
| 60.00 | Fed. 100 | 1,635 | 9.6 | 2 | 520 17.1 | 2 | 750 17.4 | | | | | _ | 4 58 | | 4.9 880 | 880 17.3 | | | 3 | | | |
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| 38 Super Auto +P 115 JRP 110 PAJ 147 X.TP 158 L | Ren. SP 1.5 Ren. SP 1.5 Ren. SP 1.5 Ren. SP 1.5 | 1235 | n n n n | 2232 | 036 9671 936 9671 936 9671 | 2223 | (,155,33.5 (,093,33.9 0,09,33.9 0,00,33.9 | No S S | M M 4 5 | 57 1,235 33.8 5.2 1,135 33.6 4.7 1,085 33.5 4.9 1,025 33.9 | 56 1,265 58 1,100 59 1,000 | 33.8 34.0 5 34.0 5 35.0 | 233 | 25 34 25 34 25 35 | 64 U80 1136 186 U80 | 50 34.0 55 35.5 55 35.8 | 90.21,560 35.0 9.11,265 32.5 8.61,220 35.9 8.31,190 35.9 | 0 5 6 6 5 | 1,215 93.6 | |
| 357 Sig. 90 JEP 115 JEP 125 JEP 125 JEP 147 XEP | 20 DE 100 | 91818 | **** | 53532 | 1,564.97.9 1,337.97.6 1,345.97.0 1,346.97.0 | 238 | (A95 354 (285 37.1 (215 37.2 | 8.5 1,506 7.1 1,288 7.0 1,219 5.2 985 | 37.1 7.8 37.4 6.9 37.1 6.5 | 7.8 1,545 36.5 6.9 1,305 37.0 6.5 1,355 36.8 | 9.2 1,615 8.0 1,377 7.5 1,300 5.8 1,100 | 35.1 25.2 27.2 | 100 20 | 715 37.0 505 36.2 257 36.9 | 0.1 1,625 8.7 1,400 8.3 1,945 6.4 1,140 | 25 34.6 30 36.6 35 37.6 | 12.81,690.35.3 11.31,495.37.4 10.51,405.36.5 10.51,375.36.7 8.21,205.355.8 | 04004 | | |
| 380 Auto 88 JHP 90 JHP 90 XTP 95 RM 100 PM 3N | Win. WSP Win. WSP Win. WSP Win. WSP Win. WSP | 6.96 6.975 6.975 | 22222 | 1 22 22 | 26 123 26 143 26 143 26 147 | ភភ ភាព | 88 88 33 38 | 3 | | \$2 EX | 33 33 88 88 | | | 188 | | | 86 8 | t ha n | | |
| 3840 Win. 150 gr. Stern JEP 180 gr. Stern JEP 300 gr. Bornsky PMJ/EP | | 1585 1585 1585 | 3.5 3.6 3.6 | 332 | %0 12.6 520 12.2 750 12.4 | 322 | 70 123 70 123 685 124 | Mar of | ત્રું જે છે | 6.8 990 12.7 5.6 745 12.7 5.5 730 12.5 | 232 232 | 27. 27. 27. 27. 27. 27. 27. 27. 27. 27. | | | 222 | 995 13.1 795 13.1 785 13.3 | 11.51,020 15.1 10.3 875 15.2 9.9 840 15.5 | 22 E | 970 IB.1 875 IB.4 890 IB.5 | |
| ASSEW Amen 135 JHP 150 JHP 170 XTP 170 XTP 180 JHP 180 JHP 200 JHP | Who was Who was Who was Who was Who was Who was | eeddigee | ****** | 22323323 | 125 25 25 25 25 25 25 25 25 25 25 25 25 2 | 22 13 21 | 1,155 34.0 1,155 34.0 365 34.0 365 35.0 895 35.0 | 50 1,140 57 1,661 54 1,000 50 902 47 895 42 895 43 895 | 24 24 25 | 7.5 1,336 33.1 6.2 1,175 33.2 5.6 1,065 33.7 5.5 1,016 33.6 5.1 955 33.6 4.5 896 33.6 | 55 1280 57 1285 57 1285 58 1266 53 735 51 1200 53 735 | 8 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 325533333 | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 | 8.2 1,215 7.4 1,125 7.5 1,005 6.7 1,000 5.5 935 | 55 35.9 55 34.0 56 35.8 50 35.8 | 11.51.285 94.0 9.51.170 33.9 8.51,040 35.8 8.71,040 33.8 | 2 6 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 1,110 39.6 1,025 39.9 975 30.6 925 30.6 | |
| 100mm Auto 135 JHP 150 JHP 155 L 170 JHP 180 JHP 190 JHP 200 DAG | A | ******* | 20000000000000000000000000000000000000 | 2 23 22 | 1,150 34.0 1,125 34.0 1,125 35.9 1,050 35.5 | | | | | | 7.5 1,000 6.2 1,035 7.0 1,035 5.8 946 | 88 58 88 88 58 58 | 50 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 120 356 120 350 120 350 120 359 120 359 145 356 | 52 1,236 73 1,146 73 1,146 65 365 | 90 33.6 90 33.6 90 33.8 83 33.6 | 11.51,340 34.1 10.11,180 33.5 10.41,220 35.8 10.01,185 36.0 8.91,110 35.8 | | 256 1,270 336 12,6 1,190 33,8 12,5 1,195 35,8 11,2 1,115 94,1 | |
| At Rem. Mag. 200 HP 210 ISP 220 HP 200 ISP 200 ISP 240 L | Ren 13 Ren 13 Ren 13 Ren 13 | 555 35 | 222 22 | 35 33 35 | 1,255 355 1,256 355 1,250 355 1,500 35 1,500 35 1,500 35 1,500 35 1,500 35 1 | 222 32 | 25 55 15 15 15 15 15 15 15 15 15 15 15 15 | - | 1 1 | 45 1,170 350 87 1,165 35.8 7.9 1,166 35.8 66 990 12.2 55 890 12.2 | 10.0 1,280 10.1 1,265 9.3 1,215 8.0 1,890 6.7 930 | 5 857 5 853 6 124 0 125 | | 77 | 621 1320 623 1320 83 1,220 73 1,000 71 855 | 20 35.9 20 35.8 20 35.8 20 12.5 35 12.4 | 14.01,470 36.0 13.51,425 33.8 12.51,365 35.3 12.01,225 2.3 9.9 1,125 22.5 | 12 14 15 17 15 15 15 15 15 15 15 15 15 15 15 15 15 | 1,00 M | |
| 44 Rem. Mass. 180 JaC 200 JaP 215 JaP 240 JSP | Hed 150 Ped 150 Ped 150 | 3223 | 3333 | 3322 | | 927 827 7.7 | 1,410 34.4 1,320 34.8 1,090 35.0 | 11.2 1,435 10.6 1,320 9.1 1,165 8.6 1,100 | 34.1 34.1 34.1 34.2 34.2 34.2 34.2 34.2 34.2 34.2 34.2 | 2 1,478 34.5 7 1,378 34.5 2 1,238 34.7 7 1,198 35.0 | 13.0 1.50 13.0 1.475 16.7 1.290 16.3 1.290 | 3448 | 14.9 1, 23.1 | 036 80,1 | 13.6 1.560 13.0 1.455 11.0 1.285 10.5 1.245 | 3888 3888 | 1901,725 %6 17.01,265 35.4 15.11,465 %5 14.41,380 54.8 | 8488 8488 | 565 54 550 54 54 54 54 | |

Pistol and Revolver Loads

| | | | · · | | 16 | | | _ | | | - | | • | | | 3 | | X 2000 | | | | | | | | | | | | | | none management | , | | | | Pi | | |
|------------|---------|-------------------------|--------------------------------|--------------|----------------|--------------|-------------------------|--------------|-------------------------------|----------------|-------------------------------|----------|-----------|--------|---------------|----------|----------------|----------|----------------|--------------|------------------|----------|--------|-----------------|----------|----------|----------|----------|----------|---------|---------|-----------------|---------|----------|---------|---------|-----------|------------|--------------------|
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| | 퓌 | | 75 34 | | 25 05 | | 05 34.2 | | 32 | | 20 11 | | 865 123 | | | 920 15.6 | | 3 | 8 | | | 209 162 | | | | 865 19 | 961 09 | | | | | | 9 | £11 5% | | | 750 12.3 | | |
| ş | ž | | 12.5 1.390 33.8 16.61.475 34.7 | | 12,71,250 34.6 | | 94 1,015 35.0 11.71,105 | | 8.9 1,005 35.0 10.71,110 34.9 | | 9.8 1,000 12.6 13.51,020 11.9 | | 9.7 | | | 606 | | 200 | 10.51,000 19.5 | | | 5 | | | | 8.3 | | | | | | | | 13.0 9 | | | 20.0 | | |
| _ | x1900 | | 9.8 | - | | | 5.0 1 | | E 0'6 | 1 | 2.6 | | 12 | - | - | - | 5.8 | | 5.5 | - | - | - | 19.5 | 3.6 | | - | 18.6 | | | - | | - | á | 11.4 | | | 2.5 | | |
| a a | - 1 | | 330 | | 95 1,125 34.7 | | 015 3 | | 808 | | 900 | | 608 | | | | 8 | | 25 | | | | E | | | | 3 | | | | | | | 568 | | | 8 | | |
| | ¥ | | 2.5 1 | | 9.5 1 | | 94 1 | | 8.9 1. | | 9.8 1 | | 7.7 | | 85 1, | 2 | 8.2 | 3 | 77 | | | 2 | 7.0 | 5.3 | | 6.5 | 6.6 | | | | | | | 9.5 | | | 7.2 | | |
| The Page | OG I | | | | | | 9.1 1,015 34.5 | | | 5 | | | | | | manj | 8.6 1,025 18.8 | - | 986 19.9 | | | 895 20.0 | | | 815 19.9 | | | | 075 21.7 | 030 222 | | 890 22.2 | 3 | | | | | | |
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| Į. | - 1 | | 8 | | 7.8 1.045 35.0 | | 865 35.0 | | 22 | | 9 | | 383 | | | | 8 | | 2 | | 8 | | | ĕ | | 8 | | | | | | | | 946 13.5 | | | 3 | | |
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| Ē | . | | 173 | | 8 | | 8 | | 88 | | 988 | | 9 | | 1.155 | ĝ | Ł | | 68 | | 2 | 616 | 2 | 2 | | ß | | | | | | | | 915 | | 830 | 889 | | |
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| Min. OAL | (inche) | | 91 | 1.62 | 1.62 | 3.68 | 97 | 1.69 | 971 | | 1.6 | 1.59 | 139 | | 127 | 1.19 | 123 | 67 | 9 | 9 | 67: | 6 | 123 | 1.19 | 1.19 | 1.21 | 121 | | 123 | 1.23 | 1.19 | 1.19 | | 155 | 3.55 | 155 | 1.55 | | 53 |
| Prince | | 7 | Ped. 150 | WIN WILP | FE. 150 | Win WLP | Ped. 150 | Win WLP | Red. 150 | | WINE | Win WLP | Win WLP | | Z 72 | Ped. 150 | ET: 120 | Red. 150 | | Ned. 150 | 25 E | Ned. 150 | RT 120 | Red. 150 | Fed. 150 | Fed. 150 | Ped. 150 | | Ped. 150 | Ped 150 | E 12 | Ped. 150 | | Win WLP | Win WLP | Win WLP | Win WLP | | Ted. 205M |
| October | | 44 Dam Man (communical) | 240 L (GC) | Swift 240 HP | 246 PFP | Swift 280 HP | 900 HP/XTP | Swit XOO III | 310 LSWC | At S&W Special | 180 JHC | 240 LSWC | 246 LRN | AS ACP | 155 Cert Lond | 180 LWC | 18 IE | 185 DWC | 200 JHP | 200 Lend SWC | 200 LSW (target) | 230 FMC | 230 HP | 230 L (tactant) | 240 JHC | 340 HJV | 260 JHP | AS ACP+P | IISH | 200 HFP | 230 FMC | 240 JHC | AS Calt | 300 JMHP | 230 LKN | 2501. | MO HP/XTP | ASA Carell | Hornady 300 gr XTP |

NOTES and KEY pertain to Pistol and Revolver tables.

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Surf with 10% less powder them shown. Work up gawloully, weithing

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COWBOY



ACTION

Cowboy Action Load Data

| Caliber | Berrel Length | Bullet | Mia CAL (inches) | Powder | Min. Weight (gm) | Velocity (fps) | Mex. Weight (gm) | Velocity (fps) | |
|-----------|---|---|---|----------------------------|------------------------|-------------------|----------------------------|-------------------|-------|
| .38 Spec. | 6.5 | 125 gr Learr Cest TG | 1.45 | Bullseye | 2.8 | 690 | 4.8 | 1,024 | ***** |
| | | 125 gr Meister RNPP | 1.45 | American Select Red Dot | 3.2 3.0 | 675 700 | 4.7 4.6 | 589 1,025 | |
| | | 125 grantauet Rivers | 1434 | Unique | 4.5 | 700 | 6.0 | 1,075 | |
| | | 140 gr Hornady lead FP | 1.45 | Bullarye | 3.0 | 727 | 4.5 | 945 | |
| | | | 21.22 | Red Det | 3.0 | 710 | 4.5 | 960 | |
| | | | | American Select | 3.5 | 765 | 4.5 | 988 | |
| | | | | Unique | 4.0 | 754 | 5.5 | 985 | |
| .357 Mag. | 6.5 | 125 gr Laser Cast TC | 1.58 | American Select | 3.3 | 764 | 3,9 | 856 | |
| | | 140 gr Hornady lead FP | 1.57 | American Select | 3.3 | 750 | 3.6 | 825 | |
| | | 000000444444000000000000000000000000000 | 000000000000000000000000000000000000000 | Unique | 3.5 | 725 | 4.0 | 820 | |
| | | 156 RN | 1.585 | American Select | 3.5 | 746 | 4.0 | 840 | |
| Ad Smaa | 5.5 | 205 gr National RNFP lead | 1 445 | Unique Bullseve | 3.8 4.5 | 741 793 | 4.5 5.0 | 859 843 | |
| .44 Spec. | 3.3 | 205 gr National RNFF itad | 1.949 | Red Dot | 4.5 | 793 | 5.5 | 910 | |
| | | | | American Select | 5.5 | 877 | 6.0 | 935 | |
| | | | | Unique | 6.0 | 835 | 7.0 | 953 | |
| | | 240 SWC | 1.48 | Red Dot | 4.2 | 616 | 5.1 | 737 | |
| | | | | American Select | 4.2 | 650 | 4.9 | 739 | |
| | | | | Green Dot | 4.6 | 632 | 5.5 | 747 | |
| | | | | Unique | 5.1 | 613 | 6.0 | 697 | |
| 44/40 | 5.5 | 205 gr National RNFP lead | 1.592 | Red Det | 5.8 | 792 | 6.3 | 879 | |
| | | | | American Select | 6.2 | 810 | 6.5 | 852 | |
| | | | | Green Dot | 6.3 | 797 | 6.7 | 867 | |
| | | | | Unique | 8.0 | 930 | 8.5 | 990 | |
| .44 Mag. | 5.5 | 205 gr National RNFP lead | 1.58 | Red Det | 4.9 | 767 | 5.5 | 839 | |
| | | | | American Select | 5.0 | 762 755 | 5.7 | 842 863 | |
| | | | | Green Dot Unique | 5.2 6.0 | 743 | 6.0 6.8 | 839 | |
| | | 240gr Laser Cast RNPP | 1.595 | Red Det | 4.8 | 723 | 5.6 | 814 | |
| | | and rest cest titl | 1.050 | American Select | 5.1 | 742 | 6.0 | 892 | |
| | | | | Unique | 6.0 | 750 | 7.0 | 860 | |
| .45 Colt | 5.5 | 160gr Meister RNFP | 1.490 | Red Dot | 6.7 | 840 | 7.8 | 959 | |
| | | | | American Select | 7.1 | 851 | 7.7 | 942 | |
| | 5.5 | 180gr Meister RNFP | 1.518 | Red Det | 5.9 | 743 | 7.6 | 917 | |
| | | | | American Select | 6.0 | 750 | 7.2 | 876 | |
| | 5.5 | 200 RNFP | 1.585 | Red Dot | 6.0 | 785 | 7.0 | 897 | |
| | | | | American Select | 6.5 | 823 | 7.0 | 883 | |
| | | and marring land | | Unique | 7.5 | 786 | 9.0 | 927 | |
| | | 225 RNFP lead | 1.6 | Red Det | 5.5 | 721 743 | 6.5 | 824 | |
| | | | | American Select Unique | 6.0 7.8 | 801 | 6.5 8.5 | 797 862 | |
| | | 250 gr RNFP lead | 1.58 | Red Dot | 5.0 | 680 | 6.0 | 757 | |
| | | are go man home | | American Select | 5.0 | 650 | 6.5 | 767 | |
| | | | | Unique | 6.0 | 650 | 7.5 | 750 | |
| 30-30 | 24 | 165 FP | 2.512 | Unique | 7.0 | 1,236 | .xxxxxx xx xxxx | ******** | |
| | | | | Reloder 7 | 15.8 | 1,534 | | | |
| 32-20 | 24 | 118 PP | 1.585 | Bullseye | | | 3,0 | 1,009 | |
| | 000000000000000000000000000000000000000 | | 999999999 | Red Dot | 99999999999 | | 2.6 | 923 | |
| 45/70 | 24 | 300 PP | 2.397 | Unique | 10.0 | 1,074 | 15.0 | 1,424 | |
| | | 000000000000000000000000000000000000000 | | Reloder 7 | 28.8 | 1,388 | | | |
| | | 405 Laser Cast | 2.550 | Unique | 11 | 1,000 | | | |

Important Note:

Alliant Powder does not recommend the use of smokeless powder in any firearm designed for black powder.

SILHOUETTE DATA

Silhouette Loads

| Custridge/Fullet | Primer | Min CAL (inches) | Charge Weight (grains) | Blue Dot Velocity (\$4) | Chamber Pensure (copper units) | Charge Weight (grains) | 2400 Velocity (\$ps) | Chamber Pressure (copper enits) | Charge Weight (grains) | Reloder Velocity (fps) | 7 Chamber Pressure (copper units) |
|-------------------------|--|---|------------------------------|-------------------------------|--------------------------------------|------------------------------|----------------------------|---|---|------------------------------|--|
| .222 Rem. | | | | | | | | | | | |
| (Rem. Case) | | | | | | | | | | | |
| 50 gr. Sierra Spitter | Fed. 205M | 2.09 | | | | 12.9 | 2,425 | 43.8 | 19.3 | 2,700 | 43.8 |
| 53 inch gr. Sierra BRHE | | 2.104 | | | | 12.4 | 2,345 | 43.8 | 18.2 | 2,575 | 43.5 |
| 55 gr. Sierra Spitzer | Fed. 205M | 2.125 | | | | 12.0 | 2,250 | 43.1 | 17.6 | 2,495 | 43.4 |
| 60 gr. Hornady Spire Pt | | 2.125 | 00000000 | | | 12.0 | 2,180 | 43.8 | 17.0 | 2,400 | 43.8 |
| 68 gr. Hornady BTHP | Ped. 205M | 2.125 | | | | 11.3 | 1,990 | 43.8 | 16.5 | 2,230 | 43.2 |
| 223 Rem. | | | | | | | | | | | |
| (Rem. Case) | | | | | | 1 | | | | | |
| 55 gr. Sierra Spitzer | Fed. 205M | 2.25 | 000000000 | | | 15.9 | 2,430 | 48.5 | 22.1 | 2,670 | 48.9 |
| 60 gr. Hornady Spire Pt | . Fed. 205M | 2.25 | | | | 15.4 | 2,320 | 48.5 | 21.4 | 2,550 | 49.5 |
| 7mm BR Rem. | | | | | | | | | | | |
| (Rem. Case) | | | | | | 1 | | | | | |
| 120 gr. Sierra Spitzer | Rem. 7.5 BR | 2.5 | | | | 20.2 | 2,160 | 47.1 | 27.8 | 2,425 | 47.4 |
| 145 gr. Speer Spitzer | Rem. 7.5 BR | 2.3 | | | | 17.7 | 1,800 | 47.2 | 24.8 | 2,130 | 47.8 |
| 7mm/08 | | | | | | | | | | | |
| (Rem. Case) | | | | | | | | | | | |
| 120 gr. Sierra Spitzer | Fed. 210 BR | 2.75 | 00000000 | | | 27.5 | 2,310 | 48.1 | 37.2 | 2,560 | 48.9 |
| 145 gr. Speer Spitzer | Ped. 210 BR | 2.75 | | | | 23.5 | 1,970 | 48.3 | 33.0 | 2,250 | 48.3 |
| 30-30 Win. | | | | | | | | | | | |
| (Fed. Case) | | | | | | | | | | | |
| 152 gr. Cast Lead | Fed. LR #210 | 2.5 | 13.0 | 1,525 | 29.0 | 16.0 | 1,650 | 33.3 | 25.0 | 1,950 | 34.9 |
| 170 gr. Rem. SPCL | Fed. LR #210 | 2.5 | 13.0 | 1,525 | 29.0 | 16.0 | 1,500 | 34.7 | 23.5 | 1,800 | 34.9 34.9 |
| .35 Rem. | | | | | | | | | | | |
| (Rem. Case) | | | | | | | | | | | |
| | The State of the S | 000000000000000000000000000000000000000 | | .000000000000 | 00000444000000 | | 2.00 | 000000000000000000000000000000000000000 | | 1 000 | 000000000000000000000000000000000000000 |
| 158 gr. Hornady L | Ped. LR #210 Ped. LR #210 | 2.4 | 15.5 | 1,574 | 25.2 22.4 | 21.0 | 1,715 | 25.5 | 28.5 | 1,875 | 26.6 |
| 170 gr. Sierra FMJ | | 2.4 | 13.0 | 1,360 | 22.4 | 17.0 | 1,450 | 23.4 | 200 | 7.646 | |
| 200 gr. Rem. SPCL | Fed. LR #210 | 2.51 | 000000000 | | | 22.0 | 1,650 | 31.7 | 30.0 | 1,825 | 31.7 |
| 357 Mag. | | | | | | | | | | | |
| (Win. Case) | | | | | | | | | | | |
| 158 gr. Rem. SP | Fed. 200 | 1.58 | 12.0 | 1,600 | 42.9 | 14.6 | 1,640 | 42.5 | | | |
| 170 gr. Sierra FMJ | Fed. 200 | 1.58 | 10.7 | 1,445 | 41.7 | 19.2 | 1,450 | 43.0 | 555555555 | | |
| 180 gr. Sierra FPJ | Fed. 200 | 1.58 | 9.2 | 1,250 | 42.4 | 12.1 | 1,350 | 41.7 | | | |
| 180 gr. Speer FM7 | Fed. 200 | 1.58 | 9.6 | 1,265 | 62.5 | 11.8 | 1,320 | 42.9 | 000000000 | | |
| .357 Maximum | | | | | | | | | | | |
| (Rem. Case) | | | | | | | | | 1 | | |
| 125 gr. Speer JHP | Rem. 7.5 BR | 1.9 | 15.0 | 1,860 | 58.2 | 20.5 | 2,045 | 38.2 | | | |
| 158 gr. Hornady HP | Rem. 7.5 BR | 1.975 | | | | 18.0 | 1,790 | 40.4 | 26.0 | 1,845 | 33.6 |
| 160 gr. Speer SP | Rem. 7.5 BR | 1.975 | 15.3 | 1,760 | 40.7 | 17.4 | 1,775 | 41.2 | 26.0 | 1,850 | 32.7 |
| 170 gr. Sierra FMJ | Rem. 7.5 BR | 1.975 | 14.5 | 1,675 | 41.5 | 16.5 | 1,670 | 40.5 | 25.5 | 1,840 | 40.1 |
| 180 gr. Sierra FPJ | Rem. 7.5 BR | 1.975 | 14.9 | 1,610 | 39.4 | 16.8 | 1,590 | 39.0 | 25.0 | 1,760 | 39.7 |
| 200 gr. Speer FM7 | Rem. 7.5 BR | 1.975 | 11.6 | 1,275 | 41.5 | 14.1 | 1,340 | 41.5 | 22.3 | 1,650 | 41.4 |
| 44 Rem. Mag. | | | | | | | | | | | |
| (Rem. Case) | | | | | | 1 | | | | | |
| 180 gr. Sierra HC | Fed. 150 | 1.59 | 18.8 | 1,875 | 37.9 | 29.0 | 1,910 | 37.8 | | | |
| 240 gr. Speer FMI | Fed. 150 | 1.59 | 15.5 | 1,550 | 37.6 | 18.8 | 1,560 | 36.8 | 000000000000000000000000000000000000000 | | |
| 250 gr. Sierra FPI | Fed. 150 | 1.59 | 15.0 | 1,525 | 36.8 | 19.0 | 1,600 | 37.8 | | | |
| 265 gr. Hornady FP | Fed. 150 | 1.59 | 14.1 | 1,420 | 36.3 | 17.4 | 1,460 | 37.4 | harananana | | |

NOTE: Test barrels were 14 inches long, except 357 Maximum, which was 12 1/2 inches.

RELOADING DATE

| Centerfire Loads | ads | | | | 6 90 | | | | | | | |
|---|--|--------------|----------------------|---------------------------------|--|---|--|--|--|---|---|---------------------------|
| Certigolistic | Phop | Ma. Ott. | ğ | I agel | % 2400 ₹ | 7.00 18.00 1 | Reloder 7 | Reloder 1 Class for 10 Will | OX Reloder 15 put Chr 5n put close W sh clee | Reloder 19 the fee pai | Reloder 22 Chy for pul We for allon | Reloder 25 Chy for pai |
| .17 Rem. Austropeaning Homady 25HP | Rem. 7.5 | 2.14 | Rem. | ā | | | | | 22.8 3,915 50.2 | | | |
| .22 Hornet herbrymeers Spec. 40 Spitz Hornady SUSSX | Win 65-116 Win 65-116 Win 65-116 | 555 | 444 | *** | 7.5 2,250 7.1 2,065 7.0 1,945 | 333 | 11.0 2265 10.6 2170 10.5 2115 | 19.8 20.3 21.5 | | | | |
| .220 Swift anterpress to Spect 45 Spitz Hornady SGSSX Hornady 55M(BT Hornady 60 Sp. Pt. | 000000 0000000000000000000000000000000 | 3333 | Hora Hora Hora | *** | | | | | 39.0 4,010 30.3 38.6 3,890 49.8 38.0 3,773 36.5 35.8 3,540 50.4 | 44.0 3,630 30.4 43.9 3,610 50.5 43.0 3,575 50.4 | 43.0 3,565 49.9 | |
| .221 Kem. Firefolf seek Speer 405P Sierrs 50 Spitz Sierrs 50 Spitz Nouber 60 Spitz | Rem. 7.5 Rem. 7.5 Rem. 7.5 Rem. 7.5 | 2555 | | 200 200 200 200 200 | 15.5 2,700 19.8 2,410 15.5 2,920 15.3 2,200 | 3533 | 18.1 2,230 | 340 | | | | |
| 222 Rem. Speer 40 SP Speer 45 SP Speer 45 Spite Noder 50 Ballistic Tip Sierra 50SAP Sterra 55PA/IST | Run. 6.5 Rem. 6.5 Rem. 7.5 Hz Rem. 6.5 Rem. 7.5 Hz Rem. 7.5 Hz Rem. 7.5 Hz | ***** | 111111 | ****** | | | 19.8 3,225 47. 20.0 3,115 47. | 2203346 2203,163 5 2103,023 | 664 670 243 3,120 67.9 225 2915 67.5 | | | |
| .222 Rem. Mag. Josephys. Speer 45 Spile. Sierra 50 Spile. Sierra 55 Spile. | Fee. 73 Fee. 73 Fee. 73 | 2222 | Ren Ren Ren Ren | **** | | | 25.0 3,409 22.5 3,250 22.0 3,130 22.0 3,100 | 46.5 44.5 46.0 | | | | |
| 223 Rem. Noder 40 Ballinic Tip Speer 45 SP | Win WSR Rem. 6.5 | 22 | Win. | 333 | | | | 26.5 3,560 | ! | | | |
| Street 45 Sport Hornady 50 V Max Moly Hornady 505P Norder 50 Balliete Tip Sierra 52 HPBT Sierra 55 Sp Sierra 55 Sp | Fed. 2020 Win, WSR Win, WSR Win, WSR Rem, 6.5 Fed. 2050 Win, WSR | និធិននងិធិនិ | | **** | 14.5 2,795 | 48.5 | CC #17 | 23.6 3,195 5 24.2 3,366 5 23.3 3,165 5 22.6 2,974 5 | 25.0 AND | | | |
| Hornady 655P Sierra 69 HPET Hornady 758THP Sierra 77 HPBT | Win, WSR Fed. 205M Fed. 205M | 11111 | 五有 | **** | | | | | 28.0 3,356 65.0 25.5 2,956 51.7 24.0 2,895 33.4 24.1 2,793 51.2 | | | |
| .22/250 Rem. Noder 40 Balliels Tip | Rem. 9.5 | 238 | Reii | র | | | | 34.5 4,092 60.9 | - 80 | | | |

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| Osmilge Bellet Primer | Primer | Min. O.K. (sebol) | ð | R Jengh | 2400 Obj. for pai | Car for pai | Reloder 10X | Reloder 15 Og fr. pr. W. r. zloce | Reloder 19 W. for pile | Reloder 22 Og fp 500 | Relocer 25 On to pe W. rates |
|--|---|----------------------------------|--|---------|----------------------|-----------------|--|---|---|---|------------------------------------|
| 22/250 Rem. (continued) Speer 45 SP Hornady 50 SP Hornady 50 V-Max Moly | ned) Rem. 9.5 Rem. 9.5 oly Win. WLR | 235 235 235 | Rem. Rem. | គគគ | |] | 33.5 3,876 60.3 32.0 3,679 60.4 | 8 | | 3 | |
| Sterra 50 SP Hornady 59 V-Max Moly V Hornady 55075X V | Mem. 9.5 oly Win WLR Win WLR Win WLR | 1111 | 튑죕측 | *** | | | 32.0 3,693 60.8 | 37.5 3,775 61.4 35.3 3,625 59.4 34.7 3,685 59.4 | 410 3,540 51.7 | | |
| 243 Win. Stern 60HP Sport 80 Spire Sierre 100 Spire IIT | Win, WLR Win, WLR Win, WLR | 2.55 2.665 2.75 | W.W.W.W.W.W.W.W.W.W.W.W.W.W.W.W.W.W.W. | *** | | 30,2 3,330 54.8 | | 365 3,145 57.5 | 44.5 3,270 57.5 | 41.7 2,990 37.5 | |
| form BR Siers 60HP Hornady 70 SP Siers 75 HP Sport 80 SP | Rem. 7.5 Rem. 7.5 Rem. 7.5 Rem. 7.5 | 2.075 2.125 2.125 2.126 | 1111 | *** | | | 30.0 3,369 45.3 29.5 3,206 45.9 28.5 3,100 46.4 28.5 3,023 45.3 | | | | |
| 6mm Rem. Sierre 60TP Speer 75TP Speer 80 Spirz Sierra 100 Spirk BT | Rem. 9.5 Rem. 9.5 Rem. 9.5 Rem. 9.5 | 2222 | | *** | | | | 42.6 3,820 62.7 40.6 3,410 62.3 40.5 3,540 63.0 | 605 3,435 61.7 46.0 3,145 62.5 | 51.5 3,436 60.9 48.0 3,205 62.5 | |
| 250 Savenge shoteymos Sleere 75HP Speer 100 Spite Sleere 120 FPE | Rem 9.5 Rem 9.5 Rem 9.5 Rem 9.5 Rem 9.5 | 22,52 | | ররহর | | | | 38.3 3,336 43.7 36.0 3,135 42.8 | 41.0 2,940 42.8 | 40.0 2,686 43.6 | |
| .25-06 Rem. Sport 87 Spire Spert 100 Spire Sierts 120HPBT | Fed. 210 Fed. 210 Fed. 210 | 22. 22.25 | 医基度 | 888 | | | | 47.2 3,425 61.0 44.9 3,196 61.0 | 57.3 3,525 59.8 54.3 3,326 61.0 50.5 3,025 60.4 | 525 3,080 60.1 | |
| Rem 8652 257 Roberts senteron Sterr 7511P Speer 87 Spirit Speer 100 Spirit Sterrs 120HPBT | OCI 400 Win. WIR. Win. WIR. Win. WIR. Win. WIR. | 82 EEEE | d www. | * aaaa | 6.0 0.00 18.3 | 11.5 1,460 15.0 | | 41.8 3,540 42.7 | 47 2,990 45.1 | 440 275 450 | |
| .257 Roberta +P. Aust Stern 75EP Spece 87 Spite Spece 100 Spite Sterne 120 HPBT | Win WLR Win WLR Win WLR Win WLR | 277.2 277.2 277.2 277.2 | 집작작 | *** | | | | 43.4 3,510 48.0 43.5 3,310 48.0 | <i>62</i> 3,110 429 | 46.5 2,945 48.0 | |
| .257 Wby. Mag Starts 75HP Spear 67 Spitz Spear 100 Spitz Barnes 115 Spitz | Ped. 215 Ped. 215 Ped. 215 Ped. 215 | 9999 | Why Why Why | *** | | | | | 713 5,895 52.9 68.4 3,650 53.0 64.5 3,420 52.7 61.3 3,175 53.0 | 770 3,900 53.0 73.0 3,673 52.7 69.0 3,480 52.4 64.5 3,200 52.7 | |

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| Occidy/Belle Prince | Nimer | Min. OM. | ð | Mary days | 2400 Chy for pai Wt rations | Reloder 7 Chy for pai W: ±300 | Reloder 10X | Reloder 15 Charte Fried | 2 €≥ | Reloder 19 Chr fr. Files | 3 €≥ | Reloder 22 On the pai | Reloder 25 Og (p. 16 W: afton |
|--|--|----------|---------|------------|--|-------------------------------------|---|---|------|-----------------------------|------|--------------------------|-------------------------------------|
| .257 Wby, Mag (continued) Noder 120 SP Fed. 215 | nued) Fed. 215 | \$37 | Wby: | 18 | | | | | 39.7 | 3,100 53.0 | 87.3 | 3,140 52.9 | |
| .260 Rem. Sterra 85 HP | Rem. 9.5 | 2.71 | Rem | 13 | | | | 3285 | 69.2 | | | | |
| Sierra 100 HP | Rem. 9.5 | 52 | Į | នរ | | | | 9 | 99 | | | | |
| Sterrs 140 SST | Nem. 9.5 | 35 | | 313 | | | | 38.0 2,610 60.8 | 7 | 2,690 60.7 | | | |
| .264 Win, Mag. seeses Hornocky 130 Sr. Pt. | President de capper unde Marie MITE | 4.33 | Wen | 7 | | | | | 9 | | | | |
| Special Modelity | With WLR | ā | 14 | ; z | | | | | 9 | 2,945 51.8 | | | |
| Hornady 180RN | Win. WLR | 3315 | Win. | ā | | | | | | | 57.0 | 2,780 51.8 | |
| 6.5X55 Swedish Manuar | | e sede | | | | | | | | | | | |
| Hornady 1295P | 007 500 | 2.935 | Norma | A | | 25.8 2,130 43.6 | | 2,630 | 880 | | | | |
| Specr 140 Spitz Homady 160RN | 88 | 2575 | Norms | 4 % | | 25.0 1,949 44.0 | | 35.6 2.45 44.0 35.6 2.325 44.0 | 22 | 2,500 th.3 | 0.0 | 2535 44.0 | |
| .270 Wby. Mag. seeds | gener is opported | | | | | | | | | | | | |
| Speer 100 Spitz | Fed, 215 | 3.16 | W.Pr. | × | | | | | 75.8 | | | | |
| Speer 130 Spiler | Fee. 215 | 97. | K N | 8 7 | | | | | 9 | | | | |
| Moder 140 Spiles | Fed. 215 | 4.284 | Me. | 8 # | | | | | 2 2 | | | | |
| Sierra 150 55T | Fed. 215 | 3.285 | Wbr | × | | | | | 3 | 3,075 53.5 | 8.89 | 3,145 53.5 | |
| | | | | | | | | | | | | | |
| Speer 100 Spitz | Win, WLR | 3.15 | Win. | ā | | | | 3,465 | 9 | | | | |
| Speer 130 Spitz | WIL WILK | 2 | Į. | 4 | | | | 47.3 2,840 61.6 | 25 | | | | |
| Market 140 Spiles | WILL WILL | | i v | \$ 7 | | | | 2/7 | 2 3 | | | | |
| Stern 150 Spite HT | Win. WLR | Ę | 4 | : A | | | | | 23 | 1945 61.4 | 2 | 3,016 61.8 | |
| .280 Kem. | | | | | | | | | | | | | |
| Hernady 1205F | Rem. 9.5 | ā: | Ø, | a: | | | | 48.0 3,065 57.2 | 28.0 | | | | |
| Street LES Stoller | Rem. 9.5 | 2: | d M | 4 8 | | | | 2,850 | 929 | | | | |
| Sterre 160 Spite BT | Rem 9.5 | 3323 | ğ | * | | | | | Z | 2,750 58.1 | 87 | 2,795 58.0 | |
| .284 Win. | | | | | | | | | | | | | |
| Hornady 120 SP | Win. WLR | 57 | Win. | z | | | | 3,235 | 68.5 | | | | |
| Hormady 139SP | Win. WT.R | 2738 | Win | z : | 000 | | | 48.0 2,975 54.7 | 22.0 | | | | |
| Spect 140 spile | Will WLR | 2730 | , Maria | 4 7 | | | | 2,820 | 9 5 | | | | |
| Siera 160 Spite IIT | Win. WLR | 7 | Wh | . A | | | | | 2 | 2,885 54.6 | 52.0 | 2,696 42.7 | |
| 7.40 Webs | | | | | | | | | | | | | |
| | Fed. 210 | 264 | Fed. | ž | | 27.3 2.470 38.6 | | 2,775 | | | | | |
| Homady 139 E2. | Fed. 210 | 2.66 | Ħ | ĸ | | | | M. 2546 N.S | | | | | |
| 7mm Rem. Mag. | | | | | | | | | | | | | |
| Homady 120 Sp. Pt. | Rem. 9.5 | 3,275 | Į, | # | 000000000000000000000000000000000000000 | | Coccopian Coccopian | 55.0 3,200 58.3 | 69.0 | 3,465 58,6 | 73.0 | 3,450 58.6 | |
| Hormady 159 Sp. Fr. | 25 B 25 | 5772 | ž į | 8 2 | | | | 2000 | 2: | | | | |
| Norder 160 Partition | Fed. 215 | 3285 | d A | 4 4 | | | | 2 | | | | | 68.0 3.028 58.0 |
| Sierra 160 Spiter BT | Rem. 9.5 | 3285 | 至 | ă | Compensation of the compen | | 0.0000000000000000000000000000000000000 | 000000000000000000000000000000000000000 | 020 | 3,020 58.5 | 65.0 | 3,075 58.6 | |
| Swift 160gr A Prune | Fed. 215 | 3.29 | E. | z. | | | | | | | | | 70.0 3,049 59.1 |
| NOSIET 1/2 FALLEDON | 100,413 | 2480 | Nem | 5 | _ | | _ | | | | | | 6/8/7 |

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| 7mm Rem. Mag. (continued) Siern 175 Spits BT Fed. 215 Swilt 175 A Fenne Fed. 215 | insed) Fed. 215 Fed. 215 | 3285 3.255 | Ren | রর | | | | | | 613 2,900 38.4 | 4 68.4 2,934 58.0 65.8 2,837 56.8 |
| Zum STW Sern 130 MT Noder 160 Partition Swift 160gr A Frame Noder 175 Partition Swift 175 A Frame | 2222 22222 22222 | 2222 | Res Res Resident Resident | **** | | | | | | 80.0 3,300 56.0 | 79.0 5,300 62.3 80.0 5,300 62.2 78.0 5,131 65.7 78.0 5,119 63.0 |
| Turn Wby, Mag. Accepted 120 Sp. Pt. Hornach 120 Sp. Pt. Speer 145 Spite Noder 150 Spite Sierra 160 Spite Sierra 175 Spite | Fed 215 Fed 215 Fed 215 Fed 215 Fed 215 | 22222 | | **** | | | | 5.52 شرو 1.13 | 74.0 3,305 52.1 78.9 3,315 52.5 68.0 3,165 52.5 67.3 3,145 52.5 64.8 3,046 52.5 66.5 2,859 52.3 | 74.8 3335 92.3 72.4 3,245 92.5 72.0 3,236 52.4 76.7 3,110 52.5 67.4 2,965 52.5 | चीची देखी स |
| Zuan 68 Reau. Hornady 120 Sp. Pr. Hornady 139 Sp. Pr. Speer 145 Spite Sierra 150 HPHT Sierra 160 Spite 87 | Rm 55 Rm 55 Rm 55 Rm 55 | និងកង្ក | | **** | | 35.5 2,775 57.2 34.0 2,535 57.3 31.8 2,405 57.5 32.3 2,416 57.3 | | 45.5 3,070 38.7 45.0 2,830 39.0 41.0 2,700 39.0 40.9 2,685 38.6 60.5 2,630 59.0 | 52.0 2,850 57.9 49.3 2,785 38.9 49.0 2,760 58.7 48.5 2,675 56.4 | | |
| 7XS7 Manner Hornady 120 Sp. Pt. Hornady 139 Sp. Pt. Spear 145 Spits Siers 160 Spits 37 | Fed. 210 Fed. 210 Fed. 210 | 2565 2015 204 204 | ezez | *** | | | | 65.0 2,995 62.9 41.5 2,790 68.4 38.5 2,530 68.5 | 51.8 2,835 49.0 57.8 2,835 49.0 67.3 2,680 48.8 | 53.0 2,730 45.6 48.8 2,720 49.0 50.0 2,690 48.3 | 905 |
| 30 Carbine assertation Homody 100Sf Cart (GC) 1121. | 001400 001400 | 281 281 | 夏夏 | 88 | 123 1,815 545 103 1,590 557 | | | | | | |
| 200 H&H Mag, destry Hermath 150 Sp. P. Speer 165 Spitz Noder 180 Part. Speer 180 Spitz Steers 200 Spitz HT | FERRE | 73.55 | ZZZZZ | **** | | | | 63.8 3,276 32.5 60.9 3,063 32.5 360 2,916 32.3 36.7 2,890 32.4 35.0 2,725 32.1 | 75.0 3,275 52.5 72.7 3,150 52.5 70.3 3,040 52.5 69.8 3,055 52.5 67.0 2,910 52.1 | 71.0 3.040 52.1 71.5 3.070 52.0 65.0 2,535 52.5 | пеп |
| 300 Rem Uhra Mag Sierra 150 Spitz Noder 165 Part | Fed. 215 Fed. 215 | 357 | H. | x x | | | | | | 94.0 3,446 69.7 | b) W |
| Swift 165 A Frame Burnes 180 gs X | Fed. 215 | Sz: | | 188 | | | | | | ! | 98.0 3,400 63.5 87.9 3,110 61.5 |
| Noder 180 Part. Swift 180 A Prame Bernes 200 X. Swift 200 A Prame | | 1212 | 1111 | *** | | | | | | 96.0 3.155 96.8 | 8 96.0 3.250 63.7 81.0 2.900 62.0 91.5 3,020 60.8 |
| 300 Why. Mag. conterp Hornady 190 Sp. Pt. Barnet 1655 Noder 165 Part. Speer 165 Spitz | Fed. 215 Fed. 215 Fed. 215 Fed. 215 | 3222 | Why. | *** | | | | 65.0 3,050 52.8 | R25 3,375 52.5 R05 3,250 59.3 | 85.0 3,466 53.3 | 57.0 3.176 60.3 90.0 3.245 58.5 |

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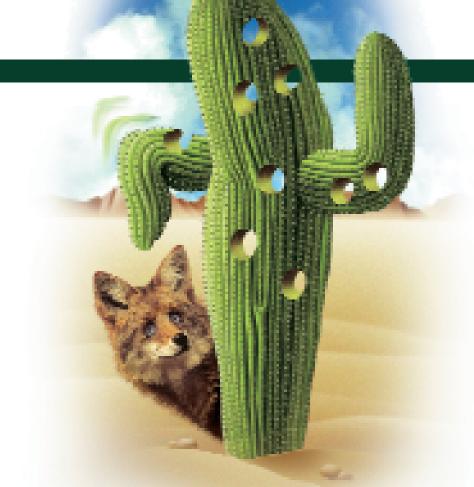
| 77 | | Men OA. | ð | ion i | 8≅ | 100 100 100 100 100 100 100 100 100 100 | Reloder 7 | i rij | Reloder 10X | Reloder 15 On the pri | 2 €≥ | Reloder 19 W. * Tile | Cha for | reg | Keloder 25 Og fr pr ** xloo | |
|---------------------------------|----------------------|------------|--------------|------------|---------|--|------------|--------|---|---|------------------|---|------------|------|-----------------------------------|--|
| Noder 180 Part. Fa | mued) Fed. 215 | 3.53 | Why | 35 | | | | | | | 76.5 | 3.070 53.4 | 80.0 3.115 | 33.3 | | |
| Sierra 160 SBPT | Fed. 215 | 358 | ğ | 18 | | | | | | | 1 | | | | 88.5 3,172 60.8 | |
| Speer 180 Spitz | Fel. 215 | 3515 | Wby | 28 7 | | | | | 000 | | 280 | 3,120 59.0 | 82.5 3,195 | 7.03 | | |
| Court 200 Partition | FEG. 215 | 970 | 9 5 | 4 % | | | | | | | 7 | 7 000 | | Š | 55.2 42560 39.7 | |
| Hornady 220 RN | FF 73 | 3339 | Ren | 8 8 | | | | | | | l | } | 0/67 mg/ | 1 | 81.6 2,809 60.8 | |
| .300 Win. Mag. | | | | | | | | | | | | | | | | |
| Homady 150 Sp. Pt. | Win. WLR | 7. | d i | 5 2 | 00000 | 0000000 | | 0.000 | 0.0000000000000000000000000000000000000 | 65.3 3,180 61.0 | 767 | 3,225 61.0 | 81.5 3,275 | 8 | 242 4341 457 | |
| Speer 165 Spitz | Win WIR | 3 | N. | 8.8 | | | | | | 62.6 2.946 66.1 | 34.6 | 3,070 60.4 | 284 1.155 | 8 | | |
| Sierrs 180 SBPT | Fed. 215 | 77 | Ren. | * | | | | | | | - 222 | | | | 823 3,112 60.6 | |
| Speer 180 Spitz | Win WLR | 334 | A H | * | | | | | | | 753 | 2,990 61.0 | 76.9 3,036 | 603 | | |
| Win. 189 F.S. Barrer 200 V | With WLK | 3 : | ii d | # # | | | | | | | 723 | | | ž. | 963 2867 631 | |
| Sierre 200 Spite HT | Win. W.R. | ā | Win | : a | | | | | | | 68.0 | 2,810 60,3 | 73.4 2,875 | 663 | ì | |
| Swift 200 SP Hornade 720 RN | Fed. 215 Fed. 215 | 3,308 | Rem. | * * | | 0 | | | 0 | | | | | | 78.0 2,828 38.5 | |
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| MSW 000. | a to the same | | į | 2 | | | | | | | í | | | | | |
| Harmon 150 apr 17. | WILL WLA | 96.4 | Maga Maga | \$ 2 | | | | | | | 99 | | | | | |
| Such 165 A Present | Win WIE | 276 | 1 5 2 3 | 9 % | | | | | | | 96 | | | | | |
| Nosler 180 Part. | Win. WLR | 572 | H.W. | 12 | | | | | | | 9 | 2,978 60.5 | | | | |
| deter Table A. | | | | | | | | | | | | | | | | |
| Hornady 1235F | Win, WLR | 2,86 | Wan. | ನ | | | | 8 43.2 | | 3,015 | | | | | | |
| Sport 150 Spits. | Win. WLR | 2,935 | Win | ā | | | 31.0 2,406 | 0 412 | | 46.2 2,755 43.2 | 200 | | | | | |
| Speer 180 RN | Win. WLR | 2.54 | Win | ā | | | | 9 39 E | | 2,515 | 280 | 2,415 39.8 | | | | |
| 30-06 Springfield | | | | | | | | | | | | | | | | |
| Sterrs 110JHP | Fed. 210 | a : | Z. | # ; | 30.9 2, | 2,715 55.9 | 45.0 3,145 | 5 564 | | 58.6 3,465 38.1 | ** | | | | | |
| Remove X 150 | Fed. 210 | 25 | į į | \$ 2 | | | | | | | - 22 | | | 9 | | |
| Homady 130 Sp. Pt. | Fed. 210 | 321 | Į | 1.5 | 29.4 2. | 2,330 56.0 | 43.8 2,786 | 0 27.0 | | 300% | ~ | | | 13 | | |
| Nouler 165 Part. | Fed. 210 | 322 | Ę | র | | | | | | 2,815 | -00 | | | 213 | | |
| Speer 165 Spite | Fed. 210 | 3.25 | Fed. | × | 29.2 2, | 2,295 55.4 | 40.5 2,610 | 9 26.8 | | 2,835 | _ | | | 52.5 | | |
| Nosler 180 Part. | Fed. 210 | ន្ត | Į, | # ? | | | | | | 2,660 | 222 | | | n e | | |
| Win 180 E.S. | Win W.R | 97. | į | 4 7 | 7 | ACC 004,A | 50°5 4'50 | e e | | 3/6 | - 30 | | | 000 | | |
| Sinrra 190 MKing | Fed. 210 | 33 | Fed | ಸ | 26.0 2, | 2,075 55.6 | 37.4 2,346 | N 57.4 | | | 28.0 | 2,720 58.1 | 60.0 2,735 | 998 | | |
| Sterra 200 Spitz 117 | Fed. 210 | 2 | Fet | Ā | | | | | | 2,500 | ~~ | | | Y. | | |
| 30-30 WE. deschayers | the approach | | | | | | | | | | | | | | | |
| Stern 125JFP | Win. WLR | 247 | Win. | ಸ | 30.00 | 30.00.00.00 | | 26.0 | 200 | | - | 3 | 2 | | | |
| Mornady 170/FP | With Wilk | 33 | # # # # | នន | | | 24.0 1,910 | 0 345 | | 36.0 2,430 40.6 | | | | | | |
| 100 MS- | | | | | | | | | | | | | | | | |
| Steres 110000 | Fed 210 | 3.6 | 3 | 76 | 1000 | 000000000000000000000000000000000000000 | 961 8 507 | 6 47.7 | 0.0000000000000000000000000000000000000 | 200000000000000000000000000000000000000 | 8 | 0.0000000000000000000000000000000000000 | | | | |
| Specific JRN | Win. WLR | 2.49 | Wp | គ | | | | | 3.292 | | 8 | | | | | |
| Sierra 125 JSP | Win, WLR | 2.7 | Win | ম | | | | | 46.0 3,109 58.0 | | | | | | | |
| Spect 130 HP | Win WLR | 2.651 | Win | A. | 3 | | | | 7,966 | 46.3 2,880 57.3 | | | | | | |
| Sierrs 125 Spitz | Fed. 210 | 27 | Z. | A : | | | 40.0 2,930 | 0 427 | | | | | | | | |
| Sterra 150 Spitz Bernes 150X | With WLK Fed. 210 | 273 | Z Z | នគ | | | | | 41.6 2,752 58.1 | 2,815 | | | | | | |
| Sierra 150 Spile | Fed. 210 | 3.6 | Ę | * | 25.0 2. | 2,215 36.7 | 37.0 2,730 | 699 0 | 8 | 46.3 2,890 57.3 | | | | | | |

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| OceilignBulle Prime | Primer | Men OA! | ð | Mary day | 2400 Oly for pai | Reloder 7 | Reloder 10X Cy for min | Reloder 15 Og fa på W. s.1000 | Reloder 19 | Reloder 22 Chr fr mi | Reloder 25 Og to Pei W. reloo |
|--|--|---------------------------------|---------------------|----------|--|---|---------------------------|---|--|---|--|
| 308 Win. (continued) Barnes 165X Stern 165 Spite Stern 165 Spite Stern 165 Spite Sport 183 Spite Win. 180 ES. | Fed. 210 Fed. 210 Win. WLR Fed. 210M Fed. 210 | 272722 | eree ^r e | **** | | | 39.2 2,614 SS.R. | 45.5 2,675 57.0 45.5 2,780 57.0 42.8 2,665 56.6 44.0 2,645 57.5 41.5 2,500 57.0 | | | |
| 7,62X39 Ambapamana Speer 100 Pinder Sierra 110HP Hornady 123SP Sterra 150JP | 88 88 88 88 88 88 88 88 88 | 1.85 2.655 2.155 | 2222 | 8888 | 16.5 2,240 44.8 16.0 2,115 44.8 15.3 1,915 44.9 14.8 1,800 45.0 | 26.5 2,396 38.3 25.5 2,396 45.0 24.8 2,145 44.6 | | | | | |
| Sum Manser Antones Hornady 1255P Spect 150 Spite Spect 170 Spite | Win, WLR Win, WLR Win, WLR | 2575 2575 3.015 | Win. | *** | | | | 46.8 2,790 36.0 44.0 2,590 36.0 41.4 2,400 36.0 | | | |
| Ruma Rem. Mag. Spect 1735 Spitz Spect 200 Spitz Spect 200 Spitz Swift 200 A Prame SP Hormody 220 Sp. Pt. Hurnach 220 Sp. Pt. Swift 220 A Frame SP | Rem. S.SM Rem. S.SM Fed. 215 Fed. 215 Fed. 215 Fed. 215 Fed. 215 | 252.33 | 4141414 | ***** | | | | | 828 3,315 61.7 77.7 3,050 61.6 75.0 2,885 61.6 | 87.2 3,590 61.7 81.0 3,090 61.6 77.0 2,910 61.3 | 88.0 3.151 60.4 88.0 3.175 61.1 86.0 3.026 61.7 83.0 3.006 61.2 |
| .336 Win. Mag. Assar-p Hormady 200 Sp. P. Noder 210 Spitz Burner 225 Sp. Pt. Win. 220 ES. Hormady 225 Sp. Pt. Win. 220 ES. | Win WLR Win WLR Win WLR Win WLR Win WLR | 74225 | 4 4 4 4 4 | ***** | | | | 66.0 2,935 51.3 56.5 2,996 51.6 61.8 2,705 51.6 | 78.0 3,020 52.4 74.0 2,910 52.0 72.0 2,765 50.9 75.3 2,865 52.1 72.0 2,790 60.5 73.0 2,785 52.3 | 78.0 2,873 45.2 76.0 2,846 46.2 75.0 2,705 46.9 75.0 2,706 86.3 75.0 2,706 86.4 | |
| .NO Wby, Mag. seeks Hornady 200 Sp. P. Noder 210 Spirz Hornady 225 Sp. P. Hornady 2302N | Fed. 215 Fed. 215 Fed. 215 Fed. 215 | 3.66 3.595 3.645 3.665 | A A A A A | *** | | | | 71.8 2,990 33.1 70.8 2,930 33.5 | 65.0 5,095 33.5 84.3 3,075 33.5 82.7 2,995 33.5 86.7 2,865 33.5 | 91.0 3,170 35.2 89.2 3,135 50.5 84.0 3,035 50.4 64.7 2,896 50.5 | |
| 35 Rem. hotelysseeks Rem. 1565/Cl. Cart (GC) 158L Rem. 2065/Cl. | Win WLR Win WLR Win WLR | 2.485 2.485 | M.W. M.W. | *** | | 32.0 2.296 30.7 28.0 2.206 29.8 31.0 2,115 30.7 | | | | | |
| 35 Whelen door press Hornsely 2005F Hornsely 250RN | Rem. 9.5M Rem. 9.5M | 3.23 | A A | aa | | 51.5 2,696 50.3 47.6 2,536 50.4 | | 59.0 2,675 44.8 39.5 2,550 48.4 | | | |
| .350 Rem. Mag. Junio, Rem. 1565PCI. Rem. 2305PCI. Rem. 230PSP | Rem. 9.5M Rem. 9.5M Rem. 9.5M | 222 | 999 | 888 | | 55.0 3,075 47.5 48.0 2,556 48.5 45.0 2,236 49.3 | | | | | |
| .358 Win. anderposeering Rem. 200757 | Win. WLR | 2.78 | Win | * | | 38.0 2,420 46.1 | | | | | |

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| .358 Win. (continued) Win. 2506T | Win. WLR | 2.78 | Win | ā | | | 34.5 2,075 44.7 | 7.44.7 | | | | | |
| 375 HARH Mag. Anning Hornady 270SP Hornady 30tMC | Rem. 9.514 Rem. 9.514 | 3.545 3.55 | Ren | ** | | | | | | 73.4 7,685 49.5 | 79.0 2,340 49.6 | | |
| .375 Win. deads posses in Hornsely 23000 | Win. WLR | 2.555 | Win. | * | 29.5 | 1,900 44.0 | 36.0 2,259 | 9 45.5 | | | | | |
| 3NS5 Win. donbe person. IVI 255SP | 001200 | 235 | ĸ | 75 | 18.0 | 18.0 1,410 23.5 | 26.5 1,725 26.0 | 26.0 | | | | | |
| 378 Why. Mag. needs: Hornady 270SF Barnes 300 Solid | Fed. 215 | 3.62 | wby. | ** | | | | | | 90.5 2,940 33.3 | 110.8 3,110 53.1 108.6 2,960 53.3 | 115.0 3,090 47.2 114.0 2,965 51.6 | |
| 38/40 Win. Ambryoner 150 Stern JHP 180 Stern JHP 200 Hornady PAJ/FP | Rem. 2.5 Rem. 2.5 Rem. 2.5 | 1.585 1.585 1.585 | 9 9 9 | *** | 385 | 1,425 15.1 1,305 15.4 1,225 15.5 | 25.8 1.762 | 1,765 13.5 1,610 13.4 | | | | | |
| 416 Rem. Mag. control Barnes 200X Barnes 250X A Square 400 Solid Hornash 4002N | Rem, 9.51M Rem, 9.51M Rem, 9.51M Rem, 9.51M | 35. 35. 35. | 4111 | *** | | | | | | 90.5 2,890 32.4 85.0 2,610 52.4 81.0 2,455 30.9 82.0 2,445 31.7 | 820 2130 35.6 830 2,140 35.6 | | |
| 416 Righty destroyments Burner 300X Burner 350X A Square 409 Solid Hormady 400RN | Fed. 215 Fed. 215 Fed. 215 | 3.675 3.675 3.725 3.725 | ZZZZ | **** | | | | | | | | 101.0 2.590 40.0 101.0 2.455 40.3 96.0 2.356 40.3 96.0 2.335 39.8 | |
| A16 Wbr. Mag. control Barnes 355X Names 350X A Square 400 Solid Hornach 400SP | Fed. 215 Fed. 215 Fed. 215 Fed. 215 | 3.65 3.66 3.68 3.68 | MAN MAN | *** | | | | | | | | 117.0 2,880 51.0 116.9 2,896 51.0 117.0 2,705 50.5 117.5 2,726 51.0 | |
| 44/40 Win. Assistance Rem. 2005P Cast 2405. | Kem. 2.5 Kem. 2.5 | <u>85</u> | 44 | ** | 25.0 | 1,230 12.5 | 962°1 5.85 | 1,296 12.1 | | | | | |
| A44 Martin Ambrosom Cast (GC) 240L Spec 2465P Homady 255FP | Rem. 9.5 Fem. 9.5 Rem. 9.5 | ងងង | R in R | AAA | 2882 | 1,725 27.9 1,730 21.9 1,715 22.1 | 42.5 2,086 51.0 2,409 67.0 2,215 | 38.1 | | | | | |
| AN70 Gort. destryment Homady 300HP Cast (GC) 383L Spec 400FN | Rem. 9.5 Bern. 9.5 Rem. 9.5 | 245 2575 27 | 111 | *** | 30.0 25.0 25.0 | 1,650 23.0 1,540 21.3 1,260 24.0 | 50.0 2,073 45.0 1,836 40.0 1,586 | 2,075 24.7 1,810 25.1 1,580 24.9 | | | | | |
| ASS Win Mag. Annie per Hornady 500HP Cart NS (GC) lead Hornady 500 PM | Win WLR Win WLR Win WLR | 2.55 3.3 3.33 | M W W | ននន | 35.0 30.0 35.0 | 1,590 13.5 1,290 14.2 1,415 32.6 | 70.0 2.556 65.0 2,286 64.0 2,000 | 2555 41.4 2,285 42.1 2,006 0.0 | | | | | |

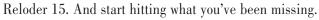


HAVE YOU BEEN MISSING SOMETHING?

Reloder 15® is Alliant's premium, fast burning rifle powder, specially blended for the demands of varmint shooting. It combines 3,000+ fps velocity with the flat trajectory you need for excellent accuracy. Works great with varmint-weight .243 bullets, or heavier weight .223 and .22-250 bullets.

And Reloder 15 delivers consistency you can count on, shot after shot,

year after year. Just as every other Alliant powder has for over a century. Try reloading with

















Alliant Powder, P.O. Box 6, Radford, Virginia 24143-0006 Phone: 800-276-9337 Web site: www.alliantpowder.com

HANDLOADING PRECAUTIONS & TECHNICAL DATA

Pistol and Revolver Cartridges Special Reloading Precautions

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

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

A. Prevent deeply seated bullets.

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

Prevent multiple charges.

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

C. Impection.

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

Physical Effect of Gun Recoil (Kick)

The reurward motion of every gun, its recoil, increases when heavier shot or heavier bullets are fixed, and when higher velocity loads are fixed. This motion must be opposed by the shoulder, or the pixel hand, of the shouter. Whenever the recoil is perceptibly annoying to the shouter, accuracy on succeeding firings undoubtedly distributes.

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

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

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

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

Handloading Precautions

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

HANDLOADING PRECAUTIONS & TECHNICAL DATA (continued)

Smokeless Powders for Reloading

We currently offer 15 powders for use in reloading. These are listed in the order of decreasing burning rates. Each powder listed is "slower" than those preceding it and "faster" than those following it. Among these Alliant smokeless powders, for example, Red Dot* burns more slowly than Bullseye*, but faster than Green Dot*.

Principal Use¹ Powder Bulleeye* Red Dot* Handgus Loads Light and Standard Shotshell Loads, 12-Gauss 12-Gauge Turget Loads Standard and Medium Shotshell Loads, 12- and 16-Gauge American Select® Green Dot® All-Around Shotshell Powder, 12-, 16-, 20-, and 28-Gauge High performance pistol loads such as the 9mm, .40 S&W, and 10mm Power Pistol® Henry Shotshell Loads, 10-, 12-, 16-, 20-, and 28-Gauge Magazam Shotshell Loads, 10-, 12-, 16-, 20-, and 28-Gauge Steel Shotshell, 10- and 12-Gauge Hereo® Blue Dot® Steel Magnum Handgun Loads Light Rifle Loads Light Varmint/Light Bullet Loads Medium Rifle Loads 2400₽ Reloder# 7 Reloder® 10X Reloder* 15 Magnum Rifle Loads Magnum Rifle Loads Reloder# 22 Reloder® 25 Magnum Riffe Loads

Can Also be Used In¹
12-Gauge Light Target Loads
Handgun Loads
Handgun Loads
Handgun Loads
Handgun Loads
Handgun Loads
Moderate pressure pistol cartridges like the 38 Special,
389 Auto, and 45 ACP
Heavy Handgun Loads
Magnum Handgun Loads
Magnum, Shotshell and Turkey Loads
Seme Rifle and Shotshell Loads
Silbouette Loads
Bench rest calibers; Light Bullet 308
Silbouette Loads

Target and hunting rifle leads

Maximum hunting loads

Maximum hunting loods

Packaging

| Powder | 1-Ib Canister | 4-Ib Canister | 5-lb Canister | 8-lb Keg |
|---|---------------|---------------|---------------|----------|
| Bullaeye, Red Dot, American Select, Green Dut, Unique, Hercu, 2400 | r | r | | x |
| Power Pistol | x | × | | |
| Blue Dot | x | | × | |
| Reloder Series | x | | × | |
| Steel | x | 1 | | |

All 15 powders are above in stock at distributors' magazines throughout the U.S.A., and in most countries where reloading is legally permitted and popular. Any reloader unable to purchase any of the 15 powders at retail stores that handle powders should write to the address on the back cover. We cannot ship directly, but we will endeavor to correct supply shortages in your area.

Powder Information

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

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

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

By utilizing a precise combination of chemical formulation, granule size, and chemical coatings, we are able to tailor the burning characteristics of our propellants to achieve the best overall performance in a wide range of loads.

Because each of our propellants is specifically engineered to have different burn rates and performance characteristics, NEVER BLEND OR MIX DIFFERENT POWDERS, AND USE ONLY THE GRADE AND QUANTITY RECOMMENDED IN THIS RELOADER'S GUIDE.

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

Working up charges. For shotgun loads, use the charge weight shown. However, for all rifle and pistol loads, first load and fire a few cartridges at 10% less charge than is shown, watching for any sign of excessive pressure (difficult extraction, flattened or blown primers, unusual recoil).

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

Dram Equivalent

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

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

Notice

We have inserted information on the properties and storage of smokeless powder for your understanding, so that you can avoid unnecessary risks when using it. This information, on pages 51 and 52, was published initially by the Sporting Arms and Ammunition Manufacturers' Institute, Inc., several years ago in the interest of safety. You must read these pages carefully and comply with the procurtions listed. If you have questions, please call or write to us at the address on the back cover.

 $^{^{1}\}mathrm{Use}$ only in the loads printed in this Guide.

Important Safety and Health Precautions

To perform in a gue, powders must ignite easily and burn rapidly. These characteristics require use of common sense to avoid accidents. YOU MUST OBSERVE THESE PRECAUTIONS:

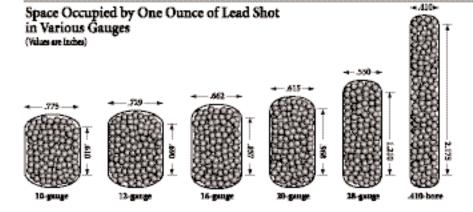
- DO NOT smoke when releading.
- DO NOT use spark-producing tools.
- 3. DO NOT mix powders of different kinds.
- DO NOT leave powder where children can get it.
- DO NOT try to load when distracted.
- Avoid an open fire or working near spark-producing machinery.
- Pour out only the amount of powder needed for immediate work.
- 8. Check the powder measure each time it is used. Make sure the settings have not been accidentally changed. Check-weigh "thrown charges" frequently.
- 9. Clean up any spilled powders. Use a brush and dustpan; do not use a vacuum cleaner. Dispose of spilled powder as described in the SAAMI pages of this Guide.
- Store powder only in its original container, which was carefully designed for this usage. DO NOT REPACKAGE. Do not purchase or scrept any AlExest powder not in its original, FACTORY-SEALED container.
- 11. Be sure the powder container is completely empty before discarding. Do not use the container to store other powders or materials, or for any other purpose.
- Always keep in mind that smokeless perwder is an explosive material and highly fiannable. It should always be stored and handled in such a way so to avoid impact, friction, heat, sparks, or fiance.
- Wear esfety glasses when reloading.
- 14. This material contains nitroglycerin. Inhalation, skin contact, or ingestion may cause severe headache, nauses, and lowering of blood pressure. THEREFORE, THE FOLLOWING PRECAUTIONS MUST BE OBSERVED WHEN HANDLING POWDERS:
 - A. Do not take internally. In case of ingertion, cause vomiting. Call a physician.
 - B. Avoid contamination of food, beverages, or smoking materials.
 - C. Avoid breathing dust. Ensure adequate ventilation during handling.
 - D. Wash thoroughly after bandling and before eating, drinking, or smoking.
 - E. Do not carry powder in dothing.

You must also always remember:

- 1. Establish a routine for reloading. It will result in more uniform loads and less chance of error.
- 2. Some primers are more powerful than others (they produce more gas at a higher temperature). Use only the primers specified herein.
- 3. Shotshell wads differ in their scaling shility. Use only the load combinations specified herein.
- 4. If you use cast bullets, their diameter, hardness, lubrication, and crimp will affect the ballistics.
- The shotshell leads in this booklet are for use with LEAD SHOT ONLY! For steel shot see special steel section, pages 30-31.
- Use only the brands of provder and components abown in our tables. Do not substitute other types.
- 7. Discharging firearms in poorly ventilated areas, cleaning firearms, or handling ammunition may result in exposure to lead, a substance known to cause birth defects, reproductive harm, and other serious physical injury. Have adequate ventilation at all times. Wash hands and face thoroughly after handling and before coming in contact with food, chewing materials, and smoking materials.

Reference Tables

| *********** | ************ | ~~~~~~~~~~~~ | *************** | | ~~~~~~~~~~~~ | ~~~~~~~~~~~~ | ************** | ************** | 000000 |
|-------------|--------------|-----------------|-----------------|---------------|-----------------|--------------|----------------|----------------|--------|
| Approxim | ate Number | of Pellets in S | pecific Weight | s of Lead Sho | ot (Sizes 2 Thr | ough 9) | | | |
| Wright, az | No. 2 | No.4 | Na.5 | No.6 | No.7 | No.8 | No. 3 | No. 9 | |
| | 45 | 67 | 85 | 112 | 175 | 205 | 242 | 292 | |
| | 67 | 101 | 127 | 168 | 262 | 308 | 363 | 439 | |
| | 79 | 118 | 149 | 197 | 306 | 359 | 425 | 512 | |
| 1 | 90 | 135 | 170 | 225 | 350 | 410 | 485 | 585 | |
| 1 | 101 | 152 | 191 | 253 | 393 | 461 | 545 | 658 | |
| 1 | 112 | 169 | 213 | 281 | 437 | 513 | 605 | 731 | |
| 1 | 124 | 185 | 234 | 309 | 453 | 564 | 665 | 804 | |
| 1 | 135 | 202 | 255 | 337 | 525 | 615 | 750 | 877 | |
| | | | | | | | | | |



Internal Diameter of the Barrel in Several Shotgun Gauges

10-Gauge 0.775-Inch 12-Gauge 0.729-Inch 16-Gauge 0.662-Inch 20-Gauge 0.615-Inch 28-Gauge 0.550-Inch 410-Bore 0.410-Inch

Reference Tables (continued)

Number of Shells That Can Be Loaded with One Pound of Powder at Various Grains Per Load

(The term grain is a mountee of weight: 7,000 grains equal one pound)

| Grains/ Loud | Loods' Pound | Grains/ Lead | Lords/ Frend | Grains/ Load | Loads/ Pound | Grainu/ Lead | Lords/ Pound | Greins/ Lond | Loads/ Pound | Grains/ Lord | Londs/ Perms |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 12 | 583 | 23 | 304 | 34 | 205 | 45 | 156 | 56 | 125 | 67 | 104 |
| 13 | 538 | 24 | 291 | 35 | 200 | 46 | 152 | 57 | 123 | 68 | 103 |
| 14 | 500 | 25 | 280 | 36 | 194 | 47 | 149 | 58 | 121 | 69 | 101 |
| 15 | 466 | 26 | 269 | 37 | 189 | 48 | 146 | 59 | 119 | 70 | 100 |
| 16 | 437 | 27 | 259 | 38 | 184 | 49 | 143 | 60 | 117 | 71 | 99 |
| 17 | 411 | 28 | 250 | 39 | 179 | 50 | 140 | 61 | 115 | 72 | 97 |
| 18 | 388 | 29 | 241 | 40 | 175 | 51 | 137 | 62 | 113 | 73 | 96 |
| 19 | 368 | 30 | 233 | 41 | 170 | 52 | 135 | 63 | 111 | 74 | 95 |
| 20 | 350 | 31 | 225 | 42 | 166 | 53 | 132 | 64 | 109 | 75 | 93 |
| 21 | 333 | 32 | 218 | 43 | 162 | 54 | 130 | 65 | 108 | 76 | 92 |
| 22 | 318 | 33 | 212 | 44 | 159 | 55 | 127 | 66 | 106 | 77 | 91 |

Typical Percentage of Pellets in a 30-Inch Circle at 40 Yards (Pattern) for Various Choke Sizes (Choke is a Constriction at the Missis of a Shorgan Berril)

Full Choke—70% Improved Modified Choke—65 to 70% Improved Cylinder—50% True Cylinder—40%

Modified Choke---55%

Ballistic Data

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

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

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

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

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

Special Notes Regarding Components Other Than Powder

- A. Shotgun Shells. Manufacturers may sell ammunition under different brand names that are identical for reloading purposes. Pollowing are popular variations. When in doubt, consult the ammunition producer.
 - · Federal Hi Power Plastic same as Duck and Phonsont, Field, Game, and Dove and Squirrel or Tap Gun.
 - + Federal Premium (Integral Base Wad)
 - · Remington-Peters. Same as Mohawk brand shells.
 - Remington-STS Type. Same as Premier, Nitro 27, GunClub, and Game Loads
 - · Winchester AA-Type . Old and new style halls are interchangeable.
 - Winchester Polyformed Type (Reifenhauser Tube) same as Duck and Phessent, Dove and Squirrel.

B. Primers

- CCI 109 and CCI 209 are ballistically identical and can be interchanged.
- CCI 209M (Magnum) is "hotter" and cannot be substituted for CCI 109 or 209. Use 209M only as listed.
- Rem. 209 is "hotter" and cannot be substituted for Rem. 97 to or Rem. 209P primer.
- Rem. 209P is interchangeable with Rem. 97★ primer.
- Federal 209A is "hotter" and cannot be substituted for Federal 209.
- C. Wedz. Card wads and fiber wads are used for certain slug and buckshot loads and a few light shotshell loads. Do not interchange wads.
- D. Shot. Use only clean lead shot. DO NOT USE STEEL SHOT IN SHOTSHELL LOADS EXCEPT AS LISTED IN STEEL™ SECTION.
- Shot Buffers. Do not add any buffers or fillers of any kind to shotsbell loads listed in this Guide.
- F. Carde and Pillers. For revolver, pistol, and rifle cartridge reloading, do not add any carde, kapok, or fillers of any kind to loads listed in this Guide.

Black Powder

Black powder is entirely different from smokeless powder. NEVER substitute one for the other. Smokeless powders have much more energy than black powder. NEVER sitempt to use smokeless powder in black powder guns or saluting exmon; they may blow up and exuse serious personal injury (including death).

Powder Bushing Charts

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

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

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

The information in these tables has been supplied by the reloading machine manufacturers and is not a reloading recommendation or a result of Alliant's testing

Lee Load-All Capacity Bushing Chart (Units shown in grains)

| Bushing # | .095 | .100 | .105 | .110 | .116 | .122 | .128 | .134 | .141 | .148 | .155 | .163 | .171 | .180 | .189 | .198 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Red Dot | 11.0 | 11.6 | 12.2 | 12.8 | 13.5 | 14.2 | 14.5 | 15.5 | 16.4 | 17.2 | 18.0 | 18.9 | 19.8 | 20.9 | 21.9 | 23.0 |
| Amer-Select | 11.6 | 12.2 | 12.8 | 15.4 | 14.2 | 14.9 | 15.6 | 16.4 | 17.2 | 13.1 | 18.9 | 19.9 | 20.9 | 12.5 | 23.1 | 24.2 |
| Green Dot | 12.3 | 13.0 | 13.6 | 14.3 | 15.1 | 15.8 | 16.6 | 17.4 | 18.3 | 19.2 | 20.1 | 21.2 | 22.2 | 23.4 | 24.5 | 25.7 |
| Kine Det | 18.0 | 19.0 | 19.9 | 20.8 | 22.0 | 23.1 | 24.3 | 25.4 | 26.7 | 28.0 | 29.4 | 30.9 | 32.4 | 34.1 | 35.8 | 37.5 |
| Unique | 14.3 | 15.0 | 15.8 | 16.5 | 17.4 | 18.3 | 19.2 | 20.1 | 21.2 | 22.3 | 25.3 | 24.5 | 25.7 | 27.0 | 28.4 | 28.7 |
| Herco | 13.9 | 14.5 | 15.5 | 16.1 | 16.9 | 37.8 | 18.7 | 19.6 | 20.6 | 21.6 | 12.6 | 23.8 | 25.0 | 26.5 | 27.5 | 28.9 |
| 2400 | 21.0 | 22.1 | 23.2 | 24.3 | 25.6 | 27.0 | 28.5 | 29.5 | 31.2 | 52.7 | 34.3 | 36.0 | 37.8 | 39.8 | 41.8 | 43.8 |

^{*}NOTE: Only available with Lee Load-Past.

Hornady Powder Bushing Chart for 366 Auto and Apex 91 (Units shown in grains)

| Grains | 10 | 11 | 12 | 13 | 14 | 1.5 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 25 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 |
|-----------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Red Dot | _ | - | 384 | 193 | 405 | 423 | 428 | 450 | 668 | 650 | 489 | 498 | 510 | 519 | | | | - | | - | | - | | _ | | _ | | - | | - | | - | | _ | |
| American Select | | | | | | | 417 | 423 | 432 | 647 | 456 | 468 | 477 | 485 | | | | | | | | | | | | | | | | | | | | | |
| Green Dot | | | 363 | 578 | 310 | 405 | 420 | 435 | 447 | 456 | 468 | 430 | 432 | 501 | 513 | 522 | 534 | _ | 549 | 558 | | | | | | | | | | | | | | | |
| Unique | | | | 342 | 354 | 366 | 381 | 393 | 405 | 434 | 423 | 435 | 444 | 453 | 465 | 474 | 483 | 492 | 501 | _ | 510 | | | | | | | | | | | | | | |
| Herco | | | | 357 | 365 | 381 | 393 | 405 | 414 | 426 | 438 | 450 | 462 | 471 | 477 | 429 | 496 | | 513 | 522 | 531 | | 549 | 558 | 564 | 573 | | 588 | 354 | É | | | | | |
| Bine Det | | | | | | | | | 366 | 372 | 381 | 390 | 396 | 408 | 414 | 423 | 435 | 662 | 447 | 459 | 468 | 674 | 423 | 429 | 495 | 501 | 510 | 516 | 522 | 931 | 554 | 545 | 509 | 555 | 561 |
| 2400 | | 256 | 266 | | 291 | 300 | 312 | 324 | 220 | 119 | | | | | | | | | | | | | | | | | | | | | | | | | |

Ponsness/Warren Powder Bushing Chart (Units shown in grains)

| Bushing# | LA | 24 | 34 | ٨ | | C | c1 | D | D1 | E | E1 | E2 | F | PÎ | F2 | G | GI | н | 1 | ī | 11 | K | r | м | N | 0 | P | Q | R | 5 | τ | U | ٧ | w | × | Y | Z | M |
|-----------------|----|------|-----|-----|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------|------|---|
| Buliseye | | | | | | | | ~~ | | 16.2 | 15.8 | 17.7 | 18.7 | 15.4 | | | | | | | _ | | | | | | | | | | | | | | | | | _ |
| Red Dot | | | | | | | | | | | 11.6 | 12.2 | 12.8 | 134 | 13.7 | 14.5 | 14.7 | 15.7 | 16.3 | 16.8 | 27.3 | 17.4 | 18.5 | 19.4 | 20.7 | 20.5 | 21.5 | 21.5 | 12.9 | Ė | | | | | | | | |
| American Select | | | | | | | | | | | | | | | | | 164 | 17.5 | 182 | 12.8 | 34 | 19.9 | 23.5 | 22.0 | | | | | | | | | | | | | | |
| Green Dot | | | | | | | | | | | 11.7 | 12.5 | 15.1 | 13.6 | 158 | 14.7 | 145 | 15.9 | 15.7 | 17.0 | 17.5 | 173 | 18.8 | 29.5 | 21.1 | 71.5 | 212 | 723 | 23.2 | 33.6 | 15.3 | 25.5 | | | | | | |
| Unique | | | | | | | | | 12.6 | 14.2 | 14.8 | 13.6 | 163 | 173 | 17.5 | 18.7 | 15.0 | 20.2 | 212 | 22.7 | 22.3 | 22.7 | 34.0 | 25.0 | 26.8 | 27.1 | 27.6 | | | | | | | | | | | |
| Herco | | | | | | | | | 12.3 | 13.3 | 144 | 15.1 | 16.0 | 16.6 | 16.5 | 184 | 18.3 | 19.5 | 20.5 | 30.5 | 21.5 | 21.9 | 25.0 | 24.8 | 25.7 | 26.0 | 263 | 27.1 | 183 | 38.8 | 30.7 | 32.0 | 33.1 | 34.9 | 35.4 | 37.2 | | |
| Bine Det | | | | | | | | | 15.4 | 18.4 | 19.2 | 20.1 | 213 | 20.3 | 22.6 | 23.5 | 263 | 25.9 | 27.2 | 27.7 | 28.5 | 23.0 | 30.6 | 31.3 | 342 | 343 | 36.2 | 364 | 37.5 | 34.0 | 467 | 42.5 | 43.8 | 46.5 | 473 | 6 0.3 | 35.7 | ġ |
| 2400 | | 55.7 | 132 | 183 | 16.1 | 168 | 17.6 | 18.3 | 13.0 | 21.3 | 22.7 | 25.5 | 24.7 | 253 | 26.1 | 27.7 | 28.2 | 300 | 315 | 32.2 | 33.1 | 33.7 | 35.5 | 37.1 | 39.8 | 40.3 | 41.1 | 42.0 | 45.8 | 44.5 | 47.5 | 42.1 | | | | | | |

MEC Powder Bushing Chart (Units shown in grains)

| Bushing# | 9 | 10 | 11 | 12 | 12a | 13 | 13A | 14 | 1.5 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Bullseye | | 8.6 | 9.1 | 9.6 | 10.1 | 10.6 | 11.2 | 11.7 | 12.3 | 12.5 | 13.5 | 14.1 | 14.3 | 15.4 | 16.1 | 16.8 | 17.5 | 18.2 | 18.9 | 19.6 | 20.4 | 21.2 | 21.9 | 22.8 | 23.7 |
| Red Dot | | 6.3 | 6.7 | 7.5 | 7.5 | 7.9 | 8.3 | 8.7 | 9.2 | 9.6 | 10.1 | 10.6 | 11.1 | HA | 12,1 | 17.6 | 13.1 | 13.7 | 14,2 | 14.9 | 15.7 | 16.4 | 17.1 | 17.8 | 18.5 |
| e | | 6.6 | 7.0 | 7.2 | 7.5 | 8.0 | 8.3 | 8.9 | 9.2 | 9.9 | 10.5 | 11.0 | 11.7 | 12.5 | 12.8 | 13.4 | 15.8 | 14.2 | 14.8 | 15.3 | 15.9 | 16.4 | 16.9 | 17.4 | 17.9 |
| American Select | | 6.9 | 7.3 | 7.7 | 8.2 | 8.6 | 9.1 | 9.6 | 10.1 | 10.6 | 11.3 | 11.7 | 12.2 | 12.8 | 13.3 | 15.9 | 14.5 | 15.1 | 15.7 | 164 | 17.6 | 17.7 | 18.5 | 19.0 | 19.7 |
| Green Dot | | 6.7 | 7.2 | 7.6 | 8.0 | 8.4 | 8.9 | 9.3 | 9.8 | 10.3 | 10.8 | 11,3 | 11.3 | 12,4 | 12,9 | 13,5 | 14.0 | 14,6 | 15,2 | 15.8 | 16.4 | 17.0 | 17.7 | 18.5 | 19.0 |
| Unique | | 7.5 | 7.9 | 8.4 | 8.9 | 9.4 | 9.9 | 30.4 | 10.9 | 11.4 | 12.0 | 12.6 | 13.1 | 13.7 | 14.5 | 15.1 | 15.8 | 16.4 | 17.1 | 17.7 | 18.4 | 19.1 | 19.8 | 20.5 | 21.1 |
| Hexco | | 7.9 | 8.3 | 8.8 | 93 | 9.8 | 10.4 | 10.9 | 11.4 | 12.0 | 12.6 | 13.2 | 13.8 | 14.4 | 15.0 | 15.7 | 16.3 | 17.0 | 17.7 | 18.4 | 19.1 | 19.8 | 20.6 | 21.3 | 22.1 |
| Nue Dot | | 10.8 | 11.3 | 11.9 | 12.5 | 13.1 | 13.7 | 14.4 | 15.0 | 15.7 | 163 | 17.0 | 17.7 | 18.4 | 19.2 | 20,1 | 21.0 | 21.5 | 22.8 | 23.7 | 24.6 | 15.5 | 26.4 | 27.5 | 28.2 |
| 2400 | | 11.8 | 12.5 | 13.5 | 14.0 | 14.8 | 15.6 | 36.4 | 17.2 | 18.3 | 18.9 | 19.8 | 20.7 | 21.7 | 22.6 | 25.5 | 24.6 | 25.6 | 26.6 | 27.7 | 18.8 | 29.5 | 51.0 | 52.1 | 31.5 |
| 4.00 | 11.1 | 31.7 | 12.1 | 13.0 | 13.6 | 14.5 | 15.3 | 25.7 | 16.6 | 17.4 | 18.4 | 19.2 | 20.2 | 21.1 | 22.1 | 23.1 | 24.4 | 25.6 | 26.1 | 26.9 | 28.0 | 29.5 | 50.3 | 5L4 | 32.4 |

MEC Powder Bushing Chart continued (Units shown in grains)

| Bushing # | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 38A | 19 | 39A | 40 | 40. | 41 | 41A | 42 | 424 | 43 | 43A | 44 | 44A | 45 | 45A | 46 | |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| Bullacye | 24.5 | 25.5 | 26.4 | 27.5 | 28.2 | 29.1 | 30.1 | 31.0 | 31.9 | 32.8 | 33.7 | 34.7 | 35.7 | 36.9 | 38.1 | 35.4 | 40.7 | 42.0 | 45.3 | 55.6 | 46.0 | 47.4 | 43.8 | |
| Red Dot | 19.2 | 19.9 | 20.6 | 21.5 | 2L9 | 22.7 | 23.5 | 24.1 | 24.7 | 25.2 | 25.9 | 25.5 | 27.5 | 27.3 | 28.4 | 29.3 | 29.9 | 30.8 | 31.5 | 32.1 | 32.7 | 53.4 | 54.1 | |
| e. | 18.5 | 19.5 | 20.5 | 21.0 | 21.8 | 22,5 | 22.8 | 23,2 | 23.8 | 24,5 | 25.4 | 25,0 | 25.6 | 27,0 | 27.5 | 28,8 | 30.0 | 31,1 | 32,2 | 35,1 | 35.9 | 34,8 | 35.9 | |
| American Select | 20.4 | 21.1 | 21.8 | 22.6 | 23.5 | 24.1 | 21.9 | 25.7 | 25.5 | 27.3 | 28.1 | 28.9 | 25.8 | 30.7 | 31.5 | 32.4 | 33.3 | 34.2 | 35.2 | 36.4 | 37.0 | 58.0 | 39.0 | |
| Green Dot | 19.6 | 20.3 | 21.0 | 2L7 | 22.4 | 23.2 | 23.9 | 24.7 | 25.6 | 26.2 | 27.0 | 27.8 | 28.6 | 29.4 | 30.3 | 31.1 | 12.0 | 12.8 | 10.7 | 34.6 | 35.5 | 36.4 | 37.4 | |
| Unique | 21.7 | 22.5 | 25.2 | 24.0 | 26.8 | 25.6 | 25.5 | 77.3 | 28.2 | 79.0 | 29.9 | 30.8 | 31.7 | 32.6 | 33.5 | 34.5 | 35.4 | 36.4 | 17.4 | 18.4 | 19.4 | 40.4 | 41.4 | |
| Hereo | 23.9 | 25.7 | 24.5 | 25.3 | 26.2 | 27.0 | 27.9 | 25.8 | 29.7 | 30.6 | 31.5 | 32.4 | 33.4 | 34.3 | 35.3 | 36.3 | 37.5 | 38.3 | 59.5 | 40.4 | 41.4 | 42.5 | 43.6 | |
| Bius Det | 29.1 | 30.5 | 31.6 | 52.7 | 55.8 | 55.0 | 36.1 | 37.5 | 38.5 | 39.7 | 40.9 | 42.2 | 45.4 | 44.7 | 45.0 | 47.4 | 48.7 | 50.1 | 51.5 | 52.9 | 54.3 | 55.7 | 57.2 | |
| 2400 | 34.5 | 35.7 | 36.9 | 38.1 | 59.4 | 49.7 | 42.0 | 433 | 44.6 | 46.0 | 47.4 | 48.8 | 50.2 | 51.6 | 53.1 | 54.6 | 56.1 | 57.6 | 59.2 | 60.7 | 62.3 | 63.9 | 65.6 | |
| 430 | 33.6 | 34.7 | 35.9 | 37.0 | 58.1 | 39.3 | 40.6 | 42.0 | 43.3 | 45.0 | 46.7 | 48.0 | 49.2 | 50.4 | 51.7 | 55.0 | 34.8 | 56.3 | 57.4 | 58.0 | 59.2 | 60.4 | 62.0 | |

SAAMI

SPORTING ARMS AND AMMUNITION MANUFACTURERS' INSTITUTE, INC. Flintlock Ridge Office Center, 11 Mile Hill Road, Newtown, CT 06470-2359

Properties and Storage of Smokeless Powder

DANGER!

SMOKELESS GUNPOWDER

EXTREMELY PLAMMABLE

EEP ANNE PROM HEAT, SMEKS OR OPEN PLAME

STORE IN A COOL DET PLACE

KEEP OUT OF REACH OF CHILDREN

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

This information is intended to increase the knowledge of all concerned individuals and groups regarding smokeless powder. The statements and recommendations made are not intended to supersede local, state, or Federal regulations. Proper authorities should be consulted on regulations for storage and use of smokeless powder in each specific community. A leaflet entitled "Sporting Ammunition Primers: Properties, Handling, & Storage for Hand Loading" supplements this information on smokeless powder.

Properties of Smokeless Powder

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

How to Check Smokeless Powder for Deterioration

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

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

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

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

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

Considerations for Storage of Smokeless Powder

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

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

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

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

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

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

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

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

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

Recommendations for Storage of Smokeless Powder

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

DO NOT STORE SMOKELESS POWDER IN THE SAME AREA WITH SOLVENTS, FLAMMABLE GASES, OR HIGHLY COMBUSTIBLE MATERIALS.

STORE ONLY IN DEPARTMENT OF TRANSPORTATION APPROVED CONTAINERS.

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

DO NOT SMOKE IN AREAS WHERE POWDER IS STORED OR USED, PLACE APPROPRIATE "NO SMOKING" SIGNS IN THESE AREAS.

DO NOT SUBJECT THE STORAGE CABINETS TO CLOSE CONFINEMENT.

STORAGE CABINETS SHOULD BE CONSTRUCTED OF INSULATING MATERIALS AND WITH A WEAK WALL, SEAMS OR JOINTS TO PROVIDE AN EASY MEANS OF SELF-VENTING.

DO NOT KEEP OLD OR SALVAGED POWDERS. Check old powders for deterioration regularly. Destroy deteriorated powders immediately.

OBEY ALL REGULATIONS REGARDING QUANTITY AND METHODS OF STORENG. Do not store all your powders in one place. If you can, maintain separate storage locations. Many small containers are safer than one or more large containers.

KEEP YOUR STORAGE AND USE AREA CLEAN. Clean up spilled powder promptly. Make sure the surrounding area is free of trash or other readily combustible materials.

10-3 Smokeless Propellants.

10-3.1 Quantities of smokeless propellants not exceeding 25 lb (11.3 kg) in shipping containers approved by the U.S. Department of Transportation, may be transported in a private vehicle.

10-3.2 Quantities of smokeless propellants exceeding 25 lb (11.3 kg) but not exceeding 50 lb (22.7 kg), transported in a private vehicle, shall be transported in a portable magazine having wood walls of at least 1-in. (25.4-mm) nominal thickness.

10-3.3 Transportation of more than 50 lb (22.7 kg) of smokeless propellants in a private vehicle is prohibited.

10-3.4 Commercial shipments of smokeless propellants in quantities not exceeding 100 lb (45.4 kg) are classified for transportation purposes as flammable solids when packaged according to U.S. Department of Transportation Hazardous Materials Regulations (Title 49, Code of Federal Regulations, Part 173.197a), and shall be transported accordingly.

10-3.5 Commercial shipments of smokeless propellants exceeding 100 lb (45.4 kg) or not packaged in accordance with the regulations cited in 10-3.4 shall be transported according to U.S. Department of Transportation regulations for Class B propellant explosives.

10-3.6 Smokeless propellants shall be stored in shipping containers specified by U.S. Department of Transportation Hazardous Materials Regulations.

10-3.7 Smokeless propellants intended for personal use in quantities not exceeding 20 lb (9.1 kg) may be stored in original containers in residences. Quantities exceeding 20 lb (9.1 kg), but not exceeding 50 lb (22.7 kg), may be stored in residences if kept in a wooden box or cabinet having walls of at least 1-in. (25.4-mm) nominal thickness.

10-3.8 Not more than 20 lb (9.1 kg) of smokeless propellants, in containers of 1-lb (0.45-kg) maximum capacity, shall be displayed in commercial establishments.

10-3.9 Commercial stocks of smokeless propellants shall be stored as follows:

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

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Some Publications on Reloading

These booklets, pertinent to reloading, are available from these and other sources.

| Title | Publisher |
|--|---|
| Basic Rules for Reloading Safety | National Reloading Manufacturers Association 4905 S.W. Griffith Drive Beaverton, OR 97005 |
| NRA Guide to Reloading | NRA Bookservice 11250 Waples Mill Road Fairfax, VA 22030 |
| Speer Reloading Manual | ATK Ammunition & Related Products Box 856 Lewiston, ID 83501 |
| RCBS Reloading Guide | RCBS Box 1919 Oroville, CA 95965 |
| Hornady Handbook of Cartridge Reloading Hornady Reloading Tools and Accessories | Hornady Mfg. Co. Box 1848 Grand Island, NE 68801 |
| Sierra Bullets Reloading Manual | Sierra 10532 Painter Avenue Santa Fe Springs, CA 90670 |
| Lyman Cast Bullet Handbook Lyman Shotshell Handbook Lyman Pistol and Revolver Handbook | Lyman Products Middlefield, CT 06455 |
| Nosler Reloading Manual | Nosler Bullets, Inc. P.O. Box 671 Bend, OR 97709 |
| How to Reload Shotshells and Why | MEC 715 South Street Mayville, WI 53050 |
| Ponsness-Warren Catalog | Ponsness-Warren Box 8 Rathdrum, ID 83858 |
| Handloaders' Digest ABC's of Reloading | DBI Books 540 Frontage Road Northfield, IL 60093 |
| Modern Reloading | Lee Precision, Inc. 27 Highway "U" Hartford, WI 53027 |



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