

Accurate[®] Smokeless Powder

DISCLAIMER

Accurate Arms Company, Inc. disclaims all possible liability for damages, including actual, incidental and consequential, resulting from usage of information or advice contained in this book. Use data and advice at your own risk and with caution.



Accurate Arms Company, Inc.
McEwen, Tennessee

TABLE OF CONTENTS

| | |
|--|--------------------|
| Accurate Powder Specifications | Inside Front Cover |
| Introduction and Special Notes..... | 3 |
| Acknowledgments | 5 |
| Legend | 5 |
| Special Warnings About Internal Chamber/Bore Dimensions and Configurations | 6 |
| Accurate® Smokeless Powder Descriptions | 8 |
| Smokeless Propellant Storage | 10 |
| Handgun Data..... | 14 |
| Cowboy Action Shooting..... | 22 |
| Rifle Data..... | 26 |
| Bushing Data for Shotshell Propellants | 45 |
| Shotshell Data..... | 47 |
| A Quick Guide to Shotshell Primers and Wads | 63 |

What's New in This Manual

- Additional Magnum calibers: i.e.: 300WSM, 7mmRemUltra Mag., .338LapuaMag, 375Rem UltraMag.
- The XMP5744 data is now consolidated with the normal gun categories.
- Additional information for AA 4100 on handgun calibers.
- High performance data for the 45 Colt.
- Inclusion of the actual minimum “START” loads.
- Additional information notices and warnings on pages 3 and 5.
- Announcement of new powder “**MAGPRO**” for the Short magnum calibers. (Data is not included yet and will be supplied on a separate pamphlet.)

INTRODUCTION

This booklet is an introductory guide to the use of our **Accurate® Smokeless Propellants**, including the Scot™ series of shotshell propellants. The data for the metallic cartridges has been derived from our more comprehensive No. 2 loading guide. (It is available from your local dealer, or check the inside back cover of this booklet for ordering details.) The shotshell data is the latest we have available on the Scot series and is only available in this guide.

SAFETY

In reloading, the prime concern should be **SAFETY**. **Always** wear eye protection when reloading, even when working with “non-volatile” components. **Always** keep the reloading area clean. **Never** have more than one propellant within easy reach at any given time. Avoid having similar looking bullets of different weights on the bench at the same time. Read the safety notes in the center of the booklet before loading.

If you are new to reloading, we recommend that you obtain and read a book such as Dean Grennell’s “*ABC’s of Reloading*” or any other publication specifying the reloading procedures in detail. It will help provide the basics for getting started. Loading manuals from the bullet companies provide information about reloading for metallic cartridges. All loading tools (metallic and shotshell) come with instructional text.

Metallic Centrefire Calibers:

As with all editions of our loading data, as well as all other publications, one must be aware that the velocities and pressures generated for a *specific combination* of gun (i.e. chamber/barrel internal dimensions), and components, (i.e primer, case and bullet) *may differ significantly*, from what is listed in this guide. That’s the reason why a safety margin of 10% is built into the “**START**” load.

This is the golden rule of reloading: To always start at the suggested minimum “START” load. This also applies whenever a change is made to any one of the components of the combination, i.e., primer, case or bullet.

The only charge that can be guaranteed to be safe, is the minimum or “START” charge. The misconception that the maximum charge (or any charge beyond the minimum load) is also safe, is not true at all. The myriad of variables outside the control of the compiler of reloading data, does not allow for that exact a prediction.

This guide is a report of the velocities developed on a given day under a given set of lab conditions. **Variations as much as 10% have been recorded between different combinations.** Therefore, a variation in performance should be expected. In the case of metallic centerfire calibers, the minimum loads are listed. In certain cases where only one load is listed, such as reduced loads for special applications such as training, Cowboy action, galley loads etc, the listed charge can be used as is. In such cases the fact will be stipulated.

Please use caution when reloading with military cases as some batches of military cases

have reduced interior volume and may require reducing the charge even further to keep chamber pressure in line.

In the case of revolver calibers, some data was compiled using un-vented test barrels. Please expect a lower velocity in actual revolvers. This lower performance will depend on the conditions and parameters of each combination. This will depend on the cylinder gap, burn rate of the propellant, as well as the performance level.

WARNING concerning reduced loads: For this special type of application, it is often necessary to load *below the 50% case capacity level*. This, combined with the fact that **fast handgun/shotshell propellants are recommended and used** to maintain the combustion efficiency, creates the **real possibility of “DOUBLE CHARGING.” THIS WILL HAVE DISASTROUS RESULTS**. Please verify and **check each and every loaded case** with a marked **plunger** before inserting/crimping the bullets. **Haste in this case is not worth the risk!!!!**

Shotshell Calibers:

The charge tables for shotshell cartridges are to be used as a guideline. Variations can occur, although to a lesser degree than with metallic centerfire calibers. Even when the exact same components are used, the difference *due to case condition, crimp, and primer* may cause variations beyond what is normally being accepted and/or assumed. **Shot shell calibers are especially sensitive to variations in primers and assembly procedures. The normal variation in primers even from one manufacturer will result in different ballistics.** The shot weights listed in this booklet are for lead shot; *steel shot may not be substituted*.

If you find indications of excessive pressure while using loads in this guide STOP TESTING, and verify all data and loading procedures. If things seem to be in order, check with our lab personnel before proceeding. The phone number to use is (931) 729 4207.

ACKNOWLEDGMENTS

The following companies have been helpful in the preparation of this loading guide:

| | | |
|--------------------------|-------------------|----------------------------|
| Ballistic Products | Barnes Bullets | C. Sharps Arms |
| Bull-X Bullets | CCI/Speer | Douglas Barrels |
| Eldorado Cartridge | Clements Casting | Hornady Bullets |
| Lee Precision | Cooper Arms | Magnum Research |
| Miller Arms | Forster Products | Mayville Engineering (MEC) |
| Penny's Casting | Freedom Arms | Nosler Bullets |
| Redding-SAECO | Lyman Products | RCBS |
| Starline | Precision Machine | Remington Arms Company |
| Thompson/Center Arms | Sierra Bullets | White Rock Tool & Die |
| Wolfe Publishing Company | H-S Precision | Bill Wiseman |

LEGEND

| | | | |
|----------------|----------------------------|----------------|------------------------------|
| A-F | A-Frame | NOS | Nosler |
| BAR | Barnes | NR | No recommendation |
| BP | Ballistic Products | OAL | Overall length |
| BT | Ballistic Tip | OZ | Ounce |
| CB | Claybuster | PART | Partition |
| CLE | Clements | PC | Pattern control |
| DGW | Dixie Gun Works | PEN | Penny's Custom Bullets |
| DE | Double end wadcutter | PMC | PMC/Eldorado Cartridge |
| F/S | Feet per second | POST | Postell |
| FA | Freedom Arms | PSPCL | Pointed Soft Point Core-Lokt |
| FED | Federal | REM | Remington |
| FIO | Fiocchi | RN | Round Nose |
| FN | Flat Nose | RPM | Rock Pistol Manufacturing |
| GD | Gold Dot | S | Solo |
| GS | Grand Slam | S&W | Smith and Wesson |
| H&R | Harrington and Richardson | SCHM | Schmitzer |
| HB | Hollow base wadcutter | SP | Spitzer |
| HDY | Hornady | SPBT | Soft Point Boat Tail |
| HPBT | Hollow Point Boat Tail | SPR | Speer |
| IMI | Israel Military Industries | SRA | Sierra |
| (L) | Lead | SWC | Semi-wadcutter |
| LY | Lyman | SWF | Swift |
| MAX | Maximum | T/C | Thompson/Center Arms |
| MIL | Military | ULA | Ultra Light Arms |
| MIN | Minimum | WIN | Winchester |
| N100 | Nitro 100 | X | X Hollow Point |

SPECIAL WARNINGS!!!

Concerning the internal dimensions and configurations of centerfire metallic calibers, especially Semi-auto pistols. *This warning is not aimed at specific weapons, but any weapon with the conditions or dimensions as described below. Accurate Arms did not compile special data for any weapon.*

Chamber dimensions:

It is extremely important to note that due to aftermarket modifications and for certain factory produced semi-auto pistols, some pistols have chamber configurations that do not fully support the chambered cartridge case.

This modification is incorporated to aid in the reliable feeding of the round from the magazine. Although this practice is acceptable with some calibers such as the 45ACP which generate relatively low pressures, this kind of incomplete support can be a real problem with high performance calibers such as the 9mmx19P, 38Super, 40S&W and 10mm Auto calibers. Although it might also be acceptable for first fired conditions such as factory ammunition, or new unused cases, a potential hazardous condition can be created when cases are reloaded for the second or subsequent time. Whenever a deformed case results after firing (e.g., a bulged or “pregnant” shape from the base of the main body towards one third to half of the case body), it is a sure sign that the case is not fully supported. Although this bulged part is reformed during resizing, the case strength could be weakened. The problem occurs when this part of the weakened case again lines up with the modified part of the chamber. This will then cause the case to fail and the gasses to be ejected into the internal cavity of the weapon.

The loading data published by Accurate Arms was developed in our ballistic laboratory in accordance with SAAMI test methods and equipment and does not exceed Maximum Average Pressure recommended by SAAMI. This information is safe for use in firearms which provide complete support of the case. Failure to fully support the case with cartridges of such intensity may result in bulged cases, ruptured cases, separated case heads or other consequences which may result in destruction/damage to the firearm and/or injury or death to the shooter and/or bystanders. This can happen no matter whose propellant is used.

We recommend that if you own a firearm where the chamber does not fully support the chambered round and is producing the above mentioned symptoms, you contact the manufacturer to determine if the case is fully supported, or have

a competent gunsmith examine the firearm and determine the amount of support provided the case.

If your firearm does not provide complete support for the case, please take extreme care and refrain from reloading cases.

Unconventional internal rifling/bore profiles in conjunction with cast/lead bullets

This concerns the combination of using cast/lead bullets with rifling configurations other than the standard “square” land and groove profile.

In order to properly engage the bullet, any barrel with an unconventional rifling profile needs to have an extremely tight bore diameter. When lead/cast bullets are used in conjunction with these types of barrels, it is extremely important to properly select the correct type, size (diameter) and hardness of the bullet. Any bullet material that might collect in the freebore/throat area will cause a delay in bullet displacement during firing, which will have disastrous results.

This is especially true in the case of typical high performance auto pistol calibers such as the 9mmx19P, 40S&W, 10mm Auto etc, and in the case of high performance 45ACP + P loads.

We recommend that the shooter/reloader always be aware of the level of leading that is occurring for their combination. Any excessive build up of material should prompt the cleaning of the bore. When plated cast bullets are used, make absolutely sure it is of the best quality possible with no possibility of separation of the plated material from the lead core.

Accurate Arms Company has felt it necessary to place these warnings because the continued safety and welfare of the shooting public compels us to do so.

Accurate® Smokeless Propellants

S
P
E
C
I
F
I
C
A
T
I
O
N
S

The **Accurate®** Smokeless Propellants listed below are in approximate burning order from fastest to slowest. All propellants are manufactured with nitro-cotton as the main energetic ingredient. Double base propellants have “NG” or nitroglycerin (glyceryl trinitrate) as the second energetic ingredient.

PISTOL PROPELLANTS

No. 2 Improved™ A fast burning, low density ball propellant developed for use in .38 Special target loads. Excellent for target loads in almost all handgun cartridges, especially where low pressure and clean burning are desirable. Its low charge weights help the handloader stretch his shooting dollar.

No. 5™ A relatively fast burning double base, ball propellant developed for use in the .45 ACP that is somewhat slower than Unique. **No. 5** is used in more handgun cartridges than any of our other handgun propellants. This is our most versatile handgun propellant.

No. 7™ A double base, ball propellant originally developed for 9 mm NATO carbine ammunition. It has become a favorite propellant for IPSC shooters. Somewhat more specialized in applications than **No. 2** or **No. 5™**, it is well-suited to high intensity cartridges. It is a good choice for magnum handgun cartridges (such as 357, 41, and 44 magnum) when slightly less than full power loads are preferred.

No. 9® Our slowest handgun propellant, **No. 9** is the best .44 magnum propellant available. This double base, ball propellant gives excellent velocities for the pressures generated, and with less flash than comparable propellants. It is intended for use in large capacity handgun cartridges (357, 41, 44 magnum, and 454 Casull). **No. 9™** is also suited to some small rifle cases (25/20, .30 Carbine) and the .410 shotgun. **No. 9** performs best with heavier bullets in most cartridges. A heavy bullet pull is required for consistent performance when using lighter bullets.

4100™ This is our slowest magnum handgun propellant, ideally suited for the large capacity magnum revolvers calibers, such as the 44RemMag, .454Casull and semi-auto pistols calibers such as the 50 Action express and the 450 Extreme. This propellant is also usable in the .410 Shotgun. (See shotgun propellants.)

PISTOL/RIFLE PROPELLANTS

XMP-5744™ is a rather special and unique product. It's a fast burning propellant, and can actually be categorized as a handgun/fast-rifle propellant. It's a double base “hybrid” propellant having the typical chemical composition of handgun propellants, i.e., 20% NG—and the geometry of a typical extruded single perforated rifle propellant. This makes the propellant very ignitable, as well as bulky, which makes it ideal for low loading density applications, such as reduced loads on bottle neck rifle calibers, and low performance “straight case” designs, such as the old blackpowder calibers, i.e., 45-70, etc. The propellant is insensitive to propellant position, and there is no need for “fillers.”

RIFLE PROPELLANTS

1680™ A double base, ball propellant which performs well in the 7.62 x 39mm cartridge. It is the best propellant for the 22 Hornet. Also suitable for small capacity cases such as the T/CU series, the .222 Remington and the .223 Remington with lighter bullets.

XMR-2015™ (Formerly 2015BR) A single base, small-grained, extruded propellant developed for “bench rest” cartridges, such as the PPC and BR series. This propellant was tested at the bench rest nationals in 1990 and subsequently adopted by shooters such as Ferris Pindell and Sal Ventimiglia. **XMR-2015** is extremely flexible giving excellent performance in many cartridges from 22 Hornet to 458 Winchester Magnum.

2230™ One of our most popular rifle propellants. A double base, ball propellant developed for use in the 223 Remington (5.56 NATO). **2230** is very popular with those shooters who load large quantities of .223 Remington ammo.

2460™ This medium-burning ball propellant is popular with NRA, IHMSA, and bench rest shooters. Useful in a wide variety of cartridges, it is slightly slower than **2230** and shows a small pressure advantage over **2230** in bores of 7mm and over. An excellent choice in .308 Winchester, **2460** is appropriate for use with AR-15, M1 and M14 (M1A) service rifles.

XMR-2495™ (Formerly 2495BR) Very similar to 4895, this single base, extruded propellant gives great performance in a wide variety of cartridges. It offers service rifle shooters who prefer extruded propellants an **Accurate®** alternative to our **2520**. Now with reduced flash.

2520™ This medium-slow burning, ball propellant gives excellent results in medium capacity cases (308 class) and certain applications in large bore cartridges. This propellant was in the winner's circle in NRA High Power competition before it had been on the market two years! **2520** is the first choice for target shooters using 168 grain bullets in the .308 Winchester. **2520** has a pressure curve appropriate for use with M1 and M14 (M1A) service rifles. In fact, some shooters now call it the "Camp Perry" propellant.

XMR-4064™ Very similar to IMR 4064. This single base rifle propellant is short cut for better metering while delivering the performance shooters have come to expect from 4064. This propellant meets the needs of service rifle competitors and hunters who prefer extruded propellants. Admirers of the 30-06 will especially like this propellant.

2700™ A double base ball propellant that fills the gap between **2520** and our **4350**. It is intended to be used as a heavy bullet propellant in many cartridges. Excellent in the .22-250 Remington and the .220 Swift with varmint bullets.

XMR-4350™ America's most popular reloading propellant for rifle cartridges. A single base, extruded propellant similar to IMR 4350. Delivers superb results in cartridges from the 243 Winchester and 270 Winchester to the largest magnums.

MAGPRO™ **NEW** Our latest development aimed at the new short magnum calibers from Winchester and Remington, i.e., 300WSM, 7mmWSM, 270WSM, 300SAUM, 270SAUM and 7mmSAUM. This is a double base ball propellant, which currently has a unique burn rate not equaled by any other. This powder will also be usable in "standard" and magnum type calibers, i.e., 7RemMag and 270 Winchester.

XMR-3100™ A single base, extruded propellant that serves well from the .243 Winchester to the big magnums, particularly the 7mm Remington Magnum. It has proven to be a cost effective replacement for IMR-4831 and H-4831.

8700™ The slowest propellant available to reloaders. This slow burning double base, ball propellant is best suited to the magnum rifle cases such as the .257 Weatherby Magnum, .264 Winchester Magnum, .270 Weatherby Magnum, 7mm Remington Magnum, and .300 Weatherby Magnum. **8700** may also be used in cartridges such as the .25/06 Remington and .270 Winchester (velocity and pressure will be reduced from normal, but accuracy is outstanding). Interestingly, it performs well in a large variety of cartridges for cast bullet loads. Use of a magnum primer is recommended for best results.

SHOTSHELL PROPELLANTS

Nitro 100™ A fast burning, double base disc propellant. Developed for 7/8, 1, and 1½ ounce of shot in 12 gauge for trap, skeet, and light field loads. Clean burning in all applications. An excellent choice for low pressure/low loading density applications in handgun cartridges.

Solo 1000™ A fast, **ultra-clean** burning, porous, single base, disc propellant ideal for all shotguns. Highly uniform grain size. The champion's choice for 12 gauge clay targets or indoor/outdoor .38, and .45 ACP.

Solo 1250™ A single base, clean burning shotshell propellant that ranges in use from 12 gauge field loads to 28 gauge. An excellent choice for trap, skeet or sporting clays.

4100™ A fine-grained, double-based ball propellant developed for use with .410 bore shotshells. Ideally suited to 2½" skeet loads. This powder is also ideal for large capacity magnum revolver and some pistol calibers. (See Pistol/Rifle propellants previous page.)

DANGER!**SMOKELESS GUNPOWDER
EXTREMELY FLAMMABLE**KEEP AWAY FROM HEAT, SPARKS
OR OPEN FLAME
STORE IN A COOL DRY PLACE**KEEP OUT OF THE REACH
OF CHILDREN****PROPERTIES
AND STORAGE
OF SMOKELESS
POWDER**

Ammunition handloading has become increasingly popular in recent years. This leaflet discusses properties of smokeless powder and offers recommendations for its storage. This leaflet is intended to increase the knowledge of all concerned individuals and groups regarding smokeless powder. The statements and recommendations made are not intended to supersede local, state or Federal regulations. Proper authorities should be consulted on regulations for storage and use of smokeless powder in each specific community. A second leaflet entitled "SPORTING AMMUNITION PRIMERS: PROPERTIES, HANDLING, & STORAGE FOR HANDLOADING" supplements this leaflet on Smokeless Powders.

PROPERTIES OF SMOKELESS POWDER

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

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

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

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

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

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

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

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

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

S A A M ISPORTING ARMS AND AMMUNITION MANUFACTURERS' INSTITUTE, INC.
555 DANBURY ROAD, WILTON, CT 06897

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

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

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

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

When ignited in an unconfined state, smokeless powder burns inefficiently with an orange colored flame. It produces a considerable amount of light brown noxious smelling smoke. It leaves a residue of ash and partially burned powder. **THE FLAME IS HOT ENOUGH TO CAUSE SEVERE BURNS.**

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

If burning smokeless powder is confined, gas pressure will rise and eventually can cause the container to burst. Under such circumstances, the bursting of a strong container creates effects similar to an explosion. 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 smokeless powders are basically free from deterioration under proper storage conditions, safe practices require a recognition of the signs of deterioration and its possible effects.

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

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

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

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

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:

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

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

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

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

RECOMMENDATIONS FOR STORAGE OF SMOKELESS POWDER

STORE IN A COOL, DRY PLACE. Be sure the storage area 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 STORING. 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.

KNOW THE FOLLOWING RECOMMENDATIONS ON STORAGE AND HANDLING ISSUED BY THE NATIONAL FIRE PROTECTION ASSOCIATION, BATTERY MARCH PARK, QUINCY, MASS. 02269 AND REPRINTED WITH THEIR PERMISSION: CODE FOR THE MANUFACTURE, TRANSPORTATION STORAGE, AND USE OF EXPLOSIVE MATERIALS NFPA NO. 495-1992.

CHAPER 10. SMALL ARMS AMMUNITION AND PRIMERS, SMOKELESS PROPELLANTS AND BLACK POWDER PROPELLANTS

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 of 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-inch (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 the 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-inch (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:
- 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.
 - 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 hr.
 - 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 not more than a 3 ft separation between shelves.
 - No more than 400 lb (181 kg) shall be stored in any one cabinet.
 - Cabinets shall be located against walls of the storage room or warehouse with at least 40 ft (12.2 m) between cabinets.
 - 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 ¼-in. (6.4 mm) boiler plate, 2-in. (51 mm) thick wood, brick, or concrete block.
 - 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.
 - The building shall be protected by an automatic sprinkler system installed according to NFPA No. 13, *Standard for the Installation of Sprinkler Systems*.
 - 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.

Reprinted with permission from NFPA 495-1992, Code for the Manufacture, Transportation, Storage and Use of Explosive Materials, Copyright © 1992, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the NFPA on the referenced subject which is represented only by the standard in its entirety.

HANDGUN DATA

FOR MORE COMPLETE LOADING INFORMATION, BUY ACCURATE'S RELOADING MANUAL, BOOK TWO. SEE INSIDE BACK COVER FOR DETAILS.

HANDGUN

7mm T/CU

| Gun Primer | DOUGLAS CCI 400 | Barrel length Case | 14" REM |
|----------------------------------|--------------------|-----------------------|--------------------|
| Powder | Start Chg. | Velocity | Max. Chg. Velocity |
| (L)145 RCBS OAL = 2.500" | | | |
| 5744 | 18.0 | 1721 | 20.0 1871 |
| 1680 | 20.3 | 1751 | 22.5 1903 |
| 2230 | 25.2 | 1892 | 28.0 2057 |
| 2460 | 25.7 | 1916 | 28.5 2083 |
| 2520 | 25.7 | 1871 | 28.5 2034 |
| SRA 100 HP OAL = 2.430" | | | |
| 5744 | 20.7 | 2134 | 23.0 2320 |
| 1680 | 25.2 | 2240 | 28.0 2435 |
| 2015 | 25.2 | 1964 | 28.0 2135 |
| 2230 | 27.0 | 2065 | 30.0 2245 |
| 2460 | 27.0 | 2050 | 30.0 2228 |
| 2520 | 25.2 | 1867 | 28.0 2029 |
| SRA 140 SBT OAL = 2.540" | | | |
| 5744 | 18.5 | 1783 | 20.5 1938 |
| 1680 | 22.1 | 1849 | 24.5 2010 |
| 2015 | 24.3 | 1893 | 27.0 2058 |
| 2230 | 25.7 | 1934 | 28.5 2102 |
| 2460 | 26.1 | 1940 | 29.0 2109 |
| 2520 | 24.8 | 1796 | 27.5 1952 |
| HDY 162 HPBT OAL = 2.640" | | | |
| 5744 | 16.7 | 1555 | 18.5 1690 |
| 1680 | 20.3 | 1707 | 22.5 1855 |
| 2015 | 23.4 | 1817 | 26.0 1975 |
| 2230 | 24.3 | 1807 | 27.0 1964 |
| 2460 | 24.8 | 1802 | 27.5 1959 |
| 2520 | 24.8 | 1731 | 27.5 1882 |
| REM 175 PSP OAL = 2.495" | | | |
| 5744 | 16.2 | 1493 | 18.0 1623 |
| 1680 | 19.4 | 1499 | 21.5 1629 |
| 2015 | 23.4 | 1701 | 26.0 1849 |
| 2230 | 24.3 | 1644 | 27.0 1787 |
| 2460 | 24.3 | 1658 | 27.0 1802 |
| 2520 | 24.8 | 1629 | 27.5 1771 |

7mm IHMSA

| Gun Primer | DOUGLAS CCI 200 | Barrel length Case | 14" REM |
|----------------------------------|--------------------|-----------------------|--------------------|
| Powder | Start Chg. | Velocity | Max. Chg. Velocity |
| HDY 139 SP OAL = 2.765" | | | |
| 2230 | 32.9 | 2139 | 36.5 2325 |
| 2460 | 33.3 | 2160 | 37.0 2348 |
| 2520 | 33.8 | 2148 | 37.5 2335 |
| NOS 150 BT OAL = 2.650" | | | |
| 2230 | 32.0 | 2065 | 35.5 2245 |
| 2460 | 32.4 | 2068 | 36.0 2248 |
| 2520 | 32.4 | 2030 | 36.0 2207 |
| SRA 168 HPBT OAL = 2.650" | | | |
| 2230 | 31.1 | 1932 | 34.5 2100 |
| 2460 | 31.5 | 1953 | 35.0 2123 |
| 2520 | 32.0 | 1961 | 35.5 2132 |

7mm BR REMINGTON

| Gun Primer | DOUGLAS REM 7 1/2 | Barrel length Case | 15" REM |
|----------------------------------|----------------------|-----------------------|--------------------|
| Powder | Start Chg. | Velocity | Max. Chg. Velocity |
| HDY 120 SSP OAL = 2.225" | | | |
| 2015 | 26.1 | 2175 | 29.0 2364 |
| 2230 | 27.9 | 2171 | 31.0 2360 |
| 2460 | 28.4 | 2184 | 31.5 2374 |
| 2520 | 28.8 | 2205 | 32.0 2397 |
| SRA 150 SBT OAL = 2.255" | | | |
| 2015 | 24.8 | 1972 | 27.5 2144 |
| 2230 | 26.1 | 1953 | 29.0 2123 |
| 2460 | 26.6 | 1978 | 29.5 2150 |
| 2520 | 27.5 | 2004 | 30.5 2178 |
| SRA 168 HPBT OAL = 2.310" | | | |
| 2015 | 23.4 | 1802 | 26.0 1959 |
| 2230 | 25.2 | 1825 | 28.0 1984 |
| 2460 | 25.7 | 1857 | 28.5 2018 |
| 2520 | 27.0 | 1911 | 30.0 2077 |

TECH LINE: 931-729-4207

WARNING: Always start at MINIMUM loads listed above as START CHG. See explanation on page 3.

.30 HERRETT

| Gun | DOUGLAS | Barrel length | 14" |
|--------------------------|------------|---------------|--------------------|
| Primer | REM 9½ | Case | REM |
| Powder | Start Chg. | Velocity | Max. Chg. Velocity |
| HDY 130 SSP OAL = 2.295" | | | |
| 2015 | 27.0 | 1986 | 30.0 2159 |
| 2230 | 28.8 | 1955 | 32.0 2125 |
| 2460 | 29.3 | 1956 | 32.5 2126 |
| HDY 150 SP OAL = 2.385" | | | |
| 2015 | 24.8 | 1791 | 27.5 1947 |
| 2230 | 27.0 | 1803 | 30.0 1960 |
| 2460 | 27.5 | 1821 | 30.5 1979 |
| SRA 165 SBT OAL = 2.490" | | | |
| 2015 | 23.4 | 1706 | 26.0 1854 |
| 2230 | 24.8 | 1652 | 27.5 1796 |
| 2460 | 25.2 | 1685 | 28.0 1831 |

.300 WHISPER

| Gun | WISEMAN | Barrel length | 16" |
|---------------------------|------------|---------------|--------------------|
| Primer | REM 7½ | Case | REM |
| Powder | Start Chg. | Velocity | Max. Chg. Velocity |
| NOS 125 BT OAL = 2.050" | | | |
| No. 2* | N/A | N/A | 4.8 1095 |
| No. 5* | N/A | N/A | 5.6 1054 |
| No. 7* | N/A | N/A | 6.2 1071 |
| No. 9 | 12.3 | 1788 | 13.7 1943 |
| 1680 (C) | 16.7 | 1762 | 18.5 1915 |
| 5744 (C) | 16.2 | 1811 | 18.0 1969 |
| SRA 180 HPBT OAL = 2.265" | | | |
| No. 5* | N/A | N/A | 6.8 1079 |
| No. 7* | N/A | N/A | 7.4 1086 |
| No. 9* | N/A | N/A | 7.9 1080 |
| No. 9 | 10.2 | 1394 | 11.3 1515 |
| 1680 (C) | 13.5 | 1438 | 15.0 1563 |
| 5744 (C) | 12.2 | 1360 | 13.5 1478 |
| SRA 220 HPBT OAL = 2.265" | | | |
| No. 5* | N/A | N/A | 6.3 1062 |
| No. 7* | N/A | N/A | 7.5 1043 |
| No. 9 | 8.6 | 1125 | 9.5 1223 |
| 1680 (C) | 10.4 | 1034 | 11.5 1124 |
| 5744 (C) | 9.9 | 1087 | 11.0 1181 |

7.62 x 25mm TOKAREV (CZ-52 only)

| Gun | DOUGLAS | Barrel length | 9" |
|------------------------|------------|---------------|--------------------|
| Primer | CCI 500 | Case | Starline |
| Powder | Start Chg. | Velocity | Max. Chg. Velocity |
| SRA 85 RN OAL = 1.316" | | | |
| No. 2 | 5.9 | 1509 | 6.5 1640 |
| No. 5 | 7.7 | 1625 | 8.5 1766 |
| No. 7 | 9.2 | 1631 | 10.2 1773 |
| No. 9 | 11.8 | 1814 | 13.1 1972 |

7.62 x 25mm TOKAREV (CZ-52 only) (CONT'D)

| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
|-------------------------|------------|----------|-----------|----------|
| SPR 110 RN OAL = 1.300" | | | | |
| No. 2 | 5.6 | 1331 | 6.2 | 1447 |
| No. 5 | 7.2 | 1444 | 8.0 | 1570 |
| No. 7 | 8.6 | 1490 | 9.5 | 1620 |
| No. 9 | 10.5 | 1553 | 11.7 | 1688 |

.30/30 WINCHESTER

| Gun | T/C Contender | Barrel length | 14" |
|--------------------------|---------------|---------------|--------------------|
| Primer | CCI 200 | Case | FED |
| Powder | Start Chg. | Velocity | Max. Chg. Velocity |
| HDY 110 RN OAL = 2.440" | | | |
| 2015 | 32.0 | 2206 | 35.5 2398 |
| 2230 | 32.4 | 2153 | 36.0 2340 |
| 2495 | 33.3 | 2036 | 37.0 2213 |
| 2460 | 33.3 | 2179 | 37.0 2369 |
| 2520 | 34.2 | 2177 | 38.0 2366 |
| 4064 | 35.1 | 2005 | 39.0 2179 |
| 2700 | 36.0 | 2107 | 40.0 2290 |
| HDY 130 SSP OAL = 2.625" | | | |
| 2015 | 28.8 | 1995 | 32.0 2168 |
| 2230 | 30.6 | 1989 | 34.0 2162 |
| 2495 | 29.7 | 1813 | 33.0 1971 |
| 2460 | 31.5 | 1992 | 35.0 2165 |
| 2520 | 33.3 | 2088 | 37.0 2270 |
| 4064 | 34.2 | 2053 | 38.0 2231 |
| 2700 | 34.2 | 1935 | 38.0 2103 |
| SPR 150 RN OAL = 2.540" | | | |
| 2015 | 26.1 | 1775 | 29.0 1929 |
| 2230 | 28.5 | 1840 | 31.7 2000 |
| 2495 | 27.5 | 1680 | 30.5 1826 |
| 2460 | 29.3 | 1854 | 32.5 2015 |
| 2520 | 30.2 | 1882 | 33.5 2046 |
| 4064 | 29.7 | 1697 | 33.0 1845 |
| 2700 | 33.3 | 1875 | 37.0 2038 |

.32 S & W LONG

| Gun | DOUGLAS | Barrel length | 6" |
|-----------------------------|------------|---------------|--------------------|
| Primer | FED 100 | Case | REM |
| Powder | Start Chg. | Velocity | Max. Chg. Velocity |
| (L)HDY 90 HBWC OAL = 0.930" | | | |
| No. 2 | 1.8 | 723 | 2.0 786 |
| SRA 90 JHP OAL = 1.190" | | | |
| No. 2 | 2.3 | 815 | 2.5 886 |

HANDGUN

WARNING: Always start at MINIMUM loads listed above as START CHG. See explanation on page 3.
 *Subsonic loads; do not reduce loads. (C) Denotes a compressed load for maximum charge.

**H
A
N
D
G
U
N**

.32 H & R MAGNUM

| Gun | DOUGLAS | Barrel length | 10" | |
|---------------|-------------------|-----------------|------------------|-----------------|
| Primer | CCI 500 | Case | FED | |
| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
| (L) 100 SWC | OAL = 1.310" | | | |
| No. 2 | 3.2 | 1067 | 3.6 | 1160 |
| No. 5 | 4.2 | 1160 | 4.7 | 1261 |
| HDY 85 JHP | OAL = 1.325" | | | |
| No. 2 | 3.6 | 1167 | 4.0 | 1269 |
| No. 5 | 4.8 | 1229 | 5.3 | 1336 |
| SPR 100 JHP | OAL = 1.335" | | | |
| No. 2 | 3.3 | 1054 | 3.7 | 1146 |
| No. 5 | 4.5 | 1126 | 5.0 | 1224 |

.32/20 WINCHESTER

| Gun | Ruger B'hawk | Barrel length | 6 1/2" | |
|---------------|-------------------|-----------------|------------------|-----------------|
| Primer | CCI 400 | Case | REM | |
| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
| (L) 100 SWC | OAL = 1.585" | | | |
| No. 5 | 4.3 | 796 | 4.8 | 865 |
| No. 7 | 5.5 | 850 | 6.1 | 924 |
| 5744 | 8.4 | 828 | 9.3 | 900 |
| SRA 90 JHC | OAL = 1.565" | | | |
| No. 5 | 4.5 | 834 | 5.0 | 906 |
| No. 7 | 5.5 | 862 | 6.1 | 937 |
| 5744 | 8.7 | 846 | 9.7 | 920 |
| HDY 100 XTP | OAL = 1.565" | | | |
| No. 5 | 4.2 | 776 | 4.7 | 844 |
| No. 7 | 5.2 | 816 | 5.8 | 887 |
| 5744 | 8.6 | 856 | 9.5 | 930 |

.32/20 CONTENDER ONLY

| Gun | DOUGLAS | Barrel length | 14" | |
|---------------|-------------------|-----------------|------------------|-----------------|
| Primer | CCI 400 | Case | REM | |
| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
| (L) 100 SWC | OAL = 1.585" | | | |
| No. 5 | 5.4 | 1235 | 6.0 | 1342 |
| No. 7 | 6.3 | 1219 | 7.0 | 1325 |
| SRA 90 JHC | OAL = 1.565" | | | |
| No. 5 | 5.6 | 1265 | 6.2 | 1375 |
| No. 7 | 7.0 | 1344 | 7.8 | 1461 |
| HDY 100 XTP | OAL = 1.585" | | | |
| No. 5 | 5.4 | 1224 | 6.0 | 1330 |
| No. 7 | 6.7 | 1256 | 7.4 | 1365 |

.380 AUTO

| Gun | OBERMEYER | Barrel length | 3" | |
|---------------|-------------------|-----------------|------------------|-----------------|
| Primer | CCI 500 | Case | FED | |
| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
| (L) 100 RN | OAL = 0.950" | | | |
| No. 2 | 3.2 | 868 | 3.6 | 943 |
| No. 5 | 4.1 | 848 | 4.5 | 922 |
| HDY 90 XTP | OAL = 0.960" | | | |
| No. 2 | 3.3 | 856 | 3.7 | 930 |
| No. 5 | 4.3 | 846 | 4.8 | 920 |
| HDY 100 FMJ | OAL = 0.975" | | | |
| No. 2 | 3.1 | 730 | 3.4 | 793 |
| No. 5 | 4.4 | 823 | 4.9 | 895 |

9mm LUGER

| Gun | OBERMEYER | Barrel length | 4" | |
|---------------|-------------------|-----------------|------------------|-----------------|
| Primer | WIN SP | Case | FED | |
| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
| (L) 115 SWC | OAL = 1.110" | | | |
| No. 2 | 4.4 | 1054 | 4.9 | 1146 |
| No. 5 | 5.7 | 1087 | 6.3 | 1182 |
| No. 7 | 7.8 | 1127 | 8.7 | 1225 |
| (L) 145 RN | OAL = 1.140" | | | |
| No. 2 | 3.3 | 822 | 3.7 | 893 |
| No. 5 | 4.6 | 905 | 5.1 | 984 |
| No. 7 | 6.5 | 968 | 7.2 | 1052 |
| HDY 115 FMJ | OAL = 1.095" | | | |
| No. 2 | 4.0 | 1005 | 4.4 | 1092 |
| No. 5 | 6.3 | 1097 | 7.0 | 1192 |
| No. 7 | 7.9 | 1100 | 8.8 | 1196 |
| HDY 124 RN | OAL = 1.095" | | | |
| No. 2 | 3.7 | 972 | 4.1 | 1057 |
| No. 5 | 5.8 | 1104 | 6.4 | 1200 |
| No. 7 | 7.2 | 1073 | 8.0 | 1166 |
| SPR 147 TMJ | OAL = 1.095" | | | |
| No. 2 | 3.6 | 817 | 4.0 | 888 |
| No. 5 | 4.8 | 912 | 5.3 | 991 |
| No. 7 | 6.5 | 963 | 7.2 | 1047 |

NOTE: Some high performance handguns (such as the Glock and Sig/Sauer) may not cycle properly with the faster powders.

.38 SUPER AUTO

| Gun | WILSON | Barrel length | 5" | |
|---------------|-------------------|-----------------|------------------|-----------------|
| Primer | CCI 500 | Case | PMC | |
| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
| (L) 115 SWC | OAL = 1.285" | | | |
| No. 2 | 4.3 | 1042 | 4.8 | 1133 |
| No. 5 | 6.8 | 1166 | 7.6 | 1267 |
| No. 7 | 8.8 | 1214 | 9.8 | 1320 |
| No. 9 | 11.3 | 1264 | 12.5 | 1374 |

WARNING: Always start at MINIMUM loads listed above as START CHG. See explanation on page 3.

.38 SUPER AUTO (CONT'D)

| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
|---------------------------------|-------------------|-----------------|------------------|-----------------|
| (L) 160 RN OAL = 1.250" | | | | |
| No. 2 | 4.1 | 943 | 4.5 | 1025 |
| No. 5 | 5.4 | 964 | 6.0 | 1048 |
| No. 7 | 7.2 | 1026 | 8.0 | 1115 |
| No. 9 | 8.6 | 1027 | 9.5 | 1116 |
| HDY 115 FMJ OAL = 1.240" | | | | |
| No. 2 | 5.1 | 1104 | 5.7 | 1200 |
| No. 5 | 7.5 | 1215 | 8.3 | 1321 |
| No. 7 | 9.3 | 1233 | 10.3 | 1340 |
| No. 9 | 11.7 | 1283 | 13.0 | 1395 |
| IMI 124 FMJ OAL = 1.245" | | | | |
| No. 2 | 4.9 | 1070 | 5.4 | 1163 |
| No. 5 | 6.8 | 1132 | 7.6 | 1230 |
| No. 7 | 8.6 | 1162 | 9.6 | 1263 |
| No. 9 | 11.3 | 1238 | 12.5 | 1346 |
| HDY 158 JHP OAL = 1.250" | | | | |
| No. 2 | 3.9 | 892 | 4.3 | 970 |
| No. 5 | 5.6 | 944 | 6.2 | 1026 |
| No. 7 | 7.2 | 979 | 8.0 | 1064 |
| No. 9 | 8.7 | 1031 | 9.7 | 1121 |

.38 SPECIAL

| <u>Gun</u> | <u>S&W MODEL 14</u> | <u>Barrel length</u> | <u>8³/₈"</u> | |
|----------------------------------|-------------------------|----------------------|------------------------------------|------|
| <u>Primer</u> | <u>CCI 500</u> | <u>Case</u> | <u>HDY</u> | |
| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | |
| | | | <u>Velocity</u> | |
| (L) 148 HBWC OAL = 1.152" | | | | |
| N100 | 2.5 | 811 | 2.8 | 882 |
| S1000 | 2.5 | 770 | 2.8 | 837 |
| No. 2 | 2.6 | 662 | 2.9 | 720 |
| No. 5 | 3.6 | 742 | 4.0 | 807 |
| (L) 158 SWC OAL = 1.481" | | | | |
| N100 | 3.0 | 826 | 3.3 | 898 |
| S1000 | 3.1 | 788 | 3.4 | 857 |
| No. 2 | 3.6 | 799 | 4.0 | 868 |
| No. 5 | 5.3 | 865 | 5.9 | 940 |
| HDY 110 XTP OAL = 1.435" | | | | |
| N100 | 4.0 | 1061 | 4.4 | 1153 |
| S1000 | 4.0 | 1006 | 4.4 | 1094 |
| No. 2 | 5.0 | 996 | 5.6 | 1083 |
| No. 5 | 6.6 | 1003 | 7.3 | 1090 |
| SPR 125 JHP OAL = 1.445" | | | | |
| N100 | 3.7 | 949 | 4.1 | 1031 |
| S1000 | 3.7 | 929 | 4.1 | 1010 |
| No. 2 | 4.8 | 911 | 5.3 | 990 |
| No. 5 | 6.1 | 791 | 6.8 | 860 |
| HDY 158 XTP OAL = 1.445" | | | | |
| N100 | 2.9 | 723 | 3.2 | 786 |
| S1000 | 3.1 | 734 | 3.4 | 798 |
| No. 2 | 3.6 | 696 | 4.0 | 756 |
| No. 5 | 5.2 | 774 | 5.8 | 841 |

.357 MAGNUM

| <u>Gun</u> | <u>TEST BARREL</u> | <u>Barrel length</u> | <u>8"</u> | |
|----------------------------------|--------------------|----------------------|------------------|------|
| <u>Primer</u> | <u>CCI 500</u> | <u>Case</u> | <u>HDY</u> | |
| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | |
| | | | <u>Velocity</u> | |
| (L) 158 SWC OAL = 1.580" | | | | |
| No. 2 | 5.2 | 1057 | 5.8 | 1149 |
| No. 5 | 8.1 | 1246 | 9.0 | 1354 |
| No. 7 | 9.9 | 1300 | 11.0 | 1413 |
| No. 9 | 12.2 | 1379 | 13.5 | 1499 |
| (L) 174 SWC OAL = 1.660" | | | | |
| 5744 | 13.1 | 1252 | 14.5 | 1361 |
| (L) 180 FNGC OAL = 1.575" | | | | |
| No. 2 | 5.2 | 1081 | 5.8 | 1175 |
| No. 5 | 8.2 | 1282 | 9.1 | 1394 |
| No. 7 | 9.4 | 1294 | 10.4 | 1406 |
| No. 9 | 12.4 | 1414 | 13.8 | 1537 |
| 4100 | 12.9 | 1451 | 14.3 | 1577 |
| (L) 200 LNGC OAL = 1.625" | | | | |
| No. 2 | 4.9 | 995 | 5.4 | 1081 |
| No. 5 | 7.7 | 1201 | 8.6 | 1305 |
| No. 7 | 8.9 | 1218 | 9.9 | 1324 |
| No. 9 | 11.3 | 1294 | 12.5 | 1407 |
| 4100 | 11.7 | 1333 | 13.0 | 1449 |
| SPR 110 JHP OAL = 1.575" | | | | |
| No. 2 | 7.6 | 1542 | 8.4 | 1676 |
| No. 5 | 10.8 | 1693 | 12.0 | 1840 |
| No. 7 | 12.6 | 1702 | 14.0 | 1850 |
| No. 9 | 16.6 | 1846 | 18.4 | 2006 |
| 4100 | 19.6 | 1944 | 21.8 | 2113 |
| HDY 125 XTP OAL = 1.570" | | | | |
| No. 2 | 7.2 | 1432 | 8.0 | 1557 |
| No. 5 | 10.4 | 1590 | 11.5 | 1728 |
| No. 7 | 11.9 | 1596 | 13.2 | 1735 |
| No. 9 | 15.3 | 1722 | 17.0 | 1872 |
| 4100 | 17.3 | 1777 | 19.2 | 1932 |
| HDY 158 XTP OAL = 1.580" | | | | |
| No. 2 | 5.9 | 1159 | 6.6 | 1260 |
| No. 5 | 8.8 | 1337 | 9.8 | 1453 |
| No. 7 | 10.3 | 1494 | 11.4 | 1624 |
| No. 9 | 13.5 | 1502 | 15.0 | 1633 |
| 4100 | 14.2 | 1527 | 15.8 | 1660 |
| 5744 | 13.1 | 1259 | 14.5 | 1368 |
| HDY 180 XTP OAL = 1.575" | | | | |
| No. 2 | 5.4 | 1025 | 6.0 | 1114 |
| No. 5 | 8.3 | 1220 | 9.2 | 1326 |
| No. 7 | 9.3 | 1223 | 10.3 | 1329 |
| No. 9 | 11.7 | 1322 | 13.0 | 1437 |
| 4100 | 12.1 | 1352 | 13.4 | 1470 |
| 5744 | 11.7 | 1100 | 13.0 | 1196 |

NOTE: Expect up to 250 feet per second lower velocity with vented 4" barrel.

**H
A
N
D
G
U
N**

WARNING: Always start at MINIMUM loads listed above as START CHG. See explanation on page 3.

.357 SIG

| Gun Primer | HS PRECISION FED 100 | Barrel length Case | 4" FED |
|---------------|-------------------------|-----------------------|--------------------|
| Powder | Start Chg. | Velocity | Max. Chg. Velocity |

| | | | |
|-------------|--------------|------|-----------|
| (L) 115 SWC | OAL = 1.140" | | |
| No. 2 | 5.6 | 1149 | 6.2 1249 |
| No. 5 | 8.1 | 1213 | 9.0 1319 |
| No. 7 | 9.9 | 1236 | 11.0 1344 |
| No. 9 | 12.2 | 1316 | 13.5 1430 |

| | | | |
|------------|--------------|------|-----------|
| (L) 147 RN | OAL = 1.140" | | |
| No. 2 | 4.2 | 965 | 4.7 1049 |
| No. 5 | 6.8 | 1076 | 7.5 1170 |
| No. 7 | 8.6 | 1121 | 9.6 1218 |
| No. 9 | 9.5 | 1076 | 10.5 1170 |

| | | | |
|------------|--------------|------|-----------|
| SPR 88 JHP | OAL = 1.130" | | |
| No. 2 | 7.1 | 1421 | 7.9 1545 |
| No. 5 | 10.0 | 1487 | 11.1 1616 |
| No. 7 | 11.8 | 1473 | 13.1 1601 |
| No. 9 | 13.5 | 1421 | 15.0 1545 |

| | | | |
|-------------|--------------|------|-----------|
| HDY 115 XTP | OAL = 1.140" | | |
| No. 2 | 5.8 | 1174 | 6.4 1276 |
| No. 5 | 8.5 | 1246 | 9.4 1354 |
| No. 7 | 10.2 | 1274 | 11.3 1385 |
| No. 9 | 12.2 | 1319 | 13.5 1434 |

| | | | |
|-------------|--------------|------|-----------|
| HDY 124 XTP | OAL = 1.140" | | |
| No. 2 | 5.4 | 1115 | 6.0 1212 |
| No. 5 | 8.3 | 1244 | 9.2 1325 |
| No. 7 | 9.9 | 1214 | 11.0 1320 |
| No. 9 | 11.7 | 1276 | 13.0 1387 |

| | | | |
|-------------|--------------|------|-----------|
| HDY 147 XTP | OAL = 1.140" | | |
| No. 2 | 4.8 | 976 | 5.3 1061 |
| No. 5 | 7.1 | 1066 | 7.9 1159 |
| No. 7 | 8.3 | 1067 | 9.2 1160 |
| No. 9 | 9.5 | 1065 | 10.5 1158 |

.357 REMINGTON MAXIMUM

| Gun Primer | DOUGLAS CCI BR 4 | Barrel length Case | 14" REM |
|---------------|---------------------|-----------------------|--------------------|
| Powder | Start Chg. | Velocity | Max. Chg. Velocity |

| | | | |
|--------------|--------------|------|-----------|
| (L) 210 RNGC | OAL = 1.965" | | |
| 5744 | 15.3 | 1397 | 17.0 1518 |

| | | | |
|-------------|--------------|------|-----------|
| NOS 158 JHP | OAL = 1.905" | | |
| 5744 | 18.9 | 1679 | 21.0 1825 |

| | | | |
|-------------|--------------|------|-----------|
| SRA 170 SIL | OAL = 1.900" | | |
| 5744 | 18.5 | 1630 | 20.5 1772 |

| | | | |
|-------------|--------------|------|-----------|
| SPR 200 TMJ | OAL = 1.990" | | |
| 5744 | 16.2 | 1377 | 18.0 1497 |

.38/40 WINCHESTER

| Gun Primer | ROCK WLP | Barrel length Case | 6½" WIN |
|---------------|-------------|-----------------------|--------------------|
| Powder | Start Chg. | Velocity | Max. Chg. Velocity |

| | | | |
|------------|--------------|-----|-----------|
| (L) 155 RN | OAL = 1.585" | | |
| 5744 | 14.9 | 932 | 16.5 1013 |

| | | | |
|------------|--------------|-----|----------|
| (L) 185 RN | OAL = 1.580" | | |
| 5744 | 13.1 | 828 | 14.5 900 |

| | | | |
|-------------|--------------|-----|-----------|
| SRA 150 JHC | OAL = 1.575" | | |
| 5744 | 15.8 | 956 | 17.5 1039 |

| | | | |
|-------------|--------------|-----|----------|
| SRA 180 JHC | OAL = 1.585" | | |
| 5744 | 14.9 | 884 | 16.5 961 |

.40 S&W (WARNING: See page 6.)

| Gun Primer | HS PRECISION CCI 500 | Barrel length Case | 4" HDY |
|---------------|-------------------------|-----------------------|--------------------|
| Powder | Start Chg. | Velocity | Max. Chg. Velocity |

| | | | |
|-------------|--------------|------|-----------|
| (L) 155 SWC | OAL = 1.130" | | |
| No. 2 | 5.7 | 1027 | 6.3 1116 |
| No. 5 | 6.8 | 1065 | 7.5 1158 |
| No. 7 | 8.7 | 1054 | 9.7 1146 |
| No. 9 | 10.8 | 1051 | 12.0 1142 |

| | | | |
|-------------|--------------|-----|----------|
| (L) 175 SWC | OAL = 1.115" | | |
| No. 2 | 4.8 | 897 | 5.3 975 |
| No. 5 | 5.5 | 907 | 6.1 986 |
| No. 7 | 7.6 | 933 | 8.4 1014 |
| No. 9 | 9.2 | 918 | 10.2 998 |

| | | | |
|-------------|--------------|------|-----------|
| NOS 135 JHP | OAL = 1.125" | | |
| No. 2 | 6.8 | 1147 | 7.6 1247 |
| No. 5 | 8.4 | 1257 | 9.3 1266 |
| No. 7 | 10.1 | 1138 | 11.2 1237 |

| | | | |
|-------------|--------------|------|-----------|
| NOS 150 JHP | OAL = 1.120" | | |
| No. 2 | 6.3 | 1063 | 7.0 1155 |
| No. 5 | 7.5 | 1076 | 8.3 1170 |
| No. 7 | 9.2 | 1045 | 10.2 1136 |

| | | | |
|-------------|--------------|-----|-----------|
| SRA 165 JHP | OAL = 1.135" | | |
| N100 | 3.7 | 890 | 4.1 967 |
| No. 2 | 5.4 | 955 | 6.0 1038 |
| No. 5 | 6.9 | 968 | 7.7 1052 |
| No. 7 | 8.5 | 983 | 9.4 1069 |
| No. 9 | 10.8 | 996 | 12.0 1083 |

| | | | |
|-------------|--------------|-----|-----------|
| HDY 180 XTP | OAL = 1.135" | | |
| No. 2 | 5.0 | 890 | 5.6 967 |
| No. 5 | 5.9 | 888 | 6.6 965 |
| No. 7 | 7.7 | 900 | 8.5 978 |
| No. 9 | 9.9 | 937 | 11.0 1019 |

WARNING: Always start at MINIMUM loads listed above as START CHG. See explanation on page 3.

10mm AUTO

| Gun Primer | HS PRECISION CCI 300 | Barrel length Case | 5" HDY | |
|---------------------------------|-------------------------|-----------------------|------------------|-----------------|
| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
| (L) 145 FN OAL = 1.250" | | | | |
| No. 2 | 6.8 | 1190 | 7.5 | 1293 |
| No. 5 | 8.7 | 1244 | 9.7 | 1352 |
| No. 7 | 10.8 | 1258 | 12.0 | 1367 |
| No. 9 | 13.5 | 1308 | 15.0 | 1422 |
| (L) 175 SWC OAL = 1.245" | | | | |
| No. 2 | 6.0 | 1074 | 6.7 | 1167 |
| No. 5 | 7.5 | 1073 | 8.3 | 1166 |
| No. 7 | 9.4 | 1103 | 10.4 | 1199 |
| No. 9 | 12.2 | 1182 | 13.6 | 1285 |
| NOS 135 JHP OAL = 1.250" | | | | |
| No. 2 | 8.2 | 1328 | 9.1 | 1444 |
| No. 5 | 10.3 | 1383 | 11.4 | 1503 |
| No. 7 | 12.2 | 1358 | 13.6 | 1476 |
| No. 9 | 15.8 | 1386 | 17.5 | 1507 |
| HDY 155 JHP OAL = 1.250" | | | | |
| No. 2 | 7.2 | 1192 | 8.0 | 1296 |
| No. 5 | 9.0 | 1227 | 10.0 | 1334 |
| No. 7 | 11.4 | 1269 | 12.7 | 1379 |
| No. 9 | 14.3 | 1301 | 15.9 | 1414 |
| NOS 170 JHP OAL = 1.250" | | | | |
| No. 2 | 6.9 | 1122 | 7.7 | 1220 |
| No. 5 | 8.7 | 1173 | 9.7 | 1275 |
| No. 7 | 10.8 | 1201 | 12.0 | 1305 |
| No. 9 | 13.5 | 1234 | 15.0 | 1341 |
| HDY 200 XTP OAL = 1.250" | | | | |
| No. 2 | 5.7 | 958 | 6.3 | 1041 |
| No. 5 | 7.0 | 981 | 7.8 | 1066 |
| No. 7 | 8.8 | 1004 | 9.8 | 1091 |
| No. 9 | 11.3 | 1076 | 12.5 | 1170 |

.41 REMINGTON MAGNUM

| Gun Primer | WILSON CCI 300 | Barrel length Case | 9 1/2" WIN | |
|---------------------------------|-------------------|-----------------------|------------------|-----------------|
| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
| (L) 210 SWC OAL = 1.675" | | | | |
| No. 2 | 8.3 | 1210 | 9.2 | 1315 |
| No. 5 | 11.3 | 1321 | 12.5 | 1436 |
| No. 7 | 13.1 | 1327 | 14.5 | 1442 |
| No. 9 | 16.2 | 1455 | 18.0 | 1582 |
| 5744 | 19.4 | 1317 | 21.5 | 1431 |
| SRA 170 JHP OAL = 1.565" | | | | |
| No. 2 | 9.0 | 1335 | 10.0 | 1451 |
| No. 5 | 10.8 | 1374 | 12.0 | 1493 |
| No. 7 | 14.0 | 1431 | 15.5 | 1555 |
| No. 9 | 17.7 | 1569 | 19.7 | 1705 |
| 5744 | 21.6 | 1451 | 24.0 | 1577 |

.41 REMINGTON MAGNUM (CONT'D)

| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
|---------------------------------|-------------------|-----------------|------------------|-----------------|
| HDY 210 XTP OAL = 1.570" | | | | |
| No. 2 | 8.6 | 1145 | 9.5 | 1245 |
| No. 5 | 10.4 | 1216 | 11.5 | 1322 |
| No. 7 | 12.8 | 1269 | 14.2 | 1379 |
| No. 9 | 16.2 | 1399 | 18.0 | 1521 |
| 5744 | 18.5 | 1220 | 20.5 | 1326 |

.44 SPECIAL

| Gun Primer | DOUGLAS CCI 300 | Barrel length Case | 7 1/2" WIN | |
|---------------------------------|--------------------|-----------------------|------------------|-----------------|
| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
| (L) 245 RN OAL = 1.600" | | | | |
| N100 | 3.4 | 692 | 3.8 | 752 |
| S1000 | 4.1 | 728 | 4.5 | 791 |
| No. 2 | 4.2 | 753 | 4.7 | 819 |
| No. 5 | 6.1 | 791 | 6.8 | 860 |
| (L) 250 SWC OAL = 1.575" | | | | |
| 5744 | 11.3 | 678 | 12.5 | 737 |
| IMI 240 JHP OAL = 1.485" | | | | |
| N100 | 3.4 | 536 | 3.8 | 583 |
| S1000 | 3.6 | 540 | 4.0 | 587 |
| No. 2 | 4.1 | 556 | 4.5 | 604 |
| No. 5 | 5.9 | 672 | 6.5 | 730 |

.44/40 WINCHESTER

| Gun Primer | DOUGLAS CCI 300 | Barrel length Case | 7 1/2" REM | |
|--------------------------------|--------------------|-----------------------|------------------|-----------------|
| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
| (L) 200 FN OAL = 1.580" | | | | |
| 5744 | 15.3 | 952 | 17.0 | 1035 |

.44 REMINGTON MAGNUM

| Gun Primer | RUGER REDHAWK CCI 300 | Barrel length Case | 7 1/2" WIN | |
|---------------------------------|--------------------------|-----------------------|------------------|-----------------|
| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
| (L) 240 SWC OAL = 1.560" | | | | |
| No. 2 | 9.0 | 1178 | 10.0 | 1280 |
| No. 5 | 12.6 | 1288 | 14.0 | 1400 |
| No. 7 | 15.8 | 1341 | 17.5 | 1458 |
| No. 9 | 19.5 | 1426 | 21.7 | 1550 |
| 5744 | 21.6 | 1330 | 24.0 | 1446 |
| (L) 300 SSK OAL = 1.720" | | | | |
| No. 2 | 8.6 | 1047 | 9.5 | 1138 |
| No. 5 | 10.4 | 1049 | 11.6 | 1140 |
| No. 7 | 13.5 | 1145 | 15.0 | 1245 |
| No. 9 | 16.7 | 1214 | 18.5 | 1320 |

**H
A
N
D
G
U
N**

WARNING: Always start at MINIMUM loads listed above as START CHG. See explanation on page 3.

**H
A
N
D
G
U
N**

.44 REMINGTON MAGNUM (CONT'D)

| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
|---------------------------------|-------------------|-----------------|------------------|-----------------|
| HDY 180 JHP OAL = 1.560" | | | | |
| No. 2 | 10.0 | 1328 | 11.1 | 1444 |
| No. 5 | 14.8 | 1486 | 16.4 | 1615 |
| No. 7 | 18.5 | 1570 | 20.5 | 1707 |
| NOS 200 JHP OAL = 1.595 | | | | |
| No. 2 | 9.9 | 1235 | 11.0 | 1342 |
| No. 5 | 14.2 | 1409 | 15.8 | 1532 |
| No. 7 | 16.8 | 1415 | 18.7 | 1538 |
| No. 9 | 22.5 | 1542 | 25.0 | 1676 |
| RAN 240 FN OAL = 1.575" | | | | |
| No. 2 | 9.3 | 1161 | 10.3 | 1262 |
| No. 5 | 12.6 | 1260 | 14.0 | 1370 |
| No. 7 | 15.1 | 1322 | 16.8 | 1437 |
| No. 9 | 18.0 | 1386 | 20.0 | 1507 |
| 4100 | 20.3 | 1414 | 22.5 | 1537 |
| SPR 270 GD OAL = 1.575" | | | | |
| No. 2 | 9.7 | 1125 | 10.8 | 1223 |
| No. 5 | 12.2 | 1219 | 13.5 | 1325 |
| No. 7 | 14.0 | 1227 | 15.6 | 1334 |
| No. 9 | 16.7 | 1252 | 18.5 | 1361 |
| 4100 | 18.5 | 1293 | 20.5 | 1405 |
| HDY 300 XTP OAL = 1.595" | | | | |
| No. 2 | 8.8 | 1019 | 9.8 | 1108 |
| No. 5 | 11.7 | 1122 | 13.0 | 1220 |
| No. 7 | 13.1 | 1095 | 14.5 | 1190 |
| No. 9 | 15.9 | 1172 | 17.7 | 1274 |
| 5744 | 18.0 | 1096 | 20.0 | 1191 |

.45 ACP

| <u>Gun</u> | <u>1911A1</u> | <u>Barrel length</u> | <u>5"</u> | |
|---------------------------------|-------------------|----------------------|------------------|-----------------|
| <u>Primer</u> | <u>REM 2½</u> | <u>Case</u> | <u>REM</u> | |
| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
| (L) 155 SWC OAL = 1.240" | | | | |
| N100 | 5.0 | 1000 | 5.5 | 1087 |
| S1000 | 5.9 | 1076 | 6.5 | 1170 |
| No. 2 | 6.8 | 1108 | 7.5 | 1204 |
| No. 5 | 9.0 | 1094 | 10.0 | 1189 |
| (L) 230 RN OAL = 1.230" | | | | |
| N100 | 4.1 | 767 | 4.5 | 834 |
| S1000 | 4.6 | 826 | 5.1 | 898 |
| No. 2 | 5.0 | 800 | 5.6 | 870 |
| No. 5 | 7.7 | 891 | 8.5 | 968 |
| HDY 185 XTP OAL = 1.210" | | | | |
| N100 | 4.8 | 880 | 5.3 | 957 |
| S1000 | 5.2 | 914 | 5.8 | 993 |
| No. 2 | 6.8 | 991 | 7.5 | 1077 |
| No. 5 | 9.2 | 1014 | 10.2 | 1102 |

.45 ACP (CONT'D)

| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
|---------------------------------|-------------------|-----------------|------------------|-----------------|
| HDY 200 XTP OAL = 1.225" | | | | |
| N100 | 4.3 | 803 | 4.8 | 873 |
| S1000 | 5.2 | 841 | 5.8 | 914 |
| No. 2 | 5.9 | 886 | 6.5 | 963 |
| No. 5 | 8.7 | 966 | 9.7 | 1050 |
| SRA 230 FMJ OAL = 1.250" | | | | |
| N100 | 4.1 | 759 | 4.5 | 825 |
| S1000 | 5.0 | 780 | 5.5 | 848 |
| No. 2 | 5.5 | 804 | 6.1 | 874 |
| No. 5 | 7.8 | 853 | 8.7 | 927 |

.45 COLT

| <u>Gun</u> | <u>DOUGLAS</u> | <u>Barrel length</u> | <u>7½"</u> | |
|---------------------------------|-------------------|----------------------|------------------|-----------------|
| <u>Primer</u> | <u>CCI 300</u> | <u>Case</u> | <u>WIN</u> | |
| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
| (L) 225 FN OAL = 1.620" | | | | |
| N100 | 5.3 | 825 | 5.9 | 897 |
| S1000 | 5.9 | 836 | 6.5 | 909 |
| No. 2 | 5.5 | 803 | 6.1 | 873 |
| No. 5 | 10.9 | 950 | 12.1 | 1033 |
| (L) 240 SWC OAL = 1.570" | | | | |
| N100 | 5.1 | 826 | 5.7 | 898 |
| S1000 | 5.7 | 783 | 6.3 | 851 |
| No. 2 | 5.4 | 777 | 6.0 | 845 |
| No. 5 | 10.2 | 918 | 11.3 | 998 |
| 5744 | 16.7 | 882 | 18.5 | 959 |
| (L) 255 SWC OAL = 1.600" | | | | |
| N100 | 5.0 | 799 | 5.5 | 868 |
| S1000 | 5.2 | 742 | 5.8 | 807 |
| No. 2 | 5.3 | 748 | 5.9 | 813 |
| No. 5 | 9.4 | 884 | 10.4 | 961 |
| 5744 | 16.0 | 791 | 17.8 | 860 |
| SRA 185 JHP OAL = 1.575" | | | | |
| N100 | 6.1 | 914 | 6.8 | 993 |
| S1000 | 6.8 | 945 | 7.6 | 1027 |
| No. 5 | 10.8 | 989 | 12.0 | 1075 |
| 5744 | 18.5 | 992 | 20.5 | 1078 |
| HDY 200 XTP OAL = 1.595" | | | | |
| N100 | 5.8 | 878 | 6.4 | 954 |
| S1000 | 6.3 | 857 | 7.0 | 932 |
| No. 5 | 10.4 | 949 | 11.5 | 1032 |
| SRA 240 JHP OAL = 1.590" | | | | |
| N100 | 5.0 | 771 | 5.6 | 838 |
| S1000 | 5.4 | 714 | 6.0 | 776 |
| No. 5 | 9.5 | 892 | 10.5 | 970 |
| 5744 | 16.7 | 883 | 18.5 | 960 |
| SPR 260 JHP OAL = 1.600" | | | | |
| N100 | 4.8 | 671 | 5.3 | 729 |
| S1000 | 5.2 | 639 | 5.8 | 695 |
| No. 5 | 9.5 | 701 | 10.5 | 762 |

WARNING: Always start at MINIMUM loads listed above as START CHG. See explanation on page 3.

**.45 COLT—HIGH PRESSURE LOADS
FOR RUGER, T/C, FA**

| Gun | HS PRECISION | Barrel length | 7" | |
|----------------------------------|-------------------|-----------------|------------------|-----------------|
| Primer | CCI 300 | Case | WIN | |
| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
| (L) 325 FNGA OAL = 1.585" | | | | |
| No. 7 | 13.1 | 1055 | 14.6 | 1147 |
| No. 9 | 15.3 | 1097 | 17.0 | 1192 |
| 4100 | 17.7 | 1154 | 19.7 | 1254 |
| (L) 350 FNGA OAL = 1.675" | | | | |
| No. 7 | 12.2 | 983 | 13.6 | 1068 |
| No. 9 | 14.6 | 1038 | 16.2 | 1128 |
| 4100 | 15.8 | 1072 | 17.5 | 1165 |
| SRA 240 JHC OAL = 1.590" | | | | |
| No. 7 | 16.0 | 1252 | 17.8 | 1361 |
| No. 9 | 18.5 | 1280 | 20.6 | 1391 |
| 4100 | 22.3 | 1374 | 24.8 | 1494 |
| NOS 250 JHP OAL = 1.585" | | | | |
| No. 7 | 15.6 | 1213 | 17.3 | 1319 |
| No. 9 | 18.2 | 1262 | 20.2 | 1372 |
| 4100 | 21.6 | 1335 | 24.0 | 1451 |
| SPR 300 SP OAL = 1.595" | | | | |
| No. 7 | 14.6 | 1122 | 16.2 | 1220 |
| No. 9 | 16.9 | 1163 | 18.8 | 1264 |
| 4100 | 18.0 | 1151 | 20.0 | 1251 |

.454 CASULL

| Gun | TEST BARREL | Barrel length | 7½" | |
|---------------------------------|-------------------|-----------------|------------------|-----------------|
| Primer | CCI 400 | Case | FA | |
| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
| SRA 240 JHP OAL = 1.705" | | | | |
| No. 9 | 25.2 | 1613 | 28.0 | 1753 |
| 5744 | 31.5 | 1558 | 35.0 | 1693 |
| 1680 | 32.4 | 1566 | 36.0 | 1702 |
| SPR 260 JHP OAL = 1.710" | | | | |
| No. 9 | 24.1 | 1524 | 26.8 | 1657 |
| 5744 | 30.6 | 1553 | 34.0 | 1688 |
| 1680 | 31.5 | 1514 | 35.0 | 1646 |
| HDY 300 XTP OAL = 1.765" | | | | |
| No. 9 | 23.4 | 1493 | 26.0 | 1623 |
| 5744 | 28.8 | 1444 | 32.0 | 1570 |
| 1680 | 30.2 | 1466 | 33.5 | 1594 |

.50 ACTION EXPRESS

| Gun | DESERT EAGLE | Barrel length | 6" | |
|---------------------------------|-------------------|-----------------|------------------|-----------------|
| Primer | CCI 350 | Case | SPR | |
| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
| SPR 325 U-C OAL = 1.575" | | | | |
| No. 9 | 21.4 | 1147 | 23.8 | 1247 |
| 1680 | 34.0 | 1201 | 37.8 | 1305 |

TECH LINE: 931-729-4207

WARNING: Always start at MINIMUM loads listed above as START CHG. See explanation on page 3.

COWBOY ACTION SHOOTING

This relatively new shooting sport is enjoying ever increasing popularity. As the name implies, cowboy action shooting involves a less formal (read, more fun) combination of rifle, shotgun and handgun competition. Typically both male and female participants don Old West-style costumes and use original or replica blackpowder-style firearms. Cowboy action shooting has had a definite impact on the world of shooting and reloading.

From our viewpoint as a propellant supplier the resurgence of several old, originally black powder, cartridges created a challenging situation. Firearms made during the original cowboy era fired cartridges designed for black powder, which was the only propellant available 125 years ago. These older cartridges present a special set of problems when loaded with modern smokeless propellants. They are of a relatively high case capacity, even with modern solid head case design, because they were originally developed to use black powder. We are also restricted to low chamber pressures because of the firearms that they are chambered in. Even modern replicas, made of newer and better steels, are still true to the original designs and the low pressure limits must still be observed in the interest of shooter safety and longevity of the firearm. Those firearms originally built for black powder are probably best loaded with black powder, as the steel used then is inferior to that used in later production and the current replicas.

As we developed data for these cartridges we paid particular attention to propellant selection in balancing the large case capacity with the low pressure limit in order to achieve consistent ignition and good accuracy. The sport of Cowboy Shooting emphasizes low velocity and low recoil loads. These are desirable from the standpoint of shooter safety since the targets are steel and the ranges short. The low recoil reduces shooter fatigue and allows a quicker recovery time between shots during competition. These low velocity loads are quite sufficient to the task of knocking over target plates.

The following loads are tailored to meet the needs of the modern "Cowboy Action Shooter." They should be used exactly as shown with no reductions in charge weight. Bullet weight and type should be as closely matched as is feasible, as should the overall length of the loaded round. Care must be exercised to match the bullet diameter to the inside diameter of the cylinder throat. Undersize bullets will NOT perform well. They allow the already low gas pressure to flow past the base of the bullet and along the sides. This gas flow vaporizes lead from the bullet surface and deposits it in the cylinder and barrel making the gun harder to clean and usually deteriorating accuracy. The gas loss also reduces the pressure reached and results in poor ignition, lower velocity and more residue from the propellant combustion. It is also very important to have a high bullet pull. A tight fit between the case mouth and the bullet greatly aids ignition. Low bullet pull can and usually does ruin an otherwise excellent load.

Cowboy Action loads operate at pressures that are not compatible with many modern propellants. The propellants from the Accurate and Scot product line used in developing this data have proven suitable for the loads listed, but your favorite propellant may not necessarily work in every cartridge you might wish. **Because of the low charge weight most of these cartridges could hold a double charge of propellant, perhaps more.** It behooves the loader, therefore, to exercise caution and rigorously inspect his ammunition throughout the loading process to ensure that this doesn't happen. **DO NOT ASSUME IT CAN'T HAPPEN TO YOU—IT CAN!** We here in the customer service department at Accurate Arms Company hope that you, the shooter, will find this data of value in pursuing your favorite pastime. If you have any questions or comments please don't hesitate to call us at 931-729-4207, Monday through Friday, 8:00 am – 4:30 pm, central time.

HANDGUN LOADS

32/20 WINCHESTER

Gun RUGER
 Barrel length 6½"
 Primer CCI 400
 Case REM

Maximum Loads

| Bullet | Powder | Grains | Vel. |
|--------------|--------|--------|------|
| (L) 100 SWC | No. 5 | 4.8 | 865 |
| OAL = 1.585" | No. 7 | 6.1 | 924 |
| | No. 9 | 7.0 | 924 |

38 SPECIAL

Gun H.S. Precision/
 S&W Model 14
 Barrel length 8¾"
 Primer CCI 500
 Case HDY

Maximum Loads

| Bullet | Powder | Grains | Vel. |
|--------------|-----------|--------|------|
| (L) 130 SWC | N100 | 3.3 | 949 |
| OAL = 1.420" | S1000 | 3.4 | 913 |
| | No. 2 IMP | N/R | |
| | No. 5 | N/R | |
| (L) 158 SWC | N100 | 3.3 | 898 |
| OAL = 1.481" | S1000 | 3.4 | 857 |
| | No. 2 IMP | 4.0 | 868 |
| | No. 5 | 5.9 | 940 |

357 MAGNUM

Gun S&W
 Barrel length 6"
 Primer CCI 500
 Case HDY

Maximum Loads

| Bullet | Powder | Grains | Vel. |
|--------------|-----------|--------|------|
| (L) 148 DEWC | No. 2 IMP | 3.0 | 746 |
| OAL = 1.370" | | 4.0 | 919 |
| (L) 148 HBWC | No. 2 IMP | 2.5 | 645 |
| OAL = 1.320" | | 4.0 | 913 |
| (L) 158 SWC* | No. 2 IMP | 4.0 | 864 |
| OAL = 1.510" | | 5.0 | 1008 |

38/40 WINCHESTER

Gun RUGER
 Barrel length 6½"
 Primer WLP
 Case WIN

Maximum Loads

| Bullet | Powder | Grains | Vel. |
|--------------|-----------|--------|------|
| (L) 145 FP | N100 | 5.8 | 1027 |
| OAL = 1.580" | No. 2 IMP | 5.8 | 1016 |
| (L) 165 FP | N100 | 5.2 | 959 |
| OAL = 1.580" | No. 2 IMP | 5.4 | 946 |
| (L) 185 FP | N100 | 5.0 | 885 |
| OAL = 1.580" | No. 2 IMP | 5.0 | 871 |
| (L) 200 FP | N100 | 4.8 | 836 |
| OAL = 1.580" | No. 2 IMP | 4.8 | 815 |

44/40 WINCHESTER

Gun TEST BBL
 Barrel length 7½"
 Primer REM 2½"
 Case REM

Maximum Loads

| Bullet | Powder | Grains | Vel. |
|--------------|-----------|--------|------|
| (L) 190 WC | N100 | 4.6 | 861 |
| OAL = 1.390" | S1000 | 4.9 | 860 |
| | No. 2 IMP | 5.2 | 891 |
| | No. 5 | 8.5 | 950 |
| (L) 200 SWC | N100 | 5.3 | 954 |
| OAL = 1.575" | S1000 | 5.7 | 929 |
| | No. 2 IMP | 6.3 | 961 |
| | No. 5 | 9.2 | 983 |

.44 RUSSIAN

Gun TEST BBL
 Barrel length 7½"
 Primer CCI 300
 Case STARLINE

Maximum Loads

| Bullet | Powder | Grains | Vel. |
|--------------|--------|--------|------|
| (L) 200 FN | N100 | 4.0 | 873 |
| OAL = 1.240" | S1000 | 4.6 | 923 |
| | No. 2 | 4.8 | 939 |
| | No. 5 | 7.5 | 917 |
| | 5744 | 13.0 | 919 |
| (L) 240 SWC | N100 | 3.3 | 769 |
| OAL = 1.280" | S1000 | 3.7 | 781 |
| | No. 2 | 4.2 | 824 |
| | No. 5 | 6.6 | 814 |
| | 5744 | 11.5 | 824 |

*Note: SWC seated with front driving band flush with case mouth (357 Magnum and 44 Magnum).

44 S&W SPECIAL

Gun TEST BBL
 Barrel length 7½"
 Primer CCI 300
 Case MIDWAY

Maximum Loads

| Bullet | Powder | Grains | Vel. |
|--------------|-----------|--------|------|
| (L) 190 WC | N100 | 3.7 | 823 |
| OAL = 1.265" | S1000 | 4.4 | 842 |
| | No. 2 IMP | 4.0 | 836 |
| | No. 5 | 6.7 | 871 |
| (L) 200 SWC | N100 | 4.1 | 867 |
| OAL = 1.465" | S1000 | 4.3 | 813 |
| | No. 2 IMP | 5.2 | 905 |
| | No. 5 | 7.4 | 959 |
| (L) 245 RN | N100 | 3.8 | 752 |
| OAL = 1.600" | S1000 | 4.5 | 791 |
| | No. 2 IMP | 4.7 | 819 |
| | No. 5 | 6.8 | 860 |
| (L) 250 SWC | N100 | 4.2 | 772 |
| OAL = 1.575" | S1000 | 4.3 | 751 |
| | No. 2 IMP | 5.0 | 808 |
| | No. 5 | 7.0 | 864 |

44 REMINGTON MAGNUM

Gun TEST BBL
 Barrel length 7½"
 Primer CCI 300
 Case WIN

Maximum Loads

| Bullet | Powder | Grains | Vel. |
|--------------|-----------|--------|------|
| (L) 190 WC | N100 | 5.0 | 964 |
| OAL = 1.390" | S1000 | 5.5 | 946 |
| | No. 2 IMP | 5.5 | 955 |
| | No. 5 | 8.0 | 951 |
| (L) 200 SWC* | N100 | 4.7 | 911 |
| OAL = 1.575" | S1000 | 5.0 | 928 |
| | No. 2 IMP | 5.0 | 885 |
| | No. 5 | 7.6 | 880 |
| (L) 250 SWC* | N100 | 4.5 | 826 |
| OAL = 1.620" | S1000 | 5.0 | 809 |
| | No. 2 IMP | 5.0 | 838 |
| | No. 5 | 7.0 | 812 |

45 S&W-SCHOFIELD

Gun TEST BBL
 Barrel length 7½"
 Primer CCI 300
 Case STARLINE

Maximum Loads

| Bullet | Powder | Grains | Vel. |
|--------------|-----------|--------|------|
| (L) 200 SWC | N100 | 5.6 | 959 |
| OAL = 1.450" | S1000 | 6.3 | 952 |
| | No. 2 IMP | 5.6 | 863 |
| (L) 230 RN | N100 | 5.0 | 867 |
| OAL = 1.450" | S1000 | 5.8 | 852 |
| | No. 2 IMP | 5.3 | 870 |
| (L) 255 SWC | N100 | 4.6 | 775 |
| OAL = 1.450" | S1000 | 5.5 | 801 |
| | No. 2 IMP | 5.1 | 783 |

45 COLT

Gun TEST BBL
 Barrel length 7½"
 Primer CCI 300
 Case WIN

Use Load as Is; Do Not Reduce

| Bullet | Powder | Grains | Vel. |
|----------------|-----------|--------|------|
| (L) 200 WC | N100 | 6.1 | 976 |
| OAL = 1.560" | S1000 | 6.7 | 940 |
| | No. 2 IMP | 6.4 | 952 |
| (L) 225 FN | N100 | 5.9 | 897 |
| OAL = 1.595" | S1000 | 6.5 | 909 |
| | No. 2 IMP | 6.1 | 873 |
| (L) 240 SWC | N100 | 5.7 | 898 |
| OAL = 1.660" | S1000 | 6.3 | 851 |
| | No. 2 IMP | 6.0 | 845 |
| (L) 250/255 FN | N100 | 5.5 | 868 |
| OAL = 1.600" | S1000 | 5.8 | 807 |
| | No. 2 IMP | 5.9 | 813 |

*Note: SWC seated with front driving band flush with case mouth (357 Magnum and 44 Magnum).

LONG RANGE RIFLE LOADS

.30-30 WINCHESTER

Gun TEST BARREL
 Barrel length 24"
 Primer CCI 200
 Case REM

Maximum Loads

| Bullet | Powder | Grains | Vel. |
|-----------------|--------|--------|------|
| (L) LY 160 PBFN | 5744 | 12.6 | 1297 |
| OAL = 2.550" | | | |

.32-40 WINCHESTER

Gun TEST BARREL
 Barrel length 24"
 Primer CCI 200
 Case REM

Maximum Loads

| Bullet | Powder | Grains | Vel. |
|-----------------|--------|--------|------|
| (L) LY 165 PBFN | 5744 | 16.0 | 1436 |
| OAL = 2.500" | | | |

.38-55 WINCHESTER

Gun TEST BARREL
 Barrel length 24"
 Primer CCI 200
 Case WIN

Maximum Loads

| Bullet | Powder | Grains | Vel. |
|-----------------|--------|--------|------|
| (L) LY 240 PBFN | 5744 | 16.0 | 1241 |
| OAL = 2.510" | | | |

.45-70 GOVERNMENT

Gun TEST BARREL
 Barrel length 24"
 Primer CCI 200
 Case REM NICKEL

Maximum Loads

| Bullet | Powder | Grains | Vel. |
|-----------------|--------|--------|------|
| (L) CLE 300 PB | 5744 | 31.0 | 1597 |
| OAL = 2.550" | | | |
| (L) CLE 405 PB | 5744 | 27.5 | 1355 |
| OAL = 2.560" | | | |
| (L) LY 500 PBRN | 5744 | 25.0 | 1209 |
| OAL = 2.850" | | | |

NOTE: Crimp bullets firmly.

SHOTSHELL LOADS

(See Shotshell Section)

RIFLE DATA

FOR MORE COMPLETE LOADING INFORMATION, BUY ACCURATE'S
RELOADING MANUAL, BOOK TWO. SEE INSIDE BACK COVER FOR DETAILS.

17 REMINGTON

| Gun | DOUGLAS | Barrel length | 24" | |
|-----------|--------------|---------------|-----------|----------|
| Primer | REM 7½ | Case | REM | |
| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
| HDY 25 HP | OAL = 2.170" | | | |
| 2230 | 19.4 | 3567 | 21.5 | 3877 |
| 2460 | 19.8 | 3648 | 22.0 | 3965 |
| 2520 | 20.4 | 3655 | 22.7 | 3973 |
| 4064 | 21.6 | 3721 | 24.0 | 4045 |
| 2700 | 24.3 | 3756 | 27.0 | 4083 |

22 HORNET

| Gun | DOUGLAS | Barrel length | 24" | |
|-------------|--------------|---------------|-----------|----------|
| Primer | CCI 500 | Case | WIN | |
| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
| (L) 44 RNGC | OAL = 1.665" | | | |
| 5744 | 8.1 | 1879 | 9.0 | 2042 |
| HDY 35 VMAX | OAL = 1.775" | | | |
| 1680 | 12.2 | 2631 | 13.5 | 2860 |
| SRA 40 HOR | OAL = 1.715" | | | |
| 5744 | 8.7 | 2031 | 9.7 | 2208 |
| 1680 | 12.6 | 2562 | 14.0 | 2785 |
| 2015 | 11.3 | 1842 | 12.5 | 2002 |
| NOS 45 HOR | OAL = 1.720" | | | |
| 1680 | 11.1 | 2294 | 12.3 | 2493 |
| 2015 | 11.3 | 1912 | 12.5 | 2078 |
| HDY 50 SX | OAL = 1.780" | | | |
| 5744 | 8.1 | 1795 | 9.0 | 1951 |

222 REMINGTON

| Gun | DOUGLAS | Barrel length | 24" | |
|-----------|--------------|---------------|-----------|----------|
| Primer | REM 7½ | Case | REM/WIN | |
| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
| NOS 45 SB | OAL = 2.065" | | | |
| 1680 | 18.9 | 3033 | 21.0 | 3297 |
| 2015 | 22.1 | 3113 | 24.5 | 3384 |
| 2230 | 24.3 | 3171 | 27.0 | 3447 |
| 2460 | 24.3 | 3133 | 27.0 | 3405 |
| 2520 | 22.5 | 2904 | 25.0 | 3156 |

222 REMINGTON (CONT'D)

| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
|------------|--------------|----------|-----------|----------|
| HDY 50 SX | OAL = 2.150" | | | |
| 1680 | 16.7 | 2768 | 18.5 | 3009 |
| 2015 | 21.2 | 2951 | 23.5 | 3208 |
| 2230 | 22.1 | 2969 | 24.5 | 3227 |
| 2460 | 22.1 | 2948 | 24.5 | 3204 |
| 2520 | 22.5 | 2835 | 25.0 | 3081 |
| NOS 55 SBT | OAL = 2.155" | | | |
| 1680 | 17.1 | 2664 | 19.0 | 2896 |
| 2015 | 20.3 | 2803 | 22.5 | 3047 |
| 2230 | 22.1 | 2858 | 24.5 | 3106 |
| 2460 | 22.1 | 2844 | 24.5 | 3091 |
| 2520 | 22.1 | 2725 | 24.5 | 2962 |

223 REMINGTON

| Gun | WILSON | Barrel length | 24" | |
|-------------|--------------|---------------|-----------|----------|
| Primer | REM 7½ | Case | REM | |
| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
| HDY 35 VMAX | OAL = 2.130" | | | |
| 1680 | 18.4 | 3383 | 20.4 | 3677 |
| 5744 | 18.8 | 3381 | 20.9 | 3675 |
| 2015 | 22.2 | 3509 | 24.7 | 3814 |
| 2230 | 25.2 | 3629 | 28.0 | 3945 |
| NOS 45 SP | OAL = 2.115" | | | |
| 1680 | 17.5 | 3038 | 19.5 | 3302 |
| 2015 | 22.2 | 3262 | 24.7 | 3546 |
| 2230 | 23.1 | 3180 | 25.7 | 3456 |
| 2460 | 23.5 | 3198 | 26.1 | 3476 |
| 2495 | 22.7 | 3160 | 25.2 | 3435 |
| 2520 | 24.4 | 3150 | 27.1 | 3424 |
| SPR 50 TNT | OAL = 2.235" | | | |
| 1680 | 17.5 | 2894 | 19.5 | 3146 |
| 2015 | 21.8 | 3116 | 24.2 | 3387 |
| 2230 | 22.2 | 3075 | 24.7 | 3342 |
| 2460 | 22.2 | 3063 | 24.7 | 3329 |
| 2495 | 22.7 | 3019 | 25.2 | 3282 |
| 2520 | 24.4 | 3078 | 27.1 | 3346 |
| HDY 53 HPBT | OAL = 2.225" | | | |
| 1680 | 17.1 | 2803 | 19.0 | 3047 |
| 2015 | 20.9 | 3007 | 23.3 | 3268 |
| 2230 | 22.2 | 2992 | 24.7 | 3252 |
| 2460 | 21.8 | 2975 | 24.2 | 3234 |
| 2495 | 22.2 | 3005 | 24.7 | 3266 |
| 2520 | 23.5 | 2976 | 26.1 | 3235 |

WARNING: Always start at MINIMUM loads listed above as START CHG. See explanation on page 3.

223 REMINGTON (CONT'D)

| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
|---------------------------------|------------|----------|-----------|----------|
| NOS 55 SBT OAL = 2.230" | | | | |
| 1680 | 17.5 | 2813 | 19.5 | 3058 |
| 2015 | 21.4 | 3019 | 23.8 | 3281 |
| 2230 | 22.2 | 2959 | 24.7 | 3216 |
| 2460 | 22.7 | 2973 | 25.2 | 3231 |
| 2495 | 22.4 | 3009 | 24.9 | 3271 |
| 2520 | 23.5 | 2966 | 26.1 | 3224 |
| SRA 69 HPBT OAL = 2.250" | | | | |
| 2015 | 19.7 | 2684 | 21.9 | 2917 |
| 2230 | 20.9 | 2695 | 23.3 | 2929 |
| 2460 | 21.1 | 2752 | 23.5 | 2991 |
| 2495 | 21.4 | 2727 | 23.8 | 2964 |
| 2520 | 23.1 | 2800 | 25.7 | 3044 |

NOTE: Some military cases have lower case capacity than commercial brass cases and may require reduction of charge weight by 8-12%. Use extra caution when loading with military brass.

22 PPC

| Gun | DOUGLAS | Barrel length | 24" | |
|--------------------------------|------------|---------------|-----------|----------|
| Primer | REM 7½ | Case | SAKO | |
| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
| SPR 50 HP OAL = 2.000" | | | | |
| 2015 | 23.4 | 3185 | 26.0 | 3462 |
| 2230 | 26.1 | 3328 | 29.0 | 3617 |
| 2460 | 26.1 | 3291 | 29.0 | 3577 |
| 2495 | 25.2 | 3223 | 28.0 | 3503 |
| 2520 | 26.1 | 3189 | 29.0 | 3466 |
| NOS 55 SBT OAL = 1.960" | | | | |
| 2015 | 22.5 | 3016 | 25.0 | 3278 |
| 2230 | 25.2 | 3132 | 28.0 | 3404 |
| 2460 | 25.2 | 3095 | 28.0 | 3364 |
| 2495 | 24.8 | 3147 | 27.6 | 3421 |
| 2520 | 26.1 | 3097 | 29.0 | 3366 |

22 BR REMINGTON

| Gun | DOUGLAS | Barrel length | 24" | |
|--------------------------------|------------|---------------|-----------|----------|
| Primer | REM 7½ | Case | REM | |
| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
| NOS 40 BT OAL = 2.055" | | | | |
| 5744 | 23.9 | 3536 | 26.5 | 3843 |
| SPR 50 TNT OAL = 2.000" | | | | |
| 5744 | 23.4 | 3278 | 26.0 | 3563 |
| 2015 | 27.5 | 3431 | 30.5 | 3729 |
| 2230 | 30.0 | 3464 | 33.3 | 3765 |
| 2460 | 30.2 | 3461 | 33.5 | 3762 |
| 2495 | 28.8 | 3274 | 32.0 | 3559 |
| 2520 | 30.3 | 3451 | 33.7 | 3751 |
| 2700 | 31.5 | 3198 | 35.0 | 3476 |

22 BR REMINGTON (CONT'D)

| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
|--------------------------------|------------|----------|-----------|----------|
| NOS 55 SBT OAL = 1.970" | | | | |
| 5744 | 22.1 | 3068 | 24.5 | 3335 |
| 2015 | 26.1 | 3211 | 29.0 | 3490 |
| 2230 | 28.8 | 3281 | 32.0 | 3566 |
| 2460 | 29.3 | 3317 | 32.5 | 3605 |
| 2495 | 27.9 | 3171 | 31.0 | 3447 |
| 2520 | 29.4 | 3303 | 32.7 | 3590 |
| 4064 | 29.3 | 3232 | 32.5 | 3513 |
| 2700 | 30.6 | 3088 | 34.0 | 3357 |

22/250 REMINGTON

| Gun | APEX | Barrel length | 24" | |
|--------------------------------|------------|---------------|-----------|----------|
| Primer | CCI 200 | Case | REM | |
| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
| NOS 50 SP OAL = 2.350" | | | | |
| 2015 | 30.6 | 3487 | 34.0 | 3790 |
| 2230 | 32.4 | 3496 | 36.0 | 3800 |
| 2460 | 32.9 | 3525 | 36.5 | 3831 |
| 2520 | 33.3 | 3513 | 37.0 | 3819 |
| 4064 | 34.2 | 3492 | 38.0 | 3796 |
| 4350 | 36.0 | 3249 | 40.0 | 3531 |
| NOS 55 SBT OAL = 2.370" | | | | |
| 2015 | 29.7 | 3310 | 33.0 | 3598 |
| 2230 | 31.5 | 3320 | 35.0 | 3609 |
| 2460 | 32.4 | 3376 | 36.0 | 3670 |
| 2520 | 32.4 | 3317 | 36.0 | 3605 |
| 4064 | 33.3 | 3341 | 37.0 | 3632 |
| 2700 | 36.0 | 3363 | 40.0 | 3655 |
| 4350 | 36.0 | 3189 | 40.0 | 3466 |
| HDY 60 HP OAL = 2.400" | | | | |
| 2015 | 29.7 | 3217 | 33.0 | 3497 |
| 2230 | 30.6 | 3151 | 34.0 | 3425 |
| 2460 | 31.5 | 3219 | 35.0 | 3499 |
| 2520 | 32.4 | 3231 | 36.0 | 3512 |
| 4064 | 32.4 | 3226 | 36.0 | 3507 |
| 2700 | 34.2 | 3200 | 38.0 | 3478 |
| 4350 | 36.0 | 3123 | 40.0 | 3395 |
| SPR 70 SSP OAL = 2.325" | | | | |
| 2015 | 27.0 | 2876 | 30.0 | 3126 |
| 2230 | 27.9 | 2844 | 31.0 | 3091 |
| 2460 | 27.9 | 2831 | 31.0 | 3077 |
| 2520 | 29.3 | 2892 | 32.5 | 3144 |
| 4064 | 29.0 | 2962 | 32.2 | 3220 |
| 2700 | 31.1 | 2871 | 34.5 | 3121 |
| 4350 | 34.2 | 2984 | 38.0 | 3244 |

WARNING: Always start at MINIMUM loads listed above as START CHG. See explanation on page 3.

220 SWIFT

| Gun | RUGER 77V | Barrel length | 26" | |
|--------------------------------|------------|---------------|-----------|----------|
| Primer | FED 210 | Case | WIN | |
| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
| SPR 50 HP OAL = 2.700" | | | | |
| 4064 | 35.1 | 3536 | 39.0 | 3843 |
| 2700 | 40.5 | 3712 | 45.0 | 4035 |
| 4350 | 39.6 | 3625 | 44.0 | 3940 |
| 3100 | 39.6 | 3302 | 44.0 | 3589 |
| NOS 55 SBT OAL = 2.680" | | | | |
| 4064 | 33.3 | 3281 | 37.0 | 3566 |
| 2700 | 39.2 | 3525 | 43.5 | 3832 |
| 4350 | 39.6 | 3584 | 44.0 | 3896 |
| 3100 | 39.6 | 3301 | 44.0 | 3588 |
| HDY 60 HP OAL = 2.700" | | | | |
| 2700 | 37.8 | 3318 | 42.0 | 3607 |
| 4350 | 39.6 | 3514 | 44.0 | 3820 |
| 3100 | 39.6 | 3246 | 44.0 | 3528 |
| SPR 70 SSR OAL = 2.660" | | | | |
| 2700 | 35.1 | 3160 | 39.0 | 3435 |
| 4350 | 37.4 | 3207 | 41.5 | 3486 |
| 3100 | 39.6 | 3139 | 44.0 | 3412 |

6mm PPC

| Gun | DOUGLAS | Barrel length | 24" | |
|-------------------------------|------------|---------------|-----------|----------|
| Primer | REM 7½ | Case | SAKO | |
| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
| SRA 60 HP OAL = 2.050" | | | | |
| 2015 | 24.5 | 2910 | 27.2 | 3163 |
| 2230 | 26.6 | 2921 | 29.5 | 3175 |
| 2460 | 27.0 | 2944 | 30.0 | 3200 |
| 2495 | 25.7 | 2921 | 28.5 | 3175 |
| HDY 70 SX OAL = 2.080" | | | | |
| 2015 | 24.3 | 2720 | 27.0 | 2957 |
| 2230 | 25.7 | 2690 | 28.5 | 2924 |
| 2460 | 26.6 | 2743 | 29.5 | 2981 |
| 2495 | 25.7 | 2779 | 28.5 | 3021 |

6mm BR REMINGTON

| Gun | DOUGLAS | Barrel length | 24" | |
|-------------------------------|------------|---------------|-----------|----------|
| Primer | REM 7½ | Case | REM | |
| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
| SRA 70 HP OAL = 2.170" | | | | |
| 2015 | 27.5 | 3019 | 30.5 | 3281 |
| 2230 | 29.3 | 2996 | 32.5 | 3256 |
| 2460 | 29.7 | 3013 | 33.0 | 3275 |
| 2495 | 28.4 | 3001 | 31.5 | 3262 |
| 2520 | 30.6 | 3020 | 34.0 | 3283 |
| 2700 | 31.5 | 2713 | 35.0 | 2949 |

6mm BR REMINGTON (CONT'D)

| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
|-------------------------------|------------|----------|-----------|----------|
| SPR 80 SP OAL = 2.120" | | | | |
| 2015 | 26.1 | 2800 | 29.0 | 3044 |
| 2230 | 27.9 | 2794 | 31.0 | 3037 |
| 2460 | 28.8 | 2874 | 32.0 | 3124 |
| 2495 | 27.0 | 2829 | 30.0 | 3075 |
| 2520 | 29.7 | 2871 | 33.0 | 3121 |
| 2700 | 31.5 | 2698 | 35.0 | 2933 |

243 WINCHESTER

| Gun | HS PRECISION | Barrel length | 24" | |
|---------------------------------|--------------|---------------|-----------|----------|
| Primer | CCI 200 | Case | WIN | |
| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
| NOS 55 BT OAL = 2.605" | | | | |
| 2015 | 35.1 | 3433 | 39.0 | 3731 |
| 2230 | 37.4 | 3502 | 41.5 | 3807 |
| 2460 | 38.7 | 3561 | 43.0 | 3871 |
| 2520 | 39.2 | 3574 | 43.5 | 3885 |
| 2700 | 43.7 | 3517 | 48.5 | 3823 |
| 4350 (C) | 42.8 | 3235 | 47.5 | 3516 |
| 3100 (C) | 42.8 | 2919 | 47.5 | 3173 |
| HDY 70 SX OAL = 2.650" | | | | |
| 2015 | 32.9 | 3123 | 36.5 | 3395 |
| 2495 | 35.1 | 3210 | 39.0 | 3489 |
| 2520 | 35.1 | 3096 | 39.0 | 3365 |
| 4064 | 37.8 | 3201 | 42.0 | 3479 |
| 2700 | 40.5 | 3218 | 45.0 | 3498 |
| 4350 | 43.2 | 3249 | 48.0 | 3531 |
| 3100 | 43.2 | 2959 | 48.0 | 3216 |
| SRA 85 HPBT OAL = 2.660" | | | | |
| 2495 | 31.5 | 2826 | 35.0 | 3072 |
| 4064 | 34.2 | 2889 | 38.0 | 3140 |
| 2700 | 36.9 | 2889 | 41.0 | 3140 |
| 4350 | 39.6 | 3030 | 44.0 | 3294 |
| 3100 | 41.4 | 2881 | 46.0 | 3132 |
| SPR 100 SBT OAL = 2.700" | | | | |
| 2495 | 27.0 | 2441 | 30.0 | 2653 |
| 4064 | 27.9 | 2432 | 31.0 | 2644 |
| 2700 | 32.4 | 2533 | 36.0 | 2753 |
| 4350 | 35.1 | 2743 | 39.0 | 2981 |
| 3100 | 38.7 | 2729 | 43.0 | 2966 |

6mm REMINGTON

| Gun | DOUGLAS | Barrel length | 24" | |
|-------------------------------|------------|---------------|-----------|----------|
| Primer | CCI 200 | Case | FED | |
| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
| NOS 55 BT OAL = 2.765" | | | | |
| 2015 | 36.9 | 3583 | 41.0 | 3895 |
| 2495 | 40.1 | 3606 | 44.5 | 3920 |
| 4064 | 40.5 | 3709 | 45.0 | 4031 |
| 2700 | 45.5 | 3602 | 50.5 | 3915 |
| 4350 (C) | 45.9 | 3456 | 51.0 | 3756 |
| 3100 (C) | 45.9 | 3111 | 51.0 | 3381 |

WARNING: Always start at MINIMUM loads listed above as START CHG. See explanation on page 3.
(C) Denotes a compressed load for maximum charge.

6mm REMINGTON (CONT'D)

| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
|--------------------------------|------------|----------|-----------|----------|
| HDY 70 SP OAL = 2.775" | | | | |
| 2015 | 36.7 | 3221 | 40.8 | 3501 |
| 2495 | 37.8 | 3283 | 42.0 | 3568 |
| 4064 | 40.1 | 3383 | 44.5 | 3677 |
| 4350 | 45.0 | 3154 | 50.0 | 3428 |
| 3100 | 45.9 | 2932 | 51.0 | 3187 |
| SPR 80 SP OAL = 2.825" | | | | |
| 2015 | 34.9 | 3014 | 38.8 | 3276 |
| 2495 | 36.0 | 3018 | 40.0 | 3280 |
| 4064 | 39.2 | 3206 | 43.5 | 3485 |
| 2700 | 43.2 | 3143 | 48.0 | 3416 |
| 4350 | 44.6 | 3134 | 49.5 | 3406 |
| 3100 | 45.9 | 2931 | 51.0 | 3186 |
| NOS 100 SP OAL = 2.825" | | | | |
| 2015 | 32.9 | 2664 | 36.5 | 2896 |
| 4064 | 36.0 | 2824 | 40.0 | 3070 |
| 2700 | 41.0 | 2814 | 45.5 | 3059 |
| 4350 | 41.0 | 2798 | 45.6 | 3041 |
| 3100 | 43.2 | 2743 | 48.0 | 2981 |

250/3000 SAVAGE

| Gun | DOUGLAS | Barrel length | 24" | |
|---------------------------------|------------|---------------|-----------|----------|
| Primer | REM 9½ | Case | REM | |
| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
| SRA 75 HP OAL = 2.465" | | | | |
| 2015 | 28.4 | 2866 | 31.5 | 3115 |
| 2230 | 30.2 | 2865 | 33.5 | 3114 |
| 2460 | 30.6 | 2925 | 34.0 | 3179 |
| 2520 | 30.6 | 2871 | 34.0 | 3121 |
| 4064 | 32.4 | 2916 | 36.0 | 3170 |
| 4350 | 36.9 | 2791 | 41.0 | 3034 |
| 3100 | 36.9 | 2516 | 41.0 | 2735 |
| SRA 90 HPBT OAL = 2.465" | | | | |
| 2015 | 27.5 | 2695 | 30.5 | 2929 |
| 2230 | 28.8 | 2673 | 32.0 | 2905 |
| 2460 | 28.8 | 2665 | 32.0 | 2897 |
| 2520 | 29.3 | 2670 | 32.5 | 2902 |
| 4064 | 31.5 | 2757 | 35.0 | 2997 |
| 4350 | 36.0 | 2697 | 40.0 | 2931 |
| 3100 | 36.9 | 2513 | 41.0 | 2731 |
| HDY 100 SP OAL = 2.500" | | | | |
| 2015 | 27.0 | 2569 | 30.0 | 2792 |
| 2230 | 27.0 | 2449 | 30.0 | 2662 |
| 2460 | 27.9 | 2472 | 31.0 | 2687 |
| 2520 | 28.8 | 2539 | 32.0 | 2760 |
| 4064 | 31.5 | 2635 | 35.0 | 2864 |
| 4350 | 35.1 | 2559 | 39.0 | 2781 |
| 3100 | 36.9 | 2454 | 41.0 | 2667 |

257 ROBERTS

| Gun | DOUGLAS | Barrel length | 24" | |
|----------------------------------|------------|---------------|-----------|----------|
| Primer | CCI 200 | Case | REM | |
| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
| SRA 75 HP OAL = 2.745" | | | | |
| 2520 | 35.6 | 2915 | 39.5 | 3169 |
| 4064 | 38.1 | 3036 | 42.3 | 3300 |
| 2700 | 41.4 | 2984 | 46.0 | 3243 |
| 4350 | 42.3 | 2996 | 47.0 | 3257 |
| 3100 | 45.9 | 2910 | 51.0 | 3163 |
| SRA 90 HPBT OAL = 2.735" | | | | |
| 2520 | 33.3 | 2711 | 37.0 | 2947 |
| 4064 | 36.5 | 2817 | 40.5 | 3062 |
| 2700 | 37.8 | 2750 | 42.0 | 2989 |
| 4350 | 40.5 | 2761 | 45.0 | 3001 |
| 3100 | 45.0 | 2812 | 50.0 | 3056 |
| NOS 100 BT OAL = 2.785" | | | | |
| 2520 | 31.5 | 2525 | 35.0 | 2745 |
| 4064 | 34.2 | 2572 | 38.0 | 2796 |
| 2700 | 36.9 | 2626 | 41.0 | 2854 |
| 4350 | 40.1 | 2666 | 44.5 | 2898 |
| 3100 | 44.1 | 2635 | 49.0 | 2864 |
| SRA 117 SBT OAL = 2.775" | | | | |
| 2520 | 30.6 | 2351 | 34.0 | 2555 |
| 2700 | 35.1 | 2409 | 39.0 | 2619 |
| 4350 | 38.7 | 2484 | 43.0 | 2700 |
| 3100 | 43.2 | 2517 | 48.0 | 2736 |
| 25/06 REMINGTON | | | | |
| Gun | WISEMAN | Barrel length | 24" | |
| Primer | CCI 250 | Case | REM | |
| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
| (L) 100 FNGC OAL = 2.950" | | | | |
| 5744 | 19.8 | 1906 | 22.0 | 2072 |
| SRA 75 HP OAL = 3.065" | | | | |
| 2700 | 47.7 | 3453 | 53.0 | 3753 |
| 4350 (C) | 53.1 | 3478 | 59.0 | 3780 |
| 3100 (C) | 54.0 | 3298 | 60.0 | 3585 |
| SRA 90 HP OAL = 3.075" | | | | |
| 2700 | 45.0 | 3143 | 50.0 | 3416 |
| 4350 | 48.6 | 3194 | 54.0 | 3472 |
| 3100 (C) | 50.9 | 3100 | 56.5 | 3370 |
| NOS 100 BT OAL = 3.250" | | | | |
| 2700 | 43.2 | 2956 | 48.0 | 3213 |
| 4350 | 46.8 | 3011 | 52.0 | 3273 |
| 3100 (C) | 49.5 | 3020 | 55.0 | 3283 |
| 8700 (C) | 58.5 | 2616 | 65.0 | 2843 |
| NOS 115 PART OAL = 3.195" | | | | |
| 2700 | 41.1 | 2713 | 45.7 | 2949 |
| 4350 | 44.6 | 2809 | 49.5 | 3053 |
| 3100 | 47.5 | 2814 | 52.8 | 3059 |
| 8700 (C) | 57.6 | 2579 | 64.0 | 2803 |

WARNING: Always start at MINIMUM loads listed above as START CHG. See explanation on page 3.
(C) Denotes a compressed load for maximum charge.

25/06 REMINGTON (CONT'D)

| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
|---------------------------|------------|----------|-----------|----------|
| SPR 120 SPBT OAL = 3.120" | | | | |
| 2700 | 40.5 | 2662 | 45.0 | 2893 |
| 4350 | 44.1 | 2707 | 49.0 | 2942 |
| 3100 | 46.8 | 2740 | 52.0 | 2978 |
| 8700 (C) | 57.6 | 2505 | 64.0 | 2723 |

25/20 WINCHESTER

| Gun | DOUGLAS | Barrel length | 24" | |
|------------------------|------------|---------------|-----------|----------|
| Primer | CCI 400 | Case | REM | |
| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
| (L) 65 FN OAL = 1.592" | | | | |
| 5744 | 9.9 | 1724 | 11.0 | 1874 |
| (L) 90 FN OAL = 1.615" | | | | |
| 5744 | 9.0 | 1541 | 10.0 | 1675 |
| HDY 60 FP OAL = 1.592" | | | | |
| 5744 | 10.3 | 1797 | 11.4 | 1953 |
| SPR 75 FN OAL = 1.585" | | | | |
| 5744 | 10.1 | 1702 | 11.2 | 1850 |

260 REMINGTON

| Gun | H. S. PRECISION | Barrel length | 24" | |
|-------------------------|-----------------|---------------|-----------|----------|
| Primer | REM 9½ | Case | REM | |
| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
| SRA 85 HP OAL = 2.670" | | | | |
| 5744 | 20.0 | 2160 | 33.0 | 3214 |
| 4064 | 39.6 | 3081 | 44.0 | 3349 |
| 2700 | 43.2 | 3073 | 48.0 | 3340 |
| 4350 (C) | 43.2 | 2966 | 48.0 | 3224 |
| 3100 (C) | 43.2 | 2688 | 48.0 | 2922 |
| HDY 100 SP OAL = 2.750" | | | | |
| 4064 | 38.7 | 2915 | 43.0 | 3168 |
| 2700 | 42.3 | 2922 | 47.0 | 3176 |
| 4350 (C) | 44.1 | 3005 | 49.0 | 3266 |
| 3100 (C) | 45.0 | 2799 | 50.0 | 3042 |
| SWF 120 SP OAL = 2.710" | | | | |
| 4064 | 35.1 | 2592 | 39.0 | 2817 |
| 2700 | 38.7 | 2601 | 43.0 | 2827 |
| 4350 | 41.0 | 2719 | 45.5 | 2955 |
| 3100 (C) | 42.8 | 2621 | 47.5 | 2849 |
| HDY 129 SP OAL = 2.780" | | | | |
| 4064 | 34.2 | 2470 | 38.0 | 2685 |
| 2700 | 36.9 | 2474 | 41.0 | 2689 |
| 4350 | 39.6 | 2606 | 44.0 | 2833 |
| 3100 (C) | 42.3 | 2663 | 47.0 | 2895 |
| SWF 140 SP OAL = 2.740" | | | | |
| 4064 | 31.5 | 2294 | 35.0 | 2494 |
| 2700 | 35.1 | 2331 | 39.0 | 2534 |
| 4350 | 37.4 | 2458 | 41.5 | 2672 |
| 3100 (C) | 40.5 | 2429 | 45.0 | 2640 |

260 REMINGTON (CONT'D)

| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
|---------------------------|------------|----------|-----------|----------|
| SRA 140 HPBT OAL = 2.775" | | | | |
| 4064 | 32.9 | 2363 | 36.5 | 2569 |
| 2700 | 36.0 | 2408 | 40.0 | 2617 |
| 4350 | 38.7 | 2546 | 43.0 | 2767 |
| 3100 (C) | 41.4 | 2516 | 46.0 | 2735 |

6.5 x 55mm SWEDISH

| Gun | DOUGLAS | Barrel length | 24" | |
|---------------------------|------------|---------------|-----------|----------|
| Primer | CCI 200 | Case | PMC | |
| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
| (L) 140 SPGC OAL = 3.020" | | | | |
| 5744 | 26.1 | 2181 | 29.0 | 2371 |
| 2495 | 29.7 | 2178 | 33.0 | 2367 |
| 2520 | 30.6 | 2173 | 34.0 | 2362 |
| 4064 | 34.2 | 2293 | 38.0 | 2492 |
| 2700 | 36.9 | 2308 | 41.0 | 2509 |
| 4350 | 39.6 | 2319 | 44.0 | 2521 |
| 3100 (C) | 42.3 | 2278 | 47.0 | 2476 |
| 8700 (C) | 47.7 | 2020 | 53.0 | 2196 |
| HDY 100 SP OAL = 2.975" | | | | |
| 2520 | 36.9 | 2728 | 41.0 | 2965 |
| 4064 | 39.6 | 2815 | 44.0 | 3060 |
| 2700 | 43.2 | 2846 | 48.0 | 3093 |
| 4350 | 43.2 | 2695 | 48.0 | 2929 |
| 3100 | 44.1 | 2506 | 49.0 | 2724 |
| HDY 129 SP OAL = 3.025" | | | | |
| 2520 | 33.8 | 2353 | 37.5 | 2558 |
| 4064 | 37.4 | 2519 | 41.5 | 2738 |
| 2700 | 38.7 | 2443 | 43.0 | 2655 |
| 4350 | 41.4 | 2533 | 46.0 | 2753 |
| 3100 | 44.1 | 2503 | 49.0 | 2721 |
| SPR 140 SP OAL = 3.000" | | | | |
| 2520 | 33.3 | 2302 | 37.0 | 2502 |
| 4064 | 36.0 | 2363 | 40.0 | 2569 |
| 2700 | 37.8 | 2364 | 42.0 | 2570 |
| 4350 | 40.5 | 2419 | 45.0 | 2629 |
| 3100 | 42.3 | 2322 | 47.0 | 2524 |
| 8700 (C) | 47.7 | 2018 | 53.0 | 2193 |
| SRA 155 HPBT OAL = 3.090" | | | | |
| 4064 | 33.8 | 2197 | 37.5 | 2388 |
| 2700 | 34.2 | 2185 | 38.0 | 2375 |
| 4350 | 38.3 | 2337 | 42.5 | 2540 |
| 3100 | 41.4 | 2336 | 46.0 | 2539 |
| 8700 (C) | 47.7 | 2220 | 53.0 | 2413 |

WARNING: Always start at MINIMUM loads listed above as START CHG. See explanation on page 3.
(C) Denotes a compressed load for maximum charge.

270 WINCHESTER

| Gun Primer | HS PRECISION REM 9½ | Barrel length Case | 24" REM | |
|--|------------------------|-----------------------|------------------|-----------------|
| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
| (L) 150 RCBS OAL = 3.250" | | | | |
| 8700 | 54.0 | 2184 | 60.0 | 2374 |
| SRA 90 HP OAL = 3.090" | | | | |
| 5744 | 24.0 | 2174 | 40.0 | 3270 |
| 4064 | 47.7 | 3179 | 53.0 | 3455 |
| 2700 | 51.3 | 3176 | 57.0 | 3452 |
| 4350 | 54.9 | 3205 | 61.0 | 3484 |
| 3100 | 54.9 | 2877 | 61.0 | 3127 |
| HDY 100 SP OAL = 3.175" | | | | |
| 5744 | 24.0 | 2135 | 38.5 | 3100 |
| 4064 | 46.8 | 3072 | 52.0 | 3339 |
| 2700 | 50.4 | 3073 | 56.0 | 3340 |
| 4350 | 54.0 | 3088 | 60.0 | 3356 |
| 3100 | 54.9 | 2852 | 61.0 | 3100 |
| NOS 130 BT OAL = 3.330" | | | | |
| 5744 | 24.5 | 1950 | 36.5 | 2748 |
| 4064 | 43.2 | 2686 | 48.0 | 2920 |
| 2700 | 46.8 | 2718 | 52.0 | 2954 |
| 4350 | 49.5 | 2778 | 55.0 | 3020 |
| 3100 | 54.9 | 2820 | 61.0 | 3065 |
| HDY 140 SBT OAL = 3.330" | | | | |
| 5744 | 25.0 | 1962 | 36.0 | 2621 |
| 2700 | 46.8 | 2662 | 52.0 | 2893 |
| 4350 | 50.4 | 2749 | 56.0 | 2988 |
| 3100 | 54.0 | 2725 | 60.0 | 2962 |
| 8700 | 57.6 | 2257 | 64.0 | 2453 |
| SRA 150 SBT OAL = 3.300" | | | | |
| 5744 | 26.0 | 1998 | 35.5 | 2536 |
| 2700 | 45.0 | 2519 | 50.0 | 2738 |
| 4350 | 47.7 | 2650 | 53.0 | 2880 |
| 3100 | 52.2 | 2662 | 58.0 | 2894 |
| 8700 | 56.7 | 2329 | 63.0 | 2532 |
| 7-30 WATERS (FLAT POINT BULLETS ONLY) | | | | |
| Gun Primer | DOUGLAS REM 9½ | Barrel length Case | 24" REM | |
| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
| NOS 120 FN OAL = 2.530" | | | | |
| 2015 | 29.7 | 2472 | 33.0 | 2687 |
| 2230 | 30.6 | 2434 | 34.0 | 2646 |
| 2460 | 30.6 | 2405 | 34.0 | 2614 |
| 2520 | 33.3 | 2515 | 37.0 | 2734 |
| 4064 | 34.2 | 2507 | 38.0 | 2725 |
| NOS 139 FN OAL = 2.665" | | | | |
| 2015 | 27.9 | 2211 | 31.0 | 2403 |
| 2230 | 30.6 | 2339 | 34.0 | 2542 |
| 2460 | 31.1 | 2344 | 34.5 | 2548 |
| 2520 | 31.1 | 2274 | 34.5 | 2472 |
| 4064 | 32.0 | 2329 | 35.5 | 2532 |

7x57mm MAUSER

| Gun Primer | DOUGLAS CCI 200 | Barrel length Case | 24" WIN | |
|---------------------------------|--------------------|-----------------------|------------------|-----------------|
| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
| SRA 140 SBT OAL = 3.025" | | | | |
| 4064 | 37.8 | 2468 | 42.0 | 2683 |
| 2700 | 42.8 | 2523 | 47.5 | 2742 |
| 4350 | 45.9 | 2609 | 51.0 | 2836 |
| 3100 | 45.9 | 2356 | 51.0 | 2561 |
| NOS 150 BT OAL = 3.060" | | | | |
| 4064 | 36.0 | 2317 | 40.0 | 2519 |
| 2700 | 41.4 | 2416 | 46.0 | 2626 |
| 4350 | 44.1 | 2504 | 49.0 | 2722 |
| 3100 | 45.9 | 2375 | 51.0 | 2581 |
| HDY 175 SP OAL = 3.040" | | | | |
| 4064 | 35.1 | 2155 | 39.0 | 2342 |
| 2700 | 38.7 | 2209 | 43.0 | 2401 |
| 4350 | 42.3 | 2306 | 47.0 | 2507 |
| 3100 | 45.0 | 2247 | 50.0 | 2442 |

7mm08 REMINGTON

| Gun Primer | DOUGLAS CCI 200 | Barrel length Case | 24" REM | |
|---------------------------------|--------------------|-----------------------|------------------|-----------------|
| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
| (L) 145 GC OAL = 2.670" | | | | |
| 5744 | 24.3 | 2110 | 27.0 | 2294 |
| (L) 168 GC OAL = 2.735" | | | | |
| 5744 | 24.3 | 2000 | 27.0 | 2174 |
| NOS 120 SP OAL = 2.765" | | | | |
| 2015 | 34.4 | 2656 | 38.2 | 2887 |
| 2230 | 36.3 | 2656 | 40.3 | 2887 |
| 2460 | 36.6 | 2688 | 40.7 | 2922 |
| 2520 | 37.3 | 2644 | 41.4 | 2874 |
| 4064 | 38.7 | 2721 | 43.0 | 2958 |
| 2700 | 41.9 | 2641 | 46.5 | 2871 |
| 4350 | 42.8 | 2570 | 47.5 | 2794 |
| 3100 | 42.8 | 2298 | 47.5 | 2498 |
| SRA 140 SBT OAL = 2.800" | | | | |
| 2015 | 33.3 | 2483 | 37.0 | 2699 |
| 2230 | 35.1 | 2494 | 39.0 | 2711 |
| 2460 | 36.0 | 2547 | 40.0 | 2768 |
| 2520 | 35.6 | 2484 | 39.5 | 2700 |
| 4064 | 37.8 | 2553 | 42.0 | 2775 |
| 2700 | 40.1 | 2484 | 44.5 | 2700 |
| 4350 | 42.8 | 2579 | 47.5 | 2803 |
| 3100 | 42.8 | 2332 | 47.5 | 2535 |

WARNING: Always start at MINIMUM loads listed above as START CHG. See explanation on page 3.

7mm08 REMINGTON (CONT'D)

| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
|---------------------------------|-------------------|-----------------|------------------|-----------------|
| SRA 150 SBT OAL = 2.800" | | | | |
| 2015 | 32.4 | 2372 | 36.0 | 2578 |
| 2230 | 34.2 | 2410 | 38.0 | 2620 |
| 2460 | 34.5 | 2415 | 38.3 | 2625 |
| 2520 | 35.1 | 2403 | 39.0 | 2612 |
| 4064 | 36.9 | 2454 | 41.0 | 2667 |
| 2700 | 39.2 | 2424 | 43.5 | 2635 |
| 4350 | 41.9 | 2513 | 46.5 | 2731 |
| 3100 | 42.3 | 2294 | 47.0 | 2494 |
| NOS 160 SP OAL = 2.800" | | | | |
| 2015 | 31.5 | 2245 | 35.0 | 2440 |
| 2230 | 32.9 | 2240 | 36.5 | 2435 |
| 2460 | 33.3 | 2256 | 37.0 | 2452 |
| 2520 | 34.2 | 2259 | 38.0 | 2455 |
| 4064 | 36.0 | 2349 | 40.0 | 2553 |
| 4350 | 41.4 | 2420 | 46.0 | 2630 |
| 3100 | 42.3 | 2256 | 47.0 | 2452 |
| REM 175 SP OAL = 2.795" | | | | |
| 2015 | 31.5 | 2131 | 35.0 | 2316 |
| 2230 | 33.3 | 2183 | 37.0 | 2373 |
| 2460 | 33.3 | 2177 | 37.0 | 2366 |
| 2520 | 34.2 | 2175 | 38.0 | 2364 |
| 4064 | 35.6 | 2179 | 39.5 | 2368 |
| 2700 | 37.8 | 2196 | 42.0 | 2387 |
| 4350 | 41.0 | 2301 | 45.5 | 2501 |
| 3100 | 42.3 | 2164 | 47.0 | 2352 |

.280 REMINGTON

| <u>Gun</u> | <u>DOUGLAS</u> | <u>Barrel length</u> | <u>24"</u> | |
|--------------------------------|-------------------|----------------------|------------------|-----------------|
| <u>Primer</u> | <u>REM 9½</u> | <u>Case</u> | <u>REM</u> | |
| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
| SPR 120 SP OAL = 3.200" | | | | |
| 2700 | 47.3 | 2761 | 52.5 | 3001 |
| 4350 | 51.3 | 2863 | 57.0 | 3112 |
| 3100 | 54.0 | 2783 | 60.0 | 3025 |
| BAR 140 X OAL = 3.310" | | | | |
| 2700 | 43.7 | 2493 | 48.5 | 2710 |
| 4350 | 45.9 | 2554 | 51.0 | 2776 |
| 3100 | 51.3 | 2612 | 57.0 | 2839 |
| HDY 154 SP OAL = 3.330" | | | | |
| 2700 | 44.1 | 2501 | 49.0 | 2718 |
| 4350 | 48.6 | 2599 | 54.0 | 2825 |
| 3100 | 52.2 | 2569 | 58.0 | 2792 |
| NOS 160 SP OAL = 3.300" | | | | |
| 2700 | 43.7 | 2450 | 48.5 | 2663 |
| 4350 | 46.8 | 2523 | 52.0 | 2742 |
| 3100 | 51.8 | 2553 | 57.5 | 2775 |
| HDY 175 SP OAL = 3.300" | | | | |
| 2700 | 41.4 | 2234 | 46.0 | 2428 |
| 4350 | 46.4 | 2376 | 51.5 | 2583 |
| 3100 | 51.3 | 2467 | 57.0 | 2681 |

7mm REMINGTON MAGNUM

| <u>Gun</u> | <u>OBERMEYER</u> | <u>Barrel length</u> | <u>24"</u> | |
|---------------------------------|-------------------|----------------------|------------------|-----------------|
| <u>Primer</u> | <u>CCI 250</u> | <u>Case</u> | <u>REM</u> | |
| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
| SPR 120 SP OAL = 3.260" | | | | |
| 5744 | 24.5 | 2041 | 47.0 | 3127 |
| 4064 | 48.6 | 2906 | 54.0 | 3159 |
| 2700 | 55.4 | 2920 | 61.5 | 3174 |
| 4350 | 56.7 | 2958 | 63.0 | 3215 |
| 3100 | 64.2 | 3059 | 71.3 | 3325 |
| 8700 | 71.1 | 2743 | 79.0 | 2982 |
| SRA 140 SBT OAL = 3.270" | | | | |
| 5744 | 27.5 | 2050 | 45.5 | 2948 |
| 4064 | 47.7 | 2702 | 53.0 | 2937 |
| 2700 | 53.6 | 2755 | 59.5 | 2995 |
| 4350 | 54.9 | 2786 | 61.0 | 3028 |
| 3100 | 61.2 | 2845 | 68.0 | 3092 |
| 8700 | 72.0 | 2555 | 80.0 | 2777 |
| SRA 150 SBT OAL = 3.280" | | | | |
| 5744 | 29.5 | 2066 | 43.0 | 2739 |
| 4064 | 46.4 | 2583 | 51.5 | 2808 |
| 2700 | 51.8 | 2668 | 57.5 | 2900 |
| 4350 | 54.9 | 2731 | 61.0 | 2968 |
| 3100 | 59.4 | 2763 | 66.0 | 3003 |
| 8700 | 71.1 | 2715 | 79.0 | 2951 |
| NOS 160 SP OAL = 3.280" | | | | |
| 5744 | 30.0 | 2069 | 42.5 | 2679 |
| 4064 | 44.6 | 2454 | 49.5 | 2667 |
| 2700 | 51.8 | 2559 | 57.5 | 2781 |
| 4350 | 51.3 | 2547 | 57.0 | 2768 |
| 3100 | 57.2 | 2627 | 63.5 | 2855 |
| 8700 | 71.1 | 2698 | 79.0 | 2933 |
| NOS 175 SP OAL = 3.275" | | | | |
| 5744 | 31.5 | 2042 | 41.5 | 2513 |
| 4064 | 43.2 | 2302 | 48.0 | 2502 |
| 2700 | 47.7 | 2375 | 53.0 | 2581 |
| 4350 | 50.4 | 2441 | 56.0 | 2653 |
| 3100 | 54.5 | 2484 | 60.5 | 2700 |
| 8700 | 67.5 | 2534 | 75.0 | 2754 |

7mm REMINGTON ULTRA MAG

| <u>Gun</u> | <u>HS PRECISION</u> | <u>Barrel length</u> | <u>26"</u> | |
|----------------------------------|---------------------|----------------------|------------------|-----------------|
| <u>Primer</u> | <u>REM 9½</u> | <u>Case</u> | <u>REM</u> | |
| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
| (L) 145 OAL = 3.500" | | | | |
| 5744 | 30.0 | 1971 | 36.0 | 2228 |
| (L) 168 FPGC OAL = 3.260" | | | | |
| 5744 | 31.0 | 1952 | 40.0 | 2248 |
| HDY 120 SPHP OAL = 3.595" | | | | |
| 3100 | 79.2 | 3323 | 88.0 | 3612 |
| 8700 | 98.1 | 3360 | 109.0 | 3652 |

WARNING: Always start at MINIMUM loads listed above as START CHG. See explanation on page 3.

REM

7mm REMINGTON ULTRA MAG (CONT'D)

| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
|----------------------------------|------------|----------|-----------|----------|
| SRA 130 HPBT OAL = 3.595" | | | | |
| 3100 | 79.7 | 3283 | 88.5 | 3569 |
| 8700 | 100.8 | 3361 | 112.0 | 3653 |
| HDY 139 SP OAL = 3.595" | | | | |
| 5744 | 31.0 | 2046 | 42.0 | 2562 |
| 3100 | 77.4 | 3174 | 86.0 | 3450 |
| 8700 | 95.4 | 3222 | 106.0 | 3502 |
| BAR 140 X OAL = 3.595" | | | | |
| 5744 | 32.0 | 2051 | 43.0 | 2544 |
| 5744 | 51.3 | 2842 | 57.0 | 3089 |
| 3100 | 75.6 | 3140 | 84.0 | 3413 |
| 8700 | 94.5 | 3208 | 105.0 | 3487 |
| NOS 150 BT OAL = 3.595" | | | | |
| 5744 | 32.0 | 2026 | 43.0 | 2506 |
| 5744 | 50.4 | 2795 | 56.0 | 3038 |
| 3100 | 74.2 | 3064 | 82.4 | 3330 |
| 8700 | 93.6 | 3128 | 104.0 | 3400 |
| SRA 160 SPBT OAL = 3.595" | | | | |
| 5744 | 33.0 | 2052 | 45.0 | 2529 |
| 5744 | 50.4 | 2729 | 56.0 | 2966 |
| 3100 | 73.4 | 2968 | 81.5 | 3226 |
| 8700 | 91.8 | 3055 | 102.0 | 3321 |
| HDY 175 SP OAL = 3.595" | | | | |
| 5744 | 50.4 | 2626 | 56.0 | 2854 |
| 3100 | 72.0 | 2823 | 80.0 | 3069 |
| 8700 | 92.7 | 2975 | 103.0 | 3234 |
| SWF 175 A-F OAL = 3.595" | | | | |
| 3100 | 69.3 | 2800 | 77.0 | 3043 |
| 8700 | 88.2 | 2881 | 98.0 | 3132 |

7mm WEATHERBY MAGNUM

| Gun | DOUGLAS | Barrel length | 26" | |
|---------------------------------|------------|---------------|-----------|----------|
| Primer | REM 9½M | Case | REM | |
| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
| BAR 120 X OAL = 3.310" | | | | |
| 4350 | 63.9 | 3205 | 71.0 | 3484 |
| 3100 | 68.4 | 3199 | 76.0 | 3477 |
| 8700 | 77.4 | 2827 | 86.0 | 3073 |
| HDY 139 SBT OAL = 3.340" | | | | |
| 4350 | 62.1 | 3030 | 69.0 | 3293 |
| 3100 | 66.6 | 3048 | 74.0 | 3313 |
| 8700 | 73.8 | 2695 | 82.0 | 2929 |
| NOS 150 BT OAL = 3.350" | | | | |
| 4350 | 58.5 | 2843 | 65.0 | 3090 |
| 3100 | 64.8 | 2943 | 72.0 | 3199 |
| 8700 | 73.8 | 2670 | 82.0 | 2902 |
| NOS 160 SP OAL = 3.355" | | | | |
| 4350 | 58.5 | 2796 | 65.0 | 3039 |
| 3100 | 63.5 | 2858 | 70.5 | 3106 |
| 8700 | 72.9 | 2661 | 81.0 | 2892 |

7mm WEATHERBY MAGNUM (CONT'D)

| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
|--------------------------------|------------|----------|-----------|----------|
| NOS 175 SP OAL = 3.360" | | | | |
| 4350 | 56.7 | 2662 | 63.0 | 2894 |
| 3100 | 62.1 | 2738 | 69.0 | 2976 |
| 8700 | 72.0 | 2553 | 80.0 | 2775 |

.30 M1 CARBINE

| Gun | DOUGLAS | Barrel length | 20" | |
|---------------------------------|------------|---------------|-----------|----------|
| Primer | CCI 400 | Case | REM | |
| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
| (L) 125 RN OAL = 1.705" | | | | |
| No. 9 | 9.9 | 1627 | 11.0 | 1769 |
| 5744 | 12.2 | 1574 | 13.5 | 1711 |
| 1680 | 13.5 | 1616 | 15.0 | 1756 |
| SPR 100 SP OAL = 1.675" | | | | |
| No. 9 | 12.0 | 1854 | 13.3 | 2015 |
| 5744 | 13.5 | 1698 | 15.0 | 1846 |
| 1680 | 15.3 | 1695 | 17.0 | 1842 |
| SPR 110 FMJ OAL = 1.670" | | | | |
| No. 9 | 11.3 | 1742 | 12.6 | 1893 |
| 5744 | 13.1 | 1644 | 14.5 | 1787 |
| 1680 | 14.4 | 1624 | 16.0 | 1765 |

**.30/30 WINCHESTER
(FN/RN BULLETS ONLY)**

| Gun Primer | HS PRECISION CCI 200 | Barrel length Case | 20" FED | |
|--------------------------------|-------------------------|-----------------------|------------------|-----------------|
| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
| (L) 152 RN OAL = 2.450" | | | | |
| 5744 | 20.3 | 1943 | 22.5 | 2112 |
| 2015 | 23.0 | 1828 | 25.5 | 1987 |
| 2230 | 23.4 | 1815 | 26.0 | 1973 |
| 2460 | 24.3 | 1834 | 27.0 | 1994 |
| 2495 | 25.7 | 1885 | 28.5 | 2049 |
| 2520 | 24.8 | 1844 | 27.5 | 2004 |
| (L) 173 FN OAL = 2.550" | | | | |
| 5744 | 19.8 | 1872 | 22.0 | 2035 |
| 2015 | 23.4 | 1829 | 26.0 | 1988 |
| 2230 | 23.4 | 1798 | 26.0 | 1954 |
| 2460 | 24.8 | 1856 | 27.5 | 2017 |
| 2495 | 24.8 | 1852 | 27.5 | 2013 |
| 2520 | 25.7 | 1889 | 28.5 | 2053 |
| SPR 150 FN OAL = 2.540" | | | | |
| 5744 | 22.5 | 1985 | 25.0 | 2158 |
| 2015 | 26.1 | 2017 | 29.0 | 2192 |
| 2230 | 28.5 | 2091 | 31.7 | 2273 |
| 2460 | 29.3 | 2107 | 32.5 | 2290 |
| 2495 | 27.5 | 2049 | 30.5 | 2227 |
| 2520 | 30.2 | 2139 | 33.5 | 2325 |
| 4064 | 29.7 | 2065 | 33.0 | 2245 |
| 2700 | 33.3 | 2084 | 37.0 | 2265 |
| NOS 170 FN OAL = 2.545" | | | | |
| 5744 | 21.2 | 1838 | 23.5 | 1998 |
| 2015 | 24.3 | 1875 | 27.0 | 2038 |
| 2230 | 27.0 | 1954 | 30.0 | 2124 |
| 2460 | 27.2 | 1949 | 30.2 | 2118 |
| 2495 | 26.6 | 1927 | 29.5 | 2095 |
| 2520 | 28.4 | 1959 | 31.5 | 2129 |
| 4064 | 27.0 | 1837 | 30.0 | 1997 |
| 2700 | 31.5 | 1930 | 35.0 | 2098 |

.30/40 KRAG

| Gun Primer | DOUGLAS CCI 200 | Barrel length Case | 24" REM | |
|----------------------------------|--------------------|-----------------------|------------------|-----------------|
| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
| (L) 165 FNGC OAL = 2.855" | | | | |
| 5744 | 25.2 | 2022 | 28.0 | 2198 |
| (L) 180 RNGC OAL = 2.900" | | | | |
| 5744 | 23.9 | 1919 | 26.5 | 2086 |
| (L) 210 RNGC OAL = 2.925" | | | | |
| 5744 | 22.5 | 1720 | 25.0 | 1870 |

.308 WINCHESTER

| Gun Primer | HS PRECISION CCI 200 | Barrel length Case | 24" REM | |
|----------------------------------|-------------------------|-----------------------|------------------|-----------------|
| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
| (L) 152 RNGC OAL = 2.530" | | | | |
| 5744 | 24.3 | 2052 | 27.0 | 2230 |
| (L) 165 SIL OAL = 2.700" | | | | |
| 5744 | 24.3 | 1992 | 27.0 | 2165 |
| SRA 110 HP OAL = 2.595" | | | | |
| 5744 | 22.1 | 2040 | 36.0 | 2918 |
| 2015 | 40.5 | 2934 | 45.0 | 3189 |
| 2230 | 42.8 | 2917 | 47.5 | 3171 |
| 2460 | 43.7 | 2938 | 48.5 | 3193 |
| 2495 | 42.3 | 2780 | 47.0 | 3022 |
| 2520 | 42.8 | 2778 | 47.5 | 3020 |
| NOS 125 BT OAL = 2.780" | | | | |
| 5744 | 24.8 | 2051 | 34.5 | 2753 |
| 2015 | 39.2 | 2777 | 43.5 | 3018 |
| 2230 | 42.3 | 2776 | 47.0 | 3017 |
| 2460 | 42.3 | 2773 | 47.0 | 3014 |
| 2495 | 42.3 | 2697 | 47.0 | 2931 |
| 2520 | 42.8 | 2719 | 47.5 | 2955 |
| HDY 150 SP OAL = 2.745" | | | | |
| 5744 | 27.0 | 2160 | 33.5 | 2551 |
| 2015 | 37.4 | 2543 | 41.5 | 2764 |
| 2230 | 39.2 | 2495 | 43.5 | 2712 |
| 2460 | 40.5 | 2544 | 45.0 | 2765 |
| 2495 | 41.4 | 2582 | 46.0 | 2806 |
| 2520 | 41.9 | 2584 | 46.5 | 2809 |
| 4064 | 41.0 | 2539 | 45.5 | 2760 |
| 2700 | 43.7 | 2306 | 48.5 | 2506 |
| SRA 168 HPBT OAL = 2.800" | | | | |
| 5744 | 28.0 | 2150 | 31.5 | 2376 |
| 2015 | 36.0 | 2431 | 40.0 | 2642 |
| 2230 | 37.8 | 2401 | 42.0 | 2610 |
| 2460 | 38.3 | 2393 | 42.5 | 2601 |
| 2495 | 40.1 | 2442 | 44.5 | 2654 |
| 2520 | 40.5 | 2495 | 45.0 | 2712 |
| 4064 | 41.4 | 2486 | 46.0 | 2702 |
| 2700 | 42.3 | 2294 | 47.0 | 2493 |
| NOS 180 BT OAL = 2.800" | | | | |
| 5744 | 28.0 | 2117 | 30.0 | 2235 |
| 2230 | 36.0 | 2244 | 40.0 | 2439 |
| 2460 | 37.4 | 2276 | 41.5 | 2474 |
| 2495 | 38.7 | 2385 | 43.0 | 2592 |
| 2520 | 40.1 | 2407 | 44.5 | 2616 |
| 4064 | 37.8 | 2269 | 42.0 | 2466 |
| 2700 | 42.3 | 2272 | 47.0 | 2470 |

NOTE: Some military cases have lower case capacity than commercial brass cases and may require reduction of charge weight by 8–12%. Use extra caution when loading with military brass.

WARNING: Always start at MINIMUM loads listed above as START CHG. See explanation on page 3.

7.62x54mm RUSSIAN

| Gun | DOUGLAS | Barrel length | 24" |
|--------------------------------|------------|---------------|--------------------|
| Primer | CCI 250 | Case | NORMA |
| Powder | Start Chg. | Velocity | Max. Chg. Velocity |
| (L) 180 RN OAL = 2.830" | | | |
| 4350 | 45.0 | 2244 | 50.0 2439 |
| 3100 | 47.7 | 2156 | 53.0 2343 |
| 8700 | 49.5 | 1673 | 55.0 1819 |
| SRA 150 SP OAL = 2.850" | | | |
| 4350 | 48.6 | 2459 | 54.0 2673 |
| 3100 | 49.5 | 2268 | 55.0 2465 |
| 8700 | 52.2 | 1746 | 58.0 1898 |
| SRA 180 SP OAL = 2.900" | | | |
| 4350 | 45.9 | 2297 | 51.0 2497 |
| 3100 | 49.5 | 2260 | 55.0 2457 |
| 8700 | 51.3 | 1669 | 57.0 1814 |

.30/06 SPRINGFIELD

| Gun | WILSON | Barrel length | 24" |
|---------------------------------|-------------|---------------|--------------------|
| Primer | CCI 200/250 | Case | IMI |
| Powder | Start Chg. | Velocity | Max. Chg. Velocity |
| (L) 152 RN* OAL = 3.035" | | | |
| 5744 | 30.2 | 2255 | 33.5 2451 |
| 2015 | 36.0 | 2413 | 40.0 2623 |
| 2230 | 36.9 | 2379 | 41.0 2586 |
| 2460 | 36.9 | 2390 | 41.0 2598 |
| 2495 | 37.8 | 2240 | 42.0 2435 |
| 2520 | 37.8 | 2375 | 42.0 2582 |
| 4064 | 41.4 | 2390 | 46.0 2598 |
| 8700 | 54.0 | 1840 | 60.0 2000 |
| (L) 180 RN* OAL = 3.015" | | | |
| 5744 | 28.8 | 2150 | 32.0 2337 |
| 2015 | 36.0 | 2272 | 40.0 2470 |
| 2230 | 36.9 | 2228 | 41.0 2422 |
| 2460 | 36.9 | 2214 | 41.0 2406 |
| 2495 | 37.8 | 2254 | 42.0 2450 |
| 2520 | 37.8 | 2219 | 42.0 2412 |
| 4064 | 40.5 | 2246 | 45.0 2441 |
| 8700 | 54.0 | 1839 | 60.0 1999 |
| (L) 210 RN* OAL = 3.195" | | | |
| 5744 | 27.0 | 1859 | 30.0 2021 |
| 2015 | 32.4 | 2013 | 36.0 2188 |
| 2230 | 34.2 | 2011 | 38.0 2186 |
| 2460 | 34.7 | 2016 | 38.5 2191 |
| 2495 | 36.0 | 2054 | 40.0 2233 |
| 2520 | 36.0 | 2053 | 40.0 2232 |
| 4064 | 38.7 | 2120 | 43.0 2304 |
| 8700 | 54.0 | 1853 | 60.0 2014 |

.30/06 SPRINGFIELD (CONT'D)

| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
|----------------------------------|------------|----------|-----------|----------|
| HDY 110 RN OAL = 2.900" | | | | |
| 2015 | 48.2 | 3104 | 53.5 | 3374 |
| 2230 | 51.3 | 3114 | 57.0 | 3385 |
| 2460 | 52.7 | 3147 | 58.5 | 3421 |
| 2495 | 52.2 | 3170 | 58.0 | 3446 |
| 2520 | 54.0 | 3161 | 60.0 | 3436 |
| 4064 | 52.2 | 3129 | 58.0 | 3401 |
| 2700 | 55.8 | 3018 | 62.0 | 3280 |
| SRA 125 SP OAL = 3.150" | | | | |
| 5744 | 26.0 | 2046 | 42.5 | 3037 |
| 2015 | 46.8 | 2934 | 52.0 | 3189 |
| 2230 | 48.0 | 2918 | 53.3 | 3172 |
| 2460 | 48.2 | 2875 | 53.5 | 3125 |
| 2495 | 48.6 | 2962 | 54.0 | 3220 |
| 2520 | 48.6 | 2876 | 54.0 | 3126 |
| 4064 | 51.3 | 3023 | 57.0 | 3286 |
| 2700 | 55.8 | 2939 | 62.0 | 3195 |
| 4350 | 54.0 | 2661 | 60.0 | 2892 |
| SRA 150 SP OAL = 3.250" | | | | |
| 5744 | 28.0 | 2058 | 41.0 | 2787 |
| 2015 | 43.2 | 2651 | 48.0 | 2881 |
| 2230 | 44.5 | 2636 | 49.4 | 2865 |
| 2460 | 44.6 | 2633 | 49.5 | 2862 |
| 2495 | 46.4 | 2674 | 51.5 | 2907 |
| 2520 | 46.1 | 2640 | 51.2 | 2870 |
| 4064 | 47.3 | 2769 | 52.5 | 3010 |
| 2700 | 53.1 | 2697 | 59.0 | 2932 |
| 4350 | 53.1 | 2590 | 59.0 | 2815 |
| 3100 | 53.1 | 2401 | 59.0 | 2610 |
| SRA 168 HPBT OAL = 3.295" | | | | |
| 5744 | 29.0 | 2106 | 38.5 | 2621 |
| 2015 | 41.0 | 2493 | 45.5 | 2710 |
| 2230 | 41.4 | 2450 | 46.0 | 2663 |
| 2460 | 42.0 | 2446 | 46.7 | 2659 |
| 2495 | 42.3 | 2490 | 47.0 | 2707 |
| 2520 | 42.8 | 2467 | 47.5 | 2681 |
| 4064 | 46.4 | 2601 | 51.5 | 2827 |
| 2700 | 48.6 | 2513 | 54.0 | 2732 |
| 4350 | 53.1 | 2599 | 59.0 | 2825 |
| 3100 | 53.1 | 2405 | 59.0 | 2614 |
| SRA 180 HPBT OAL = 3.290" | | | | |
| 5744 | 29.5 | 2083 | 37.0 | 2486 |
| 2015 | 40.1 | 2381 | 44.5 | 2588 |
| 2230 | 39.6 | 2363 | 44.0 | 2568 |
| 2460 | 41.2 | 2358 | 45.8 | 2563 |
| 2495 | 41.0 | 2387 | 45.5 | 2595 |
| 2520 | 42.1 | 2378 | 46.8 | 2585 |
| 4064 | 43.7 | 2488 | 48.5 | 2704 |
| 2700 | 49.5 | 2434 | 55.0 | 2646 |
| 4350 | 51.3 | 2498 | 57.0 | 2715 |
| 3100 | 53.1 | 2402 | 59.0 | 2611 |

WARNING: Always start at MINIMUM loads listed above as START CHG. See explanation on page 3.

*CCI 250 primer used.

.30/06 SPRINGFIELD (CONT'D)

| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
|-------------------|--------------|----------|-----------|----------|
| NOS 200 SP | OAL = 3.295" | | | |
| 2015 | 37.8 | 2156 | 42.0 | 2343 |
| 2230 | 39.2 | 2195 | 43.5 | 2386 |
| 2460 | 40.1 | 2235 | 44.5 | 2429 |
| 2495 | 38.7 | 2189 | 43.0 | 2379 |
| 2520 | 40.5 | 2237 | 45.0 | 2432 |
| 4064 | 41.4 | 2277 | 46.0 | 2475 |
| 2700 | 46.4 | 2246 | 51.5 | 2441 |
| 4350 | 49.5 | 2363 | 55.0 | 2569 |
| 3100 | 53.1 | 2356 | 59.0 | 2561 |
| 8700 | 55.8 | 2012 | 62.0 | 2187 |
| SRA 220 RN | OAL = 3.200" | | | |
| 5744 | 32.5 | 2058 | 35.5 | 2210 |
| 2015 | 37.8 | 2073 | 42.0 | 2253 |
| 2230 | 38.3 | 2068 | 42.5 | 2248 |
| 2460 | 38.7 | 2087 | 43.0 | 2268 |
| 2495 | 38.3 | 2044 | 42.5 | 2222 |
| 2520 | 39.6 | 2105 | 44.0 | 2288 |
| 4064 | 40.5 | 2130 | 45.0 | 2315 |
| 2700 | 44.6 | 2141 | 49.5 | 2327 |
| 4350 | 49.5 | 2270 | 55.0 | 2467 |
| 3100 | 53.1 | 2272 | 59.0 | 2470 |
| 8700 | 55.8 | 1995 | 62.0 | 2168 |

NOTE: Data listed above is for Sierra 220 RN. When loading for Sierra 220 HPBT, reduce start and maximum charges by 2 grains each.

NOTE: Some military cases have lower case capacity than commercial brass cases and may require reduction of charge weight by 8–12%. Use extra caution when loading with military brass.

.300 REMINGTON ULTRA MAG

| Gun | WISEMAN | Barrel length | 24" | |
|---------------------|--------------|---------------|-----------|----------|
| Primer | REM 9½M | Case | REM | |
| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
| (L) 168 RNGC | OAL = 3.475" | | | |
| 5744 | 22.5 | 1417 | 25.0 | 1540 |
| (L) 180 RNGC | OAL = 3.400" | | | |
| 5744 | 25.0 | 1604 | 38.0 | 2161 |
| NOS 125 BT | OAL = 3.600" | | | |
| 5744 | 45.0 | 2650 | 67.0 | 3578 |
| 4064 | 74.7 | 3364 | 83.0 | 3657 |
| 2700 | 74.7 | 3342 | 83.0 | 3633 |
| 4350 | 85.5 | 3456 | 95.0 | 3757 |
| 3100 (C) | 88.7 | 3421 | 98.5 | 3719 |
| 8700 (C) | 104.0 | 3169 | 115.5 | 3445 |

.300 REMINGTON ULTRA MAG (CONT'D)

| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
|---------------------|--------------|----------|-----------|----------|
| BAR 150 X | OAL = 3.600" | | | |
| 5744 | 40.0 | 2340 | 62.0 | 3216 |
| 4064 | 66.6 | 2997 | 74.0 | 3258 |
| 2700 | 67.5 | 2990 | 75.0 | 3250 |
| 4350 | 76.5 | 3122 | 85.0 | 3394 |
| 3100 (C) | 80.1 | 3110 | 89.0 | 3380 |
| 8700 (C) | 102.6 | 3180 | 114.0 | 3456 |
| NOS 165 BT | OAL = 3.600" | | | |
| 5744 | 39.0 | 2215 | 61.0 | 3092 |
| 4064 | 66.6 | 2868 | 74.0 | 3117 |
| 2700 | 64.8 | 2854 | 72.0 | 3102 |
| 4350 | 74.7 | 2947 | 83.0 | 3203 |
| 3100 (C) | 81.0 | 3021 | 90.0 | 3284 |
| 8700 (C) | 101.7 | 3025 | 113.0 | 3288 |
| SPR 165 GS | OAL = 3.550" | | | |
| 5744 | 40.0 | 2277 | 61.0 | 3062 |
| 4064 | 63.9 | 2838 | 71.0 | 3085 |
| 2700 | 65.7 | 2852 | 73.0 | 3100 |
| 4350 | 72.5 | 2972 | 80.5 | 3230 |
| 3100 (C) | 79.2 | 3025 | 88.0 | 3288 |
| 8700 (C) | 101.7 | 3099 | 113.0 | 3369 |
| SWF 165 A-F | OAL = 3.550" | | | |
| 5744 | 38.0 | 2184 | 60.0 | 3044 |
| 4064 | 63.9 | 2846 | 71.0 | 3093 |
| 2700 | 67.5 | 2887 | 75.0 | 3138 |
| 4350 | 76.5 | 3014 | 85.0 | 3276 |
| 3100 (C) | 82.8 | 3088 | 92.0 | 3356 |
| 8700 (C) | 101.7 | 2978 | 113.0 | 3237 |
| HDY 180 SPBT | OAL = 3.600" | | | |
| 5744 | 38.0 | 2151 | 59.0 | 2937 |
| 4064 | 63.9 | 2775 | 71.0 | 3016 |
| 2700 | 66.6 | 2793 | 74.0 | 3036 |
| 4350 | 72.9 | 2886 | 81.0 | 3137 |
| 3100 (C) | 80.1 | 2996 | 89.0 | 3256 |
| 8700 (C) | 101.7 | 2994 | 113.0 | 3254 |
| SPR 180 GS | OAL = 3.550" | | | |
| 5744 | 38.0 | 2134 | 58.0 | 2882 |
| 4064 | 64.4 | 2738 | 71.5 | 2976 |
| 2700 | 64.4 | 2737 | 71.5 | 2975 |
| 4350 | 72.0 | 2857 | 80.0 | 3105 |
| 3100 (C) | 78.3 | 2927 | 87.0 | 3182 |
| 8700 (C) | 101.7 | 3040 | 113.0 | 3304 |
| SWF 180 A-F | OAL = 3.550" | | | |
| 5744 | 38.0 | 2111 | 59.0 | 2939 |
| 4064 | 61.7 | 2700 | 68.5 | 2935 |
| 2700 | 66.6 | 2763 | 74.0 | 3003 |
| 4350 | 73.8 | 2866 | 82.0 | 3115 |
| 3100 (C) | 80.1 | 2949 | 89.0 | 3205 |
| 8700 (C) | 100.8 | 2934 | 112.0 | 3189 |

WARNING: Always start at MINIMUM loads listed above as START CHG. See explanation on page 3.
(C) Denotes a compressed load for maximum charge.

.300 REMINGTON ULTRA MAG (CONT'D)

| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
|----------------------------------|------------|----------|-----------|----------|
| NOS 180 PART OAL = 3.600" | | | | |
| 5744 | 38.0 | 2118 | 58.0 | 2892 |
| 4064 | 65.7 | 2743 | 73.0 | 2981 |
| 2700 | 67.1 | 2766 | 74.5 | 3007 |
| 4350 | 73.8 | 2878 | 82.0 | 3128 |
| 3100 (C) | 80.1 | 2955 | 89.0 | 3212 |
| 8700 (C) | 101.7 | 3057 | 113.0 | 3323 |
| BAR 180 X OAL = 3.600" | | | | |
| 5744 | 38.0 | 2063 | 58.0 | 2876 |
| 4064 | 63.9 | 2686 | 71.0 | 2920 |
| 2700 | 62.6 | 2652 | 69.5 | 2883 |
| 4350 | 67.1 | 2703 | 74.5 | 2938 |
| 3100 (C) | 77.4 | 2876 | 86.0 | 3126 |
| 8700 (C) | 101.7 | 3023 | 113.0 | 3286 |
| SPR 200 SP OAL = 3.600" | | | | |
| 5744 | 38.0 | 2014 | 56.0 | 2689 |
| 4064 | 56.7 | 2448 | 63.0 | 2661 |
| 2700 | 58.5 | 2496 | 65.0 | 2713 |
| 4350 | 62.1 | 2565 | 69.0 | 2788 |
| 3100 | 72.5 | 2702 | 80.5 | 2937 |
| 8700 | 95.4 | 2869 | 106.0 | 3119 |
| SPR 200 GS OAL = 3.550" | | | | |
| 5744 | 38.0 | 2043 | 56.0 | 2772 |
| 4064 | 58.5 | 2499 | 65.0 | 2716 |
| 2700 | 60.3 | 2523 | 67.0 | 2742 |
| 4350 | 65.7 | 2633 | 73.0 | 2862 |
| 3100 | 72.9 | 2725 | 81.0 | 2962 |
| 8700 (C) | 99.0 | 2902 | 110.0 | 3154 |
| SWF 200 A-F OAL = 3.550" | | | | |
| 5744 | 38.0 | 2024 | 56.0 | 2731 |
| 4064 | 57.6 | 2490 | 64.0 | 2706 |
| 2700 | 65.7 | 2646 | 73.0 | 2876 |
| 4350 | 71.1 | 2703 | 79.0 | 2938 |
| 3100 | 77.4 | 2777 | 86.0 | 3018 |
| 8700 (C) | 99.9 | 2866 | 111.0 | 3115 |
| SRA 220 RN OAL = 3.570" | | | | |
| 5744 | 38.0 | 1921 | 57.0 | 2615 |
| 4064 | 58.5 | 2381 | 65.0 | 2588 |
| 2700 | 60.3 | 2425 | 67.0 | 2636 |
| 4350 | 62.1 | 2433 | 69.0 | 2645 |
| 3100 | 74.7 | 2651 | 83.0 | 2881 |
| 8700 (C) | 95.4 | 2732 | 106.0 | 2970 |

.300 WINCHESTER MAGNUM

| Gun | HS PRECISION | Barrel length | 24" | |
|--------------------------------|--------------|---------------|-----------|----------|
| Primer | CCI 200 | Case | REM | |
| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
| SRA 110 HP OAL = 3.170" | | | | |
| 2520 | 60.3 | 3231 | 67.0 | 3512 |
| 2700 | 70.7 | 3364 | 78.5 | 3656 |
| 4350 | 71.6 | 3258 | 79.5 | 3541 |
| 3100 | 73.8 | 3145 | 82.0 | 3419 |

.300 WINCHESTER MAGNUM (CONT'D)

| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
|----------------------------------|------------|----------|-----------|----------|
| HDY 130 SP OAL = 3.300" | | | | |
| 2520 | 56.7 | 2978 | 63.0 | 3237 |
| 2700 | 66.2 | 3115 | 73.5 | 3386 |
| 4350 | 69.3 | 3108 | 77.0 | 3378 |
| 3100 | 73.8 | 3108 | 82.0 | 3378 |
| SRA 150 SP OAL = 3.380" | | | | |
| 5744 | 32.0 | 2091 | 52.0 | 3030 |
| 2520 | 52.2 | 2722 | 58.0 | 2959 |
| 4064 | 55.8 | 2837 | 62.0 | 3084 |
| 2700 | 62.6 | 2923 | 69.5 | 3177 |
| 4350 | 65.7 | 2892 | 73.0 | 3144 |
| 3100 | 68.4 | 2859 | 76.0 | 3108 |
| SRA 168 HPBT OAL = 3.475" | | | | |
| 5744 | 33.0 | 2063 | 51.0 | 2899 |
| 4064 | 54.9 | 2735 | 61.0 | 2973 |
| 2700 | 60.3 | 2722 | 67.0 | 2959 |
| 4350 | 64.8 | 2815 | 72.0 | 3060 |
| 3100 | 66.2 | 2709 | 73.5 | 2945 |
| SRA 180 SBT OAL = 3.450" | | | | |
| 5744 | 34.0 | 2097 | 49.0 | 2778 |
| 2700 | 59.4 | 2649 | 66.0 | 2879 |
| 4350 | 62.1 | 2662 | 69.0 | 2894 |
| 3100 | 64.8 | 2667 | 72.0 | 2899 |
| 8700 | 77.4 | 2588 | 86.0 | 2813 |
| SRA 200 HPBT OAL = 3.340" | | | | |
| 2700 | 55.8 | 2481 | 62.0 | 2697 |
| 4350 | 57.6 | 2480 | 64.0 | 2696 |
| 3100 | 62.1 | 2487 | 69.0 | 2703 |
| 8700 | 77.4 | 2527 | 86.0 | 2747 |
| SRA 220 RN OAL = 3.300" | | | | |
| 5744 | 37.0 | 2111 | 46.5 | 2497 |
| 2700 | 53.6 | 2249 | 59.5 | 2445 |
| 4350 | 58.5 | 2392 | 65.0 | 2600 |
| 3100 | 60.3 | 2355 | 67.0 | 2560 |
| 8700 | 77.4 | 2478 | 86.0 | 2694 |

.300 WINCHESTER SHORT MAGNUM

| Gun | WISEMAN | Barrel length | 24" | |
|----------------------------------|------------|---------------|-----------|----------|
| Primer | WIN LR | Case | WIN | |
| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
| SPR 150 SP OAL = 2.760" | | | | |
| 2700 | 61.7 | 2984 | 68.6 | 3243 |
| 4350 | 64.1 | 3039 | 71.2 | 3303 |
| SRA 165 SPBT OAL = 2.760" | | | | |
| 5744 | 27.5 | 1905 | 30.5 | 2071 |
| 2700 | 59.6 | 2846 | 66.2 | 3093 |
| 4350 | 61.7 | 2878 | 68.5 | 3128 |
| NOS 165 PART OAL = 2.760" | | | | |
| 2700 | 60.7 | 2881 | 67.4 | 3131 |
| 4350 | 61.0 | 2890 | 67.8 | 3141 |

WARNING: Always start at MINIMUM loads listed above as START CHG. See explanation on page 3.
(C) Denotes a compressed load for maximum charge.

.300 WINCHESTER SHORT MAGNUM (CONT'D)

| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
|----------------------------------|------------|----------|-----------|----------|
| SRA 180 SPBT OAL = 2.760" | | | | |
| 2700 | 58.1 | 2745 | 64.6 | 2984 |
| 4350 | 60.8 | 2782 | 67.5 | 3024 |
| SWF 180 A-F OAL = 2.760" | | | | |
| 2700 | 57.6 | 2722 | 64.0 | 2959 |
| 4350 | 58.2 | 2750 | 64.7 | 2989 |
| SPR 200 GS OAL = 2.760" | | | | |
| 2700 | 54.4 | 2528 | 60.4 | 2748 |
| 4350 (C) | 53.8 | 2514 | 59.8 | 2733 |

.303 BRITISH

| Gun | DOUGLAS | Barrel length | 24" | |
|--------------------------------|------------|---------------|-----------|----------|
| Primer | CCI 250 | Case | REM | |
| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
| (L) 180 RN OAL = 2.930" | | | | |
| 5744 | 25.2 | 1986 | 28.0 | 2159 |
| 2015 | 34.2 | 2265 | 38.0 | 2462 |
| 2230 | 35.1 | 2262 | 39.0 | 2459 |
| 2460 | 36.0 | 2282 | 40.0 | 2480 |
| 2495 | 39.6 | 2327 | 44.0 | 2529 |
| 2520 | 36.0 | 2252 | 40.0 | 2448 |
| 4064 | 39.6 | 2321 | 44.0 | 2523 |
| 2700 | 37.8 | 2127 | 42.0 | 2312 |
| 4350 | 41.4 | 2118 | 46.0 | 2302 |
| 3100 | 41.4 | 1898 | 46.0 | 2063 |
| 8700 | 43.2 | 1500 | 48.0 | 1630 |
| HDY 150 SP OAL = 3.010" | | | | |
| 5744 | 27.9 | 2220 | 31.0 | 2413 |
| 2015 | 36.9 | 2497 | 41.0 | 2714 |
| 2230 | 38.7 | 2488 | 43.0 | 2704 |
| 2460 | 39.6 | 2510 | 44.0 | 2728 |
| 2495 | 41.4 | 2509 | 46.0 | 2727 |
| 2520 | 41.4 | 2547 | 46.0 | 2769 |
| 4064 | 42.8 | 2535 | 47.5 | 2755 |
| 2700 | 43.2 | 2356 | 48.0 | 2561 |
| 4350 | 41.4 | 2074 | 46.0 | 2254 |
| SRA 180 SP OAL = 3.000" | | | | |
| 5744 | 26.1 | 2014 | 29.0 | 2189 |
| 2015 | 34.2 | 2226 | 38.0 | 2420 |
| 2230 | 36.0 | 2274 | 40.0 | 2472 |
| 2460 | 36.5 | 2247 | 40.5 | 2442 |
| 2495 | 39.6 | 2280 | 44.0 | 2478 |
| 2520 | 39.6 | 2363 | 44.0 | 2568 |
| 4064 | 40.5 | 2334 | 45.0 | 2537 |
| 2700 | 41.4 | 2234 | 46.0 | 2428 |
| 4350 | 41.4 | 2098 | 46.0 | 2280 |
| 3100 | 41.4 | 1879 | 46.0 | 2042 |

.32/20 WINCHESTER

| Gun | MARLIN | Barrel length | 22" | |
|---------------------------------|------------|---------------|-----------|----------|
| Primer | CCI 400 | Case | REM | |
| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
| (L) 100 SWC OAL = 1.545" | | | | |
| 5744 | 8.4 | 1107 | 9.3 | 1203 |
| SRA 90 JHC OAL = 1.565" | | | | |
| 5744 | 8.7 | 1123 | 9.7 | 1221 |
| HDY 100 XTP OAL = 1.585" | | | | |
| 5744 | 8.6 | 1134 | 9.5 | 1233 |

.32/40 WINCHESTER

| Gun | DOUGLAS | Barrel length | 24" | |
|----------------------------------|------------|---------------|-----------|----------|
| Primer | REM 9½ | Case | REM | |
| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
| (L) 170 FNGC OAL = 2.495" | | | | |
| 5744 | 18.0 | 1658 | 20.0 | 1802 |
| HDY 170 FN OAL = 2.575" | | | | |
| 5744 | 18.0 | 1635 | 20.0 | 1777 |

.32/40 SCHUETZEN

| Gun | DOUGLAS | Barrel length | 24" | |
|---------------------------------|------------|---------------|-----------|----------|
| Primer | REM 2½ | Case | REM | |
| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
| (L) 200 FN BREECH SEATED | | | | |
| 5744 | N/A | N/A | 11.0 | 1043 |
| 5744 | N/A | N/A | 12.5 | 1138 |
| 5744 | N/A | N/A | 14.0 | 1243 |
| 5744 | N/A | N/A | 15.5 | 1345 |

8x57mm JS (0.323")

| Gun | DOUGLAS | Barrel length | 24" | |
|--------------------------------|------------|---------------|-----------|----------|
| Primer | CCI 250 | Case | REM | |
| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
| HDY 150 SP OAL = 2.940" | | | | |
| 2015 | 42.3 | 2621 | 47.0 | 2849 |
| 2230 | 45.5 | 2674 | 50.5 | 2907 |
| 2460 | 45.9 | 2674 | 51.0 | 2906 |
| 2520 | 47.3 | 2719 | 52.5 | 2955 |
| HDY 170 RN OAL = 2.855" | | | | |
| 2015 | 41.0 | 2490 | 45.5 | 2707 |
| 2230 | 44.1 | 2524 | 49.0 | 2743 |
| 2460 | 44.1 | 2510 | 49.0 | 2728 |
| 2520 | 45.0 | 2532 | 50.0 | 2752 |
| HDY 220 SP OAL = 2.990" | | | | |
| 2015 | 36.9 | 2129 | 41.0 | 2314 |
| 2230 | 37.8 | 2112 | 42.0 | 2296 |
| 2460 | 39.2 | 2157 | 43.5 | 2345 |
| 2520 | 40.5 | 2163 | 45.0 | 2351 |
| 2700 (C) | 47.7 | 2247 | 53.0 | 2442 |
| 4350 (C) | 45.9 | 2092 | 51.0 | 2274 |

WARNING: Always start at MINIMUM loads listed above as START CHG. See explanation on page 3.
(C) Denotes a compressed load for maximum charge.

.338 LAPUA MAGNUM

| Gun | WISEMAN | Barrel length | 26" |
|----------------------------------|------------|---------------|--------------------|
| Primer | CCI 250 | Case | LAPUA |
| Powder | Start Chg. | Velocity | Max. Chg. Velocity |
| HDY 200 SP OAL = 3.560" | | | |
| 5744 | 36.0 | 1959 | 40.0 2129 |
| 2700 | 79.2 | 3015 | 88.0 3277 |
| 4350 | 84.6 | 3076 | 94.0 3344 |
| 3100 | 88.2 | 3057 | 98.0 3323 |
| SPR 250 GS OAL = 3.550" | | | |
| 2700 | 70.2 | 2610 | 78.0 2837 |
| 4350 | 75.6 | 2705 | 84.0 2940 |
| 3100 | 80.1 | 2724 | 89.0 2961 |
| NOS 250 PART OAL = 3.560" | | | |
| 2700 | 69.5 | 2619 | 77.2 2847 |
| 4350 | 73.8 | 2689 | 82.0 2923 |
| 3100 | 77.6 | 2707 | 86.2 2942 |
| SPR 275 SP OAL = 3.555" | | | |
| 2700 | 68.0 | 2466 | 75.6 2680 |
| 4350 | 73.4 | 2549 | 81.5 2771 |
| 3100 | 78.3 | 2588 | 87.0 2813 |
| SWF 275 A-F OAL = 3.460" | | | |
| 2700 | 66.6 | 2455 | 74.0 2668 |
| 4350 | 69.5 | 2502 | 77.2 2720 |
| 3100 | 73.2 | 2533 | 81.3 2753 |

.338 REMINGTON ULTRA MAG

| Gun | WISEMAN | Barrel length | 24" |
|----------------------------------|------------|---------------|--------------------|
| Primer | REM 9½M | Case | REM |
| Powder | Start Chg. | Velocity | Max. Chg. Velocity |
| (L) 193 FPGC OAL = 3.310" | | | |
| 5744 | 25.0 | 1595 | 40.0 2185 |
| HDY 200 SP OAL = 3.575" | | | |
| 5744 | N/A | N/A | 40.0 2123 |
| 2700 | 74.3 | 2866 | 82.5 3115 |
| 4350 | 81.0 | 2941 | 90.0 3197 |
| 3100 (C) | 85.5 | 2968 | 95.0 3226 |
| 8700 (C) | 100.8 | 2683 | 112.0 2916 |
| HDY 225 SP OAL = 3.575" | | | |
| 5744 | N/A | N/A | 40.0 2083 |
| 2700 | 72.0 | 2673 | 80.0 2905 |
| 4350 | 79.2 | 2798 | 88.0 3041 |
| 3100 (C) | 82.8 | 2796 | 92.0 3039 |
| 8700 (C) | 95.4 | 2559 | 106.0 2781 |
| SRA 250 SPBT OAL = 3.575" | | | |
| 5744 | N/A | N/A | 42.0 2113 |
| 2700 | 64.8 | 2494 | 72.0 2711 |
| 4350 | 74.3 | 2631 | 82.5 2860 |
| 3100 (C) | 78.8 | 2645 | 87.5 2875 |
| 8700 (C) | 93.6 | 2472 | 104.0 2687 |

.338 REMINGTON ULTRA MAG (CONT'D)

| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
|---------------------------------|------------|----------|-----------|----------|
| SWF 275 A-F OAL = 3.490" | | | | |
| 5744 | N/A | N/A | 44.0 | 2082 |
| 2700 | 59.4 | 2273 | 66.0 | 2471 |
| 4350 | 66.6 | 2379 | 74.0 | 2586 |
| 3100 (C) | 75.6 | 2480 | 84.0 | 2696 |
| 8700 (C) | 88.2 | 2291 | 98.0 | 2490 |

.338 WINCHESTER MAGNUM

| Gun | HS PRECISION | Barrel length | 24" | |
|----------------------------------|--------------|---------------|--------------------|------|
| Primer | CCI 250 | Case | FED | |
| Powder | Start Chg. | Velocity | Max. Chg. Velocity | |
| (L) 200 FNGC OAL = 3.200" | | | | |
| 5744 | 28.0 | 1815 | 38.0 | 2302 |
| HDY 200 SP OAL = 3.335" | | | | |
| 5744 | 36.0 | 2061 | 52.0 | 2790 |
| 2495 | 51.3 | 2582 | 57.0 | 2807 |
| 2520 | 56.3 | 2616 | 62.5 | 2843 |
| 4064 | 56.7 | 2632 | 63.0 | 2861 |
| 2700 | 63.5 | 2666 | 70.5 | 2898 |
| 4350 | 65.7 | 2714 | 73.0 | 2950 |
| 3100 | 68.4 | 2606 | 76.0 | 2833 |
| 8700 | 72.0 | 2119 | 80.0 | 2303 |
| HDY 225 SP OAL = 3.340" | | | | |
| 2495 | 48.6 | 2378 | 54.0 | 2585 |
| 2520 | 50.4 | 2373 | 56.0 | 2579 |
| 4064 | 54.5 | 2486 | 60.5 | 2702 |
| 2700 | 59.4 | 2487 | 66.0 | 2703 |
| 4350 | 63.5 | 2576 | 70.5 | 2800 |
| 3100 | 65.7 | 2467 | 73.0 | 2682 |
| 8700 | 71.1 | 2067 | 79.0 | 2247 |
| SRA 250 SBT OAL = 3.340" | | | | |
| 5744 | 38.0 | 2056 | 47.0 | 2466 |
| 2495 | 46.8 | 2249 | 52.0 | 2445 |
| 2520 | 50.4 | 2276 | 56.0 | 2474 |
| 4064 | 52.2 | 2344 | 58.0 | 2548 |
| 2700 | 56.7 | 2343 | 63.0 | 2547 |
| 4350 | 58.5 | 2379 | 65.0 | 2586 |
| 3100 | 63.9 | 2398 | 71.0 | 2607 |
| 8700 | 72.9 | 2151 | 81.0 | 2338 |
| SPR 275 SSP OAL = 3.330" | | | | |
| 5744 | 40.0 | 2036 | 45.0 | 2258 |
| 2495 | 45.0 | 2063 | 50.0 | 2242 |
| 2520 | 47.7 | 2112 | 53.0 | 2296 |
| 4064 | 49.5 | 2160 | 55.0 | 2348 |
| 2700 | 57.2 | 2255 | 63.5 | 2451 |
| 4350 | 57.6 | 2262 | 64.0 | 2459 |
| 3100 | 61.2 | 2237 | 68.0 | 2432 |
| 8700 | 70.2 | 2113 | 78.0 | 2297 |

WARNING: Always start at MINIMUM loads listed above as START CHG. See explanation on page 3.
(C) Denotes a compressed load for maximum charge.

.35 REMINGTON

| Gun | DOUGLAS | Barrel length | 24" | |
|--------------------------------|------------|---------------|-----------|----------|
| Primer | CCI 200 | Case | REM | |
| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
| (L) 200 RN OAL = 2.410" | | | | |
| 2230 | 29.3 | 1756 | 32.5 | 1909 |
| 2460 | 30.6 | 1804 | 34.0 | 1961 |
| 2520 | 34.2 | 1917 | 38.0 | 2084 |
| SPR 180 FN OAL = 2.465" | | | | |
| 2230 | 32.9 | 1896 | 36.5 | 2061 |
| 2460 | 33.3 | 1922 | 37.0 | 2089 |
| 2520 | 35.1 | 1952 | 39.0 | 2122 |
| SRA 200 RN OAL = 2.470" | | | | |
| 2230 | 31.5 | 1823 | 35.0 | 1982 |
| 2460 | 33.3 | 1866 | 37.0 | 2028 |
| 2520 | 35.1 | 1905 | 39.0 | 2071 |

.35 WHELEN

| Gun | DOUGLAS | Barrel length | 24" | |
|----------------------------------|------------|---------------|-----------|----------|
| Primer | CCI 200 | Case | REM | |
| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
| (L) 205 RNGC OAL = 3.045" | | | | |
| 5744 | 34.2 | 2256 | 38.0 | 2452 |
| (L) 250 SIL OAL = 3.250" | | | | |
| 5744 | 32.4 | 1999 | 36.0 | 2173 |
| (L) 280 RNGC OAL = 3.050" | | | | |
| 5744 | 30.6 | 1854 | 34.0 | 2015 |
| HDY 200 SP OAL = 3.140" | | | | |
| 2015 | 48.6 | 2574 | 54.0 | 2798 |
| 2230 | 49.5 | 2487 | 55.0 | 2703 |
| 2460 | 51.3 | 2510 | 57.0 | 2728 |
| 2520 | 52.7 | 2535 | 58.5 | 2755 |
| 2700 (C) | 58.5 | 2524 | 65.0 | 2744 |
| 4350 (C) | 53.1 | 2168 | 59.0 | 2357 |
| 3100 (C) | 54.0 | 1967 | 60.0 | 2138 |
| SRA 225 SBT OAL = 3.280" | | | | |
| 2015 | 44.1 | 2350 | 49.0 | 2554 |
| 2230 | 47.3 | 2367 | 52.5 | 2573 |
| 2460 | 48.6 | 2404 | 54.0 | 2613 |
| 2520 | 49.5 | 2391 | 55.0 | 2599 |
| 2700 | 55.4 | 2393 | 61.5 | 2601 |
| 4350 (C) | 53.1 | 2217 | 59.0 | 2410 |
| 3100 (C) | 54.0 | 1992 | 60.0 | 2165 |
| SPR 250 SP OAL = 3.245" | | | | |
| 2015 | 42.8 | 2218 | 47.5 | 2411 |
| 2230 | 45.9 | 2235 | 51.0 | 2429 |
| 2460 | 46.4 | 2237 | 51.5 | 2432 |
| 2520 | 46.8 | 2218 | 52.0 | 2411 |
| 2700 (C) | 54.0 | 2237 | 60.0 | 2431 |
| 4350 (C) | 54.0 | 2193 | 60.0 | 2384 |
| 3100 (C) | 54.0 | 1965 | 60.0 | 2136 |

.375 H&H MAGNUM

| Gun | DOUGLAS | Barrel length | 25" | |
|---------------------------------|------------|---------------|-----------|----------|
| Primer | REM 9½M | Case | WIN | |
| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
| SRA 200 FN OAL = 3.375" | | | | |
| 5744 | 40.0 | 2058 | 60.0 | 2902 |
| SPR 235 SP OAL = 3.450" | | | | |
| 2520 | 63.9 | 2645 | 71.0 | 2875 |
| 2700 | 72.0 | 2649 | 80.0 | 2879 |
| 4350 (C) | 77.4 | 2608 | 86.0 | 2835 |
| 3100 (C) | 77.4 | 2362 | 86.0 | 2567 |
| HDY 270 SP OAL = 3.570" | | | | |
| 5744 | 43.0 | 2077 | 54.0 | 2489 |
| 2700 (C) | 72.0 | 2476 | 80.0 | 2691 |
| 4350 (C) | 75.6 | 2494 | 84.0 | 2711 |
| 3100 (C) | 77.4 | 2317 | 86.0 | 2519 |
| SRA 300 SBT OAL = 3.585" | | | | |
| 5744 | 46.0 | 2021 | 51.0 | 2217 |
| 2700 | 67.5 | 2346 | 75.0 | 2550 |
| 4350 (C) | 71.1 | 2343 | 79.0 | 2547 |
| 3100 (C) | 74.7 | 2257 | 83.0 | 2453 |
| BAR 350 RN OAL = 3.560" | | | | |
| 2700 | 60.3 | 2078 | 67.0 | 2259 |
| 4350 (C) | 67.5 | 2167 | 75.0 | 2355 |
| 3100 (C) | 65.7 | 1938 | 73.0 | 2106 |

.375 REMINGTON ULTRA MAG

| Gun | WISEMAN | Barrel length | 26" | |
|----------------------------------|------------|---------------|-----------|----------|
| Primer | REM 9½ | Case | REM | |
| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
| SPR 235 SP OAL = 3.595" | | | | |
| 4350 (C) | 92.7 | 2896 | 103.0 | 3148 |
| SRA 250 SBT OAL = 3.595" | | | | |
| 5744 | 43.2 | 1937 | 48.0 | 2105 |
| 2700 | 86.4 | 2777 | 96.0 | 3018 |
| 4350 (C) | 89.1 | 2793 | 99.0 | 3036 |
| NOS 260 PART OAL = 3.565" | | | | |
| 2700 | 81.9 | 2676 | 91.0 | 2909 |
| 4350 (C) | 86.6 | 2732 | 96.2 | 2970 |
| HDY 270 SP OAL = 3.555" | | | | |
| 2700 | 83.7 | 2646 | 93.0 | 2876 |
| 4350 (C) | 89.1 | 2706 | 99.0 | 2941 |
| SWF 270 A-F OAL = 3.550" | | | | |
| 2700 | 81.0 | 2606 | 90.0 | 2833 |
| 4350 (C) | 88.2 | 2705 | 98.0 | 2940 |
| HDY 300 RN OAL = 3.570" | | | | |
| 2700 | 81.9 | 2511 | 91.0 | 2729 |
| 4350 (C) | 87.3 | 2575 | 97.0 | 2799 |
| BAR 300 X OAL = 3.575" | | | | |
| 2700 | 73.8 | 2392 | 82.0 | 2600 |
| 4350 (C) | 82.8 | 2471 | 92.0 | 2686 |

WARNING: Always start at MINIMUM loads listed above as START CHG. See explanation on page 3.

(C) Denotes a compressed load for maximum charge.

.38/55 WINCHESTER

| Gun Primer | DOUGLAS CCI 300 | Barrel length Case | 24" WIN | |
|---------------|--------------------|-----------------------|------------------|-----------------|
| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
| (L) 240 FN | OAL = 2.510" | | | |
| 5744 | 19.8 | 1473 | 22.0 | 1601 |
| 2015 | 28.4 | 1788 | 31.5 | 1943 |
| 2495 (C) | 34.2 | 1858 | 38.0 | 2020 |
| SRA 200 FN | OAL = 2.590" | | | |
| 5744 | 23.0 | 1705 | 25.5 | 1853 |
| 2015 | 32.4 | 1961 | 36.0 | 2132 |
| 2495 (C) | 36.0 | 1874 | 40.0 | 2037 |
| HDY 220 FN | OAL = 2.580" | | | |
| 5744 | 21.2 | 1516 | 23.5 | 1648 |
| 2015 | 28.8 | 1735 | 32.0 | 1886 |
| 2495 (C) | 34.2 | 1881 | 38.0 | 2045 |
| BAR 255 SP | OAL = 2.475" | | | |
| 5744 | 19.4 | 1277 | 21.5 | 1388 |
| 2015 | 26.8 | 1485 | 29.8 | 1614 |
| 2495 (C) | 32.4 | 1589 | 36.0 | 1727 |

.416 REMINGTON MAGNUM

| Gun Primer | DOUGLAS REM 9½M | Barrel length Case | 24" REM | |
|---------------|--------------------|-----------------------|------------------|-----------------|
| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
| (L) 350 FN | OAL = 3.430" | | | |
| 5744 | 49.5 | 2086 | 55.0 | 2267 |
| BAR 350 X | OAL = 3.680" | | | |
| 2015 | 67.5 | 2409 | 75.0 | 2618 |
| 2230 | 71.1 | 2433 | 79.0 | 2645 |
| 2460 | 71.1 | 2402 | 79.0 | 2611 |
| 2520 | 70.2 | 2358 | 78.0 | 2563 |
| 4064 | 74.7 | 2337 | 83.0 | 2540 |
| 2700 (C) | 77.4 | 2333 | 86.0 | 2536 |
| 4350 (C) | 72.0 | 2043 | 80.0 | 2221 |
| HDY 400 RN | OAL = 3.580" | | | |
| 2015 | 63.0 | 2200 | 70.0 | 2391 |
| 2230 | 65.7 | 2190 | 73.0 | 2380 |
| 2460 | 66.6 | 2192 | 74.0 | 2383 |
| 2520 | 67.5 | 2194 | 75.0 | 2385 |
| 4064 | 72.0 | 2225 | 80.0 | 2419 |
| 2700 | 76.5 | 2247 | 85.0 | 2442 |
| 4350 (C) | 78.3 | 2253 | 87.0 | 2449 |

.416 RIGBY

| Gun Primer | DOUGLAS FED 215 | Barrel length Case | 26" FED | |
|---------------|--------------------|-----------------------|------------------|-----------------|
| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
| (L) 350 FN | OAL = 3.480" | | | |
| 5744 | 49.5 | 1999 | 55.0 | 2173 |

.416 RIGBY (CONT'D)

| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
|---------------|-------------------|-----------------|------------------|-----------------|
| SPR 400 SP | OAL = 3.635" | | | |
| 3100 | 90.0 | 2150 | 100.0 | 2337 |
| 8700 (C) | 108.0 | 1968 | 120.0 | 2139 |

.40/65 WINCHESTER

| Gun Primer | C. SHARPS WIN WLR | Barrel length Case | 36" WIN | |
|---------------|----------------------|-----------------------|------------------|-----------------|
| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
| (L) 260 FN | OAL = 2.540" | | | |
| 5744 | 23.4 | 1519 | 26.0 | 1651 |
| (L) 300 FN | OAL = 2.660" | | | |
| 5744 | 21.6 | 1394 | 24.0 | 1515 |
| 2495 | 38.7 | 1724 | 43.0 | 1874 |
| 8700 (C) | 54.0 | 1312 | 60.0 | 1426 |
| (L) 350 SP | OAL = 2.660" | | | |
| 5744 | 20.7 | 1321 | 23.0 | 1436 |
| 2495 | 36.0 | 1627 | 40.0 | 1768 |
| 8700 (C) | 48.6 | 1155 | 54.0 | 1255 |
| (L) 400 SP | OAL = 2.830" | | | |
| 5744 | 20.7 | 1255 | 23.0 | 1364 |
| 2495 | 33.3 | 1502 | 37.0 | 1633 |
| 8700 (C) | 46.8 | 1088 | 52.0 | 1183 |

.444 MARLIN

| Gun Primer | DOUGLAS REM 9½ | Barrel length Case | 24" REM | |
|---------------|-------------------|-----------------------|------------------|-----------------|
| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
| (L) 200 FN | OAL = 2.560" | | | |
| 5744 | 34.2 | 2047 | 38.0 | 2225 |
| (L) 240 SWC | OAL = 2.570" | | | |
| 5744 | 32.4 | 1887 | 36.0 | 2051 |
| HDY 200 XTP | OAL = 2.520" | | | |
| 5744 | 36.0 | 2113 | 40.0 | 2297 |
| SRA 240 JHC | OAL = 2.520" | | | |
| 5744 | 33.3 | 1903 | 37.0 | 2069 |
| HDY 265 FP | OAL = 2.570" | | | |
| 5744 | 31.5 | 1769 | 35.0 | 1923 |

.450 MARLIN

| Gun Primer | DOUGLAS CCI 250 | Barrel length Case | 24" REM | |
|---------------|--------------------|-----------------------|------------------|-----------------|
| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
| (L) 300 FN | OAL = 2.550" | | | |
| 5744 | 38.7 | 1928 | 43.0 | 2096 |
| (L) 405 FN | OAL = 2.550" | | | |
| 5744 | 36.0 | 1716 | 40.0 | 1865 |

WARNING: Always start at MINIMUM loads listed above as START CHG. See explanation on page 3.
(C) Denotes a compressed load for maximum charge.

.450 MARLIN (CONT'D)

| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
|----------------------------------|------------|----------|-----------|----------|
| SRA 300 FNHP OAL = 2.550" | | | | |
| 5744 | 43.2 | 2034 | 48.0 | 2211 |
| 1680 | 52.2 | 2198 | 58.0 | 2389 |
| 2015 (C) | 54.9 | 2217 | 61.0 | 2410 |
| 2230 | 58.1 | 2226 | 64.5 | 2420 |
| 2460 (C) | 60.3 | 2214 | 67.0 | 2407 |
| 2495 (C) | 59.4 | 2001 | 66.0 | 2175 |
| 2520 (C) | 56.7 | 2034 | 63.0 | 2211 |
| SPR 350 FNHP OAL = 2.550" | | | | |
| 5744 | 39.4 | 1813 | 43.8 | 1971 |
| 1680 | 46.1 | 1919 | 51.2 | 2086 |
| 2015 (C) | 50.0 | 2030 | 55.5 | 2207 |
| 2230 (C) | 55.8 | 2067 | 62.0 | 2247 |
| 2460 (C) | 55.8 | 2010 | 62.0 | 2185 |
| 2495 (C) | 54.9 | 1892 | 61.0 | 2057 |
| 2520 (C) | 55.8 | 1982 | 62.0 | 2154 |
| 2700 (C) | 55.8 | 1719 | 62.0 | 1869 |
| SPR 400 FN OAL = 2.550" | | | | |
| 5744 | 36.9 | 1688 | 41.0 | 1835 |
| 1680 | 41.4 | 1732 | 46.0 | 1883 |
| 2015 | 47.3 | 1883 | 52.5 | 2047 |
| 2230 (C) | 49.9 | 1877 | 55.4 | 2040 |
| 2460 (C) | 54.0 | 1909 | 60.0 | 2075 |
| 2495 (C) | 49.5 | 1689 | 55.0 | 1836 |
| 2520 (C) | 53.1 | 1875 | 59.0 | 2038 |
| 2700 (C) | 53.1 | 1620 | 59.0 | 1761 |

**.45/70 TRAP DOOR SPRINGFIELD—
LEVEL 1**

| Gun | DOUGLAS | Barrel length | 24" | |
|----------------------------------|------------|---------------|------------|----------|
| Primer | CCI 200 | Case | REM NICKEL | |
| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
| (L) 300 PB OAL = 2.550" | | | | |
| 5744 | 27.9 | 1469 | 31.0 | 1597 |
| (L) 405 PB OAL = 2.560" | | | | |
| 5744 | 24.8 | 1247 | 27.5 | 1355 |
| (L) 500 PBRN OAL = 2.850" | | | | |
| 5744 | 22.5 | 1112 | 25.0 | 1209 |
| (L) 500 SCHM OAL = 3.010" | | | | |
| 5744 | 22.8 | 1121 | 25.3 | 1219 |
| (L) 530 POST OAL = 2.950" | | | | |
| 5744 | 20.2 | 1084 | 22.4 | 1178 |
| SPR 400 JSP OAL = 2.560" | | | | |
| 5744 | 23.4 | 1078 | 26.0 | 1172 |

**.45/70 GOVERNMENT (RUGER, MARLIN,
SHARPS, WINCHESTER)—LEVEL 2**

| Gun | DOUGLAS | Barrel length | 24" | |
|----------------------------------|------------|---------------|-----------|----------|
| Primer | WIN WLR | Case | WIN | |
| Powder | Start Chg. | Velocity | Max. Chg. | Velocity |
| (L) 300 PB OAL = 2.550" | | | | |
| 5744 | 34.2 | 1727 | 38.0 | 1877 |
| (L) 378 RN OAL = 2.565" | | | | |
| 2015 | 44.1 | 1675 | 49.0 | 1821 |
| 2495 | 49.5 | 1780 | 55.0 | 1935 |
| 4350 | 54.0 | 1492 | 60.0 | 1622 |
| 3100 | 54.0 | 1366 | 60.0 | 1485 |
| 8700 | 54.0 | 944 | 60.0 | 1026 |
| (L) 405 FN OAL = 2.550" | | | | |
| 5744 | 29.7 | 1462 | 33.0 | 1589 |
| 2015 | 48.6 | 1532 | 54.0 | 1665 |
| 2495 | 48.6 | 1657 | 54.0 | 1801 |
| 2700 | 48.6 | 1532 | 54.0 | 1665 |
| 4350 | 50.4 | 1356 | 56.0 | 1474 |
| 3100 | 54.0 | 1308 | 60.0 | 1422 |
| 8700 | 54.0 | 1072 | 60.0 | 1165 |
| (L) 500 FN OAL = 2.550" | | | | |
| 2015 | 37.8 | 1442 | 42.0 | 1567 |
| 2495 | 44.1 | 1536 | 49.0 | 1670 |
| 2700 | 42.3 | 1301 | 47.0 | 1414 |
| 4350 | 52.2 | 1455 | 58.0 | 1582 |
| (L) 500 FN OAL = 2.795" | | | | |
| 3100 | 54.0 | 1374 | 60.0 | 1493 |
| 8700 | 54.0 | 920 | 60.0 | 1000 |
| (L) 500 SCHM OAL = 3.010" | | | | |
| 5744 | 28.4 | 1340 | 31.5 | 1456 |
| (L) 530 POST OAL = 2.950" | | | | |
| 5744 | 26.6 | 1251 | 29.5 | 1360 |
| SRA 300 HP OAL = 2.550" | | | | |
| 5744 | 31.5 | 1568 | 35.0 | 1704 |
| 2015 | 53.1 | 1991 | 59.0 | 2164 |
| 2495 | 59.4 | 2001 | 66.0 | 2175 |
| 2700 | 58.5 | 1784 | 65.0 | 1939 |
| 4350 | 63.0 | 1670 | 70.0 | 1815 |
| 3100 | 63.0 | 1569 | 70.0 | 1705 |
| HDY 350 RN OAL = 2.550" | | | | |
| 2015 | 47.7 | 1777 | 53.0 | 1932 |
| 2495 | 54.9 | 1892 | 61.0 | 2057 |
| 2700 | 54.9 | 1650 | 61.0 | 1794 |
| 4350 | 58.5 | 1596 | 65.0 | 1735 |
| 3100 | 58.5 | 1463 | 65.0 | 1590 |
| SPR 400 FN OAL = 2.560" | | | | |
| 5744 | 27.9 | 1319 | 31.0 | 1434 |
| 2015 | 44.1 | 1620 | 49.0 | 1761 |
| 2495 | 49.5 | 1689 | 55.0 | 1836 |
| 2700 | 49.5 | 1479 | 55.0 | 1608 |
| 4350 (C) | 54.0 | 1444 | 60.0 | 1570 |
| 3100 (C) | 54.0 | 1336 | 60.0 | 1452 |
| 8700 (C) | 54.0 | 913 | 60.0 | 992 |

WARNING: Always start at MINIMUM loads listed above as START CHG. See explanation on page 3.
(C) Denotes a compressed load for maximum charge.

.45/70 GOVERNMENT (RUGER, MARLIN, SHARPS, WINCHESTER)—LEVEL 2 (CONT'D)

| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
|---------------|-------------------|-----------------|------------------|-----------------|
| HDY 500 RN | OAL = 2.580" | | | |
| 5744 | 27.9 | 1369 | 31.0 | 1488 |
| 2015 | 36.0 | 1308 | 40.0 | 1422 |
| 2495 | 41.4 | 1415 | 46.0 | 1538 |
| 2700 | 41.4 | 1221 | 46.0 | 1327 |
| HDY 500 RN | OAL = 2.795" | | | |
| 4350 | 52.2 | 1474 | 58.0 | 1602 |
| HDY 500 RN | OAL = 2.825" | | | |
| 3100 | 54.0 | 1326 | 60.0 | 1441 |
| 8700 | 54.0 | 950 | 60.0 | 1033 |

.45/90 WINCHESTER

| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
|---------------|-------------------|-----------------|------------------|-----------------|
| Gun | WISEMAN | Barrel length | 30" | |
| Primer | CCI 250 | Case | BELL | |
| (L) 300 PB | OAL = 2.810" | | | |
| 5744 | 35.1 | 1637 | 39.0 | 1779 |
| (L) 405 PB | OAL = 2.910" | | | |
| 5744 | 31.5 | 1411 | 35.0 | 1534 |
| (L) 500 SCHM | OAL = 3.300" | | | |
| 5744 | 29.3 | 1300 | 32.5 | 1413 |

.45/110 SHARPS 2⁷/₈"

| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
|---------------|-------------------|-----------------|------------------|-----------------|
| Gun | WISEMAN | Barrel length | 30" | |
| Primer | CCI 250 | Case | HDS | |
| (L) 300 PB | OAL = 3.300" | | | |
| 5744 | 39.6 | 1788 | 44.0 | 1944 |
| (L) 405 PB | OAL = 3.350" | | | |
| 5744 | 34.7 | 1487 | 38.5 | 1616 |
| (L) 500 SCHM | OAL = 3.750" | | | |
| 5744 | 33.3 | 1400 | 37.0 | 1522 |

.45/120 SHARPS 3¹/₄"

| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
|---------------|-------------------|-----------------|------------------|-----------------|
| Gun | WISEMAN | Barrel length | 30" | |
| Primer | CCI 250 | Case | HDS | |
| (L) 300 PB | OAL = 3.700" | | | |
| 5744 | 45.9 | 1974 | 51.0 | 2146 |
| (L) 405 PB | OAL = 3.815" | | | |
| 5744 | 42.3 | 1729 | 47.0 | 1879 |
| (L) 500 SCHM | OAL = 4.075" | | | |
| 5744 | 39.2 | 1555 | 43.5 | 1690 |

.45/120 SHARPS 3¹/₄" (CONT'D)

| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
|---------------|-------------------|-----------------|------------------|-----------------|
| (L) 570 JONES | OAL = 4.000" | | | |
| 5744 | 36.9 | 1437 | 41.0 | 1562 |
| SPR 400 JFN | OAL = 3.700" | | | |
| 5744 | 41.0 | 1641 | 45.5 | 1784 |

.458 WINCHESTER MAGNUM

| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
|---------------|-------------------------------------|-----------------|------------------|-----------------|
| Gun | DOUGLAS | Barrel length | 24" | |
| Primer | REM 9 ¹ / ₂ M | Case | REM | |
| (L) 375 RN | OAL = 3.000" | | | |
| 5744 | 46.8 | 2061 | 52.0 | 2240 |
| (L) 400 FN | OAL = 3.000" | | | |
| 5744 | 45.9 | 1996 | 51.0 | 2170 |
| (L) 455 RN | OAL = 3.110" | | | |
| 5744 | 44.1 | 1860 | 49.0 | 2022 |
| (L) 500 RN | OAL = 3.170" | | | |
| 5744 | 42.3 | 1749 | 47.0 | 1901 |

.50/70 GOVERNMENT

| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
|---------------|-------------------|-----------------|------------------|-----------------|
| Gun | C. SHARPS | Barrel length | 30" | |
| Primer | FED 215 | Case | DGW | |
| (L) 425 SP | OAL = 2.275" | | | |
| 5744 | 27.0 | 1305 | 30.0 | 1419 |
| (L) 550 FN | OAL = 2.200" | | | |
| 5744 | 22.5 | 1111 | 25.0 | 1208 |

.50/90 SHARPS 2¹/₂"

| <u>Powder</u> | <u>Start Chg.</u> | <u>Velocity</u> | <u>Max. Chg.</u> | <u>Velocity</u> |
|---------------|-------------------|-----------------|------------------|-----------------|
| Gun | C. SHARPS | Barrel length | 30" | |
| Primer | FED 215 | Case | ELDORADO | |
| (L) 365 FN | OAL = 2.870" | | | |
| 5744 | 38.7 | 1651 | 43.0 | 1795 |
| (L) 440 SP | OAL = 3.000" | | | |
| 5744 | 34.2 | 1432 | 38.0 | 1557 |
| (L) 550 FN | OAL = 2.925" | | | |
| 5744 | 31.5 | 1298 | 35.0 | 1411 |
| (L) 700 SPTZ | OAL = 3.125" | | | |
| 5744 | 31.5 | 1181 | 33.0 | 1246 |

WARNING: Always start at MINIMUM loads listed above as START CHG. See explanation on page 3.

.50/140 SHARPS 3¹/₄"

Gun C. SHARPS Barrel length 30"
 Primer FED 215 Case ELDORADO

Powder Start Chg. Velocity Max. Chg. Velocity

(L) 440 SP OAL = 3.785"
 5744 49.5 1820 55.0 1978

(L) 550 FN OAL = 3.735"
 5744 45.0 1597 50.0 1736

.50 BROWNING

Gun FRESHOUR Barrel length 44"
 Primer CCI 35 Case IMI

Powder Start Chg. Velocity Max. Chg. Velocity

MIL 642 FMJ OAL = 5.545"
 8700 205.2 2696 228.0 2930

MIL 750 FMJ OAL = 5.545"
 8700 196.2 2484 218.0 2700

NOTE: VERIFY POWDER CHARGE WITH A SCALE
PRIOR TO LOADING

Load Bushing Data

| Hornady 366/APEX Presses | | | | | MEC Single Stage Presses | | | | |
|--------------------------|-------------------|-------------------|------------------------|-------------------|--------------------------|------------------|------------------|-----------------------|------------------|
| Desired Grains | SOLO 1000 Bushing | SOLO 1250 Bushing | No. 2 Improved Bushing | Nitro 100 Bushing | Bushing | SOLO 1000 Grains | SOLO 1250 Grains | No. 2 Improved Grains | Nitro 100 Grains |
| 13.0 | | 354 | | 366 | | | | | |
| 13.5 | | 360 | | 372 | 20 | | 13.9 | 17.0 | |
| 14.0 | 387 | 369 | | 375 | 21 | | 14.2 | 18.0 | |
| 14.5 | 393 | 378 | | 381 | 22 | | 14.7 | 18.7 | |
| 15.0 | 399 | 384 | | 387 | 23 | | 15.0 | 19.4 | |
| 15.5 | 408 | 390 | | 393 | 24 | | 15.6 | 20.2 | |
| 16.0 | 411 | 396 | | 399 | 25 | | 16.1 | 20.5 | 15.5 |
| 16.5 | 417 | 402 | 351 | 405 | 26 | 16.0 | 17.0 | 21.6 | 16.3 |
| 17.0 | 420 | 408 | 357 | 411 | 27 | 16.3 | 17.9 | 22.6 | 17.0 |
| 17.5 | 429 | 414 | 363 | 417 | 28 | 17.3 | 18.4 | 23.5 | 17.5 |
| 18.0 | 432 | 420 | 366 | 423 | 29 | 18.0 | 19.4 | | 18.3 |
| 18.5 | 435 | 426 | 372 | 429 | 30 | 18.8 | 19.9 | | 19.1 |
| 19.0 | 438 | 429 | 378 | 435 | 31 | 19.2 | 20.5 | | 19.7 |
| 19.5 | 441 | 435 | 384 | 441 | 32 | 20.8 | 21.2 | | 20.3 |
| 20.0 | 447 | 441 | 387 | 447 | 33 | 21.4 | 22.3 | | 20.8 |
| 20.5 | 453 | 447 | 393 | 453 | 34 | 22.0 | 23.1 | | 21.5 |
| 21.0 | 459 | 453 | 396 | 456 | 35 | 22.8 | 23.7 | | 22.3 |
| 21.5 | 468 | 456 | 402 | 457 | 36 | 23.3 | 24.6 | | 23.0 |
| 22.0 | 474 | 459 | 408 | 465 | 37 | 23.8 | 25.2 | | 23.9 |
| 22.5 | 480 | 465 | 411 | | 38 | 24.5 | 26.4 | | |
| 23.0 | | 471 | 417 | | 38A | 25.3 | 26.7 | | |
| 23.5 | | 477 | 420 | | 39 | 26.3 | 28.3 | | |
| 24.0 | | 480 | | | 39A | | 29.1 | | |
| 24.5 | | 486 | | | 40 | | 29.6 | | |
| 25.0 | | 492 | | | 40A | | 30.2 | | |
| 25.5 | | 495 | | | 41 | | 31.9 | | |
| 26.0 | | 501 | | | 41A | | 32.4 | | |
| 26.5 | | 502 | | | 42 | | 33.6 | | |
| 27.0 | | 510 | | | 42A | | 34.4 | | |
| 27.5 | | 513 | | | 43 | | 35.5 | | |
| 28.0 | | 516 | | | | | | | |
| 28.5 | | 522 | | | | | | | |
| 29.0 | | 525 | | | | | | | |
| 29.5 | | 531 | | | | | | | |
| 30.0 | | 537 | | | | | | | |
| 30.5 | | — | | | | | | | |
| 31.0 | | 543 | | | | | | | |
| 31.5 | | 549 | | | | | | | |
| 32.0 | | 555 | | | | | | | |
| 33.0 | | 558 | | | | | | | |
| | | | | | BUSHING | 4100 | | | |
| | | | | | 11 | 13.5 | | | |

| Ponsness-Warren Presses | | | | | MEC Progressive Presses | | | | |
|-------------------------|------------------|------------------|-----------------------|------------------|-------------------------|------------------|------------------|-----------------------|------------------|
| Bushing Letter | SOLO 1000 Grains | SOLO 1250 Grains | No. 2 Improved Grains | Nitro 100 Grains | Bushing Number | SOLO 1000 Grains | SOLO 1250 Grains | No. 2 Improved Grains | Nitro 100 Grains |
| D1 | | 12.0 | | 10.7 | 20 | | 13.5 | 17.0 | |
| E | | 13.7 | 17.0 | 11.9 | 21 | | 13.9 | 18.0 | |
| E1 | | 14.0 | 18.4 | 12.5 | 22 | | 14.4 | 18.7 | |
| E2 | | 14.5 | 19.0 | 13.1 | 23 | | 14.8 | 19.4 | |
| F | 14.3 | 15.5 | 20.2 | 13.9 | 24 | | 15.5 | 20.2 | |
| F1 | 14.5 | 15.7 | 20.5 | 14.1 | 25 | 14.2 | 16.0 | 20.5 | 14.5 |
| G | 15.9 | 17.5 | 22.7 | 15.6 | 26 | 14.5 | 16.8 | 21.6 | 15.2 |
| G1 | 16.4 | 17.7 | 23.0 | 15.9 | 27 | 15.5 | 17.5 | 22.6 | 15.7 |
| H | 17.5 | 19.0 | 24.5 | 16.7 | 28 | 16.2 | 18.0 | 23.5 | 16.5 |
| I | 18.5 | 19.5 | | 17.2 | 29 | 17.0 | 18.9 | | 17.3 |
| J | 19.7 | 20.3 | | 17.9 | 30 | 17.4 | 19.6 | | 17.9 |
| J1 | 20.4 | 20.8 | | 18.7 | 31 | 19.0 | 20.1 | | 18.5 |
| K | 20.7 | 21.4 | | 19.1 | 32 | 19.6 | 21.0 | | 19.0 |
| L | 21.4 | 22.5 | | 20.2 | 33 | 20.2 | 22.0 | | 19.7 |
| M | 22.1 | 23.5 | | 20.3 | 34 | 21.0 | 22.6 | | 20.5 |
| N | 23.5 | 25.0 | | 22.5 | 35 | 21.5 | 23.2 | | 21.2 |
| O | 24.0 | 25.5 | | 23.0 | 36 | 22.0 | 24.3 | | 22.1 |
| P | 24.6 | 26.0 | | 23.7 | 37 | 22.7 | 25.0 | | |
| Q | | 26.3 | | 24.0 | 38 | 23.5 | 26.0 | | |
| R | | 28.0 | | | 38A | 24.5 | 26.5 | | |
| S | | 28.3 | | | 39 | | 28.0 | | |
| T | | 30.0 | | | 39A | | 28.9 | | |
| U | | 32.0 | | | 40 | | 29.5 | | |
| V | | 32.5 | | | 40A | | 30.1 | | |
| | | | | | 41 | | 31.3 | | |
| | | | | | 41A | | 32.0 | | |
| | | | | | 42 | | 33.0 | | |
| | | | | | 42A | | 34.0 | | |
| | | | | | 43 | | 35.0 | | |

BUSHING

NOTE: VERIFY POWDER CHARGE WITH A SCALE
PRIOR TO LOADING

Load Bushing Data

BUSHING

| LEE AUTO-DISK CAVITIES | | | | | | | | | | | | |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Powder | 0.30 | 0.32 | 0.34 | 0.37 | 0.40 | 0.43 | 0.46 | 0.49 | 0.53 | 0.57 | 0.61 | 0.66 |
| NITRO100 | 2.2 | 2.4 | 2.5 | 2.7 | 3.0 | 3.2 | 3.4 | 3.6 | 3.9 | 4.2 | 4.5 | 4.9 |
| No. 2l | 2.9 | 3.0 | 3.3 | 3.5 | 3.8 | 4.1 | 4.4 | 4.6 | 5.0 | 5.4 | 5.8 | 6.3 |
| No. 5 | 4.8 | 5.1 | 5.5 | 5.9 | 6.4 | 6.9 | 7.4 | 7.9 | 8.5 | 9.2 | 9.8 | 10.6 |
| No. 7 | 4.6 | 4.9 | 5.2 | 5.7 | 6.1 | 6.6 | 7.0 | 7.5 | 8.1 | 8.7 | 9.3 | 10.1 |
| No. 9 | 4.6 | 4.9 | 5.2 | 5.6 | 6.1 | 6.5 | 7.0 | 7.5 | 8.1 | 8.7 | 9.3 | 10.1 |
| 1680 | 4.6 | 4.9 | 5.2 | 5.6 | 6.1 | 6.6 | 7.0 | 7.5 | 8.1 | 8.7 | 9.3 | 10.1 |
| XMR2015 | 4.1 | 4.4 | 4.7 | 5.1 | 5.5 | 5.9 | 6.3 | 6.7 | 7.3 | 7.8 | 8.4 | 9.0 |
| 2230 | 4.6 | 4.9 | 5.2 | 5.6 | 6.1 | 6.5 | 7.0 | 7.5 | 8.1 | 8.7 | 9.3 | 10.0 |
| 2460 | 4.6 | 4.9 | 5.2 | 5.6 | 6.1 | 6.6 | 7.0 | 7.5 | 8.1 | 8.7 | 9.3 | 10.1 |
| XMR2495 | 4.0 | 4.3 | 4.5 | 4.9 | 5.3 | 5.7 | 6.1 | 6.5 | 7.1 | 7.6 | 8.2 | 8.8 |
| 2520 | 4.4 | 4.7 | 5.0 | 5.4 | 5.9 | 6.3 | 6.7 | 7.2 | 7.8 | 8.4 | 8.9 | 9.7 |
| 2700 | 4.4 | 4.7 | 5.0 | 5.4 | 5.8 | 6.3 | 6.7 | 7.2 | 7.7 | 8.3 | 8.9 | 9.6 |
| XMR4350 | 4.1 | 4.3 | 4.6 | 5.0 | 5.4 | 5.8 | 6.2 | 6.6 | 7.2 | 7.7 | 8.2 | 8.9 |
| XMR3100 | 4.0 | 4.3 | 4.5 | 4.9 | 5.3 | 5.7 | 6.1 | 6.5 | 7.1 | 7.6 | 8.2 | 8.8 |
| 8700 | 4.4 | 4.7 | 4.9 | 5.4 | 5.8 | 6.3 | 6.7 | 7.1 | 7.7 | 8.3 | 8.9 | 9.6 |
| SOLO 1000 | 2.3 | 2.4 | 2.6 | 2.8 | 3.0 | 3.2 | 3.5 | 3.7 | 4.0 | 4.3 | 4.6 | 5.0 |
| XMP 5744 | 4.0 | 4.2 | 4.5 | 4.9 | 5.3 | 5.7 | 6.1 | 6.5 | 7.0 | 7.5 | 8.1 | 8.7 |

| LEE AUTO-DISK CAVITIES—Cont'd. | | | | | | | | | | | | |
|--------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Powder | 0.71 | 0.76 | 0.82 | 0.88 | 0.95 | 1.02 | 1.09 | 1.18 | 1.26 | 1.36 | 1.46 | 1.57 |
| NITRO100 | 5.3 | 5.6 | 6.1 | 6.5 | 7.0 | 7.6 | 8.1 | 8.7 | 9.3 | 10.1 | 10.8 | 11.6 |
| No. 2l | 6.8 | 7.3 | 7.8 | 8.4 | 9.0 | 9.8 | 10.4 | 11.3 | 12.0 | 13.0 | 13.9 | 15.0 |
| No. 5 | 11.4 | 12.2 | 13.2 | 14.1 | 15.3 | 16.4 | 17.5 | 18.9 | 20.2 | 21.8 | 23.4 | 25.2 |
| No. 7 | 10.9 | 11.6 | 12.6 | 13.5 | 14.5 | 15.6 | 16.7 | 18.1 | 19.3 | 20.8 | 22.4 | 24.0 |
| No. 9 | 10.8 | 11.6 | 12.5 | 13.4 | 14.5 | 15.5 | 16.6 | 18.0 | 19.2 | 20.7 | 22.2 | 23.9 |
| 1680 | 10.8 | 11.6 | 12.5 | 13.4 | 14.5 | 15.6 | 16.6 | 18.0 | 19.2 | 20.8 | 22.3 | 24.0 |
| XMR2015 | 9.7 | 10.4 | 11.2 | 12.1 | 13.0 | 14.0 | 14.9 | 16.2 | 17.3 | 18.6 | 20.0 | 21.5 |
| 2230 | 10.8 | 11.6 | 12.5 | 13.4 | 14.5 | 15.5 | 16.6 | 18.0 | 19.2 | 20.7 | 22.2 | 23.9 |
| 2460 | 10.8 | 11.6 | 12.5 | 13.4 | 14.5 | 15.5 | 16.6 | 18.0 | 19.2 | 20.7 | 22.2 | 23.9 |
| XMR2495 | 9.5 | 10.2 | 11.0 | 11.8 | 12.7 | 13.6 | 14.6 | 15.8 | 16.8 | 18.2 | 19.5 | 21.0 |
| 2520 | 10.4 | 11.1 | 12.0 | 12.9 | 13.9 | 14.9 | 16.0 | 17.3 | 18.5 | 19.9 | 21.4 | 23.0 |
| 2700 | 10.4 | 11.1 | 12.0 | 12.9 | 13.9 | 14.9 | 15.9 | 17.2 | 18.4 | 19.9 | 21.3 | 22.9 |
| XMR4350 | 9.6 | 10.3 | 11.1 | 11.9 | 12.8 | 13.8 | 14.7 | 16.0 | 17.0 | 18.4 | 19.7 | 21.2 |
| XMR3100 | 9.5 | 10.2 | 11.0 | 11.8 | 12.7 | 13.6 | 14.6 | 15.8 | 16.8 | 18.2 | 19.5 | 21.0 |
| 8700 | 10.3 | 11.1 | 11.9 | 12.8 | 13.8 | 14.8 | 15.8 | 17.2 | 18.3 | 19.8 | 21.2 | 22.8 |
| SOLO 1000 | 5.3 | 5.7 | 6.2 | 6.6 | 7.1 | 7.7 | 8.2 | 8.9 | 9.5 | 10.2 | 11.0 | 11.8 |
| XMP 5744 | 9.4 | 10.0 | 10.8 | 11.6 | 12.6 | 13.5 | 14.4 | 15.6 | 16.7 | 18.0 | 19.3 | 20.7 |

| LEE DIPPERS | | | | | | | | | | | | | | | |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Powder | 0.30 | 0.50 | 0.70 | 1.00 | 1.30 | 1.60 | 1.90 | 2.20 | 2.50 | 2.80 | 3.10 | 3.40 | 3.70 | 4.00 | 4.30 |
| NITRO100 | 2.2 | 3.7 | 5.2 | 7.4 | 9.6 | 11.9 | 14.1 | 16.3 | 18.5 | 20.8 | 23.0 | 25.2 | 27.4 | 29.7 | 31.9 |
| No. 2l | 2.9 | 4.8 | 6.7 | 9.5 | 12.4 | 15.3 | 18.2 | 21.0 | 23.8 | 26.7 | 29.6 | 32.5 | 35.3 | 38.2 | 41.0 |
| No. 5 | 4.8 | 8.0 | 11.2 | 16.1 | 20.9 | 25.7 | 30.5 | 35.3 | 40.1 | 45.0 | 49.8 | 54.6 | 59.4 | 64.2 | 69.0 |
| No. 7 | 4.6 | 7.7 | 10.7 | 15.3 | 19.9 | 24.5 | 29.1 | 33.7 | 38.3 | 42.9 | 47.5 | 52.1 | 56.7 | 61.2 | 65.8 |
| No. 9 | 4.6 | 7.6 | 10.7 | 15.2 | 19.8 | 24.4 | 28.9 | 33.5 | 38.1 | 42.6 | 47.2 | 51.8 | 56.4 | 60.9 | 65.5 |
| 1680 | 4.6 | 7.6 | 10.7 | 15.3 | 19.8 | 24.4 | 29.0 | 33.6 | 38.2 | 42.7 | 47.3 | 51.9 | 56.5 | 61.0 | 65.6 |
| XMR2015 | 4.1 | 6.8 | 9.6 | 13.7 | 17.8 | 21.9 | 26.0 | 30.1 | 34.2 | 38.3 | 42.5 | 46.6 | 50.7 | 54.8 | 58.9 |
| 2230 | 4.6 | 7.6 | 10.7 | 15.2 | 19.8 | 24.4 | 28.9 | 33.5 | 38.1 | 42.6 | 47.2 | 51.8 | 56.3 | 60.9 | 65.5 |
| 2460 | 4.6 | 7.6 | 10.7 | 15.2 | 19.8 | 24.4 | 28.9 | 33.5 | 38.1 | 42.7 | 47.2 | 51.8 | 56.4 | 60.9 | 65.5 |
| XMR2495 | 4.0 | 6.7 | 9.4 | 13.4 | 17.4 | 21.4 | 25.4 | 29.4 | 33.4 | 37.4 | 41.4 | 45.4 | 49.4 | 53.5 | 57.5 |
| 2520 | 4.4 | 7.3 | 10.3 | 14.6 | 19.0 | 23.4 | 27.8 | 32.2 | 36.6 | 41.0 | 45.4 | 49.8 | 54.2 | 58.6 | 63.0 |
| 2700 | 4.4 | 7.3 | 10.2 | 14.6 | 19.0 | 23.4 | 27.7 | 32.1 | 36.5 | 40.9 | 45.3 | 49.7 | 54.0 | 58.4 | 62.8 |
| XMR4350 | 4.1 | 6.8 | 9.5 | 13.5 | 17.6 | 21.6 | 25.7 | 29.7 | 33.8 | 37.8 | 41.9 | 46.0 | 50.0 | 54.1 | 58.1 |
| XMR3100 | 4.0 | 6.7 | 9.4 | 13.4 | 17.4 | 21.4 | 25.4 | 29.4 | 33.4 | 37.4 | 41.4 | 45.4 | 49.4 | 53.5 | 57.5 |
| 8700 | 4.4 | 7.3 | 10.2 | 14.5 | 18.9 | 23.3 | 27.6 | 32.0 | 36.4 | 40.7 | 45.1 | 49.4 | 53.8 | 58.2 | 62.5 |
| SOLO 1000 | 2.3 | 3.8 | 5.3 | 7.5 | 9.8 | 12.0 | 14.3 | 16.5 | 18.8 | 21.0 | 23.3 | 25.6 | 27.8 | 30.1 | 32.3 |
| XMP 5744 | 4.0 | 6.6 | 9.3 | 13.2 | 17.2 | 21.1 | 25.1 | 29.1 | 33.0 | 37.0 | 41.0 | 44.9 | 48.9 | 52.9 | 56.8 |

| LEE CHARGE BAR BUSHINGS | | | | | | | | | | | | | | | | | |
|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Powder | .095 | .100 | .105 | .110 | .116 | .122 | .128 | .134 | .141 | .148 | .151 | .155 | .163 | .171 | .180 | .189 | .198 |
| NITRO100 | 11.3 | 11.9 | 12.5 | 13.0 | 13.8 | 14.5 | 15.2 | 15.9 | 16.7 | 17.6 | 17.9 | 18.4 | 19.3 | 20.3 | 21.4 | 22.4 | 23.5 |
| SOLO 1000 | 11.4 | 12.0 | 12.6 | 13.2 | 13.9 | 14.7 | 15.4 | 16.1 | 17.0 | 17.8 | 18.2 | 18.6 | 19.6 | 20.6 | 21.6 | 22.7 | 23.8 |

SHOTSHELL DATA

The data that follows was developed in test barrels with a bore diameter of 0.725" for 12-gauge. Some overbored barrels may give different pressures and velocities.

Please note that after setting up your loading machine for the specific combination of components that you desire, BE SURE TO WEIGH THE INITIAL POWDER CHARGES THROWN BY THE CHARGE BAR. Because of many variable conditions, seldom does the charge thrown match up exactly with the charge listed in the load bushing tables. These variations can be caused by humidity changes, bulk density variations of the powder, and the way each machine is operated. Please use caution when you start reloading on a specific day or when you change component lots.

| 12-Ga., 2 ³ / ₄ -IN. Winchester Plastic AA-Type Shells Min. Overall Length: 2 ⁷ / ₃₂ -IN. | | | | | Max. Crimp Depth: ⁵ / ₃₂ -IN. | | SOLO 1000 | | NITRO 100 | | SOLO 1250 | |
|--|-----------------|----------------------------|-------------|----------|---|----------------------|------------|----------------------|------------|----------------------|------------|----------------------|
| Ounces Lead | Dram Equivalent | Approx. Velocity, Ft./Sec. | Primer Type | Wad | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI |
| COWBOY ACTION | | | | | | | | | | | | |
| 3/4 | — | 1176 | WIN 209 | FED 12S0 | — | — | 15.0 | 4000 | | | | |
| | | 1232 | WIN 209 | FED 12S0 | — | — | 16.0 | 4500 | | | | |
| | | 1295 | WIN 209 | FED 12S0 | — | — | 17.0 | 5100 | | | | |
| | | 1361 | WIN 209 | FED 12S0 | — | — | 18.0 | 6100 | | | | |
| | | 1160 | WIN 209 | WAA12SL | 17.0 | 3400 | — | — | | | | |
| | | 1206 | WIN 209 | WAA12SL | 18.0 | 3700 | — | — | | | | |
| | | 1276 | WIN 209 | WAA12SL | 19.0 | 4700 | — | — | | | | |
| | | 1336 | WIN 209 | WAA12SL | 20.0 | 5400 | — | — | | | | |
| 7/8 | — | 1143 | WIN 209 | FED 12S0 | — | — | 15.0 | 4900 | | | | |
| | | 1196 | WIN 209 | FED 12S0 | — | — | 16.0 | 5700 | | | | |
| | | 1263 | WIN 209 | FED 12S0 | — | — | 17.0 | 6900 | | | | |
| | | 1320 | WIN 209 | FED 12S0 | — | — | 18.0 | 7900 | | | | |
| | | 1148 | WIN 209 | WAA12SL | 17.0 | 4100 | — | — | | | | |
| | | 1203 | WIN 209 | WAA12SL | 18.0 | 5000 | — | — | | | | |
| | | 1247 | WIN 209 | WAA12SL | 19.0 | 5400 | — | — | | | | |
| | | 1305 | WIN 209 | WAA12SL | 20.0 | 6200 | — | — | | | | |
| 1 | — | 1107 | WIN 209 | WAA12SL | — | — | 15.0 | 5400 | | | | |
| | | 1174 | WIN 209 | WAA12SL | — | — | 16.0 | 6700 | | | | |
| | | 1223 | WIN 209 | WAA12SL | — | — | 17.0 | 7400 | | | | |
| | | 1275 | WIN 209 | WAA12SL | — | — | 18.0 | 8800 | | | | |
| | | 1175 | WIN 209 | WAA 12 | 17.0 | 5900 | — | — | | | | |
| | | 1190 | WIN 209 | WAA 12 | 18.0 | 7200 | — | — | | | | |
| | | 1221 | WIN 209 | WAA12 | 19.0 | 7300 | — | — | | | | |
| | | 1271 | WIN 209 | WAA 12 | 20.0 | 8600 | — | — | | | | |
| 1 1/8 | — | 1092 | WIN 209 | WAA12SL | — | — | 15.0 | 7400 | | | | |
| | | 1130 | WIN 209 | WAA12SL | — | — | 16.0 | 7900 | | | | |
| | | 1184 | WIN 209 | WAA12SL | — | — | 17.0 | 9500 | | | | |
| | | 1227 | WIN 209 | WAA12SL | — | — | 18.0 | 9700 | | | | |
| | | 1108 | WIN 209 | WAA 12 | 17.0 | 7500 | — | — | | | | |
| | | 1164 | WIN 209 | WAA 12 | 18.0 | 9300 | — | — | | | | |
| | | 1194 | WIN 209 | WAA 12 | 19.0 | 9500 | — | — | | | | |
| | | 1237 | WIN 209 | WAA 12 | 20.0 | 10300 | — | — | | | | |
| REGULAR TARGET LOADS | | | | | | | | | | | | |
| 7/8 | — | 1325 | CHED 209 | WAA12SL | 20.5 | 7200 | 18.5 | 7100 | | | | |
| | | | CCI 209 | WAA12SL | 21.0 | 7100 | 18.5 | 7500 | | | | |

SHOT SHELL

SHOT SHELL

| 12-Ga., 2 ³ / ₄ -IN. Winchester Plastic AA-Type Shells Min. Overall Length: 2 ³ / ₂ -IN. | | | Max. Crimp Depth: 1/2-IN. | | SOLO 1000 | | NITRO 100 | | SOLO 1250 | |
|--|-------------------------------|----------------------------|------------------------------|-------------|------------|----------------------|------------|----------------------|------------|----------------------|
| Ounces Lead | Dram Equivalent | Approx. Velocity, Ft./Sec. | Primer Type | Wad | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI |
| 7/8 | — | 1325 | FED209A | WAA12SL | 20.5 | 7700 | 18.0 | 8000 | | |
| | | | REM209P | WAA12SL | 21.0 | 6800 | 18.5 | 6700 | | |
| | | | WIN 209 | WAA12SL | 20.5 | 7900 | 18.0 | 7200 | | |
| | | | FIO 616 | WAA12SL | 20.5 | 8200 | 18.0 | 7700 | | |
| | | | CCI209M | WAA12SL | 20.5 | 8300 | 18.0 | 7300 | | |
| 7/8 | — | 1445 | WIN 209 | WAA12SL | 22.5 | 9500 | 20.5 | 9800 | | |
| | | | CHED | WAA12SL | 22.0 | 10800 | | | | |
| | | | CCI 209 | WAA12SL | 22.0 | 11600 | | | | |
| | | | FED209A | WAA12SL | 21.3 | 10800 | | | | |
| | | | REM209P | WAA12SL | 22.0 | 9900 | | | | |
| 1 | 2 ³ / ₄ | 1200 | WIN 209 | WAA12SL | 18.5 | 8500 | 16.5 | 7400 | | |
| | | | WIN 209 | WINDJAMMER | 18.5 | 7700 | 17.0 | 6400 | | |
| | | | WIN 209 | CB 2100 | 18.5 | 7800 | 17.0 | 7000 | | |
| | | | WIN 209 | FED 12S0 | 18.5 | 8200 | 16.5 | 7900 | | |
| | | | WIN 209 | GRN DUSTER | 18.5 | 7600 | 16.5 | 7100 | | |
| | | | WIN 209 | CB 1100 | 18.5 | 8500 | 16.7 | 6800 | | |
| | | | WIN 209 | REMTGT | 19.0 | 8200 | 16.8 | 6700 | | |
| | | | CCI 209 | WAA12SL | 19.0 | 7700 | 16.8 | 7400 | | |
| | | | CCI209M | WAA12SL | 18.5 | 8200 | 16.8 | 7600 | | |
| | | | CHED 209 | WAA12SL | 18.5 | 8000 | 16.8 | 7400 | | |
| | | | FED209A | WAA12SL | 18.5 | 8500 | 16.8 | 7600 | | |
| | | | FIO 616 | WAA12SL | 18.5 | 7400 | 16.8 | 7300 | | |
| | | | REM209P | WAA12SL | 19.0 | 7800 | 16.8 | 6700 | | |
| CCI 209 | HAWK II | 19.0 | 8100 | 16.8 | 7500 | | | | | |
| 1 | 3 | 1245 | CCI209M | BLUE DUSTER | 19.5 | 8000 | 17.3 | 7900 | | |
| | | | WIN 209 | WAA12SL | 19.5 | 8200 | 17.3 | 8200 | | |
| 1 | 3/4 | 1290 | WIN 209 | WAA12SL | 20.0 | 10300 | 18.0 | 9000 | | |
| | | | WIN 209 | TRAPPER | 20.0 | 9000 | 18.5 | 8500 | | |
| | | | WIN 209 | CB 1118-12 | 20.0 | 9500 | 18.5 | 9600 | | |
| | | | WIN 209 | REM TGT 12 | 20.0 | 9000 | 18.0 | 8700 | | |
| | | | WIN 209 | REM FIG 8 | 20.0 | 9300 | 18.0 | 8400 | | |
| | | | WIN 209 | FED 12S0 | 20.0 | 9900 | 18.0 | 9700 | | |
| | | | CCI 209 | WAA12 | 21.0 | 9400 | 18.5 | 10300 | | |
| | | | REM209P | WAA12 | 20.5 | 9600 | 18.5 | 10200 | | |
| | | | FED209A | GRN DUSTER | 20.5 | 9800 | 18.5 | 10300 | | |
| | | | FIO 616 | WAA12 | 20.0 | 9600 | 18.0 | 10600 | | |
| CCI209M | WAA12 | 20.0 | 9900 | 18.0 | 10700 | | | | | |
| 1 | 3/4 | 1350 | WIN 209 | WAA12SL | — | — | 19.5 | 10200 | | |
| | | | CCI 209 | GRN DUSTER | — | — | 19.8 | 9900 | | |
| | | | FED209A | FED 12S0 | — | — | 19.0 | 10400 | | |
| 1 1/8 | Extra Light | 1125 | WIN 209 | WAA12 | 17.5 | 9000 | 15.5 | 8100 | 17.0 | 6400 |
| | | | WIN 209 | BP 18 | 17.5 | 7800 | 15.5 | 7900 | | |
| | | | WIN 209 | TRAPPER | 17.0 | 9500 | 15.5 | 7000 | 17.0 | 5800 |
| | | | WIN 209 | VERSALITE | 17.0 | 9300 | 15.5 | 7900 | 16.8 | 6500 |
| | | | WIN 209 | P.C. (Red) | 17.5 | 7900 | 15.5 | 7700 | | |
| | | | WIN 209 | CB 2118-12 | 17.0 | 8200 | 15.5 | 8300 | | |
| | | | WIN 209 | REM TGT 12 | 17.0 | 8800 | 15.5 | 8400 | 17.2 | 6800 |
| | | | WIN 209 | REM FIG 8 | 17.0 | 8400 | 15.5 | 8300 | 17.2 | 6000 |
| | | | WIN 209 | BLUE DUSTER | 17.0 | 7200 | 15.5 | 8200 | 17.2 | 6500 |
| | | | WIN 209 | FED 12S3 | 16.5 | 10300 | 15.5 | 7300 | 17.2 | 6600 |

| 12-Ga., 2 ³ / ₄ -IN. Winchester Plastic AA-Type Shells Min. Overall Length: 2 ³ / ₃₂ -IN. | | | Max. Crimp Depth: 3 ¹ / ₃₂ -IN. | | SOLO 1000 | | NITRO 100 | | SOLO 1250 | |
|---|-------------------------------|----------------------------------|--|-------------|---------------|----------------------------|---------------|----------------------------|---------------|----------------------------|
| Ounces Lead | Dram Equiv- alent | Approx. Velocity, Ft./Sec. | Primer Type | Wad | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI |
| 1 ¹ / ₈ | Extra Light | 1125 | CCI 209 | WAA12 | 17.0 | 8900 | 15.5 | 8700 | 17.3 | 6300 |
| | | | CCI 209 | CB 2118-12 | 17.5 | 7100 | 15.5 | 7900 | 17.2 | 6000 |
| | | | REM209P | WAA12 | 17.5 | 7200 | 15.5 | 7500 | 17.6 | 6000 |
| | | | FED209A | WAA12 | 16.5 | 9400 | 15.5 | 9000 | 17.2 | 6300 |
| | | | FIO 616 | WAA12 | 16.5 | 8500 | 15.5 | 9100 | 17.2 | 6200 |
| | | | CCI209M | WAA12 | 16.5 | 8600 | 15.5 | 9100 | 17.2 | 6800 |
| | | | CHED 209 | WAA12 | 18.0 | 7500 | 16.0 | 7900 | | |
| 1 ¹ / ₈ | 2 ³ / ₄ | 1145 | WIN 209 | WAA12 | 18.0 | 9700 | 16.0 | 8800 | 17.7 | 6900 |
| | | | WIN 209 | WAA12SL | — | — | 16.0 | 8700 | 17.7 | 6600 |
| | | | WIN 209 | VERSALITE | 17.5 | 9800 | 16.0 | 9100 | 17.2 | 7600 |
| | | | WIN 209 | P.C. (Red) | 18.0 | 9300 | 16.0 | 8200 | 17.8 | 6200 |
| | | | WIN 209 | BP 18 | 18.0 | 7900 | 16.0 | 8300 | 17.2 | 5900 |
| | | | WIN 209 | CB 2118-12 | 17.5 | 8600 | 16.5 | 8400 | 17.2 | 5800 |
| | | | WIN 209 | HAWK II | 17.5 | 10000 | 16.0 | 9100 | | |
| | | | WIN 209 | REM RXP 12 | 17.5 | 8900 | 16.0 | 8900 | | |
| | | | WIN 209 | REM FIG 8 | 17.5 | 8500 | 16.0 | 8600 | | |
| | | | WIN 209 | BLUE DUSTER | 17.5 | 8200 | 16.0 | 8700 | | |
| | | | WIN 209 | FED 12S3 | 17.0 | 10500 | 16.0 | 8700 | | |
| | | | CCI 209 | WAA12 | 18.0 | 10000 | 16.0 | 9700 | | |
| | | | CCI 209 | CB 1118-12 | 18.0 | 8200 | 16.0 | 9500 | | |
| | | | REM209P | WAA12 | 18.0 | 9500 | 16.0 | 7800 | | |
| | | | FED209A | WAA12 | 17.0 | 9800 | 16.0 | 9700 | | |
| | | | FIO 616 | WAA12 | 17.0 | 9800 | 16.0 | 9200 | | |
| CCI209M | BLUE DUSTER | 17.0 | 9400 | 16.0 | 9300 | | | | | |
| CHED 209 | WAA12 | 17.0 | 9000 | 16.5 | 10400 | | | | | |
| 1 ¹ / ₈ | 3 | 1200 | WIN 209 | WAA12 | 19.0 | 10800 | 17.0 | 9700 | 21.5 | 9800 |
| | | | WIN 209 | WAA12SL | — | — | 17.0 | 9900 | | |
| | | | WIN 209 | VERSALITE | 18.5 | 10300 | 17.0 | 11200 | 21.5 | 9500 |
| | | | WIN 209 | P.C. (Red) | 19.0 | 9700 | 17.5 | 10000 | 21.5 | 9000 |
| | | | WIN 209 | BP 18 | 19.0 | 9700 | 17.0 | 9500 | 22.0 | 9500 |
| | | | WIN 209 | CB 1118-12 | 18.5 | 9900 | 17.0 | 9300 | 22.0 | 8800 |
| | | | WIN 209 | TRAPPER | 19.0 | 10000 | 17.0 | 10400 | 22.0 | 8900 |
| | | | WIN 209 | REM RXP 12 | 18.5 | 10700 | 17.0 | 10000 | 22.5 | 9000 |
| | | | WIN 209 | REM FIG 8 | 18.5 | 9800 | 17.5 | 9600 | 22.5 | 9000 |
| | | | WIN 209 | FED 12C1 | 18.5 | 11400 | 17.0 | 9900 | 22.0 | 9200 |
| | | | WIN 209 | BLUE DUSTER | 18.5 | 10700 | 17.0 | 11100 | 22.0 | 10300 |
| | | | CCI 209 | WAA12 | 18.5 | 10500 | 17.0 | 10000 | 23.5 | 8800 |
| | | | CCI 209 | CB 1118-12 | 19.0 | 8800 | 17.0 | 9600 | 23.5 | 8800 |
| | | | REM209P | WAA12 | 18.5 | 11500 | 17.0 | 10100 | 23.5 | 9100 |
| | | | FED209A | WAA12 | 19.0 | 11200 | 16.5 | 10900 | 22.0 | 9800 |
| | | | FIO 616 | BLUE DUSTER | 19.0 | 9400 | 17.0 | 10700 | 22.5 | 9500 |
| CCI209M | WAA12 | 19.0 | 9500 | 17.0 | 10800 | 22.5 | 9900 | | | |
| CHED 209 | WAA12 | 19.5 | 9900 | 17.0 | 10700 | | | | | |
| 1 ¹ / ₈ | 3 ¹ / ₄ | 1255 | WIN 209 | WAA12 | — | — | — | — | 22.5 | 10800 |
| | | | WIN 209 | VERSALITE | — | — | — | — | 23.0 | 10800 |
| | | | WIN 209 | P.C. (Red) | 20.0 | 11000 | 18.5 | 11100 | 23.0 | 10100 |
| | | | WIN 209 | BP 18 | — | — | 18.0 | 10800 | 23.0 | 10800 |
| | | | WIN 209 | CB 1118-12 | 20.0 | 11500 | — | — | 22.5 | 10200 |
| | | | WIN 209 | REM RXP 12 | — | — | 19.0 | 10500 | 23.0 | 10400 |
| WIN 209 | REM TGT 12 | — | — | 18.0 | 11500 | 22.5 | 10200 | | | |

SHOT SHELL

| 12-Ga., 2 ³ / ₄ -IN. Winchester Plastic AA-Type Shells Min. Overall Length: 2 ⁵ / ₃₂ -IN. | | | Max. Crimp Depth: ¹ / ₃₂ -IN. | | SOLO 1000 | | NITRO 100 | | SOLO 1250 | |
|---|-------------------------------|----------------------------------|--|------------|---------------|----------------------------|---------------|----------------------------|---------------|----------------------------|
| Ounces Lead | Dram Equiv- alent | Approx. Velocity, Ft./Sec. | Primer Type | Wad | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI |
| 1 ¹ / ₈ | 3 ³ / ₄ | 1255 | WIN 209 | FED 12C1 | — | — | 18.0 | 11400 | 22.5 | 10600 |
| | | | CCI 209 | CB 1118-12 | 20.5 | 10300 | — | — | 24.0 | 9500 |
| 1 ¹ / ₈ | 3 ¹ / ₂ | 1310 | WIN 209 | WAA12 | | | | | 24.0 | 11000 |
| | | | WIN 209 | REM FIG 8 | | | | | 25.0 | 10200 |
| | | | WIN 209 | P.C. (Red) | | | | | 25.0 | 10300 |
| | | | WIN 209 | WINDJAMMER | | | | | 25.5 | 9600 |
| | | | WIN 209 | CB1118-12 | | | | | 25.0 | 10300 |
| 1 ¹ / ₄ | 3 ³ / ₄ | 1220 | WIN 209 | WAA12R | | | | | 23.5 | 10700 |
| | | | WIN 209 | REM SP12 | | | | | 23.0 | 10300 |
| | | | FED209A | WAA12R | | | | | 23.5 | 10700 |
| 1 ¹ / ₄ | 3 ¹ / ₂ | 1275 | WIN 209 | WAA12R | | | | | 24.0 | 11100 |

| 12-Ga., 2 ³ / ₄ -IN. Winchester Plastic Grey Super Sport Min. Overall Length: 2 ⁵ / ₃₂ -IN. | | | Max. Crimp Depth: ¹ / ₃₂ -IN. | | SOLO 1000 | | NITRO 100 | | SOLO 1250 | |
|---|-------------------------------|----------------------------------|--|-------------|---------------|----------------------------|---------------|----------------------------|---------------|----------------------------|
| Ounces Lead | Dram Equiv- alent | Approx. Velocity, Ft./Sec. | Primer Type | Wad Type | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI |
| 7 ⁷ / ₈ | — | 1325 | WIN 209 | WAA12SL | 21.5 | 5800 | 18.5 | 7200 | | |
| | | | FED209A | CB2100 | 21.0 | 6300 | 18.0 | 8000 | | |
| | | | CCI 209 | FED 12S0 | 21.5 | 5900 | 17.8 | 7300 | | |
| | | | FIO 616 | GRN DUSTER | 21.0 | 6100 | 17.5 | 8100 | | |
| | | | CHED 209 | WAA12SL | 20.5 | 6900 | 17.8 | 7700 | | |
| 1 | 2 ⁵ / ₄ | 1200 | WIN209A | WAA12SL | 18.7 | 6000 | 16.5 | 7200 | | |
| | | | FED209A | CB2100 | 18.5 | 6000 | 16.2 | 8100 | | |
| | | | CCI 209 | FED 12S0 | 19.0 | 6000 | 16.8 | 6900 | | |
| | | | FIO 616 | GRN DUSTER | 18.7 | 7000 | 16.2 | 7600 | | |
| | | | CHED 209 | WAA12SL | 19.0 | 6100 | 16.3 | 7400 | | |
| 1 | 3 ³ / ₄ | 1290 | WIN 209 | WAA12SL | 20.5 | 8600 | 18.3 | 9100 | | |
| | | | FED209A | VERSALITE | 20.0 | 9200 | 17.5 | 10600 | | |
| | | | CCI 209 | TRAPPER | 21.0 | 9000 | 18.5 | 8600 | | |
| | | | FIO 616 | GRNDUSTER | 20.3 | 9700 | 17.8 | 10500 | | |
| | | | CHED 209 | FED 12SL | 20.3 | 9200 | 18.0 | 9500 | | |
| 1 ¹ / ₈ | 2 ⁵ / ₄ | 1145 | WIN 209 | WAA12 | 18.3 | 8000 | 16.2 | 8800 | | |
| | | | FED209A | CB1118-12 | 18.3 | 7500 | 16.0 | 9700 | | |
| | | | CCI 209 | HAWK II | 18.5 | 7600 | 16.2 | 9700 | | |
| | | | FIO 616 | BLUE DUSTER | 18.0 | 8200 | 16.0 | 9200 | | |
| | | | CHED 209 | TRAPPER | 18.0 | 8900 | 16.5 | 10400 | | |
| 1 ¹ / ₈ | 3 | 1200 | WIN 209 | WAA12 | 19.5 | 10500 | 17.0 | 9700 | | |
| | | | FED209A | CB1118-12 | 19.0 | 10300 | 16.8 | 9600 | | |
| | | | CCI 209 | HAWK II | 19.2 | 10000 | 17.3 | 9500 | | |
| | | | FIO 616 | BLUE DUSTER | 19.0 | 10000 | 17.0 | 10000 | | |
| | | | CHED 209 | TRAPPER | 19.2 | 10400 | 17.0 | 10000 | | |

| 12-Ga., 2 ³ / ₄ -IN. Remington STS® Plastic Target Shells Min. Overall Length: 2 ⁵ / ₃₂ -IN. | | | Max. Crimp Depth: ¹ / ₃₂ -IN. | | SOLO 1000 | | NITRO 100 | | SOLO 1250 | |
|--|----------------------|----------------------------------|--|----------------|---------------|----------------------------|---------------|----------------------------|---------------|----------------------------|
| Ounces Lead | Dram Equiv- alent | Approx. Velocity, Ft./Sec. | Primer Type | Wad Type | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI |
| COWBOY ACTION | | | | | | | | | | |
| 3 ³ / ₄ | — | 1281 | REM209P | FED 12S0 + | — | — | 17.0 | 5500 | | |
| | | 1344 | STS | ONE .135" CARD | — | — | 18.0 | 6400 | | |

| 12-Ga., 2 ³ / ₄ -IN. Remington STS [®] Plastic Target Shells Min. Overall Length: 2 ⁵ / ₃₂ -IN. | | | | | SOLO 1000 | | NITRO 100 | | SOLO 1250 | |
|--|-----------------|----------------------------|--------------------|------------------------------|------------|----------------------|------------|----------------------|------------|----------------------|
| Ounces Lead | Dram Equivalent | Approx. Velocity, Ft./Sec. | Primer Type | Wad Type | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI |
| 3/4 | — | 1404 | REM209P STS | FED 12SO + ONE .135" CARD | — | — | 19.0 | 7100 | | |
| | | 1446 | | | — | — | 20.0 | 7800 | | |
| | | 1171 | | | 17.0 | 4300 | — | — | | |
| | | 1224 | | | 18.0 | 4800 | — | — | | |
| | | 1286 | | | 19.0 | 5700 | — | — | | |
| | | 1343 | | | 20.0 | 6500 | — | — | | |
| 7/8 | — | 1270 | REM 209P STS | FED 12SO | — | — | 17.0 | 7100 | | |
| | | 1322 | | | — | — | 18.0 | 8000 | | |
| | | 1367 | | | — | — | 19.0 | 8500 | | |
| | | 1419 | | | — | — | 20.0 | 9800 | | |
| | | 1169 | | | 17.0 | 5600 | — | — | | |
| | | 1215 | | | 18.0 | 6200 | — | — | | |
| | | 1281 | | | 19.0 | 7300 | — | — | | |
| | | 1314 | | | 20.0 | 7600 | — | — | | |
| 1 | — | 1092 | REM 209P STS | FED 12SO | — | — | 15.0 | 5600 | | |
| | | 1150 | | | — | — | 16.0 | 6600 | | |
| | | 1207 | | | — | — | 17.0 | 7500 | | |
| | | 1263 | | | — | — | 18.0 | 8500 | | |
| | | 1100 | | | 17.0 | 5200 | — | — | | |
| | | 1153 | | | 18.0 | 5900 | — | — | | |
| | | 1220 | | | 19.0 | 7200 | — | — | | |
| | | 1270 | | | 20.0 | 8400 | — | — | | |
| 1 1/8 | — | 1074 | REM 209P STS | REM TGT | — | — | 15.0 | 6500 | | |
| | | 1122 | | | — | — | 16.0 | 7300 | | |
| | | 1163 | | | — | — | 17.0 | 8100 | | |
| | | 1236 | | | — | — | 18.0 | 10100 | | |
| | | 1010 | | | 15.0 | 5600 | — | — | | |
| | | 1051 | | | 16.0 | 6100 | — | — | | |
| | | 1110 | | | 17.0 | 7600 | — | — | | |
| | | 1146 | | | 18.0 | 8000 | — | — | | |

SHOT SHELL

REGULAR TARGET LOADS

| | | | | | | | | | | |
|---------|-------------------------------|------|----------|--------------|-------|------|------|------|--|--|
| 7/8 | — | 1325 | CHED 209 | WIN 7/8 GREY | 21.0 | 6700 | 18.0 | 8100 | | |
| | | | CCI 209 | REM TGT | 21.5 | 6600 | 18.5 | 8000 | | |
| | | | FED209A | REM TGT | 20.5 | 7600 | 18.0 | 9000 | | |
| | | | REM209P | REM TGT | 21.5 | 6400 | 18.0 | 8100 | | |
| | | | WIN 209 | REM TGT | 21.0 | 7500 | 18.0 | 7600 | | |
| | | | FIO 616 | GREEN DUSTER | 21.0 | 6800 | 18.0 | 8100 | | |
| | | | CCI209M | REM TGT | 21.0 | 7000 | 18.0 | 8000 | | |
| 7/8 | — | 1435 | REM209P | REM TGT | 23.5 | 8100 | 21.0 | 8100 | | |
| 1 | 2 ³ / ₄ | 1200 | REM209P | REM FIG 8 | 20.0 | 6600 | 16.5 | 7600 | | |
| | | | REM209P | REM TGT 12 | 19.5 | 7000 | 16.5 | 7400 | | |
| | | | REM209P | CB 1100 | 19.5 | 6500 | 16.0 | 7500 | | |
| | | | REM209P | GREEN DUSTER | 18.5 | 8100 | 16.0 | 8000 | | |
| | | | REM209P | TRAPPER | 19.0 | 6700 | 16.0 | 8800 | | |
| | | | CCI 209 | REM FIG 8 | 19.5 | 6300 | 16.5 | 7800 | | |
| | | | CCI 209 | REM TGT 12 | 20.0 | 6200 | 16.5 | 7900 | | |
| | | | WIN 209 | REM FIG 8 | 19.0 | 7100 | 16.0 | 7500 | | |
| | | | WIN 209 | REM TGT 12 | 19.5 | 7200 | 16.0 | 7700 | | |
| | | | FED209A | REM FIG 8 | 18.5 | 7500 | 16.0 | 8400 | | |
| | | | FED209A | REM TGT 12 | 18.5 | 7400 | 16.0 | 8300 | | |
| | | | REM209P | REM FIG 8 | 21.5 | 7300 | 18.0 | 9300 | | |
| REM209P | REM TGT 12 | 22.0 | 7500 | 18.0 | 10100 | | | | | |
| REM209P | CB 1100 | 21.5 | 7700 | 18.0 | 10100 | | | | | |

| 12-Ga., 2 ³ / ₄ -IN. Remington STS [®] Plastic Target Shells Min. Overall Length: 2 ⁷ / ₈ -IN. | | | Max. Crimp Depth: 3 ¹ / ₂ -IN. | | SOLO 1000 | | NITRO 100 | | SOLO 1250 | |
|---|-------------------------------|----------------------------|---|--------------|------------|----------------------|------------|----------------------|------------|----------------------|
| Ounces Lead | Dram Equivalent | Approx. Velocity, Ft./Sec. | Primer Type | Wad Type | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI |
| 1 | 3 ³ / ₄ | 1290 | REM209P | GREEN DUSTER | 21.0 | 9100 | 18.0 | 9900 | | |
| | | | REM209P | TRAPPER | 21.0 | 7900 | 17.5 | 10200 | | |
| | | | CCI 209 | REM FIG 8 | 22.0 | 7700 | 18.0 | 8700 | | |
| | | | CCI 209 | REM TGT 12 | 22.0 | 7800 | 18.0 | 10200 | | |
| | | | WIN 209 | REM FIG 8 | 21.0 | 8600 | 18.0 | 9200 | | |
| | | | WIN 209 | REM TGT 12 | 21.5 | 8700 | 18.0 | 9900 | | |
| | | | FED209A | REM FIG 8 | 20.5 | 9000 | 18.0 | 10200 | | |
| | | | FED209A | REM TGT 12 | 20.5 | 8900 | 18.0 | 10900 | | |
| | | | CCI209M | REM FIG 8 | 21.0 | 9100 | 18.0 | 10000 | | |
| | | | CCI209M | REM TGT 12 | 21.0 | 8200 | 18.0 | 10400 | | |
| 1 ¹ / ₈ | Extra Light | 1125 | REM209P | REM FIG 8 | 18.0 | 8300 | 16.0 | 6500 | | |
| | | | REM209P | REM RXP 12 | 18.0 | 8200 | 16.0 | 7200 | | |
| | | | WIN 209 | BLUE DUSTER | 18.5 | 8500 | 16.0 | 7400 | | |
| | | | FED209A | REM RXP 12 | 18.0 | 8900 | 15.5 | 7900 | | |
| | | | CCI209M | REM RXP 12 | 17.5 | 9600 | 16.0 | 6900 | | |
| 1 ¹ / ₈ | 2 ³ / ₄ | 1145 | REM209P | REM FIG 8 | 18.5 | 8400 | 16.5 | 7900 | 18.0 | 7600 |
| | | | REM209P | REM TGT 12 | 18.5 | 7200 | 16.5 | 8500 | 18.0 | 6800 |
| | | | REM209P | REM RXP 12 | 18.5 | 8800 | 16.5 | 9300 | | |
| | | | REM209P | VERSALITE | 19.0 | 7700 | 16.0 | 8100 | 18.0 | 7000 |
| | | | REM209P | P.C. (Red) | 18.5 | 8300 | 16.5 | 7200 | | |
| | | | REM209P | BLUE DUSTER | 19.0 | 7600 | 16.5 | 7600 | | |
| | | | REM209P | CB 1118 | 19.0 | 7600 | 16.5 | 7900 | | |
| | | | REM209P | WAA12 | 19.0 | 9200 | 16.5 | 8600 | | |
| | | | CCI 209 | REM FIG 8 | 19.0 | 8300 | 17.0 | 7900 | 18.0 | 6800 |
| | | | CCI 209 | REM TGT 12 | 19.0 | 7300 | 17.0 | 8000 | 18.0 | 7300 |
| | | | CCI 209 | REM RXP 12 | 19.0 | 7600 | 17.0 | 7700 | 18.0 | 7300 |
| | | | WIN 209 | REM FIG 8 | 18.5 | 8200 | 16.5 | 7900 | 18.0 | 6900 |
| | | | WIN 209 | REM TGT 12 | 18.5 | 8200 | 16.5 | 7800 | 18.0 | 7300 |
| | | | WIN 209 | REM RXP 12 | 18.5 | 8100 | 16.5 | 8300 | 18.0 | 7100 |
| | | | FED209A | BLUE DUSTER | 18.5 | 8500 | 16.0 | 8400 | 18.0 | 7400 |
| | | | FED209A | REM TGT 12 | 18.5 | 8700 | 16.0 | 8400 | 18.0 | 7000 |
| | | | FED209A | REM RXP 12 | 18.5 | 9200 | 16.0 | 9000 | 18.0 | 7300 |
| | | | FIO 616 | REM FIG 8 | 18.5 | 7700 | 16.5 | 6900 | 18.0 | 6700 |
| CCI209M | REM FIG 8 | 18.5 | 7000 | 16.5 | 7800 | 18.0 | 8000 | | | |
| 1 ¹ / ₈ | 3 | 1200 | REM209P | BLUE DUSTER | 20.0 | 8700 | 17.5 | 8900 | 19.5 | 7700 |
| | | | REM209P | REM TGT 12 | 20.0 | 9000 | 17.5 | 8700 | 19.5 | 8100 |
| | | | REM209P | REM RXP 12 | 20.0 | 9000 | 17.5 | 9400 | 20.0 | 8400 |
| | | | REM209P | VERSALITE | 20.0 | 9000 | 17.5 | 9200 | 19.2 | 8100 |
| | | | REM209P | P.C. (Red) | 20.0 | 9100 | 17.5 | 8700 | 19.7 | 7600 |
| | | | REM209P | WINDJAMMER | 20.5 | 8100 | 17.5 | 7700 | 19.7 | 7700 |
| | | | REM209P | CB 1118 | 20.0 | 8200 | 17.5 | 9000 | 19.5 | 8400 |
| | | | REM209P | WAA12 | 20.0 | 8800 | 17.0 | 10200 | 19.5 | 8500 |
| | | | CCI 209 | BLUE DUSTER | 20.0 | 8200 | 18.0 | 10000 | 19.3 | 8400 |
| | | | CCI 209 | REM TGT 12 | 20.0 | 8100 | 18.0 | 9600 | 19.3 | 8400 |
| | | | CCI 209 | REM RXP 12 | 20.0 | 8000 | 17.5 | 9700 | 19.5 | 8100 |
| | | | WIN 209 | REM FIG 8 | 20.0 | 9900 | 17.5 | 9400 | 19.2 | 8600 |
| | | | WIN 209 | REM TGT 12 | 20.0 | 9500 | 17.5 | 9900 | 19.0 | 8400 |
| | | | WIN 209 | REM RXP 12 | 19.5 | 9800 | 17.5 | 9700 | 19.5 | 8600 |
| | | | FED209A | REM FIG 8 | 19.5 | 10000 | 17.5 | 9800 | 19.3 | 8400 |
| | | | FED209A | REM TGT 12 | 19.5 | 10000 | 17.0 | 9600 | 19.3 | 8400 |
| | | | FED209A | REM RXP 12 | 19.5 | 10500 | 17.0 | 10000 | 19.5 | 8100 |

SHOT SHELL

| 12-Ga., 2 ³ / ₄ -IN. Remington STS® Plastic Target Shells Min. Overall Length: 2 ⁹ / ₃₂ -IN. | | | | | Max. Crimp Depth: 3 ¹ / ₃₂ -IN. | | SOLO 1000 | | NITRO 100 | | SOLO 1250 | |
|--|-------------------------------|----------------------------|-------------|-------------|--|----------------------|------------|----------------------|------------|----------------------|------------|----------------------|
| Ounces Lead | Dram Equivalent | Approx. Velocity, Ft./Sec. | Primer Type | Wad Type | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI |
| 1 ¹ / ₈ | 3 | 1200 | FIO 616 | BLUE DUSTER | 20.0 | 9400 | 17.5 | 9400 | 19.2 | 8600 | | |
| | | | CCI209M | REM FIG 8 | 20.0 | 8400 | 17.5 | 8900 | 19.2 | 8800 | | |
| 1 ¹ / ₈ | 3 ¹ / ₄ | 1255 | FED209A | REM RXP 12 | | | | | 24.0 | 8900 | | |
| | | | FED209A | P.C. (Red) | | | | | 24.0 | 8900 | | |
| | | | FED209A | WINDJAMMER | | | | | 24.0 | 10200 | | |
| 1 ¹ / ₈ | 3 ¹ / ₂ | 1310 | REM209P | REM FIG 8 | | | | | 27.5 | 7700 | | |
| | | | REM209P | REM RXP 12 | | | | | 26.5 | 8900 | | |
| | | | REM209P | WAA12F114 | | | | | 25.0 | 8500 | | |
| | | | REM209P | CB 1118 | | | | | 26.0 | 8500 | | |
| | | | REM209P | WINDJAMMER | | | | | — | — | | |
| | | | CCI 209 | WAA12F114 | | | | | 26.5 | 8900 | | |
| | | | WIN 209 | WAA12F114 | | | | | 24.5 | 10400 | | |
| 1 ¹ / ₄ | 3 ³ / ₄ | 1220 | FED209A | WAA12F114 | | | | | 23.5 | 10300 | | |
| | | | FIO 209 | WAA12F114 | | | | | 22.5 | 9700 | | |
| | | | CCISC | WAA12F114 | | | | | 22.5 | 9400 | | |
| | | | CCI209A | WAA12F114 | | | | | 22.5 | 9800 | | |
| | | | CCI 209 | WAA12F114 | | | | | 22.5 | 9400 | | |
| | | | WIN 209 | WAA12F114 | | | | 22.0 | 10400 | | | |

| 12-Ga., 2 ³ / ₄ -IN. Federal Gold Medal Plastic Target Shells Min. Overall Length: 2 ¹⁰ / ₃₂ -IN. | | | | | Max. Crimp Depth: 3 ¹ / ₃₂ -IN. | | SOLO 1000 | | NITRO 100 | | SOLO 1250 | |
|---|-----------------|----------------------------|-------------|-----------------|--|----------------------|------------|----------------------|------------|----------------------|------------|----------------------|
| Ounces Lead | Dram Equivalent | Approx. Velocity, Ft./Sec. | Primer Type | Wad Type | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI |
| COWBOY ACTION | | | | | | | | | | | | |
| 3/4 | — | 1150 | FED209A | FED12S0 + 1-135 | — | — | 15.0 | 4200 | | | | |
| | | 1180 | FED209A | FED12S0 + 1-135 | — | — | 16.0 | 4300 | | | | |
| | | 1250 | FED209A | FED12S0 + 1-135 | — | — | 17.0 | 5100 | | | | |
| | | 1296 | FED209A | FED12S0 + 1-135 | — | — | 18.0 | 5500 | | | | |
| | | 1146 | FED209A | FED12S0 + 1-135 | 17.0 | 3900 | — | — | | | | |
| | | 1217 | FED209A | FED12S0 + 1-135 | 18.0 | 4700 | — | — | | | | |
| | | 1262 | FED209A | FED12S0 + 1-135 | 19.0 | 5100 | — | — | | | | |
| | | 1327 | FED209A | FED12S0 + 1-135 | 20.0 | 6200 | — | — | | | | |
| 7/8 | — | 1079 | FED209A | FED12S0 + 1-135 | — | — | 15.0 | 4400 | | | | |
| | | 1137 | FED209A | FED12S0 + 1-135 | — | — | 16.0 | 4900 | | | | |
| | | 1212 | FED209A | FED12S0 + 1-135 | — | — | 17.0 | 6000 | | | | |
| | | 1269 | FED209A | FED12S0 + 1-135 | — | — | 18.0 | 6700 | | | | |
| | | 1106 | FED209A | FED12S0 + 1-135 | 17.0 | 4700 | — | — | | | | |
| | | 1169 | FED209A | FED12S0 + 1-135 | 18.0 | 5500 | — | — | | | | |
| | | 1213 | FED209A | FED12S0 + 1-135 | 19.0 | 6000 | — | — | | | | |
| | | 1275 | FED209A | FED12S0 + 1-135 | 20.0 | 6900 | — | — | | | | |
| 1 | — | 1087 | FED209A | FED 12S0 | — | — | 15.0 | 5500 | | | | |
| | | 1125 | FED209A | FED 12S0 | — | — | 16.0 | 5900 | | | | |
| | | 1193 | FED209A | FED 12S0 | — | — | 17.0 | 6900 | | | | |
| | | 1257 | FED209A | FED 12S0 | — | — | 18.0 | 7900 | | | | |
| | | 1108 | FED209A | FED 12S0 | 17.0 | 5700 | — | — | | | | |
| | | 1167 | FED209A | FED 12S0 | 18.0 | 6800 | — | — | | | | |
| | | 1209 | FED209A | FED 12S0 | 19.0 | 7500 | — | — | | | | |
| | | 1244 | FED209A | FED 12S0 | 20.0 | 7900 | — | — | | | | |

SHOT SHELL

| 12-Ga., 2 ³ / ₄ -IN. Federal Gold Medal Plastic Target Shells Min. Overall Length: 2 ¹¹ / ₃₂ -IN. | | | | | SOLO 1000 | | NITRO 100 | | SOLO 1250 | |
|---|-------------------------------|----------------------------|-------------|--------------|------------|----------------------|------------|----------------------|------------|----------------------|
| Ounces Lead | Dram Equivalent | Approx. Velocity, Ft./Sec. | Primer Type | Wad Type | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI |
| 1 ¹ / ₈ | — | 1062 | FED209A | FED 12S0 | — | — | 15.0 | 6600 | | |
| | | 1113 | FED209A | FED 12S0 | — | — | 16.0 | 7400 | | |
| | | 1172 | FED209A | FED 12S0 | — | — | 17.0 | 8700 | | |
| | | 1216 | FED209A | FED 12S0 | — | — | 18.0 | 9500 | | |
| | | 1108 | FED209A | FED 12S3 | 17.0 | 7800 | — | — | | |
| | | 1130 | FED209A | FED 12S3 | 18.0 | 7900 | — | — | | |
| | | 1182 | FED209A | FED 12S3 | 19.0 | 8700 | — | — | | |
| 1223 | FED209A | FED 12S3 | 20.0 | 9600 | — | — | | | | |
| REGULAR TARGET LOADS | | | | | | | | | | |
| 7 ⁷ / ₈ | — | 1325 | CCI 209 | FED 12S0 | 22.5 | 5900 | 19.5 | 6000 | | |
| | | | FED209A | FED 12S0 | 21.5 | 7100 | 18.5 | 7600 | | |
| | | | CCI209SC | FED 12S0 | 20.5 | 7600 | 19.5 | 7000 | | |
| | | | WIN 209 | FED 12S0 | 21.5 | 7200 | 19.0 | 7000 | | |
| | | | FIO 616 | FED 12S0 | 21.5 | 7200 | 19.0 | 7300 | | |
| | | | CCI209M | FED 12S0 | 21.0 | 7300 | 19.0 | 7100 | | |
| 1 | 2 ³ / ₄ | 1200 | FED209A | FED 12S3 | 19.5 | 7500 | 17.0 | 7300 | | |
| | | | FED209A | FED 12S0 | 19.5 | 7000 | 17.5 | 7400 | | |
| | | | FED209A | BP ITD | 19.5 | 7000 | 17.5 | 7100 | | |
| | | | FED209A | REM TGT 12 | 19.0 | 6900 | 17.0 | 6800 | | |
| | | | FED209A | WINDJAMMER | 19.5 | 6900 | 17.5 | 7200 | | |
| | | | FED209A | WAA12SL | 19.0 | 7300 | 17.0 | 7000 | | |
| | | | FED209A | GREEN DUSTER | 19.5 | 7000 | | | | |
| | | | FED209A | ACT T-28 | 20.5 | 7500 | | | | |
| | | | CCI 209 | FED 12S0 | 20.5 | 6900 | 18.5 | 6500 | | |
| | | | WIN 209 | FED 12S0 | 20.0 | 7600 | 17.5 | 7400 | | |
| | | | REM209P | FED 12S0 | 20.0 | 6700 | 18.5 | 6700 | | |
| | | | FIO 616 | FED 12S0 | 20.0 | 8200 | 17.0 | 7200 | | |
| | | | | | | CCI209M | FED 12S0 | 19.5 | 8300 | 17.0 |
| 1 | 3 ³ / ₄ | 1290 | FED209A | FED 12S3 | 21.5 | 9200 | 19.0 | 9100 | | |
| | | | FED209A | FED 12S0 | 21.5 | 9500 | 18.5 | 9000 | | |
| | | | FED209A | BP ITD | 21.5 | 8500 | 19.0 | 8100 | | |
| | | | FED209A | REM TGT 12 | 21.5 | 8700 | 18.5 | 8700 | | |
| | | | FED209A | REM FIG 8 | 21.5 | 8500 | 19.0 | 8100 | | |
| | | | FED209A | WAA12SL | 21.5 | 9500 | 19.0 | 9000 | | |
| | | | FED209A | GREEN DUSTER | 22.0 | 8800 | | | | |
| | | | FED209A | ACT T-28 | 22.5 | 8100 | | | | |
| | | | CCI 209 | FED 12S0 | 22.5 | 8500 | 20.0 | 8900 | | |
| | | | WIN 209 | FED 12S0 | 22.0 | 9200 | 19.0 | 9100 | | |
| | | | REM209P | FED 12S0 | 22.5 | 8200 | 20.0 | 8900 | | |
| | | | FIO 616 | FED 12S0 | 22.5 | 9500 | 19.0 | 9300 | | |
| | | | | | | CCI209M | FED 12S0 | 22.0 | 9100 | 19.0 |
| 1 ¹ / ₈ | Extra Light | 1125 | FED209A | FED 12S3 | 18.5 | 7100 | 16.0 | 7800 | | |
| | | | FED209A | FED 12C1 | 18.5 | 7100 | | | | |
| | | | FED209A | VERSALITE | 18.5 | 7600 | | | | |
| | | | FED209A | P.C. (Red) | 18.5 | 7400 | | | | |
| | | | FED209A | WINDJAMMER | 19.0 | 6500 | 16.3 | 7300 | | |
| | | | FED209A | CB 1118 | 17.5 | 7400 | 16.0 | 7200 | | |
| | | | FED209A | REM FIG 8 | 17.5 | 7100 | 16.5 | 7100 | | |
| | | | FED209A | UNIWAD | 17.5 | 7100 | | | | |

SHOT SHELL

| 12-Ga., 2 ³ / ₄ -IN. Federal Gold Medal Plastic Target Shells Min. Overall Length: 2 ⁹ / ₃₂ -IN. | | | | Max. Crimp Depth: 7 ³ / ₃₂ -IN. | | SOLO 1000 | | NITRO 100 | | SOLO 1250 | |
|--|-----------------|----------------------------|-------------|--|------------|----------------------|------------|----------------------|------------|----------------------|--|
| Ounces Lead | Dram Equivalent | Approx. Velocity, Ft./Sec. | Primer Type | Wad Type | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI | |
| 1 1/8 | Extra Light | 1125 | FED209A | BLUE DUSTER | 17.5 | 7200 | | | | | |
| | | | FED209A | ACT TG-30 | 19.0 | 8200 | | | | | |
| | | | CCI 209 | FED 12S3 | 19.0 | 7300 | 16.5 | 6900 | | | |
| | | | WIN 209 | FED 12S3 | 19.0 | 7900 | 16.0 | 6600 | | | |
| | | | REM209P | FED 12S3 | 19.0 | 7400 | 16.5 | 6200 | | | |
| | | | FIO 616 | FED 12S3 | 18.5 | 7500 | 16.5 | 6600 | | | |
| | | | CCI209M | FED 12S3 | 18.5 | 8100 | 16.5 | 6700 | | | |
| 1 1/8 | 2 3/4 | 1145 | FED209A | FED 12S3 | 19.0 | 8000 | 16.5 | 8300 | | | |
| | | | FED209A | FED 12S0 | 18.5 | 8100 | 16.5 | 8600 | | | |
| | | | FED209A | FED 12C1 | 19.0 | 8700 | 17.0 | 8000 | | | |
| | | | FED209A | VERSALITE | 19.0 | 8300 | 16.0 | 8000 | | | |
| | | | FED209A | P.C. (Red) | 19.5 | 8400 | 16.5 | 7000 | | | |
| | | | FED209A | WINDJAMMER | 19.5 | 7300 | 16.5 | 7600 | | | |
| | | | FED209A | CB2118 | 19.0 | 7700 | 16.5 | 7600 | | | |
| | | | FED209A | REM FIG 8 | 19.0 | 7700 | 17.0 | 7700 | | | |
| | | | FED209A | BP ITD | 18.5 | 7400 | 16.5 | 7800 | | | |
| | | | FED209A | BLUE DUSTER | 19.0 | 8400 | 16.0 | 7200 | | | |
| | | | FED209A | ACT TG-30 | 19.5 | 8500 | 16.5 | 8700 | | | |
| | | | CCI 209 | FED 12S3 | 19.5 | 7600 | 17.5 | 7000 | | | |
| | | | WIN 209 | FED 12S3 | 19.5 | 8000 | 17.5 | 7200 | | | |
| | | | REM209P | FED 12S3 | 19.5 | 8000 | 17.5 | 7100 | | | |
| FIO 616 | FED 12S3 | 19.0 | 7800 | 17.5 | 7200 | | | | | | |
| | | | CCI209M | FED 12S3 | 19.0 | 8300 | 17.5 | 7400 | | | |
| 1 1/8 | 3 | 1200 | FED209A | FED 12S3 | 20.0 | 9700 | 17.5 | 8800 | 22.7 | 7200 | |
| | | | FED209A | FED 12S0 | 19.5 | 9200 | 17.5 | 9500 | 22.5 | 7600 | |
| | | | FED209A | FED 12C1 | 20.0 | 9200 | 17.5 | 8800 | 22.5 | 6900 | |
| | | | FED209A | VERSALITE | 19.5 | 9300 | 17.0 | 8700 | 22.5 | 7500 | |
| | | | FED209A | P.C. (Red) | 20.0 | 8400 | 18.0 | 8300 | 23.0 | 6800 | |
| | | | FED209A | WINDJAMMER | 21.0 | 7900 | 18.0 | 8500 | 22.5 | 7100 | |
| | | | FED209A | CB2118 | 19.5 | 9300 | 17.5 | 8800 | 22.5 | 7000 | |
| | | | FED209A | REM FIG 8 | 19.5 | 9000 | 17.5 | 8100 | 23.0 | 6700 | |
| | | | FED209A | BP ITD | 20.0 | 8800 | 17.5 | 8700 | 22.5 | 7000 | |
| | | | FED209A | BLUE DUSTER | 19.5 | 10000 | 18.0 | 8500 | 22.5 | 7500 | |
| | | | FED209A | ACT TG-30 | 20.5 | 9600 | 17.5 | 9200 | 22.5 | 7600 | |
| | | | CCI 209 | FED 12S3 | 20.5 | 8700 | 18.5 | 8000 | 23.0 | 6400 | |
| | | | WIN 209 | FED 12S3 | 20.5 | 8700 | 18.5 | 8500 | 23.0 | 7100 | |
| | | | REM209P | FED 12S3 | 20.5 | 8600 | 18.5 | 8300 | | | |
| FIO 616 | FED 12S3 | 20.5 | 8700 | 18.5 | 8500 | 23.0 | 7300 | | | | |
| | | | CCI209M | FED 12S3 | 20.0 | 9400 | 18.5 | 8700 | 22.5 | 7100 | |
| 1 1/8 | 3 1/4 | 1255 | FED209A | FED 12S3 | 21.0 | 10200 | 18.5 | 10500 | 23.5 | 8000 | |
| | | | FED209A | FED 12C1 | 21.0 | 10500 | 18.5 | 10000 | 23.5 | 8100 | |
| | | | FED209A | VERSALITE | 20.5 | 10200 | 18.5 | 10200 | 23.5 | 8000 | |
| | | | FED209A | P.C. (Red) | 21.0 | 9600 | 19.0 | 9400 | 24.0 | 7500 | |
| | | | FED209A | WINDJAMMER | 22.5 | 8700 | 18.5 | 9100 | 23.5 | 7700 | |
| | | | FED209A | CB2118 | 20.5 | 10700 | 18.5 | 10100 | 23.5 | 7900 | |
| | | | FED209A | REM FIG 8 | 20.5 | 10300 | 19.0 | 9600 | 23.5 | 7200 | |
| | | | FED209A | BP ITD | 21.0 | 9700 | 19.0 | 10200 | 24.0 | 7700 | |
| | | | FED209A | BLUE DUSTER | 20.5 | 10600 | 18.5 | 9700 | 23.5 | 7800 | |
| | | | FED209A | ACT TG-30 | 22.0 | 10700 | 18.5 | 10600 | 23.5 | 7700 | |
| | | | CCI 209 | FED 12S3 | 22.0 | 10200 | 19.5 | 9700 | | | |

SHOT SHELL

SHOTSHELL DATA

SHOTSHELL DATA

| 12-Ga., 2 ³ / ₄ -IN. Federal Gold Medal Plastic Target Shells Min. Overall Length: 2 ¹ / ₃₂ -IN. | | | Max. Crimp Depth: 3 ¹ / ₃₂ -IN. | | SOLO 1000 | | NITRO 100 | | SOLO 1250 | |
|--|-------------------------------|-------------------------------|--|-------------|------------|----------------------|------------|----------------------|------------|----------------------|
| Ounces Lead | Dram Equiv- alent | Approx. Velocity, Ft./Sec. | Primer Type | Wad Type | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI |
| 1 ¹ / ₈ | 3 ³ / ₄ | 1255 | WIN 209 | FED 12S3 | 22.0 | 9700 | 19.5 | 10200 | 23.5 | 8000 |
| | | | REM209P | FED 12S3 | 22.0 | 9600 | 19.0 | 10000 | | |
| | | | FIO 616 | FED 12S3 | 22.0 | 9500 | 19.5 | 10200 | 23.5 | 7600 |
| | | | CCI209M | FED 12S3 | 21.5 | 10700 | 19.5 | 10900 | 23.5 | 7500 |
| 1 ¹ / ₈ | 3 ¹ / ₂ | 1310 | FED209A | FED 12S3 | | | | | 25.0 | 9100 |
| | | | FED209A | FED 12C1 | | | | | 25.0 | 9200 |
| | | | FED209A | ACT TG-30 | | | | | 25.0 | 8600 |
| | | | FED209A | BLUE DUSTER | | | | | 25.0 | 8900 |
| | | | FED209A | REM RXP 12 | | | | | 25.5 | 8500 |
| | | | FED209A | VERSALITE | | | | | 25.0 | 8800 |
| | | | FED209A | CB2118 | | | | | 25.0 | 8400 |
| | | | FED209A | WINDJAMMER | | | | | 25.5 | 8200 |
| | | | CCI209SC | FED 12S3 | | | | | 25.0 | 8100 |
| | | | WIN 209 | FED 12S3 | | | | | 25.5 | 9600 |
| | | | FIO 616 | FED 12S3 | | | | | 25.0 | 9100 |
| | | | CCI209M | FED 12S3 | | | | | 25.0 | 8600 |
| 1 ¹ / ₄ | 3 ³ / ₄ | 1220 | FED209A | FED 12S4 | | | | | 23.0 | 9700 |
| | | | FED209A | FED 12C1 | | | | | 24.0 | 8600 |
| | | | CCI 209 | FED 12S4 | | | | | 24.5 | 8200 |
| | | | WIN 209 | FED 12S4 | | | | | 24.0 | 8800 |
| | | | CCI209M | FED 12S4 | | | | | 23.5 | 9500 |
| 1 ¹ / ₄ | 3 ¹ / ₂ | 1275 | FED209A | FED 12S4 | | | | | 25.0 | 10500 |

SHOT SHELL

| 12-Ga., 2 ³ / ₄ -IN. Federal Champion Paper Target Shells Min. Overall Length: 2 ¹ / ₃₂ -IN. | | | Max. Crimp Depth: 3 ¹ / ₃₂ -IN. | | SOLO 1000 | | NITRO 100 | | SOLO 1250 | |
|--|-------------------------------|-------------------------------|--|-----------|------------|----------------------|------------|----------------------|------------|----------------------|
| Ounces Lead | Dram Equiv- alent | Approx. Velocity, Ft./Sec. | Primer Type | Wad Type | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI |
| 7 ⁷ / ₈ | — | 1325 | CCI 209 | FED 12S0 | 23.0 | 5800 | 20.5 | 6300 | | |
| | | | FED209A | FED 12S0 | 22.5 | 6700 | 19.5 | 6800 | | |
| | | | REM209P | FED 12S0 | 23.0 | 6900 | 20.5 | 6600 | | |
| | | | WIN 209 | FED 12S0 | 21.5 | 7200 | 19.5 | 6400 | | |
| | | | FIO 616 | FED 12S0 | 21.5 | 7400 | 20.0 | 6400 | | |
| | | | CCI209M | FED 12S0 | 21.5 | 7200 | 20.0 | 6400 | | |
| 1 | 2 ³ / ₄ | 1200 | FED209A | FED 12S3 | 19.5 | 6600 | 17.5 | 6600 | | |
| | | | FED209A | WAA12 | 19.5 | 5500 | 17.5 | 6800 | | |
| | | | WIN 209 | FED 12S3 | 19.5 | 6500 | 17.5 | 6400 | | |
| | | | FIO 616 | FED 12S3 | 19.5 | 6800 | 17.5 | 6800 | | |
| | | | CCI209M | FED 12S3 | 19.5 | 6700 | 17.5 | 6500 | | |
| 1 | 3 ³ / ₄ | 1290 | FED209A | FED 12S3 | 21.5 | 9000 | 19.5 | 8600 | | |
| | | | FED209A | WAA12 | 21.0 | 7500 | 19.0 | 8400 | | |
| | | | WIN 209 | FED 12S3 | 21.5 | 8300 | 19.0 | 8600 | | |
| | | | FIO 616 | FED 12S3 | 21.5 | 8600 | 19.0 | 8100 | | |
| | | | CCI209M | FED 12S3 | 21.5 | 9000 | 19.0 | 7900 | | |
| 1 ¹ / ₈ | 2 ³ / ₄ | 1145 | FED209A | FED 12C1 | 19.5 | 7500 | 17.0 | 7500 | | |
| | | | FED209A | FED 12S4 | 18.5 | 8500 | 16.5 | 8200 | | |
| | | | FED209A | WAA12 | 18.5 | 7900 | 16.5 | 7800 | | |
| | | | FED209A | BP TRAP C | 19.0 | 8200 | 17.0 | 7800 | | |
| | | | FED209A | HAWK II | 18.5 | 8200 | 17.0 | 7600 | | |
| | | | WIN 209 | FED 12C1 | 19.5 | 7900 | 17.0 | 6700 | | |

| 12-Ga., 2 ³ / ₄ -IN. Federal Champion Paper Target Shells Min. Overall Length: 2 ⁹ / ₃₂ -IN. | | | Max. Crimp Depth: ⁷ / ₃₂ -IN. | | SOLO 1000 | | NITRO 100 | | SOLO 1250 | |
|--|-------------------------------|-------------------------------|--|-----------|------------|----------------------|------------|----------------------|------------|----------------------|
| Ounces Lead | Dram Equiv- alent | Approx. Velocity, Ft./Sec. | Primer Type | Wad Type | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI |
| 1 ¹ / ₈ | 2 ³ / ₄ | 1145 | FIO 616 | FED 12C1 | 19.5 | 8100 | 17.5 | 6300 | | |
| | | | CCI209M | FED 12C1 | 19.0 | 7600 | 17.5 | 7200 | | |
| 1 ¹ / ₈ | 3 | 1200 | FED209A | FED 12C1 | 20.5 | 8800 | 18.5 | 8700 | | |
| | | | FED209A | FED 12S4 | 19.5 | 9800 | 17.5 | 9700 | | |
| | | | FED209A | WAA12 | 20.0 | 9500 | 18.0 | 9000 | | |
| | | | FED209A | BP TRAP C | 20.0 | 9100 | 18.0 | 8900 | | |
| | | | FED209A | HAWK II | 19.5 | 8800 | 18.0 | 8900 | | |
| | | | WIN 209 | FED 12C1 | 20.5 | 8900 | 18.0 | 8000 | | |
| | | | FIO 616 | FED 12C1 | 20.5 | 8200 | 18.5 | 8000 | | |
| | | | CCI209M | FED 12C1 | 20.0 | 8900 | 18.0 | 8500 | | |
| 1 ¹ / ₈ | 3 ³ / ₄ | 1255 | FED209A | FED 12C1 | 22.5 | 10100 | 20.0 | 10500 | | |
| | | | FED209A | FED 12S4 | 21.0 | 10800 | 19.0 | 11300 | | |
| | | | FED209A | WAA12 | 21.0 | 10500 | 19.0 | 10000 | 23.5 | 7500 |
| | | | FED209A | BP TRAP | 21.0 | 10900 | 19.0 | 9900 | 24.5 | 7800 |
| | | | FED209A | HAWK II | 20.5 | 9600 | 19.0 | 9500 | 25.0 | 7500 |
| | | | WIN 209 | FED 12C1 | 21.5 | 10000 | 19.0 | 9200 | 25.0 | 7600 |
| | | | CCI209M | FED 12C1 | 21.5 | 9600 | 19.0 | 8700 | 25.0 | 7700 |
| 1 ¹ / ₈ | 3 ¹ / ₂ | 1310 | FED209A | FED 12C1 | | | | | 26.0 | 8000 |
| | | | FED209A | WAA12F114 | | | | | 26.0 | 9200 |
| | | | FED209A | VERSALITE | | | | | 25.0 | 8500 |
| | | | CCI 209M | FED 12C1 | | | | | 25.5 | 8100 |
| | | | WIN 209 | FED 12C1 | | | | | 25.5 | 8000 |
| | | | FIO 616 | FED 12C1 | | | | | 26.0 | 7300 |
| | | | FED209A | HAWK II | | | | | 26.0 | 8100 |
| 1 ¹ / ₄ | 3 ³ / ₄ | 1220 | FED209A | FED 12S4 | | | | | 24.0 | 8000 |
| | | | FED209A | WAA12F114 | | | | | 24.0 | 9300 |
| | | | FED209A | REM RP12 | | | | | 24.0 | 8500 |
| | | | CCI 209 | FED 12S4 | | | | | 24.5 | 8300 |
| | | | WIN 209 | FED 12S4 | | | | | 24.0 | 9400 |
| | | | FIO 616 | FED 12S4 | | | | | 24.0 | 9200 |
| | | | CCI209M | FED 12S4 | | | | | 24.0 | 9300 |
| 1 ¹ / ₄ | 3 ¹ / ₂ | 1275 | FED209A | FED 12S4 | | | | | 25.0 | 9700 |

SHOT SHELL

| 12-Ga., 2 ³ / ₄ -IN. Flocchi Target Shells Min. Overall Length: 2 ⁹ / ₃₂ -IN. | | | Max. Crimp Depth: ⁷ / ₃₂ -IN. | | SOLO 1000 | | NITRO 100 | | SOLO 1250 | |
|---|-------------------------------|-------------------------------|--|----------|------------|----------------------|------------|----------------------|------------|----------------------|
| Ounces Lead | Dram Equiv- alent | Approx. Velocity, Ft./Sec. | Primer Type | Wad Type | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI |
| 7 ⁷ / ₈ | — | 1325 | CCI209SC | BP 078 | 20.5 | 7600 | 18.5 | 7700 | | |
| | | | FED209A | BP 078 | 20.0 | 8100 | 18.0 | 8500 | | |
| | | | WIN 209 | BP 078 | 20.5 | 8000 | 18.0 | 7700 | | |
| | | | FIO 616 | BP 078 | 20.5 | 7700 | 18.5 | 8100 | | |
| | | | CCI209M | BP 078 | 21.0 | 7400 | 18.5 | 8000 | | |
| 1 | 2 ³ / ₄ | 1200 | FIO 616 | FED 12S0 | 19.5 | 7800 | 17.0 | 8100 | | |
| | | | WIN 209 | FED 12S0 | 20.0 | 8500 | 17.0 | 7200 | | |
| | | | REM209P | FED 12S0 | 20.5 | 6900 | 17.0 | 7100 | | |
| | | | FED209A | FED 12S0 | 19.0 | 8000 | 17.0 | 8500 | | |
| | | | CCI209M | FED 12S0 | 19.5 | 7600 | 17.0 | 7400 | | |
| 1 | 3 ³ / ₄ | 1290 | FIO 616 | FED 12S3 | 21.0 | 10500 | 18.5 | 9900 | | |
| | | | WIN 209 | FED 12S3 | 20.5 | 11400 | 18.5 | 8800 | | |

SHOT SHELL

| 12-Ga., 2¾-IN. FIOCCHI Target Shells Min. Overall Length: 2⅞-IN. | | | Max. Crimp Depth: ⅞-IN. | | SOLO 1000 | | NITRO 100 | | SOLO 1250 | |
|--|-----------------|----------------------------|----------------------------|------------|------------|----------------------|------------|----------------------|------------|----------------------|
| Ounces Lead | Dram Equivalent | Approx. Velocity, Ft./Sec. | Primer Type | Wad Type | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI |
| 1 | ¾ | 1290 | REM209P | FED 12S3 | 22.0 | 9700 | 18.5 | 8800 | | |
| | | | FED209A | FED 12S3 | 20.5 | 10700 | 18.5 | 10300 | | |
| | | | CCI209M | FED 12S3 | 21.0 | 9900 | 18.5 | 8900 | | |
| 1½ | Extra Light | 1125 | FIO 616 | FED 12S3 | 18.5 | 7300 | 15.5 | 8000 | | |
| | | | FIO 616 | Super Hawk | 18.0 | 7400 | 15.5 | 8000 | | |
| | | | WIN 209 | FED 12S3 | 18.0 | 7500 | 15.5 | 7300 | | |
| | | | WIN 209 | Super Hawk | 17.5 | 7800 | 15.5 | 7300 | | |
| | | | REM209P | FED 12S3 | 19.0 | 6100 | 16.0 | 7800 | | |
| | | | REM209P | Super Hawk | 18.0 | 7200 | 16.0 | 7600 | | |
| | | | FED209A | FIOTL1 | 18.0 | 8200 | 15.5 | 8800 | | |
| | | | FED209A | Super Hawk | 18.0 | 8300 | 15.5 | 8400 | | |
| | | | CCI209M | FIOTL1 | 19.0 | 7000 | 15.5 | 8000 | | |
| CCI209M | Super Hawk | 19.0 | 7900 | 16.0 | 7500 | | | | | |
| 1½ | 2¾ | 1145 | FIO 616 | FIOTL1 | 19.0 | 8200 | 16.5 | 8100 | | |
| | | | FIO 616 | Super Hawk | 18.5 | 7900 | 16.0 | 8100 | | |
| | | | WIN 209 | FIOTL1 | 18.5 | 7900 | 16.5 | 8300 | | |
| | | | WIN 209 | Super Hawk | 18.5 | 8400 | 16.0 | 7900 | | |
| | | | REM209P | FIOTL1 | 19.5 | 7300 | 16.5 | 8000 | | |
| | | | REM209P | Super Hawk | 18.5 | 7600 | 16.5 | 7900 | | |
| | | | FED209A | FIOTL1 | 19.0 | 8400 | 16.5 | 9300 | | |
| | | | FED209A | Super Hawk | 19.0 | 8600 | 16.0 | 9100 | | |
| | | | CCI209M | FIOTL1 | 19.0 | 7800 | 16.5 | 9100 | | |
| CCI209M | Super Hawk | 18.5 | 8200 | 16.5 | 8000 | | | | | |
| 1½ | 3 | 1200 | FIO 616 | FIOTL1 | 20.0 | 9200 | 17.5 | 9100 | 22.0 | 7400 |
| | | | FIO 616 | WAA12 | 19.5 | 9000 | 17.5 | 9000 | 22.0 | 7300 |
| | | | WIN 209 | FIOTL1 | 20.5 | 7900 | 17.5 | 8900 | 22.0 | 7600 |
| | | | WIN 209 | WAA12 | 19.5 | 9900 | 17.5 | 9900 | 22.0 | 7400 |
| | | | REM209P | FIOTL1 | 20.5 | 8000 | 17.5 | 9100 | | |
| | | | REM209P | REM RXP | 20.0 | 8100 | 17.5 | 9000 | | |
| | | | FED209A | FIOTL1 | 20.0 | 10900 | 17.5 | 10500 | 22.0 | 7500 |
| | | | FED209A | WAA12 | 19.0 | 9600 | 17.0 | 9900 | 22.0 | 7600 |
| | | | CCI209M | FIOTL1 | 20.0 | 8800 | 17.5 | 10300 | 22.5 | 6900 |
| CCI209M | WAA12 | 19.5 | 8700 | 17.5 | 9600 | 22.5 | 7200 | | | |
| 1½ | ¾ | 1255 | FIO 616 | FED 12S3 | 21.5 | 9100 | 18.5 | 10900 | 23.0 | 8200 |
| | | | FIO 616 | ACT TG-30 | 21.5 | 9000 | 18.5 | 10800 | | |
| | | | WIN 209 | FED 12S3 | 21.5 | 9100 | 18.5 | 10700 | 22.5 | 8400 |
| | | | FED209A | FED 12S3 | 21.5 | 9400 | | | 22.5 | 8700 |
| 1½ | ¾ | 1310 | FIO 616 | FIOTL1 | | | | | 24.0 | 9700 |
| | | | FIO 616 | FED 12C1 | | | | | 24.0 | 9200 |
| | | | WIN 209 | WAA12F114 | | | | | 23.5 | 10000 |
| | | | WIN 209 | FIOTL1 | | | | | 24.0 | 10000 |
| | | | FED209A | FIOTL1 | | | | | 23.5 | 9500 |
| | | | FED209A | WAA12F114 | | | | | 23.5 | 10000 |
| | | | REM209P | WAA12F114 | | | | | 25.0 | 9100 |
| | | | REM209P | FED 12C1 | | | | | 25.0 | 7900 |
| CCI209M | FED 12C1 | | | | | 23.5 | 9500 | | | |
| 1¼ | ¾ | 1220 | FIO 616 | FED 12C1 | | | | | 23.0 | 7900 |
| | | | WIN 209 | FED 12C1 | | | | | 23.0 | 8900 |
| | | | WIN 209 | WAA12F114 | | | | | 23.0 | 9900 |
| | | | FED209A | FED 12C1 | | | | | 23.0 | 8900 |
| 1¼ | ¾ | 1275 | FIO 616 | FED 12C1 | | | | 24.5 | 9900 | |

| 12-Ga., 2 ³ / ₃₂ -IN. FIOCCHI Target Shells | | | | SOLO 1000 | | NITRO 100 | | SOLO 1250 | | |
|---|----------------------|-------------------------------|--|-----------|------------|----------------------|------------|----------------------|------------|----------------------|
| Min. Overall Length: 2 ⁹ / ₃₂ -IN. | | | Max. Crimp Depth: ⁷ / ₃₂ -IN. | | | | | | | |
| Ounces Lead | Dram Equiv- alent | Approx. Velocity, Ft./Sec. | Primer Type | Wad Type | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI |
| 1¼ | 3½ | 1275 | FIO 616 | WAA12F114 | | | | | 24.5 | 10600 |
| | | | FIO 616 | WAA12R | | | | | 24.5 | 9100 |
| | | | CCI209SC | WAA12F114 | | | | | 25.0 | 10600 |
| | | | WIN 209 | FED 12C1 | | | | | 24.5 | 9600 |
| | | | FED209A | FED 12C1 | | | | | 24.5 | 10500 |

| 16-Ga., 2 ³ / ₄ -IN. Shotshell Target and Field Loads | | | | | | | | | | | | |
|---|-------------|----------------------|-------------------------------|--|--------------|------------|----------------------|------------|----------------------|------------|----------------------|--|
| Min. Overall Length: 2 ⁹ / ₃₂ -IN. | | | | Max. Crimp Depth: ⁷ / ₃₂ -IN. | | SOLO 1000 | | NITRO 100 | | SOLO 1250 | | |
| Shell Brand | Ounces Lead | Dram Equiv- alent | Approx. Velocity, Ft./Sec. | Primer Type | Wad Type | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI | |
| FED FIELD & HI-P | 1 | 2½ | 1165 | FED209A | AA16 + 1-135 | 16.0 | 10500 | 14.5 | 9700 | 18.5 | 8000 | |
| | | | | WIN 209 | AA16 + 1-135 | 16.0 | 9700 | 15.0 | 9800 | 19.0 | 7400 | |
| | | | | REM209P | SP16 + ¼ | 17.5 | 8800 | 15.0 | 8700 | 20.0 | 7600 | |
| | | | | CCI 209 | AA16 + 1-135 | 17.5 | 9100 | 15.0 | 8900 | 19.0 | 8500 | |
| | | | | | FED209A | BPSP16 | | | 18.5 | 7300 | | |
| | 1 | 2¾ | 1220 | FED209A | AA16 + 1-135 | 17.0 | 11100 | 16.0 | 10900 | 19.0 | 9300 | |
| | | | | WIN 209 | AA16 + 1-135 | 17.0 | 11200 | 16.5 | 10200 | 20.0 | 8300 | |
| | | | | REM209P | SP16 + ¼ | 18.0 | 11500 | 15.5 | 10000 | 22.0 | 8900 | |
| | | | | CCI 209 | AA16 + 1-135 | — | — | 15.5 | 10000 | 20.0 | 8900 | |
| | | | | | FED209A | BPSP16 | — | — | | 20.0 | 8900 | |
| | WIN AA | 1 | 2½ | 1165 | FED209A | WAA16 | | | 17.0 | 9200 | | |
| | | | | | WIN 209 | WAA16 | | | 17.0 | 9500 | | |
| REM209P | | | | | WAA16 | | | 17.5 | 7800 | | | |
| CCI 209 | | | | | WAA16 | | | 17.0 | 7800 | | | |
| 1 | | 2¾ | 1220 | FED209A | WAA16 | | | 18.5 | 10600 | | | |
| | | | | WIN 209 | WAA16 | | | 18.5 | 10700 | | | |
| | | | | REM209P | WAA16 | | | 18.5 | 9300 | | | |
| | | | | CCI 209 | WAA16 | | | 18.5 | 10100 | | | |
| 1½ | 2¾ | 1185 | FED209A | REMSP16 | | | 18.5 | 10700 | | | | |
| | | | WIN 209 | REMSP16 | | | 19.5 | 9800 | | | | |
| ACTIV | 1 | 2½ | 1165 | FED209A | AA16 + 1-135 | 15.0 | 10500 | 15.0 | 10700 | 17.5 | 6000 | |
| | | | | WIN 209 | AA16 + 1-135 | 15.5 | 10900 | 15.0 | 10100 | 17.5 | 6000 | |
| | | | | CCI 209 | AA16 + 1-135 | 15.5 | 10300 | 15.5 | 9600 | 19.0 | 6500 | |
| | 1 | 2¾ | 1220 | FED209A | AA16 + 1-135 | | | 20.0 | 8400 | | | |
| | | | | WIN 209 | AA16 + 1-135 | | | 20.0 | 8000 | | | |
| | | | | CCI 209 | AA16 + 1-135 | | | 20.0 | 8300 | | | |
| | 1½ | 2¾ | 1185 | FED209A | WAA16 | | | 19.0 | 9600 | | | |
| | | | | WIN 209 | WAA16 | | | | | 19.0 | 9200 | |

S H O T S H E L L

| 20-Ga., Cowboy Action Loads | | | | | SOLO 1000 | | NITRO 100 | |
|-----------------------------|-------------|---------------------------|-------------|-------|------------|----------------------|------------|----------------------|
| Shotshell Brand | Ounces Lead | Approx. Velocity Ft./Sec. | Primer Type | Wad | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI |
| WIN AA | ¾ | 1037 | WIN 209 | WAA20 | — | — | 9.5 | 7400 |
| | | 990 | WIN 209 | WAA20 | 10.4 | 7100 | — | — |

| 20-Ga., Cowboy Action Loads | | | | | SOLO 1000 | | NITRO 100 | |
|-----------------------------|-------------|---------------------------|-------------|-------------|------------|----------------------|------------|----------------------|
| Shotshell Brand | Ounces Lead | Approx. Velocity Ft./Sec. | Primer Type | Wad | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI |
| REM STS | 3/4 | 1021 | REM 209 | WAA + 1-135 | — | — | 9.5 | 7400 |
| | | 1030 | REM 209 | WAA + 1-135 | 10.5 | 7600 | — | — |
| FED HI-P | 3/4 | 1072 | FED209A | WAA + 1-135 | — | — | 10.5 | 7500 |
| | | 1042 | FED209A | WAA + 1-135 | 11.0 | 7400 | — | — |

| 20-Ga., 2 3/4-IN. Shotshell Target and Field Loads | | | | | | SOLO 1250 | |
|---|-------------|-----------------|---------------------------|-------------|------------|------------------|----------------------|
| Shotshell Brand | Ounces Lead | Dram Equivalent | Approx. Velocity Ft./Sec. | Primer Type | Wad Type | Grains Solo 1250 | Approx. Pressure PSI |
| Winchester AA (one-piece) 8-point crimp | 7/8 | 2 1/4 | 1155 | WIN 209 | WAA20 | 14.0 | 11400 |
| | | | | WIN 209 | REM RXP 20 | 14.5 | 10300 |
| | | | | WIN 209 | P.C. 20 | 14.5 | 9900 |
| | 7/8 | SKEET | 1200 | WIN 209 | P.C. 20 | 15.5 | 11800 |
| | | | | WIN 209 | WAA20F1 | 15.0 | 12000 |
| | | | | WIN 209 | REM RXP 20 | 15.5 | 11500 |
| Winchester Dove & Quail (polyformed with plastic base wad) 6-point crimp | 7/8 | 2 1/4 | 1155 | WIN 209 | WAA20 | 17.5 | 10200 |
| | | | | WIN 209 | WAA20F1 | 17.5 | 9000 |
| | | | | WIN 209 | REM RXP 20 | 17.5 | 8900 |
| | | | | WIN 209 | P.C. 20 | 17.0 | 9300 |
| | | | | WIN 209 | WINDJAMMER | 16.5 | 10000 |
| | | | | CCI 209 | WAA20 | 16.5 | 8800 |
| | | | | REM209P | WAA20 | 16.5 | 9300 |
| | FED209A | WAA20 | 16.0 | 9400 | | | |
| | 7/8 | SKEET | 1200 | WIN 209 | WAA20 | 18.5 | 10700 |
| | | | | WIN 209 | REM RXP 20 | 18.5 | 10800 |
| | | | | CCI 209 | WAA20 | 18.5 | 10800 |
| | | | | REM209P | WAA20 | 18.5 | 10400 |
| | | | | REM209P | REM RXP 20 | 16.0 | 10200 |
| | | | | REM209P | REM SP20 | 16.0 | 10000 |
| REM209P | | | | WAA20 | 16.0 | 10800 | |
| REM209P | WINDJAMMER | 16.0 | 10400 | | | | |
| REM209P | REM RXP 20 | 17.0 | 11200 | | | | |
| WIN 209 | REM RXP 20 | 17.0 | 11400 | | | | |
| FED209A | REM RXP 20 | 17.0 | 11400 | | | | |
| Federal Hi-Power and Target (two-piece with plastic base wad) 6-point crimp | 7/8 | 2 1/4 | 1155 | FED209A | FED 20S1 | 18.0 | 8900 |
| | | | | FED209A | REM RXP 20 | 18.5 | 8700 |
| | | | | FED209A | P.C. 20 | 18.5 | 8800 |
| | | | | FED209A | WINDJAMMER | 18.0 | 9100 |
| | | | | FED209A | W-28 | 18.5 | 8400 |
| | | | | CCI 209 | FED 20S1 | 18.5 | 8900 |
| | | | | WIN 209 | FED 20S1 | 18.0 | 9100 |
| | 7/8 | SKEET | 1200 | FED209A | FED 20S1 | 19.0 | 9900 |
| | | | | FED209A | REM RXP 20 | 19.5 | 10400 |
| | | | | FED209A | P.C. 20 | 19.5 | 10100 |
| | | | | CCI 209 | FED 20S1 | 19.5 | 10400 |
| WIN 209 | FED 20S1 | 19.0 | 10500 | | | | |

SHOT SHELL

| 20-Ga., 2 ³ / ₄ -IN. Shotshell Target and Field Loads | | | | | | SOLO 1250 | |
|---|-------------|-----------------|---------------------------|-------------|------------|------------------|----------------------|
| Shotshell Brand | Ounces Lead | Dram Equivalent | Approx. Velocity Ft./Sec. | Primer Type | Wad Type | Grains Solo 1250 | Approx. Pressure PSI |
| ACTIV Industries 6-point crimp | 7/8 | 2 1/4 | 1155 | WIN 209 | W-28 | 17.5 | 8700 |
| | | | | WIN 209 | P.C. 20 | 18.0 | 8900 |
| | | | | WIN 209 | WINDJAMMER | 17.5 | 9200 |
| | | | | CCI 209 | W-28 | 18.0 | 9400 |
| | | | | FED209A | W-28 | 17.5 | 9900 |
| | 7/8 | SKEET | 1200 | WIN 209 | W-28 | 18.5 | 10600 |
| | | | | WIN 209 | P.C. 20 | 19.0 | 10400 |
| | | | | WIN 209 | WINDJAMMER | 18.5 | 10800 |
| | | | | CCI 209 | W-28 | 19.0 | 10400 |
| | | | | FED209A | W-28 | 18.5 | 10300 |

| 28-Gauge Shotshell Target Loads | | | | | | SOLO 1250 | | No. 5 | |
|---------------------------------|-------------|-----------------|---------------------------|-------------|--------------|-------------|----------------------|-------------|----------------------|
| Shotshell Brand | Ounces Lead | Dram Equivalent | Approx. Velocity Ft./Sec. | Primer Type | Wad Type | Grains Solo | Approx. Pressure PSI | Grains Solo | Approx. Pressure PSI |
| REMINGTON PREMIER | 3/4 | SKEET | 1155 | REM 209 | REM PT 28 | 13.0 | 10700 | | |
| | | | | | P.C. | 12.5 | 11000 | | |
| | | | | | BP Sporting* | 12.5 | 9900 | | |
| | 3/4 | SKEET | 1200 | REM 209 | REM PT 28 | 13.5 | 12000 | | |
| | | | | | P.C. | 13.5 | 11900 | | |
| FEDERAL | 3/4 | SKEET | 1155 | CCI 209 | BP Sporting* | 13.0 | 11400 | | |
| | | | | | FED 28S1 | 13.0 | 12500 | | |
| | | | | | BP Sporting* | 13.5 | 10300 | | |
| WIN | 3/4 | SKEET | 1155 | WIN 209 | REM PT 28 | 12.5 | 12200 | | |
| | | | | | WAA 28 | | | | |

*Note: BP Sporting Wad used with 1¹/₁₆ oz. No. 9 only.

**S
H
O
T
S
H
E
L
L**

| .410-BORE, 2 1/2-IN. PLASTIC SHELLS | | | | | 4100 | |
|-------------------------------------|-------------|---------------|---------|-----------|---------|-------------|
| Shotshell Brand | Ounces Lead | Velocity, FPS | Primer | Wad | Grains* | Approx. PSI |
| FEDERAL OR REMINGTON | 1/2 | 1200 | FED209A | WAA41 | 13.5 | 9400 |
| | | | FED209A | REM SP410 | 13.5 | 9700 |
| | | | FED209A | P.C. | 13.5 | 9600 |
| WINCHESTER AA | 1/2 | 1200 | FED209A | P.C. | 13.5 | 10700 |
| | | | FED209A | REM SP410 | 13.5 | 11100 |
| | | | FED209A | WAA41 | 13.5 | 11200 |
| | | | FED209A | FC410SC | 13.5 | 12600 |

*4100: 13.5 gr requires MEC #11 Bushing.

| 12-Gauge 2 ³ / ₄ " Shotshell Slug Data Lee Drive Key Slug | | | | | No. 2 Improved | | No. 5 | |
|--|-----------------|-------------------|---------|-------------------------------|-------------------|----------------------|------------|----------------------|
| Shotshell Brand | Slug Wt. Ounces | Velocity Ft./Sec. | Primer | Wad | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI |
| ACTIV | 7/8 oz. | 1501 | WIN 209 | ACTIV TG-30 + .135 NITRO CARD | 25.5 | 10300 | — | — |
| ACTIV | 7/8 oz. | 1593 | WIN 209 | ACTIV TG-30 + .135 NITRO CARD | — | — | 40.0 | 10700 |
| ACTIV | 1 oz. | 1553 | WIN 209 | ACTIV TG-30 | — | — | 41.5 | 10300 |
| Fed G.M. | 7/8 oz. | 1509 | WIN 209 | ACTIV TG-30 + .070 NITRO CARD | 25.5 | 9700 | — | — |
| Fed G.M. | 7/8 oz. | 1638 | WIN 209 | ACTIV TG-30 + .135 NITRO CARD | — | — | 42.0 | 10200 |
| Fed G.M. | 1 oz. | 1529 | WIN 209 | FED 12S3 | — | — | 41.5 | 9100 |
| Rem STS | 7/8 oz. | 1466 | WIN 209 | ACTIV TG-30 | 22.5 | 10700 | — | — |
| Rem STS | 1 oz. | 1535 | WIN 209 | WAASL | — | — | 38.5 | 10800 |
| WIN AA | 7/8 oz. | 1492 | WIN 209 | ACTIV TG-30 | 25.0 | 10000 | — | — |
| WIN AA | 7/8 oz. | 1608 | WIN 209 | ACTIV TG-30 | — | — | 40.0 | 10800 |
| WIN AA | 1 oz. | 1494 | WIN 209 | WAA | — | — | 38.5 | 9700 |

| 20-Gauge 2 ³ / ₄ " Shotshell Slug Data Lee Drive Key Slug | | | | | No. 5 | | No. 7 | |
|--|-----------------|-------------------|---------|---------------------------|------------|----------------------|------------|----------------------|
| Shotshell Brand | Slug Wt. Ounces | Velocity Ft./Sec. | Primer | Wad | Grains Wt. | Approx. Pressure PSI | Grains Wt. | Approx. Pressure PSI |
| ACTIV | 3/4 oz. | 1569 | WIN 209 | FED 20S1 + .250" FELT WAD | — | — | 32.0 | 11900 |
| FED TGT | 3/4 oz. | 1492 | WIN 209 | FED 20S1 + .250" + .125" | 26.0 | 11900 | — | — |
| REM TGT | 3/4 oz. | 1518 | WIN 209 | FED 20S1 + .500" CORK WAD | — | — | 30.0 | 11500 |
| WIN AA | 3/4 oz. | 1565 | WIN 209 | FED 20S1 + .250" FELT WAD | — | — | 32.0 | 11900 |

A QUICK GUIDE TO SHOTSHELL PRIMERS

(Approximately in Increasing Order of Strength)

Abbreviation/Manufacturer/SupplierComments

REM 209P (STS) Remington Arms Corp— A medium primer, well-suited to the Scot propellant line but may require a slightly higher charge weight of propellant than hotter primers for equal ballistics.

CCI 209 Blount Industries—A medium strength primer. Suitable for use with all Scot propellants. Do not confuse with the CCI 209M which is hotter.

WIN 209 Olin-Winchester Div.—A medium strength primer. Suitable for use with all Scot propellants.

CHED 209 Cheddite—Very similar to Winchester 209 primers in our testing.

FIO 616 Fiocchi SPA/Italy—A “magnum” strength primer. The 616 is of a slightly larger diameter. It is suitable for use with all Scot propellants.

CCI209M Blount Industries—A “magnum” strength primer, suitable for use with all Scot propellants. This primer will produce higher pressures than the CCI 209.

FED209A Federal Cartridge Co.—A “magnum” strength primer developed by Federal as a replacement for their FED 209. This primer is much more powerful and must not be directly substituted for the FED 209 as excessive pressure will result.

QUICK GUIDE TO WADS AND WAD ASSEMBLIES

| Per Shot Weight | Similar Wads |
|--|---|
| <u>12 GUAGE:</u> 7/8 and 1 oz. | WINAA12SL, CB 1100-12, Green duster, Windjammer (<i>long</i>), HAWK II (black), PC Purple, TGT 12 |
| 1 oz. | Federal 12S0, CB 2100-12 |
| 1 1/8 oz. | WINAA12, WT-12, CB 01118, CB 1118-12, Black Magic, Blue Duster |
| 1 1/8 oz. | Federal-12S3, CB 2118-12 |
| 1 1/8 oz. | Remington-Fig8, CB 3118-12 |
| 1 1/8 oz. | Windjammer (<i>short</i>), CB 4118-12, PC Red |
| <u>20 GUAGE:</u> 7/8 oz. | WIN AA20, CB 1078-20, Duster-20 |
| <u>28 GUAGE:</u> 3/4 oz. | WAA 28, CB 1034-28, Duster-28 |
| <u>410 GUAGE:</u> 1/2 oz. | WIN AA41, CB 1050-41, Duster 410, Federal 410 SC, Remington SP 140 |



**For Long Distance
Hunting, It Pays to
Shoot with a Pro.**

MAGPRO

MAGPRO, the new smokeless powder from Accurate, is designed especially for the new range of very efficient short magnum rifle cartridges.

MAGPRO has been designed to produce optimum velocities at nearly full case capacity in these "modern" calibers. There is currently no other ball propellant in the U. S. market of equal burn rate. **MAGPRO** has just made long-range hunting as efficient as the caliber it was designed for.

For loading information or help locating a supplier near you, call 931-729-4207 or visit us at www.accuratepowder.com on the web.



Accurate[®]

"Our Name Says It All"