



## WARNINGS

This guide is intended to be used as a reference. Each individual handloader must determine what is the best and safest load for their equipment. The loads described in this guide were generated at the ballistics test facilities of Western Powders, Inc. in accordance with SAAMI (Shooting Arms and Ammunition Institute) guidelines. All loads are fired through test barrels and individual results fired through different firearms may vary. The handloader is cautioned to read and follow safe reloading practices such as those outlined in the NRA Guide to Reloading before attempting to reload any cartridge.

## DISCLAIMER

Western Powders, Inc., has developed this guide to provide the handloader with current data for reloading Accurate powders. This guide is not intended to be a reloading textbook, but rather a list of recommended loads for Accurate powders. As Western Powders, Inc. has no control over the actual reloading procedures and methods being used, or the condition or choice of firearms and components used, no responsibility for the use of this data is implied or assumed. The buyer/user assumes full responsibility, risk, and liabilities for all injuries (including death), damages, and/or losses to persons or properties resulting from the use / misuse of this product. The ballistics data contained in this guide was obtained at Western Powders' ballistics facilities under strictly controlled conditions and is applicable ONLY for Accurate powders. It is important to remember that equipment variations, different reloading techniques, as well as component variations will most likely yield slightly different ballistics data. With this in mind, it is imperative that you do not exceed the maximum charge recommendations in this guide and that you always start loading with the minimum powder charges in the loads illustrated.

## POWDER WARNINGS

Smokeless powder is intended to function by burning. Therefore, it must be protected from exposure to flame, sparks, high temperatures and the sun's rays. When ignited, smokeless powder will normally continue to burn (and generate gas pressure) until the powder is entirely consumed. With this in mind:

- NEVER MIX OR SUBSTITUTE powders with other powders;**
- Avoid open flames, combustible agents, and any spark-producing tools when handling powders;
- Store powder in its original container in a cool / dry place;
- Do not keep or use old or salvaged powders;
- Check powder for deterioration on a regular basis. Deteriorated powder is detected by its noxious odor (not to be confused with solvents such as alcohol or ether).
- Pour out only the amount of powder necessary for the application being conducted;
- If you accidentally spill powder, use a broom and dust pan to clean it up. **DO NOT VACUUM** the spilled powder;
- Do not stockpile powder - store and utilize the amount of powder necessary for your current reloading needs;
- Be certain that the powder container is empty prior to discarding.

## COMPONENT WARNINGS

### Primers

- NEVER MIX PRIMERS** of different makes;
- Store primers in their original packaging(s) in a cool, dry place. Exposure to heat causes primer deterioration;
- Do not stockpile primers or store in bulk. Storing primers in these manners can lead to mass detonation if one of the primers ignite;
- Do not decap live or new primers - fire them in the appropriate gun and then decap;
- For best results, use the mildest primer consistent with good ignition;
- Do not force primers. If there is resistance in seating or feeding primers, stop and investigate the cause of the problem;
- Clean your hands before and after handling primers - oil contamination can affect the ignitability of the primer.

## QUALITY CONTROL

Reloading provides an individual with a cost effective means of obtaining ammunition, while at the same time allowing for custom load assemblage. You, the individual handloader, are responsible for producing the ammunition that you will later shoot. The caution and diligence you put into your reloading process can be ultimately rewarding or disastrous depending upon the quality of your work.

- Common sense and care must be practiced during all phases;
- Follow load recommendations exactly. **DO NOT SUBSTITUTE** components for those listed.
- ALWAYS START LOADING WITH THE MINIMUM POWDER CHARGE SHOWN;**
- Designate a work area to be used only for reloading and keep that area clean and orderly;
- Label components and reloads for quick and easy identification;
- Develop a reloading routine and follow it;
- Understand what you are doing and why it must be done in a specific manner; Never reload when you are tired or distracted;
- Wear safety glasses when reloading;
- DO NOT** smoke, eat, or drink in your reloading area or while you are reloading;
- Keep your powder, reloading equipment and firearms secure from children;
- Obey all laws and regulations regarding purchasing, quantity, and storage of powder(s).

### Bullet Abbreviations:

|       |                           |        |                                |
|-------|---------------------------|--------|--------------------------------|
| AF    | A-Frame                   | (M)    | Moly Coated                    |
| BB    | Broad Base                | MK     | Match King                     |
| BK    | Blitz King                | PART   | Partition                      |
| BS    | Ballistic Siver Tip       | PRO-H  | Pro-Hunter                     |
| B-TIP | Ballistic Tip             | RN     | Round Nose                     |
| CT    | Combined Technologies     | RNFP   | Round Nose Flat Point          |
| DEWC  | Double End Wadcutter      | RNSWC  | Round Nose Semi Wadcutter      |
| FMC   | Full Metal Case           | SMP    | Semi Point                     |
| FMJ   | Full Metal Jacket         | SPSX   | Soft Point Super Explosive     |
| FN    | Flat Nose                 | SBT    | Spitzer Boat Tail              |
| FP    | Flat Point                | SPT    | Spitzer                        |
| FPJ   | Full Profile Jacket       | SST    | Super Shock Tipped             |
| FS    | Fail Safe                 | SWC    | Semi Wadcutter                 |
| GC    | Gas Check                 | TC     | Truncated Cone                 |
| GK    | Game King                 | TCBB   | Truncated Cone Beveled Base    |
| HB    | Hollow Base               | TSX    | Triple Shock                   |
| HC    | Hollow Core               | VAR    | Varminator                     |
| HP    | Hollow Point              | WBFPGC | Wide Base Flat Point Gas Check |
| HPBT  | Hollow Point Boat Tail    | WCDBB  | Wadcutter Double Base Beveled  |
| HSP   | Hollow Soft Point         | WFNGC  | Wide Flat Nose Gas Check       |
| Intlk | Interlock                 | WFNPB  | Wide Flat Nose Plain Base      |
| JHC   | Jacketed Hollow Cavity    | WLNGC  | Wide Long Nose Gas Check       |
| JHP   | Jacketed Hollow Point     | WNGC   | Wide Nose Gas Check            |
| JRN   | Jacketed Round Nose       | WPFB   | Wide Point Flat Base           |
| JSP   | Jacketed Soft Point       | X      | X Bullet                       |
| JSWC  | Jacketed Semi Wadcutter   | XBT    | X Boat Tail                    |
| LFNPB | Long Flat Nose Plain Base | XFB    | X Flat Base                    |
| (L)   | Lead                      | XPB    | X Pistol Bullet                |
|       |                           | XTP    | Extreme Terminal Performance   |

### Primer Abbreviations:

|     |                     |     |                    |
|-----|---------------------|-----|--------------------|
| SP  | Small Pistol        | SR  | Small Rifle        |
| SPM | Small Pistol Magnum | SRM | Small Rifle Magnum |
| LP  | Large Pistol        | LR  | Large Rifle        |
| LPM | Large Pistol Magnum | LRM | Large Rifle Magnum |

### Company Abbreviations:

|     |                      |     |              |
|-----|----------------------|-----|--------------|
| BAR | Barnes               | OT  | Oregon Trail |
| BRY | Berry's              | RSH | Rushmore     |
| BRG | Berger               | SIE | Sierra       |
| CP  | Cast Performance     | SWF | Swift        |
| HDY | Hornady              | TS  | True Shot    |
| LC  | Laser Cast           | WC  | West Coast   |
| LYM | Lyman                | WIN | Winchester   |
| MTG | Montana Gold         | RAN | Rainier      |
| MCB | Montana Cast Bullets | WDL | Woodleigh    |
| NOS | Nosler               |     |              |



PO Box 158 • Top of Yellowstone Hill  
Miles City, Montana 59301  
406-234-0422 • www.ramshot.com

# ACCURATE POWDERS

EDITION 3.1



Powders listed fast to slow →

Nitro 100    Solo 1000    No 2 Imprv'd    No 5    Solo 1250    No 7    No 9    4100    5744    1680    2015    2230    2460    2495    4064    2520    2700    4350    3100    MagPro    8700

| Spherical (SP) / Extruded (EXT)  | EXT | EXT | SP | SP | EXT | SP | SP | SP | EXT | SP | EXT | SP | SP | EXT | EXT | SP | SP | EXT | EXT | SP | SP |   |
|----------------------------------|-----|-----|----|----|-----|----|----|----|-----|----|-----|----|----|-----|-----|----|----|-----|-----|----|----|---|
| 32 Auto (ACP)                    |     |     | X  | X  |     |    |    |    |     |    |     |    |    |     |     |    |    |     |     |    |    |   |
| 380 Auto (ACP)                   |     |     | X  | X  |     |    |    |    |     |    |     |    |    |     |     |    |    |     |     |    |    |   |
| 9mm Luger                        |     |     | X  | X  |     | X  |    |    |     |    |     |    |    |     |     |    |    |     |     |    |    |   |
| 357 SIG                          |     |     | X  | X  |     | X  | X  |    |     |    |     |    |    |     |     |    |    |     |     |    |    |   |
| 38 Super                         |     |     |    | X  |     | X  | X  |    |     |    |     |    |    |     |     |    |    |     |     |    |    |   |
| 38 Special                       | X   |     |    | X  |     |    |    |    |     |    |     |    |    |     |     |    |    |     |     |    |    |   |
| 357 Magnum                       |     |     |    | X  |     | X  | X  |    |     |    |     |    |    |     |     |    |    |     |     |    |    |   |
| 40 S&W                           |     |     | X  | X  |     | X  | X  |    |     |    |     |    |    |     |     |    |    |     |     |    |    |   |
| 10mm Auto                        |     |     |    | X  |     | X  | X  |    |     |    |     |    |    |     |     |    |    |     |     |    |    |   |
| 41 Remington Magnum              |     |     |    |    |     | X  | X  |    |     |    |     |    |    |     |     |    |    |     |     |    |    |   |
| 44 Special                       |     |     |    | X  |     | X  |    |    |     |    |     |    |    |     |     |    |    |     |     |    |    |   |
| 44 Remington Magnum              |     |     |    |    |     | X  | X  |    |     |    |     |    |    |     |     |    |    |     |     |    |    |   |
| 45 Auto (ACP)                    | X   | X   | X  | X  |     | X  |    |    |     |    |     |    |    |     |     |    |    |     |     |    |    |   |
| 45 Colt                          |     |     |    | X  |     |    |    |    |     |    |     |    |    |     |     |    |    |     |     |    |    |   |
| .45 Colt TC & Contender          |     |     |    |    |     | X  | X  |    |     |    |     |    |    |     |     |    |    |     |     |    |    |   |
| 454 Casull                       |     |     |    |    |     |    | X  |    | X   | X  |     |    |    |     |     |    |    |     |     |    |    |   |
| 460 S&W                          |     |     |    |    |     | X  | X  | X  | X   | X  |     |    |    |     |     |    |    |     |     |    |    |   |
| 480 Ruger                        |     |     |    |    |     | X  | X  |    |     |    |     |    |    |     |     |    |    |     |     |    |    |   |
| 500 S&W                          |     |     |    |    |     |    | X  | X  | X   | X  |     |    |    |     |     |    |    |     |     |    |    |   |
| 17 Remington                     |     |     |    |    |     |    |    |    |     |    |     |    |    |     | X   | X  | X  | X   |     |    |    |   |
| 20 Tactical                      |     |     |    |    |     |    |    |    |     |    |     |    |    | X   |     |    | X  |     |     |    |    |   |
| 204 Ruger                        |     |     |    |    |     |    |    |    |     |    |     |    | X  | X   |     |    | X  |     |     |    |    |   |
| 22 Hornet .224 Diameter Bore     |     |     |    |    |     |    |    |    | X   | X  |     |    |    |     |     |    |    |     |     |    |    |   |
| 222 Remington                    |     |     |    |    |     |    |    |    |     |    | X   | X  | X  |     |     |    | X  |     |     |    |    |   |
| 223 Remington                    |     |     |    |    |     |    |    |    | X   |    | X   | X  | X  | X   |     |    | X  |     |     |    |    |   |
| 22-250 Remington                 |     |     |    |    |     |    |    |    |     |    |     |    | X  |     |     | X  | X  | X   |     |    |    |   |
| 220 Swift                        |     |     |    |    |     |    |    |    |     |    |     |    |    |     |     | X  | X  | X   |     |    |    |   |
| 223 Win Super Short Magnum       |     |     |    |    |     |    |    |    |     |    |     |    |    |     |     | X  |    | X   | X   |    |    |   |
| 6mm PPC                          |     |     |    |    |     |    |    |    |     |    |     | X  | X  | X   | X   |    |    |     |     |    |    |   |
| 6mm BR Remington                 |     |     |    |    |     |    |    |    |     |    |     | X  | X  | X   | X   |    | X  |     |     |    |    |   |
| 243 Winchester                   |     |     |    |    |     |    |    |    |     |    |     |    |    |     |     |    |    | X   | X   | X  |    |   |
| 6mm Remington                    |     |     |    |    |     |    |    |    |     |    |     |    |    |     |     |    | X  | X   | X   |    |    |   |
| 243 Win Super Short Magnum       |     |     |    |    |     |    |    |    |     |    |     |    |    |     |     |    | X  | X   | X   |    |    |   |
| 257 Roberts                      |     |     |    |    |     |    |    |    |     |    |     |    |    |     |     |    |    | X   | X   | X  |    |   |
| 25 Win Super Short Magnum        |     |     |    |    |     |    |    |    |     |    |     |    |    |     |     | X  | X  |     |     |    |    |   |
| 25-06 Remington                  |     |     |    |    |     |    |    |    |     |    |     |    |    |     |     |    |    | X   | X   | X  |    |   |
| 6.5x55mm Swedish Mauser          |     |     |    |    |     |    |    |    |     |    |     |    |    |     |     |    | X  | X   | X   |    |    |   |
| 260 Remington                    |     |     |    |    |     |    |    |    |     |    |     |    |    |     |     |    | X  | X   | X   |    |    |   |
| 6.8 SPC                          |     |     |    |    |     |    |    |    |     |    |     | X  | X  |     |     |    |    |     |     |    |    |   |
| 270 Winchester                   |     |     |    |    |     |    |    |    |     |    |     |    |    |     |     |    |    | X   | X   | X  | X  |   |
| 270 Winchester Short Magnum      |     |     |    |    |     |    |    |    |     |    |     |    |    |     |     |    |    |     | X   | X  | X  |   |
| 7mm-08 Remington                 |     |     |    |    |     |    |    |    |     |    |     |    |    |     |     |    | X  | X   |     |    |    |   |
| 7x57mm Mauser                    |     |     |    |    |     |    |    |    |     |    |     |    |    |     |     |    | X  | X   |     |    |    |   |
| 280 Remington                    |     |     |    |    |     |    |    |    |     |    |     |    |    |     |     |    |    | X   | X   | X  |    |   |
| 7mm Remington SAUM               |     |     |    |    |     |    |    |    |     |    |     |    |    |     |     |    |    | X   | X   | X  |    |   |
| 7mm Winchester Short Magnum      |     |     |    |    |     |    |    |    | X   |    |     |    |    |     |     |    |    | X   | X   | X  | X  |   |
| 7mm Remington Magnum             |     |     |    |    |     |    |    |    |     |    |     |    |    |     |     |    |    |     | X   | X  | X  |   |
| 7mm STW                          |     |     |    |    |     |    |    |    |     |    |     |    |    |     |     |    |    |     |     | X  |    | X |
| 30-30 Winchester                 |     |     |    |    |     |    |    |    | X   |    |     |    |    | X   | X   | X  | X  |     |     |    |    |   |
| 308 Winchester                   |     |     |    |    |     |    |    |    |     |    |     |    |    | X   | X   | X  |    |     |     |    |    |   |
| 30-06 Springfield                |     |     |    |    |     |    |    |    |     |    |     |    |    |     |     |    | X  | X   |     |    |    |   |
| 300 Remington SAUM               |     |     |    |    |     |    |    |    | X   |    |     |    |    |     |     |    | X  |     |     |    |    |   |
| 300 H&H Magnum                   |     |     |    |    |     |    |    |    |     |    |     |    |    |     |     |    |    | X   | X   |    |    |   |
| 300 Winchester Short Magnum      |     |     |    |    |     |    |    |    | X   |    |     |    |    |     |     |    |    | X   | X   |    | X  |   |
| 300 Winchester Magnum            |     |     |    |    |     |    |    |    |     |    |     |    |    |     |     |    |    | X   | X   |    |    |   |
| 300 Weatherby Magnum             |     |     |    |    |     |    |    |    |     |    |     |    |    |     |     |    |    |     | X   | X  |    |   |
| 300 Remington Ultra Magnum       |     |     |    |    |     |    |    |    |     |    |     |    |    |     |     |    |    |     |     | X  | X  | X |
| 8x57mm JS Mauser                 |     |     |    |    |     |    |    |    |     |    |     |    | X  |     |     | X  |    |     |     |    |    |   |
| 325 Winchester Short Magnum      |     |     |    |    |     |    |    |    |     |    |     |    |    |     |     |    | X  |     |     |    |    |   |
| 8mm Remington Magnum             |     |     |    |    |     |    |    |    |     |    |     |    |    |     |     |    |    |     |     | X  |    | X |
| 338 Winchester Magnum            |     |     |    |    |     |    |    |    |     |    |     |    |    |     |     |    |    | X   | X   | X  |    |   |
| 338 Lapua                        |     |     |    |    |     |    |    |    |     |    |     |    |    |     |     |    |    |     |     |    |    | X |
| 338 Remington Ultra Magnum       |     |     |    |    |     |    |    |    |     |    |     |    |    |     |     |    |    |     |     | X  |    |   |
| 35 Whelen                        |     |     |    |    |     |    |    |    |     |    |     |    |    | X   | X   |    | X  |     |     |    |    |   |
| 375 H&H Magnum                   |     |     |    |    |     |    |    |    |     |    |     |    |    |     |     |    |    | X   | X   |    |    |   |
| 375 Remington Ultra Magnum       |     |     |    |    |     |    |    |    | X   |    |     |    |    |     |     |    |    | X   | X   |    |    |   |
| 416 Remington Magnum             |     |     |    |    |     |    |    |    |     |    |     |    |    | X   | X   | X  | X  |     |     |    |    |   |
| 444 Marlin                       |     |     |    |    |     |    |    |    | X   | X  | X   | X  | X  |     |     |    |    |     |     |    |    |   |
| 45-70 Govt Springfield Trap Door |     |     |    |    |     |    |    |    | X   |    |     |    |    |     |     |    |    |     |     |    |    |   |
| 45-70 Govt. Standard Rifles      |     |     |    |    |     |    |    |    | X   |    | X   | X  |    |     |     |    |    |     |     |    |    |   |
| 45-70 Govt. Ruger No. 1 and 3    |     |     |    |    |     |    |    |    | X   |    | X   |    |    |     |     |    |    |     |     |    |    |   |
| 458 Winchester Magnum            |     |     |    |    |     |    |    |    | X   |    | X   | X  | X  |     |     |    |    |     |     |    |    |   |
| 458 Lott                         |     |     |    |    |     |    |    |    |     |    |     |    | X  |     |     |    |    | X   |     |    |    |   |



## HANDGUN

## HANDGUN

| Bullet Weight (Grains)   | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains) | Max Velocity (fps)    | Max Load Pressure (psi) | COL (inch) |
|--------------------------|-------------|-------------|---------------------|----------------------|-------------------|-----------------------|-------------------------|------------|
| <b>32 Auto (ACP)</b>     |             |             |                     |                      |                   |                       |                         |            |
| Barrel: 4", Twist: 1-16" |             |             | Primer: WIN WSP     |                      |                   | Bullet Diameter .312" |                         |            |
| No.2                     | 71          | SIE FMJ     | 2.0                 | 572                  | 2.2               | 650                   | 19,300                  | 0.955      |
| No.2                     | 85          | HDY XTP     | 1.6                 | 612                  | 1.8               | 695                   | 18,800                  | 0.940      |
| No.5                     | 71          | SIE FMJ     | 2.9                 | 619                  | 3.2               | 703                   | 19,700                  | 0.955      |
| No.5                     | 85          | HDY XTP     | 2.2                 | 615                  | 2.4               | 699                   | 19,100                  | 0.940      |

| Bullet Weight (Grains)      | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains) | Max Velocity (fps)    | Max Load Pressure (psi) | COL (inch) |
|-----------------------------|-------------|-------------|---------------------|----------------------|-------------------|-----------------------|-------------------------|------------|
| <b>380 Auto (ACP)</b>       |             |             |                     |                      |                   |                       |                         |            |
| Barrel: 3.75", Twist: 1-16" |             |             | Primer: WIN WSP     |                      |                   | Bullet Diameter .355" |                         |            |
| No.2                        | 90          | HDY XTP     | 3.3                 | 818                  | 3.7               | 930                   | 17,000                  | 0.960      |
| No.2                        | 95          | SIE FMJ     | 3.3                 | 822                  | 3.7               | 934                   | 14,600                  | 0.945      |
| No.5                        | 90          | HDY XTP     | 4.3                 | 810                  | 4.8               | 920                   | 16,700                  | 0.960      |
| No.5                        | 95          | SIE FMJ     | 4.3                 | 784                  | 4.8               | 891                   | 14,000                  | 0.945      |

| Bullet Weight (Grains)   | Bullet Make | Bullet Type   | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains) | Max Velocity (fps)    | Max Load Pressure (psi) | COL (inch) |
|--------------------------|-------------|---------------|---------------------|----------------------|-------------------|-----------------------|-------------------------|------------|
| <b>9mm Luger</b>         |             |               |                     |                      |                   |                       |                         |            |
| Barrel: 4", Twist: 1-10" |             |               | Primer: WIN WSP     |                      |                   | Bullet Diameter .355" |                         |            |
| No.2                     | 115         | LC RN (L)     | 4.6                 | 1,008                | 5.2               | 1,146                 | 32,900                  | 1.100      |
| No.2                     | 124         | LC RN (L)     | 4.0                 | 895                  | 4.6               | 1,017                 | 31,100                  | 1.095      |
| No.2                     | 145         | MCB SWCBB (L) | 3.9                 | 845                  | 4.3               | 956                   | 31,000                  | 1.140      |
| No.2                     | 115         | NOS JHP       | 4.7                 | 1,038                | 5.2               | 1,145                 | 29,900                  | 1.095      |
| No.2                     | 125         | SIE FMJ       | 4.2                 | 930                  | 4.7               | 1,057                 | 29,500                  | 1.095      |
| No.2                     | 147         | HDY XTP       | 3.6                 | 781                  | 4.0               | 888                   | 29,200                  | 1.095      |
| No.5                     | 115         | LC RN (L)     | 5.7                 | 1,040                | 6.3               | 1,182                 | 33,000                  | 1.100      |
| No.5                     | 124         | LC RN (L)     | 5.4                 | 1,018                | 6.0               | 1,157                 | 33,000                  | 1.095      |
| No.5                     | 145         | LC RN (L)     | 4.6                 | 866                  | 5.1               | 984                   | 26,800                  | 1.140      |
| No.5                     | 115         | SIE JHP       | 6.3                 | 1,049                | 7.0               | 1,192                 | 31,400                  | 1.095      |
| No.5                     | 125         | SIE JHP       | 5.8                 | 1,069                | 6.4               | 1,200                 | 33,000                  | 1.095      |
| No.5                     | 147         | HDY XTP       | 4.8                 | 872                  | 5.3               | 991                   | 30,900                  | 1.095      |
| No.7                     | 115         | LC RN (L)     | 7.8                 | 1,078                | 8.7               | 1,225                 | 33,000                  | 1.100      |
| No.7                     | 124         | LC RN (L)     | 7.4                 | 1,030                | 8.2               | 1,170                 | 33,000                  | 1.095      |
| No.7                     | 145         | MCB RNBB (L)  | 6.5                 | 926                  | 7.2               | 1,052                 | 29,500                  | 1.140      |
| No.7                     | 115         | NOS FMJ       | 7.9                 | 1,052                | 8.8               | 1,196                 | 29,700                  | 1.095      |
| No.7                     | 124         | HDY FMJ       | 7.2                 | 1,026                | 8.0               | 1,166                 | 29,800                  | 1.095      |
| No.7                     | 147         | HDY XTP       | 6.5                 | 921                  | 7.2               | 1,047                 | 31,900                  | 1.095      |

| Bullet Weight (Grains)   | Bullet Make | Bullet Type  | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains) | Max Velocity (fps)    | Max Load Pressure (psi) | COL (inch) |
|--------------------------|-------------|--------------|---------------------|----------------------|-------------------|-----------------------|-------------------------|------------|
| <b>357 SIG</b>           |             |              |                     |                      |                   |                       |                         |            |
| Barrel: 4", Twist: 1-16" |             |              | Primer: WIN WSP     |                      |                   | Bullet Diameter .355" |                         |            |
| No.2                     | 115         | LC RN (L)    | 5.6                 | 1,099                | 6.2               | 1,249                 | 38,200                  | 1.140      |
| No.2                     | 122         | MCB FN (L)   | 5.2                 | 1,070                | 5.8               | 1,217                 | 38,100                  | 1.140      |
| No.2                     | 147         | MCB RNBB (L) | 4.2                 | 923                  | 4.7               | 1,049                 | 36,800                  | 1.140      |
| No.2                     | 115         | NOS JHP      | 5.7                 | 1,122                | 6.4               | 1,276                 | 38,600                  | 1.140      |
| No.2                     | 125         | SIE FMJ      | 5.4                 | 1,066                | 6.0               | 1,212                 | 38,900                  | 1.140      |
| No.2                     | 147         | HDY XTP      | 4.7                 | 933                  | 5.3               | 1,061                 | 39,800                  | 1.140      |
| No.5                     | 115         | LC RN (L)    | 8.1                 | 1,160                | 9.0               | 1,319                 | 38,500                  | 1.140      |
| No.5                     | 122         | LC FP (L)    | 7.9                 | 1,144                | 8.8               | 1,300                 | 37,100                  | 1.140      |
| No.5                     | 147         | LC FP (L)    | 6.7                 | 1,029                | 7.5               | 1,170                 | 36,900                  | 1.140      |
| No.5                     | 115         | NOS JHP      | 8.4                 | 1,191                | 9.4               | 1,354                 | 37,900                  | 1.140      |
| No.5                     | 125         | SIE FMJ      | 8.3                 | 1,166                | 9.2               | 1,325                 | 39,600                  | 1.140      |
| No.5                     | 147         | HDY XTP      | 7.1                 | 1,019                | 7.9               | 1,159                 | 38,400                  | 1.140      |
| No.7                     | 115         | LC RN (L)    | 9.9                 | 1,182                | 11.0              | 1,344                 | 37,800                  | 1.140      |
| No.7                     | 124         | LC RN (L)    | 9.6                 | 1,162                | 10.7              | 1,321                 | 37,900                  | 1.140      |
| No.7                     | 145         | LC RN (L)    | 8.6                 | 1,071                | 9.6               | 1,218                 | 40,000                  | 1.140      |
| No.7                     | 115         | SIE JHP      | 10.2                | 1,218                | 11.3              | 1,385                 | 39,100                  | 1.140      |
| No.7                     | 124         | HDY FMJFP    | 10.0                | 1,161                | 11.0              | 1,320                 | 37,100                  | 1.140      |
| No.7                     | 147         | HDY XTP      | 8.3                 | 1,020                | 9.2               | 1,160                 | 38,600                  | 1.140      |
| No.9                     | 115         | LC RN (L)    | 12.1                | 1,258                | 13.5              | 1,430                 | 39,000                  | 1.140      |
| No.9                     | 122         | MCB RNBB (L) | 11.7                | 1,217                | 13.0              | 1,383                 | 36,100                  | 1.140      |
| No.9                     | 145         | LC RN (L)    | 9.4                 | 1,029                | 10.5              | 1,170                 | 33,000                  | 1.140      |
| No.9                     | 115         | NOS JHP      | 12.1                | 1,261                | 13.5              | 1,434                 | 36,900                  | 1.140      |
| No.9                     | 125         | SIE FMJ      | 11.7                | 1,220                | 13.0              | 1,387                 | 39,100                  | 1.140      |
| No.9                     | 147         | HDY XTP      | 9.4                 | 1,018                | 10.5              | 1,158                 | 34,400                  | 1.140      |

| Bullet Weight (Grains)   | Bullet Make | Bullet Type  | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains) | Max Velocity (fps)    | Max Load Pressure (psi) | COL (inch) |
|--------------------------|-------------|--------------|---------------------|----------------------|-------------------|-----------------------|-------------------------|------------|
| <b>38 Super</b>          |             |              |                     |                      |                   |                       |                         |            |
| Barrel: 5", Twist: 1-16" |             |              | Primer: WIN WSP     |                      |                   | Bullet Diameter .357" |                         |            |
| No.5                     | 115         | LC RN (L)    | 6.8                 | 1,115                | 7.6               | 1,267                 | 32,600                  | 1.285      |
| No.5                     | 124         | LC RN (L)    | 6.3                 | 1,043                | 7.0               | 1,185                 | 31,900                  | 1.220      |
| No.5                     | 145         | MCB RNBB (L) | 6.1                 | 1,028                | 6.8               | 1,168                 | 33,000                  | 1.250      |
| No.5                     | 115         | NOS JHP      | 7.5                 | 1,162                | 8.3               | 1,321                 | 33,000                  | 1.240      |
| No.5                     | 125         | SIE FMJ      | 6.8                 | 1,079                | 7.6               | 1,230                 | 33,000                  | 1.245      |
| No.5                     | 130         | RAN RN       | 6.3                 | 1,011                | 7.0               | 1,149                 | 29,000                  | 1.280      |
| No.5                     | 147         | HDY XTP      | 6.1                 | 970                  | 6.8               | 1,100                 | 33,000                  | 1.230      |
| No.7                     | 115         | LC RN (L)    | 8.8                 | 1,162                | 9.8               | 1,320                 | 33,000                  | 1.285      |
| No.7                     | 124         | LC RN (L)    | 8.1                 | 1,095                | 9.0               | 1,244                 | 32,000                  | 1.220      |
| No.7                     | 145         | LC RN (L)    | 7.7                 | 1,025                | 8.5               | 1,165                 | 31,400                  | 1.250      |
| No.7                     | 115         | SIE FMJ      | 9.3                 | 1,186                | 10.3              | 1,340                 | 33,000                  | 1.240      |
| No.7                     | 124         | SIE JHP      | 8.6                 | 1,111                | 9.6               | 1,263                 | 31,700                  | 1.245      |
| No.7                     | 130         | BRY RN       | 8.4                 | 1,087                | 9.4               | 1,236                 | 31,400                  | 1.280      |
| No.7                     | 147         | HDY XTP      | 7.8                 | 1,008                | 8.7               | 1,146                 | 31,500                  | 1.230      |
| No.9                     | 115         | NOS JHP      | 11.7                | 1,228                | 13.0              | 1,395                 | 32,800                  | 1.240      |
| No.9                     | 124         | HDY FMJFP    | 11.3                | 1,184                | 12.5              | 1,346                 | 33,000                  | 1.245      |
| No.9                     | 130         | RAN RN       | 9.9                 | 1,061                | 11.0              | 1,206                 | 27,100                  | 1.280      |
| No.9                     | 147         | HDY XTP      | 9.2                 | 1,034                | 10.2              | 1,175                 | 29,400                  | 1.230      |

| Bullet Weight (Grains)         | Bullet Make | Bullet Type   | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains) | Max Velocity (fps)    | Max Load Pressure (psi) | COL (inch) |
|--------------------------------|-------------|---------------|---------------------|----------------------|-------------------|-----------------------|-------------------------|------------|
| <b>38 Special</b>              |             |               |                     |                      |                   |                       |                         |            |
| Barrel: 7.75", Twist: 1-18.75" |             |               | Primer: WIN WSP     |                      |                   | Bullet Diameter .357" |                         |            |
| N100                           | 148         | LC WCDBB (L)  | 2.4                 | 759                  | 2.7               | 863                   | 15,300                  | 1.252      |
| N100                           | 158         | LC SWC (L)    | 2.9                 | 786                  | 3.3               | 894                   | 16,600                  | 1.481      |
| N100                           | 110         | HDY XTP       | 3.9                 | 1,014                | 4.4               | 1,153                 | 15,900                  | 1.435      |
| N100                           | 125         | NOS JHP       | 3.7                 | 907                  | 4.1               | 1,031                 | 14,800                  | 1.445      |
| N100                           | 140         | SIE JHP       | 3.5                 | 821                  | 3.9               | 933                   | 16,900                  | 1.445      |
| N100                           | 158         | HDY XTP       | 2.9                 | 691                  | 3.2               | 786                   | 14,400                  | 1.445      |
| No.5                           | 148         | LC WCDBB (L)  | 3.6                 | 710                  | 4.0               | 807                   | 16,200                  | 1.152      |
| No.5                           | 158         | MCB SWCBB (L) | 5.3                 | 827                  | 5.9               | 940                   | 16,100                  | 1.481      |
| No.5                           | 110         | SIE JHC       | 6.6                 | 959                  | 7.3               | 1,090                 | 16,600                  | 1.435      |
| No.5                           | 125         | HDY XTP       | 6.1                 | 757                  | 6.8               | 860                   | 16,300                  | 1.445      |
| No.5                           | 140         | SIE JHP       | 5.8                 | 757                  | 6.4               | 860                   | 16,700                  | 1.445      |
| No.5                           | 150         | NOS JHP       | 5.9                 | 715                  | 6.5               | 813                   | 16,600                  | 1.450      |
| No.5                           | 158         | HDY XTP       | 5.2                 | 740                  | 5.8               | 841                   | 16,500                  | 1.445      |
| No.5                           | 158         | RAN RN        | 5.1                 | 829                  | 5.7               | 943                   | 16,900                  | 1.430      |

| Bullet Weight (Grains)      | Bullet Make | Bullet Type  | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains) | Max Velocity (fps)    | Max Load Pressure (psi) | COL (inch) |
|-----------------------------|-------------|--------------|---------------------|----------------------|-------------------|-----------------------|-------------------------|------------|
| <b>357 Magnum</b>           |             |              |                     |                      |                   |                       |                         |            |
| Barrel: 6", Twist: 1-18.75" |             |              | Primer: WIN WSPM    |                      |                   | Bullet Diameter .357" |                         |            |
| No.5                        | 110         | SIE JHC      | 10.8                | 1,457                | 12.0              | 1,656                 | <b>41,600</b>           | 1.575      |
| No.5                        | 125         | HDY XTP      | 10.4                | 1,369                | 11.5              | 1,555                 | <b>42,800</b>           | 1.575      |
| No.5                        | 140         | SIE JHP      | 9.9                 | 1,292                | 11.0              | 1,469                 | <b>43,200</b>           | 1.575      |
| No.7                        | 147         | MCB FPBB (L) | 10.3                | 1,167                | 11.4              | 1,327                 | <b>44,000</b>           | 1.580      |
| No.7                        | 158         | LC SWC (L)   | 9.9                 | 1,119                | 11.0              | 1,272                 | <b>42,600</b>           | 1.580      |
| No.7                        | 180         | LC FP (L)    | 9.0                 | 1,009                | 10.0              | 1,147                 | <b>43,400</b>           | 1.675 (1)  |
| No.7                        | 110         | SIE JHC      | 12.6                | 1,465                | 14.0              | 1,665                 | <b>41,700</b>           | 1.575      |
| No.7                        | 125         | HDY XTP      | 11.9                | 1,374                | 13.2              | 1,562                 | <b>42,700</b>           | 1.575      |
| No.7                        | 140         | SIE JHP      | 11.0                | 1,267                | 12.2              | 1,440                 | <b>43,600</b>           | 1.575      |
| No.7                        | 158         | NOS JHP      | 10.3                | 1,286                | 11.4              | 1,462                 | <b>43,900</b>           | 1.580      |
| No.7                        | 170         | SIE FMJ      | 9.5                 | 1,086                | 10.5              | 1,233                 | <b>44,600</b>           | 1.565      |
| No.9                        | 147         | MCB FPBB (L) | 12.9                | 1,238                | 14.3              | 1,406                 | <b>42,100</b>           | 1.580      |
| No.9                        | 158         | LC SWC (L)   | 12.2                | 1,187                | 13.5              | 1,349                 | <b>41,300</b>           | 1.580      |
| No.9                        | 180         | CP WFNGC (L) | 11.3                | 1,084                | 12.6              | 1,231                 | <b>40,200</b>           | 1.675 (1)  |
| No.9                        | 110         | HDY XTP      | 16.6                | 1,589                | 18.4              | 1,803                 | <b>43,700</b>           | 1.575      |
| No.9                        | 125         | NOS JHP      | 15.3                | 1,482                | 17.0              | 1,685                 | <b>45,100</b>           | 1.575      |
| No.9                        | 140         | SIE JHP      | 13.9                | 1,346                | 15.4              | 1,529                 | <b>43,100</b>           | 1.575      |
| No.9                        | 150         | NOS SP       | 13.7                | 1,319                | 15.2              | 1,499                 | <b>43,000</b>           | 1.590      |
| No.9                        | 158         | HDY XTP      | 13.5                | 1,293                | 15.0              | 1,470                 | <b>44,900</b>           | 1.580      |
| No.9                        | 170         | SIE FMJ      | 12.2                | 1,174                | 13.5              | 1,334                 | <b>45,000</b>           | 1.565      |
| No.9                        | 180         | HDY XTP      | 11.7                | 1,139                | 13.0              | 1,293                 | <b>43,000</b>           | 1.575      |

**Bold Italicized = CUP Pressure**

### (1) SPECIAL NOTE on Cartridge Overall Length "COL"

It is important to note that the SAAMI "COL" values are for the "industry," i.e. the firearm and ammunition manufacturers, and must be seen as a guideline only.

The individual reloader is free to adjust this dimension to suit his/her particular firearm-component-weapon combination. This parameter is determined by various dimensions such as a) magazine length (space), b) freebore-leade dimensions of the barrel, and the c) ogive or profile of the projectile d) Position of cannellure or crimp groove.

## HANDGUN

## HANDGUN

|                          | Bullet Weight (Grains) | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains) | Max Velocity (fps)    | Max Load Pressure (psi) | COL (inch) |
|--------------------------|------------------------|-------------|-------------|---------------------|----------------------|-------------------|-----------------------|-------------------------|------------|
| <b>40 S&amp;W</b>        |                        |             |             |                     |                      |                   |                       |                         |            |
| Barrel: 4", Twist: 1-16" |                        |             |             | Primer: WIN WSP     |                      |                   | Bullet Diameter .400" |                         |            |
| No.2                     | 140                    | LC          | TC (L)      | 5.9                 | 1,016                | 6.6               | 1,155                 | 33,400                  | 1.115      |
| No.2                     | 155                    | LC          | RNSWC (L)   | 5.7                 | 982                  | 6.3               | 1,116                 | 34,100                  | 1.130      |
| No.2                     | 175                    | MCB         | SWCBB (L)   | 4.8                 | 858                  | 5.3               | 975                   | 34,200                  | 1.115      |
| No.2                     | 185                    | LC          | RNSWC (L)   | 4.6                 | 829                  | 5.1               | 942                   | 33,000                  | 1.120      |
| No.2                     | 135                    | NOS         | JHP         | 6.8                 | 1,097                | 7.6               | 1,247                 | 34,700                  | 1.125      |
| No.2                     | 150                    | SIE         | JHP         | 6.3                 | 1,016                | 7.0               | 1,155                 | 34,200                  | 1.120      |
| No.2                     | 155                    | BRY         | RS          | 5.6                 | 968                  | 6.2               | 1,100                 | 35,000                  | 1.125      |
| No.2                     | 165                    | SIE         | JHP         | 5.6                 | 916                  | 6.2               | 1,041                 | 35,000                  | 1.125      |
| No.2                     | 180                    | HDY         | XTP         | 5.0                 | 851                  | 5.6               | 967                   | 35,000                  | 1.135      |
| No.2                     | 180                    | RAN         | HP          | 4.3                 | 794                  | 4.8               | 903                   | 33,400                  | 1.125      |
| No.5                     | 140                    | LC          | TC (L)      | 7.2                 | 1,038                | 8.0               | 1,179                 | 34,900                  | 1.115      |
| No.5                     | 155                    | LC          | RNSWC (L)   | 6.8                 | 1,019                | 7.5               | 1,158                 | 35,000                  | 1.130      |
| No.5                     | 170                    | LC          | SWC (L)     | 5.5                 | 868                  | 6.1               | 986                   | 35,000                  | 1.115      |
| No.5                     | 185                    | LC          | TC (L)      | 5.4                 | 858                  | 6.0               | 975                   | 35,000                  | 1.120      |
| No.5                     | 135                    | SIE         | JHP         | 8.4                 | 1,114                | 9.3               | 1,266                 | 34,900                  | 1.125      |
| No.5                     | 150                    | NOS         | JHP         | 7.5                 | 1,030                | 8.3               | 1,170                 | 35,000                  | 1.120      |
| No.5                     | 155                    | RAN         | FP          | 6.9                 | 963                  | 7.7               | 1,095                 | 32,100                  | 1.125      |
| No.5                     | 165                    | SIE         | JHP         | 6.5                 | 911                  | 7.2               | 1,035                 | 34,000                  | 1.125      |
| No.5                     | 180                    | HDY         | XTP         | 5.9                 | 849                  | 6.6               | 965                   | 32,500                  | 1.135      |
| No.5                     | 180                    | BRY         | HP          | 5.8                 | 849                  | 6.5               | 965                   | 33,600                  | 1.125      |
| No.5                     | 190                    | SIE         | FPJ         | 6.0                 | 828                  | 6.7               | 950                   | 35,000                  | 1.125      |
| No.7                     | 140                    | LC          | TC (L)      | 9.0                 | 1,030                | 10.0              | 1,171                 | 33,700                  | 1.115      |
| No.7                     | 155                    | MCB         | SWCBB (L)   | 8.7                 | 1,008                | 9.7               | 1,146                 | 34,600                  | 1.130      |
| No.7                     | 175                    | MCB         | SWCBB (L)   | 7.6                 | 892                  | 8.4               | 1,014                 | 35,000                  | 1.115      |
| No.7                     | 185                    | LC          | SWC (L)     | 7.4                 | 871                  | 8.2               | 990                   | 35,000                  | 1.120      |
| No.7                     | 200                    | LC          | TC (L)      | 6.1                 | 777                  | 6.8               | 883                   | 34,800                  | 1.110      |
| No.7                     | 135                    | NOS         | JHP         | 10.1                | 1,089                | 11.2              | 1,237                 | 33,900                  | 1.125      |
| No.7                     | 150                    | NOS         | JHP         | 9.2                 | 1,000                | 10.2              | 1,136                 | 34,300                  | 1.120      |
| No.7                     | 155                    | RAN         | FP          | 9.3                 | 998                  | 10.3              | 1,135                 | 34,300                  | 1.125      |
| No.7                     | 165                    | SIE         | JHP         | 8.4                 | 923                  | 9.3               | 1,049                 | 34,400                  | 1.125      |
| No.7                     | 180                    | HDY         | XTP         | 7.7                 | 861                  | 8.5               | 978                   | 34,600                  | 1.135      |
| No.7                     | 190                    | SIE         | FPJ         | 7.7                 | 848                  | 8.6               | 964                   | 34,300                  | 1.125      |
| No.7                     | 200                    | HDY         | XTP         | 6.7                 | 748                  | 7.4               | 850                   | 35,000                  | 1.130      |
| No.9                     | 170                    | LC          | SWC (L)     | 9.2                 | 878                  | 10.2              | 998                   | 34,900                  | 1.115      |
| No.9                     | 185                    | LC          | RNSWC (L)   | 8.7                 | 841                  | 9.7               | 956                   | 33,500                  | 1.120      |
| No.9                     | 200                    | LC          | TC (L)      | 7.8                 | 774                  | 8.7               | 880                   | 35,000                  | 1.110      |
| No.9                     | 180                    | HDY         | XTP         | 9.9                 | 897                  | 11.0              | 1,019                 | 35,000                  | 1.135      |
| No.9                     | 190                    | SIE         | FPJ         | 9.9                 | 877                  | 11.0              | 997                   | 32,700                  | 1.125      |
| No.9                     | 200                    | HDY         | XTP         | 8.3                 | 759                  | 9.2               | 863                   | 35,000                  | 1.130      |

### 10mm Auto

|  | Bullet Weight (Grains) | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains) | Max Velocity (fps) | Max Load Pressure (psi) | COL (inch) |
|--|------------------------|-------------|-------------|---------------------|----------------------|-------------------|--------------------|-------------------------|------------|
| Barrel: 5", Twist: 1-16" Primer: WIN WLP Bullet Diameter .400" |                        |             |             |                     |                      |                   |                    |                         |            |
| No.5   | 170                    | LC          | SWC (L)     | 7.8                 | 1,085                | 8.7               | 1,233              | 31,800                  | 1.250      |
| No.5   | 175                    | MCB         | SWCBB (L)   | 7.5                 | 1,026                | 8.3               | 1,166              | 31,500                  | 1.245      |
| No.5   | 135                    | SIE         | JHP         | 10.3                | 1,323                | 11.4              | 1,503              | 36,900                  | 1.250      |
| No.5   | 150                    | NOS         | JHP         | 9.5                 | 1,229                | 10.6              | 1,397              | 36,900                  | 1.245      |
| No.5   | 155                    | HDY         | JHP         | 9.0                 | 1,174                | 10.0              | 1,334              | 35,300                  | 1.250      |
| No.5   | 155                    | RAN         | FP          | 8.9                 | 1,151                | 9.9               | 1,309              | 34,300                  | 1.260      |
| No.5   | 165                    | SIE         | HP          | 8.7                 | 1,122                | 9.7               | 1,275              | 36,200                  | 1.250      |
| No.5   | 180                    | HDY         | XTP         | 7.8                 | 1,053                | 8.7               | 1,197              | 36,800                  | 1.250      |
| No.7   | 140                    | LC          | TC (L)      | 10.8                | 1,203                | 12.0              | 1,367              | 33,700                  | 1.250      |
| No.7   | 170                    | LC          | SWC (L)     | 9.9                 | 1,120                | 11.0              | 1,273              | 35,500                  | 1.250      |
| No.7   | 175                    | MCB         | SWCBB (L)   | 9.4                 | 1,055                | 10.4              | 1,199              | 35,200                  | 1.245      |
| No.7   | 185                    | LC          | RNSWC (L)   | 9.2                 | 1,032                | 10.2              | 1,173              | 34,500                  | 1.245      |
| No.7   | 195                    | MCB         | TCBB (L)    | 8.6                 | 998                  | 9.5               | 1,134              | 35,400                  | 1.245      |
| No.7   | 135                    | NOS         | JHP         | 12.2                | 1,299                | 13.6              | 1,476              | 34,900                  | 1.250      |
| No.7   | 150                    | SIE         | JHP         | 11.7                | 1,236                | 13.0              | 1,405              | 36,400                  | 1.245      |
| No.7   | 155                    | HDY         | JHP         | 11.4                | 1,214                | 12.7              | 1,379              | 37,500                  | 1.250      |
| No.7   | 165                    | SIE         | JHP         | 10.8                | 1,148                | 12.0              | 1,305              | 37,500                  | 1.250      |
| No.7   | 180                    | HDY         | XTP         | 9.6                 | 1,041                | 10.7              | 1,183              | 35,300                  | 1.250      |
| No.7   | 180                    | RAN         | HP          | 9.9                 | 1,051                | 11.0              | 1,195              | 36,200                  | 1.260      |
| No.7   | 190                    | SIE         | FPJ         | 10.1                | 1,054                | 11.2              | 1,198              | 36,000                  | 1.250      |
| No.7   | 200                    | HDY         | XTP         | 8.8                 | 960                  | 9.8               | 1,091              | 36,500                  | 1.250      |
| No.9   | 170                    | LC          | SWC (L)     | 12.2                | 1,131                | 13.6              | 1,285              | 34,900                  | 1.245      |
| No.9   | 185                    | LC          | RNSWC (L)   | 11.7                | 1,098                | 13.0              | 1,248              | 34,700                  | 1.245      |
| No.9   | 200                    | LC          | TC (L)      | 10.6                | 1,018                | 11.8              | 1,157              | 36,200                  | 1.250      |
| No.9   | 155                    | HDY         | JHP         | 14.3                | 1,244                | 15.9              | 1,414              | 32,700                  | 1.250      |
| No.9   | 165                    | SIE         | JHP         | 13.5                | 1,180                | 15.0              | 1,341              | 34,100                  | 1.250      |
| No.9   | 180                    | HDY         | XTP         | 12.2                | 1,093                | 13.5              | 1,242              | 34,100                  | 1.250      |
| No.9   | 180                    | RAN         | HP          | 12.1                | 1,086                | 13.5              | 1,235              | 35,500                  | 1.260      |
| No.9   | 190                    | SIE         | FPJ         | 12.8                | 1,115                | 14.2              | 1,267              | 35,800                  | 1.250      |
| No.9   | 200                    | HDY         | XTP         | 11.3                | 1,030                | 12.5              | 1,170              | 37,000                  | 1.250      |

### 41 Remington Magnum

|  | Bullet Weight (Grains) | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains) | Max Velocity (fps) | Max Load Pressure (psi) | COL (inch) |
|--|------------------------|-------------|-------------|---------------------|----------------------|-------------------|--------------------|-------------------------|------------|
| Barrel: 10", Twist: 1-18.75" Primer: FED 155 Bullet Diameter .410" |                        |             |             |                     |                      |                   |                    |                         |            |
| No.9   | 200                    | MCB         | SWCBB (L)   | 16.2                | 1,392                | 18.0              | 1,582              | 38,600                  | 1.675 (1)  |
| No.9   | 265                    | CP          | WFNGC (L)   | 12.1                | 1,071                | 13.5              | 1,218              | 38,900                  | 1.710 (1)  |
| No.9   | 170                    | SIE         | JHP         | 17.7                | 1,500                | 19.7              | 1,705              | 37,800                  | 1.565      |
| No.9   | 210                    | HDY         | XTP         | 16.2                | 1,338                | 18.0              | 1,521              | 40,000                  | 1.570      |
| No.9   | 220                    | RAN         | FP          | 15.6                | 1,305                | 17.3              | 1,483              | 38,800                  | 1.590      |

### 44 Special

|  | Bullet Weight (Grains) | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains) | Max Velocity (fps) | Max Load Pressure (psi) | COL (inch) |
|--|------------------------|-------------|-------------|---------------------|----------------------|-------------------|--------------------|-------------------------|------------|
| Barrel: 8.150", Twist: 1-20" Primer: REM 2 1/2 Bullet Diameter .429" |                        |             |             |                     |                      |                   |                    |                         |            |
| No.5   | 220                    | MCB         | RNFP (L)    | 7.0                 | 844                  | 7.8               | 959                | 14,000                  | 1.535      |
| No.5   | 240                    | LC          | RNFP (L)    | 6.1                 | 757                  | 6.8               | 860                | 14,000                  | 1.600      |
| No.5   | 180                    | HDY         | JHP         | 7.8                 | 878                  | 8.7               | 1,000              | 14,000                  | 1.485      |
| No.5   | 200                    | NOS         | JHP         | 7.2                 | 766                  | 8.0               | 871                | 13,000                  | 1.490      |
| No.5   | 240                    | SIE         | JHC         | 5.8                 | 640                  | 6.5               | 730                | 14,000                  | 1.485      |
| No.7   | 220                    | MCB         | RNFP (L)    | 8.6                 | 839                  | 9.5               | 953                | 14,000                  | 1.535      |
| No.7   | 240                    | LC          | SWC (L)     | 7.8                 | 792                  | 8.7               | 900                | 14,000                  | 1.600      |
| No.7   | 180                    | HDY         | JHP         | 9.9                 | 880                  | 10.5              | 1,000              | 14,000                  | 1.485      |
| No.7   | 200                    | NOS         | JHP         | 9.0                 | 825                  | 10.0              | 938                | 13,800                  | 1.490      |
| No.7   | 240                    | SIE         | JHC         | 7.2                 | 689                  | 8.0               | 745                | 14,000                  | 1.485      |

### 44 Remington Magnum

|  | Bullet Weight (Grains) | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains) | Max Velocity (fps) | Max Load Pressure (psi) | COL (inch) |
|--|------------------------|-------------|-------------|---------------------|----------------------|-------------------|--------------------|-------------------------|------------|
| Barrel: 8.275", Twist: 1-20" Primer: WIN WLP Bullet Diameter .429" |                        |             |             |                     |                      |                   |                    |                         |            |
| No.7   | 200                    | LC          | RNFP (L)    | 16.5                | 1,336                | 18.3              | 1,518              | <b>40,000</b>           | 1.560      |
| No.7   | 240                    | MCB         | SWC (L)     | 15.8                | 1,283                | 17.5              | 1,458              | <b>39,700</b>           | 1.560      |
| No.7   | 180                    | SIE         | JHP         | 18.5                | 1,502                | 20.5              | 1,707              | <b>40,000</b>           | 1.560      |
| No.7   | 200                    | NOS         | JHP         | 16.8                | 1,353                | 18.7              | 1,538              | <b>37,500</b>           | 1.595      |
| No.7   | 240                    | HDY         | XTP         | 15.6                | 1,245                | 17.3              | 1,415              | <b>40,000</b>           | 1.560      |
| No.7   | 240                    | RAN         | FP          | 15.0                | 1,264                | 16.8              | 1,437              | <b>37,300</b>           | 1.575      |
| No.7   | 250                    | NOS         | PART        | 15.3                | 1,170                | 17.0              | 1,330              | <b>37,700</b>           | 1.600      |
| No.7   | 300                    | SIE         | JSP         | 14.6                | 1,074                | 16.2              | 1,221              | <b>40,000</b>           | 1.735 (1)  |
| No.7   | 300                    | HDY         | XTP         | 13.1                | 1,047                | 14.5              | 1,190              | <b>38,000</b>           | 1.595      |
| No.9   | 220                    | MCB         | RNFP (L)    | 21.2                | 1,456                | 23.6              | 1,655              | <b>40,000</b>           | 1.560      |
| No.9   | 240                    | LC          | SWC (L)     | 19.5                | 1,364                | 21.7              | 1,550              | <b>39,600</b>           | 1.560      |
| No.9   | 275                    | CP          | WFNPB (L)   | 17.1                | 1,202                | 19.0              | 1,350              | <b>40,000</b>           | 1.695 (1)  |
| No.9   | 300                    | LC          | TC (L)      | 16.6                | 1,175                | 18.5              | 1,320              | <b>40,000</b>           | 1.720 (1)  |
| No.9   | 320                    | CP          | WFNGC (L)   | 15.7                | 1,163                | 17.5              | 1,322              | <b>39,800</b>           | 1.665 (1)  |
| No.9   | 200                    | NOS         | JHP         | 22.5                | 1,475                | 25.0              | 1,676              | <b>37,800</b>           | 1.595      |
| No.9   | 240                    | SIE         | JHC         | 19.1                | 1,320                | 21.3              | 1,500              | <b>40,000</b>           | 1.560      |
| No.9   | 240                    | RAN         | FP          | 18.0                | 1,326                | 20.0              | 1,507              | <b>40,000</b>           | 1.575      |
| No.9   | 250                    | SIE         | FPJ         | 18.9                | 1,275                | 21.0              | 1,449              | <b>39,200</b>           | 1.600      |
| No.9   | 300                    | SIE         | JSP         | 17.1                | 1,106                | 19.0              | 1,257              | <b>40,000</b>           | 1.735 (1)  |
| No.9   | 300                    | HDY         | XTP         | 15.9                | 1,121                | 17.7              | 1,274              | <b>38,320</b>           | 1.595      |

**Bold Italicized = CUP Pressure**

### .45 Auto (ACP)

|  | Bullet Weight (Grains) | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains) | Max Velocity (fps) | Max Load Pressure (psi) | COL (inch) |
|--|------------------------|-------------|-------------|---------------------|----------------------|-------------------|--------------------|-------------------------|------------|
| Barrel: 5", Twist: 1-16" Primer: FED 150 Bullet Diameter .451" |                        |             |             |                     |                      |                   |                    |                         |            |
| N100   | 170                    | MCB         | SWCBB (L)   | 5.0                 | 952                  | 5.6               | 1,082              | 19,900                  | 1.130      |
| N100   | 200                    | LC          | SWC (L)     | 4.4                 | 825                  | 4.9               | 938                | 18,200                  | 1.190      |
| N100   | 200                    | HDY         | XTP         | 4.3                 | 768                  | 4.8               | 873                | 16,500                  | 1.225      |
| N100   | 230                    | SIE         | FMJ         | 4.1                 | 726                  | 4.5               | 825                | 19,100                  | 1.250      |
| S1000  | 155                    | LC          | SWC (L)     | 5.9                 | 1,029                | 6.5               | 1,170              | 19,100                  | 1.240      |
| S1000  | 170                    | MCB         | SWC (L)     | 5.3                 | 931                  | 5.9               | 1,059              | 17,800                  | 1.130      |
| S1000  | 200                    | LC          | SWC (L)     | 4.8                 | 838                  | 5.3               | 952                | 18,300                  | 1.190      |
| S1000  | 230                    | LC          | RN (L)      | 4.6                 | 790                  | 5.1               | 898                | 18,300                  | 1.230      |
| S1000  | 185                    | SIE         | JHC         | 5.5                 | 862                  | 6.1               | 980                | 19,400                  | 1.210      |
| S1000  | 200                    | HDY         | XTP         | 5.2                 | 804                  | 5.8               | 914                | 18,800                  | 1.225      |
| No.2   | 155                    | LC          | SWC (L)     | 6.8                 | 1,060                | 7.5               | 1,204              | 20,600                  | 1.240      |
| No.2   | 170                    | MCB         | SWC (L)     | 5.9                 | 950                  | 6.5               | 1,079              | 19,400                  | 1.130      |
| No.2   | 200                    | LC          | SWC (L)     | 5.2                 | 826                  | 5.8               | 939                | 17,400                  | 1.190      |
| No.2   | 230                    | LC          | RN (L)      | 5.0                 | 766                  | 5.6               | 870                |                         |            |




**HANDGUN**
**HANDGUN**

| Bullet Weight (Grains)                        |     | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps)  | Max Load (Grains) | Max Velocity (fps) | Max Load Pressure (psi) | COL (inch) |
|---|-----|-------------|-------------|---------------------|-----------------------|-------------------|--------------------|-------------------------|------------|
| <b>.45 Colt</b>                               |     |             |             |                     |                       |                   |                    |                         |            |
| Barrel: 7.26", Twist: 1-16" Primer: REM 2 1/2 |     |             |             |                     | Bullet Diameter .452" |                   |                    |                         |            |
| No.5  | 210 | MCB         | RNBB (L)    | 10.9                | 904                   | 12.1              | 1,027              | 12,500                  | 1.620      |
| No.5  | 225 | MCB         | TCBB (L)    | 10.9                | 909                   | 12.1              | 1,033              | 13,800                  | 1.620      |
| No.5  | 255 | LC          | SWC (L)     | 9.4                 | 846                   | 10.4              | 961                | 13,400                  | 1.600      |
| No.5  | 185 | SIE         | JHP         | 10.8                | 946                   | 12.0              | 1,075              | 12,200                  | 1.575      |
| No.5  | 200 | HDY         | XTP         | 10.4                | 908                   | 11.5              | 1,032              | 13,400                  | 1.595      |
| No.5  | 230 | HDY         | XTP         | 9.9                 | 853                   | 11.0              | 969                | 14,000                  | 1.595      |
| No.5  | 240 | SIE         | JHP         | 9.5                 | 854                   | 10.5              | 970                | 14,000                  | 1.590      |
| No.5  | 250 | HDY         | XTP         | 9.9                 | 704                   | 11.0              | 800                | 14,000                  | 1.570      |
| No.5  | 250 | RAN         | FP          | 9.4                 | 765                   | 10.4              | 870                | 12,900                  | 1.585      |

| Bullet Weight (Grains)                         |     | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps)  | Max Load (Grains) | Max Velocity (fps) | Max Load Pressure (psi) | COL (inch) |
|--|-----|-------------|-------------|---------------------|-----------------------|-------------------|--------------------|-------------------------|------------|
| <b>.45 Colt Ruger &amp; T/C Contender Only</b> |     |             |             |                     |                       |                   |                    |                         |            |
| Barrel: 7.26", Twist: 1-16" Primer: WIN WLP    |     |             |             |                     | Bullet Diameter .452" |                   |                    |                         |            |
| No.7   | 210 | MCB         | RNBB (L)    | 14.9                | 1,104                 | 16.6              | 1,254              | 20,900                  | 1.550      |
| No.7   | 225 | MCB         | TCBB (L)    | 14.8                | 1,087                 | 16.4              | 1,235              | 21,000                  | 1.575      |
| No.7   | 255 | LC          | SWC (L)     | 13.6                | 1,010                 | 15.1              | 1,148              | 19,700                  | 1.600      |
| No.7   | 240 | SIE         | JHC         | 14.0                | 1,010                 | 15.5              | 1,148              | 20,400                  | 1.570      |
| No.7   | 250 | NOS         | JHP         | 13.7                | 971                   | 15.2              | 1,103              | 19,600                  | 1.585      |
| No.9   | 255 | LC          | SWC (L)     | 15.8                | 1,038                 | 17.6              | 1,180              | 20,100                  | 1.600      |
| No.9   | 265 | CP          | WFNGC(L)    | 15.8                | 998                   | 17.5              | 1,134              | 19,300                  | 1.650      |
| No.9   | 300 | LC          | FP (L)      | 13.5                | 798                   | 15.0              | 907                | 17,600                  | 1.585      |
| No.9   | 250 | RAN         | FP          | 16.2                | 1,008                 | 18.0              | 1,146              | 20,000                  | 1.585      |
| No.9   | 300 | HDY         | XTP         | 13.5                | 710                   | 15.0              | 807                | 19,500                  | 1.580      |

| Bullet Weight (Grains)                     |     | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps)  | Max Load (Grains) | Max Velocity (fps) | Max Load Pressure (psi) | COL (inch) |
|--|-----|-------------|-------------|---------------------|-----------------------|-------------------|--------------------|-------------------------|------------|
| <b>454 Casull</b>                          |     |             |             |                     |                       |                   |                    |                         |            |
| Barrel: 7.5", Twist: 1-24" Primer: FED 205 |     |             |             |                     | Bullet Diameter .452" |                   |                    |                         |            |
| No.9                                       | 250 | LC          | RNFP (L)    | 21.6                | 1,326                 | 24.0              | 1,507              | 23,000                  | 1.750      |
| No.9                                       | 300 | MCB         | WPFB (L)    | 18.9                | 1,228                 | 21.0              | 1,396              | 30,200                  | 1.690      |
| No.9                                       | 240 | SIE         | JHP         | 25.2                | 1,543                 | 28.0              | 1,753              | 39,800                  | 1.705      |
| No.9                                       | 250 | HDY         | XTP         | 25.2                | 1,558                 | 28.0              | 1,770              | 45,800                  | 1.700      |
| No.9                                       | 300 | SIE         | JSP         | 23.4                | 1,404                 | 26.0              | 1,596              | 46,200                  | 1.765      |
| 5744                                       | 250 | LC          | RNFP (L)    | 26.1                | 1,347                 | 29.0              | 1,531              | 37,100                  | 1.750      |
| 5744                                       | 300 | MCB         | WPFB (L)    | 24.3                | 1,260                 | 27.0              | 1,432              | 45,500                  | 1.690      |
| 5744                                       | 240 | SIE         | JHP         | 31.5                | 1,489                 | 35.0              | 1,693              | 51,800                  | 1.705      |
| 5744                                       | 250 | NOS         | JHP         | 30.6                | 1,518                 | 34.0              | 1,726              | 52,600                  | 1.700      |
| 5744                                       | 300 | HDY         | XTP         | 28.8                | 1,381                 | 32.0              | 1,570              | 52,600                  | 1.765      |
| 1680                                       | 300 | LC          | FP (L)      | 27.0                | 1,229                 | 30.0              | 1,397              | 33,700                  | 1.690      |
| 1680                                       | 240 | SIE         | JHP         | 32.4                | 1,498                 | 36.0              | 1,702              | 42,200                  | 1.705      |
| 1680                                       | 250 | HDY         | XTP         | 33.3                | 1,547                 | 37.0              | 1,758              | 49,100                  | 1.700      |
| 1680                                       | 300 | HDY         | XTP         | 30.2                | 1,403                 | 33.5              | 1,594              | 49,600                  | 1.765      |

| Bullet Weight (Grains)                      |     | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps)  | Max Load (Grains)      | Max Velocity (fps) | Max Load Pressure (psi) | COL (inch) |
|---|-----|-------------|-------------|---------------------|-----------------------|------------------------|--------------------|-------------------------|------------|
| <b>460 S&amp;W</b>                          |     |             |             |                     |                       |                        |                    |                         |            |
| Barrel: 8.37", Twist: 1-20" Primer: WIN WLR |     |             |             |                     | Bullet Diameter .452" |                        |                    |                         |            |
| 5744  | 335 | CP          | WLNGC(L)    | 25.5                | 1,200                 | Use for a Reduced Load |                    | 2.181                   |            |
| 5744  | 335 | CP          | WLNGC(L)    | 32.0                | 1,500                 | 36.5                   | 1,710              | 59,600                  | 2.181      |
| 5744  | 360 | CP          | WLNGC(L)    | 26.0                | 1,220                 | Use for a Reduced Load |                    | 2.199                   |            |
| 5744  | 360 | CP          | WLNGC(L)    | 31.5                | 1,480                 | 35.0                   | 1,640              | 59,800                  | 2.199      |
| 5744  | 240 | HDY         | XTP         | 27.0                | 1,230                 | Use for a Reduced Load |                    | 2.188                   |            |
| 5744  | 240 | HDY         | XTP         | 40.0                | 1,836                 | 44.0                   | 2,035              | 58,200                  | 2.188      |
| 5744  | 260 | NOS         | PART        | 28.0                | 1,250                 | Use for a Reduced Load |                    | 2.192                   |            |
| 5744  | 260 | NOS         | PART        | 36.0                | 1,685                 | 40.0                   | 1,880              | 55,000                  | 2.192      |
| 5744  | 300 | SIE         | JSP         | 26.0                | 1,210                 | Use for a Reduced Load |                    | 2.208                   |            |
| 5744  | 300 | SIE         | JSP         | 34.0                | 1,590                 | 38.0                   | 1,785              | 57,800                  | 2.208      |
| No 9  | 335 | CP          | WLNGC(L)    | 28.0                | 1,510                 | 31.5                   | 1,660              | 61,000                  | 2.181      |
| No 9  | 360 | CP          | WLNGC(L)    | 27.0                | 1,450                 | 30.0                   | 1,580              | 60,438                  | 2.199      |
| No 9  | 240 | HDY         | XTP         | 34.0                | 1,820                 | 38.0                   | 2,000              | 59,300                  | 2.188      |
| No 9  | 250 | BAR         | XPB         | 29.0                | 1,700                 | 32.5                   | 1,891              | 58,900                  | 2.199      |
| No 9  | 260 | NOS         | PART        | 31.5                | 1,740                 | 35.0                   | 1,895              | 59,000                  | 2.192      |
| No 9  | 300 | SIE         | JSP         | 30.0                | 1,620                 | 34.0                   | 1,790              | 61,000                  | 2.208      |
| 4100  | 335 | CP          | WLNGC(L)    | 31.0                | 1,520                 | 34.5                   | 1,675              | 60,000                  | 2.181      |
| 4100  | 360 | CP          | WLNGC(L)    | 29.7                | 1,450                 | 33.0                   | 1,595              | 59,100                  | 2.199      |
| 4100  | 240 | HDY         | XTP         | 37.0                | 1,780                 | 42.5                   | 2,035              | 60,500                  | 2.188      |
| 4100  | 250 | BAR         | XPB         | 33.0                | 1,726                 | 37.0                   | 1,930              | 60,000                  | 2.199      |
| 4100  | 260 | NOS         | PART        | 35.0                | 1,730                 | 39.0                   | 1,915              | 59,000                  | 2.192      |
| 4100  | 300 | SIE         | JSP         | 33.0                | 1,600                 | 37.0                   | 1,780              | 60,300                  | 2.208      |
| 1680  | 335 | CP          | WLNGC(L)    | 38.0                | 1,500                 | 42.0                   | 1,684              | 59,700                  | 2.181      |
| 1680  | 360 | CP          | WLNGC(L)    | 36.0                | 1,400                 | 39.5                   | 1,600              | 57,500                  | 2.199      |
| 1680  | 240 | HDY         | XTP         | 45.0                | 1,713                 | 50.0                   | 1,985              | 53,300                  | 2.188      |
| 1680  | 250 | BAR         | XPB         | 37.0                | 1,550                 | 41.0                   | 1,770              | 48,900                  | 2.199      |
| 1680  | 260 | NOS         | PART        | 41.5                | 1,628                 | 46.0                   | 1,860              | 51,500                  | 2.192      |
| 1680  | 300 | SIE         | JSP         | 40.5                | 1,590                 | 45.0                   | 1,810              | 57,000                  | 2.208      |

| Bullet Weight (Grains)                     |     | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps)  | Max Load (Grains) | Max Velocity (fps) | Max Load Pressure (psi) | COL (inch) |
|--|-----|-------------|-------------|---------------------|-----------------------|-------------------|--------------------|-------------------------|------------|
| <b>480 Ruger</b>                           |     |             |             |                     |                       |                   |                    |                         |            |
| Barrel: 7.5", Twist: 1-18" Primer: WIN WLP |     |             |             |                     | Bullet Diameter .475" |                   |                    |                         |            |
| No 7                                       | 370 | CP          | LFNPB (L)   | 15.2                | 1,180                 | 17.2              | 1,300              | 46,000                  | 1.670      |
| No 7                                       | 390 | CP          | LFNPB (L)   | 14.8                | 1,150                 | 16.5              | 1,260              | 46,600                  | 1.680      |
| No 7                                       | 325 | HDY         | XTP         | 17.0                | 1,280                 | 19.0              | 1,430              | 45,400                  | 1.650      |
| No 7                                       | 400 | HDY         | XTP         | 13.0                | 1,050                 | 15.0              | 1,180              | 45,200                  | 1.635      |
| No 9                                       | 370 | CP          | LFNPB (L)   | 19.0                | 1,220                 | 21.0              | 1,320              | 44,900                  | 1.670      |
| No 9                                       | 390 | CP          | LFNPB (L)   | 18.4                | 1,180                 | 20.5              | 1,300              | 45,500                  | 1.680      |
| No 9                                       | 325 | HDY         | XTP         | 21.5                | 1,300                 | 23.5              | 1,450              | 45,400                  | 1.650      |
| No 9                                       | 400 | HDY         | XTP         | 17.0                | 1,130                 | 19.0              | 1,240              | 44,600                  | 1.635      |

| Bullet Weight (Grains)                      |     | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps)  | Max Load (Grains)      | Max Velocity (fps) | Max Load Pressure (psi) | COL (inch) |
|---|-----|-------------|-------------|---------------------|-----------------------|------------------------|--------------------|-------------------------|------------|
| <b>500 S&amp;W</b>                          |     |             |             |                     |                       |                        |                    |                         |            |
| Barrel: 8.37", Twist: 1-18" Primer: WIN WLR |     |             |             |                     | Bullet Diameter .500" |                        |                    |                         |            |
| 5744  | 370 | CP          | WFNGC(L)    | 32.0                | 1,204                 | Use for a Reduced Load |                    |                         |            |
| 5744  | 370 | CP          | WFNGC(L)    | 38.3                | 1,432                 | 42.5                   | 1,566              | 41,800                  | 2.020      |
| 5744  | 440 | CP          | WFNGC(L)    | 34.4                | 1,300                 | 38.0                   | 1,424              | 43,100                  | 2.020      |
| 5744  | 325 | BAR         | XPB         | 39.0                | 1,520                 | 43.0                   | 1,700              | 41,500                  | 2.292      |
| 5744  | 350 | SIE         | JHP         | 40.0                | 1,480                 | 44.0                   | 1,620              | 43,500                  | 2.060      |
| 5744  | 375 | BAR         | XPB         | 34.0                | 1,376                 | 37.5                   | 1,500              | 43,500                  | 2.292      |
| 5744  | 400 | SIE         | JSP         | 37.0                | 1,385                 | 41.0                   | 1,520              | 43,200                  | 2.060      |
| No 9  | 370 | CP          | WFNGC(L)    | 32.0                | 1,550                 | 35.0                   | 1,700              | 56,000                  | 2.020      |
| No 9  | 440 | CP          | WFNGC(L)    | 27.0                | 1,325                 | 30.5                   | 1,490              | 56,000                  | 2.020      |
| No 9  | 325 | BAR         | XPB         | 32.0                | 1,620                 | 36.0                   | 1,800              | 54,000                  | 2.292      |
| No 9  | 350 | SIE         | JHP         | 32.8                | 1,610                 | 36.5                   | 1,790              | 56,500                  | 2.060      |
| No 9  | 375 | BAR         | XPB         | 29.0                | 1,460                 | 32.5                   | 1,650              | 57,000                  | 2.292      |
| No 9  | 400 | SIE         | JSP         | 31.0                | 1,490                 | 34.5                   | 1,670              | 57,500                  | 2.060      |
| 4100  | 370 | CP          | WFNGC(L)    | 39.0                | 1,650                 | 43.5                   | 1,825              | 56,000                  | 2.020      |
| 4100  | 440 | CP          | WFNGC(L)    | 33.0                | 1,420                 | 37.0                   | 1,650              | 57,000                  | 2.020      |
| 4100  | 325 | BAR         | XPB         | 38.0                | 1,680                 | 42.0                   | 1,820              | 57,000                  | 2.292      |
| 4100  | 350 | SIE         | JHP         | 38.7                | 1,680                 | 43.0                   | 1,875              | 57,500                  | 2.060      |
| 4100  | 375 | BAR         | XPB         | 33.0                | 1,475                 | 37.5                   | 1,665              | 57,000                  | 2.292      |
| 4100  | 400 | SIE         | JSP         | 35.0                | 1,510                 | 40.0                   | 1,700              | 57,800                  | 2.060      |
| 1680  | 370 | CP          | WFNGC(L)    | 43.0                | 1,375                 | 47.5                   | 1,550              | 37,000                  | 2.020      |
| 1680  | 440 | CP          | WFNGC(L)    | 38.7                | 1,267                 | 43.0                   | 1,458              | 35,000                  | 2.020      |
| 1680  | 375 | BAR         | XPB         | 38.0                | 1,250                 | 42.0                   | 1,450              | 36,500                  | 2.292      |
| 1680  | 400 | SIE         | JSP         | 40.5                | 1,305                 | 45.0                   | 1,454              | 29,400                  | 2.060      |

## BRUSH UP YOUR ACCURACY WITH AN X-TREME CLEAN.

Tests prove a clean gun shoots more accurately. Montana X-treme is the best gun care product made so why risk performance when it really counts?

MADE IN THE USA

# MONTANA X-TREME™

GUN CARE PRODUCTS



## RIFLE

## RIFLE

| Bullet Weight (Grains)    | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains)     | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)   |
|---------------------------|-------------|-------------|---------------------|----------------------|-----------------------|-------------------------|-------------------------|--------------|
| <b>17 Remington</b>       |             |             |                     |                      |                       |                         |                         |              |
| Barrel: 24", Twist: 1-10" |             |             | Primer: FED 205     |                      | Bullet Diameter .172" |                         |                         |              |
| 2495                      | 25          | HDY         | HP                  | 20.7                 | 3,569                 | 23.0                    | 4,056                   | 60,298 2.170 |
| 2520                      | 25          | HDY         | HP                  | 20.4                 | 3,496                 | 22.7                    | 3,973                   | 60,888 2.170 |
| 4064                      | 25          | HDY         | HP                  | 21.6                 | 3,560                 | 24.0                    | 4,045                   | 59,118 2.170 |
| 2700                      | 25          | HDY         | HP                  | 25.7                 | 3,838                 | 27.0                    | 4,083                   | 58,882 2.170 |

| Bullet Weight (Grains)    | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains)     | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)   |
|---------------------------|-------------|-------------|---------------------|----------------------|-----------------------|-------------------------|-------------------------|--------------|
| <b>20 Tactical</b>        |             |             |                     |                      |                       |                         |                         |              |
| Barrel: 24", Twist: 1-12" |             |             | Primer: WIN WSR     |                      | Bullet Diameter .204" |                         |                         |              |
| 2230                      | 32          | SIE         | BK                  | 21.0                 | 3,225                 | 24.0                    | 3,690                   | 52,900 2.165 |
| 2230                      | 40          | HDY         | V-MAX               | 20.0                 | 2,950                 | 23.0                    | 3,370                   | 52,000 2.165 |
| 2520                      | 32          | SIE         | BK                  | 23.0                 | 3,350                 | 25.5                    | 3,700                   | 53,000 2.165 |
| 2520                      | 40          | HDY         | V-MAX               | 21.5                 | 3,050                 | 24.0                    | 3,400                   | 53,500 2.165 |

| Bullet Weight (Grains)    | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains)     | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)   |
|---------------------------|-------------|-------------|---------------------|----------------------|-----------------------|-------------------------|-------------------------|--------------|
| <b>204 Ruger</b>          |             |             |                     |                      |                       |                         |                         |              |
| Barrel: 24", Twist: 1-12" |             |             | Primer: WIN WSR     |                      | Bullet Diameter .204" |                         |                         |              |
| 2015                      | 32          | SIE         | BK                  | 23.9                 | 3,490                 | 26.5                    | 3,878                   | 57,300 2.250 |
| 2015                      | 39          | SIE         | BK                  | 22.5                 | 3,188                 | 25.0                    | 3,543                   | 59,100 2.260 |
| 2230                      | 32          | HDY         | V-MAX               | 24.7                 | 3,564                 | 27.5                    | 3,960                   | 56,300 2.250 |
| 2230                      | 40          | HDY         | V-MAX               | 23.4                 | 3,270                 | 26.0                    | 3,633                   | 56,300 2.260 |
| 2520                      | 32          | HDY         | V-MAX               | 26.6                 | 3,680                 | 29.5                    | 4,089                   | 59,000 2.250 |
| 2520                      | 40          | HDY         | V-MAX               | 25.2                 | 3,386                 | 28.0                    | 3,762                   | 59,900 2.600 |

| Bullet Weight (Grains)              | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains)     | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)   |
|-------------------------------------|-------------|-------------|---------------------|----------------------|-----------------------|-------------------------|-------------------------|--------------|
| <b>22 Hornet .224 Diameter Bore</b> |             |             |                     |                      |                       |                         |                         |              |
| Barrel: 20", Twist: 1-14"           |             |             | Primer: REM 6 ½     |                      | Bullet Diameter .224" |                         |                         |              |
| 5744                                | 40          | NOS         | BT                  | 9.2                  | 2,092                 | 9.8                     | 2,307                   | 48,734 1.855 |
| 5744                                | 40          | SIE         | HORNET              | 8.7                  | 1,943                 | 9.7                     | 2,208                   | 50,740 1.715 |
| 5744                                | 50          | HDY         | SX                  | 8.1                  | 1,717                 | 9.0                     | 1,951                   | 50,032 1.780 |
| 1680                                | 35          | HDY         | V-MAX               | 12.1                 | 2,516                 | 13.5                    | 2,860                   | 49,442 1.775 |
| 1680                                | 40          | SIE         | HORNET              | 12.6                 | 2,451                 | 14.0                    | 2,785                   | 50,740 1.715 |
| 1680                                | 45          | NOS         | HORNET              | 11.1                 | 2,194                 | 12.3                    | 2,493                   | 48,026 1.720 |
| 1680                                | 50          | HDY         | SX                  | 10.4                 | 2,105                 | 11.5                    | 2,392                   | 50,032 1.780 |

| Bullet Weight (Grains)    | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains)     | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)   |
|---------------------------|-------------|-------------|---------------------|----------------------|-----------------------|-------------------------|-------------------------|--------------|
| <b>222 Remington</b>      |             |             |                     |                      |                       |                         |                         |              |
| Barrel: 24", Twist: 1-14" |             |             | Primer: REM 7 ½     |                      | Bullet Diameter .224" |                         |                         |              |
| 2015                      | 40          | NOS         | BT                  | 20.7                 | 3,085                 | 23.0                    | 3,422                   | 45,700 2.120 |
| 2015                      | 45          | NOS         | SB                  | 20.4                 | 2,976                 | 22.7                    | 3,296                   | 45,000 2.120 |
| 2015                      | 50          | HDY         | SPSX                | 20.2                 | 2,900                 | 22.5                    | 3,213                   | 48,500 2.120 |
| 2015                      | 55          | SIE         | SPBT                | 19.3                 | 2,770                 | 21.5                    | 3,070                   | 47,200 2.120 |
| 2015                      | 60          | SIE         | HP                  | 18.5                 | 2,661                 | 20.6                    | 2,950                   | 47,800 2.120 |
| 2230                      | 40          | NOS         | BT                  | 22.2                 | 3,038                 | 24.7                    | 3,410                   | 48,600 2.120 |
| 2230                      | 45          | SIE         | SB                  | 22.0                 | 2,910                 | 24.5                    | 3,269                   | 46,700 2.120 |
| 2230                      | 50          | HDY         | SPSX                | 21.6                 | 2,840                 | 24.0                    | 3,170                   | 48,100 2.120 |
| 2230                      | 55          | SIE         | SPBT                | 20.5                 | 2,720                 | 22.8                    | 3,032                   | 48,500 2.120 |
| 2230                      | 60          | SIE         | HP                  | 20.0                 | 2,630                 | 22.2                    | 2,931                   | 47,800 2.120 |
| 2460                      | 40          | HDY         | BT                  | 22.5                 | 3,045                 | 25.0                    | 3,425                   | 48,500 2.120 |
| 2460                      | 45          | NOS         | SB                  | 22.3                 | 2,959                 | 24.8                    | 3,275                   | 47,000 2.120 |
| 2460                      | 50          | HDY         | SPSX                | 21.9                 | 2,850                 | 24.3                    | 3,180                   | 48,200 2.120 |
| 2460                      | 55          | SIE         | SPBT                | 20.7                 | 2,740                 | 23.0                    | 3,027                   | 47,500 2.120 |
| 2460                      | 60          | SIE         | HP                  | 20.4                 | 2,600                 | 22.5                    | 2,910                   | 46,800 2.120 |
| 2520                      | 55          | SIE         | SPBT                | 21.5                 | 2,641                 | 23.8                    | 2,985                   | 43,500 2.120 |
| 2520                      | 60          | SIE         | HP                  | 20.7                 | 2,562                 | 23.0                    | 2,897                   | 44,800 2.120 |

| Bullet Weight (Grains)    | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains)     | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)          |
|---------------------------|-------------|-------------|---------------------|----------------------|-----------------------|-------------------------|-------------------------|---------------------|
| <b>223 Remington</b>      |             |             |                     |                      |                       |                         |                         |                     |
| Barrel: 24", Twist: 1-12" |             |             | Primer: FED 205     |                      | Bullet Diameter .224" |                         |                         |                     |
| 5744                      | 35          | HDY         | V-MAX               | 19.2                 | 3,169                 | 21.1                    | 3,602                   | 53,694 2.130        |
| 5744                      | 40          | NOS         | BT                  | 18.5                 | 3,025                 | 20.6                    | 3,439                   | 54,810 2.260        |
| 5744                      | 50          | BAR         | VAR                 | 17.8                 | 2,743                 | 19.7                    | 3,117                   | 52,983 2.235        |
| 5744                      | 53          | HDY         | HP                  | 16.8                 | 2,626                 | 18.7                    | 2,985                   | 53,897 2.225        |
| 5744                      | 55          | SIE         | SPT                 | 16.8                 | 2,612                 | 18.7                    | 2,968                   | 55,000 2.230        |
| 2015                      | 35          | HDY         | V-MAX               | 22.5                 | 3,289                 | 25.0                    | 3,738                   | 53,186 2.130        |
| 2015                      | 40          | NOS         | B-TIP               | 22.8                 | 3,230                 | 25.4                    | 3,671                   | <b>52,600</b> 2.260 |
| 2015                      | 45          | SIE         | HORNET              | 22.5                 | 3,058                 | 25.0                    | 3,475                   | <b>49,800</b> 2.115 |
| 2015                      | 50          | SIE         | BK                  | 22.1                 | 2,921                 | 24.5                    | 3,319                   | <b>47,100</b> 2.235 |
| 2015                      | 52          | BRG         | HP                  | 20.4                 | 2,855                 | 22.7                    | 3,245                   | 54,959 2.250        |
| 2015                      | 53          | HDY         | HP                  | 21.2                 | 2,818                 | 23.5                    | 3,203                   | <b>48,500</b> 2.225 |
| 2015                      | 55          | NOS         | B-TIP               | 21.6                 | 2,829                 | 24.0                    | 3,215                   | <b>50,500</b> 2.230 |
| 2230                      | 35          | HDY         | V-MAX               | 25.4                 | 3,402                 | 28.3                    | 3,866                   | 48,010 2.130        |
| 2230                      | 40          | BAR         | VAR                 | 23.7                 | 3,138                 | 26.4                    | 3,566                   | <b>51,500</b> 2.260 |
| 2230                      | 45          | BRG         | HP                  | 23.3                 | 2,980                 | 25.9                    | 3,387                   | <b>51,200</b> 2.115 |
| 2230                      | 50          | SIE         | BK                  | 22.5                 | 2,882                 | 25.0                    | 3,275                   | <b>50,500</b> 2.235 |
| 2230                      | 52          | SIE         | HPBT                | 21.1                 | 2,892                 | 23.5                    | 3,287                   | 54,970 2.250        |
| 2230                      | 53          | HDY         | HP                  | 22.5                 | 2,805                 | 25.0                    | 3,187                   | <b>50,600</b> 2.225 |
| 2230                      | 55          | NOS         | B-TIP               | 22.5                 | 2,773                 | 25.0                    | 3,152                   | <b>51,000</b> 2.230 |
| 2230                      | 60          | HDY         | PART                | 21.2                 | 2,663                 | 23.5                    | 3,025                   | <b>49,900</b> 2.235 |
| 2230                      | 62          | BRG         | HP                  | 20.4                 | 2,623                 | 22.8                    | 2,982                   | 54,950 2.250        |
| 2230                      | 64          | BRG         | HP                  | 20.3                 | 2,566                 | 22.5                    | 2,916                   | 54,915 2.250        |
| 2460                      | 40          | NOS         | B-TIP               | 24.2                 | 3,169                 | 26.9                    | 3,602                   | <b>51,700</b> 2.260 |
| 2460                      | 45          | BRG         | HP                  | 23.8                 | 2,998                 | 26.4                    | 3,406                   | <b>50,000</b> 2.115 |
| 2460                      | 50          | BAR         | VAR                 | 22.5                 | 2,871                 | 25.0                    | 3,262                   | <b>47,800</b> 2.235 |
| 2460                      | 52          | SIE         | BTHP                | 21.9                 | 2,874                 | 24.3                    | 3,267                   | 54,981 2.250        |
| 2460                      | 55          | NOS         | B-TIP               | 22.9                 | 2,786                 | 25.4                    | 3,166                   | <b>49,900</b> 2.230 |
| 2460                      | 60          | HDY         | V-MAX               | 21.8                 | 2,652                 | 24.2                    | 3,014                   | <b>50,100</b> 2.235 |
| 2460                      | 64          | BRG         | HP                  | 20.7                 | 2,572                 | 23.0                    | 2,922                   | 53,100 2.250        |
| 2495                      | 55          | SIE         | BK                  | 22.7                 | 2,820                 | 25.2                    | 3,206                   | <b>51,800</b> 2.230 |
| 2495                      | 60          | SIE         | HP                  | 21.3                 | 2,626                 | 23.7                    | 2,985                   | 55,000 2.235        |
| 2520                      | 60          | HDY         | SP                  | 23.8                 | 2,720                 | 26.4                    | 3,091                   | 54,516 2.235        |
| 2520                      | 64          | BRG         | HP                  | 22.5                 | 2,655                 | 25.0                    | 3,017                   | 54,980 2.250        |

*Bold Italicized = CUP Pressure*

| Bullet Weight (Grains)                   | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains)     | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)          |
|--|-------------|-------------|---------------------|----------------------|-----------------------|-------------------------|-------------------------|---------------------|
| <b>223 Remington (1 in 7 or 9 twist)</b> |             |             |                     |                      |                       |                         |                         |                     |
| Barrel: 24", Twist: 1-7" or 1-9"         |             |             | Primer: FED 205     |                      | Bullet Diameter .224" |                         |                         |                     |
| 2460                                     | 69          | NOS         | HPBT                | 21.3                 | 2,579                 | 23.7                    | 2,991                   | <b>51,800</b> 2.250 |
| 2460                                     | 75          | HDY         | HPBT                | 21.1                 | 2,457                 | 23.5                    | 2,792                   | <b>50,400</b> 2.255 |
| 2460                                     | 80          | SIE         | HPBT                | 20.7                 | 2,404                 | 23.0                    | 2,732                   | <b>50,200</b> 2.450 |
| 2495                                     | 69          | SIE         | HPBT                | 21.6                 | 2,556                 | 24.0                    | 2,905                   | <b>50,500</b> 2.250 |
| 2495                                     | 80          | NOS         | HPBT                | 20.4                 | 2,404                 | 22.6                    | 2,732                   | <b>52,300</b> 2.450 |
| 2520                                     | 69          | SIE         | HPBT                | 23.3                 | 2,625                 | 25.9                    | 2,983                   | <b>48,900</b> 2.250 |
| 2520                                     | 75          | HDY         | HPBT                | 22.0                 | 2,522                 | 24.5                    | 2,866                   | <b>52,500</b> 2.255 |
| 2520                                     | 80          | SIE         | HPBT                | 21.6                 | 2,411                 | 24.0                    | 2,740                   | <b>50,400</b> 2.450 |

*Bold Italicized = CUP Pressure*

| Bullet Weight (Grains)    | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains)     | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)       |
|---------------------------|-------------|-------------|---------------------|----------------------|-----------------------|-------------------------|-------------------------|------------------|
| <b>22-250 Remington</b>   |             |             |                     |                      |                       |                         |                         |                  |
| Barrel: 24", Twist: 1-14" |             |             | Primer: WIN WLR     |                      | Bullet Diameter .224" |                         |                         |                  |
| 2460                      | 40          | NOS         | B-TIP               | 33.7                 | 3,663                 | 37.5                    | 4,163                   | 60,500 2.405     |
| 2460                      | 45          | BRG         | HP                  | 32.4                 | 3,392                 | 36.0                    | 3,854                   | 58,800 2.305     |
| 2460                      | 50          | BAR         | VAR                 | 32.9                 | 3,371                 | 36.5                    | 3,831                   | 61,900 2.350     |
| 2460                      | 53          | HDY         | HP                  | 31.5                 | 3,194                 | 35.0                    | 3,629                   | 58,600 2.380     |
| 2460                      | 55          | SIE         | BK                  | 32.4                 | 3,230                 | 36.0                    | 3,670                   | 62,300 2.370     |
| 2520                      | 40          | BAR         | VAR                 | 34.6                 | 3,673                 | 38.5                    | 4,174                   | 61,800 2.405     |
| 2520                      | 45          | BRG         | HP                  | 33.8                 | 3,412                 | 37.5                    | 3,877                   | 58,800 2.305     |
| 2520                      | 50          | SIE         | BK                  | 33.3                 | 3,361                 | 37.0                    | 3,819                   | 63,100 2.350     |
| 2520                      | 53          | HDY         | HP                  | 32.0                 | 3,167                 | 35.5                    | 3,599                   | 56,400 2.380     |
| 2520                      | 55          | NOS         | B-TIP               | 32.4                 | 3,172                 | 36.0                    | 3,605                   | 59,700 2.370     |
| 4064                      | 40          | SIE         | BK                  | 35.5                 | 3,526                 | 39.5                    | 4,007                   | 54,800 2.260     |
| 4064                      | 45          | BRG         | HP                  | 35.1                 | 3,426                 | 39.0                    | 3,894                   | 56,100 2.300     |
| 4064                      | 50          | HDY         | V-MAX               | 34.2                 | 3,340                 | 38.0                    | 3,796                   | 59,300 2.350     |
| 4064                      | 53          | SIE         | HP                  | 33.7                 | 3,314                 | 37.5                    | 3,767                   | 64,400 2.380     |
| 4064                      | 55          | HDY         | V-MAX               | 33.3                 | 3,236                 | 37.0                    | 3,678                   | 59,500 2.370     |
| 4064                      | 60          | NOS         | PART                | 32.4                 | 3,086                 | 36.0                    | 3,507                   | 58,700 2.400     |
| 4064                      | 63          | SIE         | SP                  | 31.0                 | 2,983                 | 34.5                    | 3,390                   | 59,000 2.325     |
| 4064                      | 70          | BRG         | HP                  | 29.0                 | 2,833                 | 32.2                    | 3,220                   | 64,500 2.325     |
| 4064                      | 80          | SIE         | HPBT                | 29.2                 | 2,662                 | 32.5                    | 3,026                   | 62,000 2.610 (1) |
| 2700                      | 50          | BAR         | VAR                 | 39.0                 | 3,461                 | 41.0                    | 3,682                   | 56,000 2.350     |
| 2700                      | 53          | HDY         | HP                  | 39.0                 | 3,404                 | 41.0                    | 3,621                   | 59,300           |

**RIFLE**
**RIFLE**

|                  | Bullet Weight (Grains) | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains) | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch) |
|------------------|------------------------|-------------|-------------|---------------------|----------------------|-------------------|-------------------------|-------------------------|------------|
| <b>220 Swift</b> |                        |             |             |                     |                      |                   |                         |                         |            |
| Barrel: 24"      | Twist: 1-14"           |             |             | Primer: FED 210     |                      |                   | Bullet Diameter .224"   |                         |            |
| 4064             | 40                     | NOS         | B-TIP       | 35.1                | 3,573                | 39.0              | 4,061                   | 58,056                  | 2.680      |
| 4064             | 50                     | BAR         | VAR         | 35.1                | 3,381                | 39.0              | 3,843                   | 60,180                  | 2.680      |
| 4064             | 55                     | SIE         | BK          | 33.3                | 3,138                | 37.0              | 3,566                   | 61,596                  | 2.680      |
| 2700             | 40                     | SIE         | BK          | 42.3                | 3,884                | 47.0              | 4,414                   | 61,000                  | 2.680      |
| 2700             | 50                     | HDY         | V-MAX       | 42.8                | 3,793                | 45.0              | 4,035                   | 62,500                  | 2.680      |
| 2700             | 55                     | NOS         | B-TIP       | 41.3                | 3,602                | 43.5              | 3,832                   | 57,000                  | 2.680      |
| 2700             | 60                     | HDY         | V-MAX       | 39.9                | 3,391                | 42.0              | 3,607                   | 59,700                  | 2.680      |
| 2700             | 63                     | SIE         | SP          | 39.0                | 3,494                | 41.0              | 3,717                   | 63,400                  | 2.660      |
| 2700             | 70                     | BRG         | HP          | 37.1                | 3,229                | 39.0              | 3,435                   | 64,000                  | 2.660      |

|  | Bullet Weight (Grains) | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains) | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch) |
|--|------------------------|-------------|-------------|---------------------|----------------------|-------------------|-------------------------|-------------------------|------------|
| <b>223 Winchester Super Short Magnum</b> |                        |             |             |                     |                      |                   |                         |                         |            |
| Barrel: 24"                              | Twist: 1-12"           |             |             | Primer: WIN WLR     |                      |                   | Bullet Diameter .224"   |                         |            |
| 4064                                     | 55                     | NOS         | B-TIP       | 37.8                | 3,351                | 42.0              | 3,723                   | 63,700                  | 2.197      |
| 4064                                     | 69                     | SIE         | HPBT        | 35.8                | 3,069                | 39.8              | 3,410                   | 63,800                  | 2.230      |
| 2700                                     | 55                     | SIE         | BK          | 43.2                | 3,465                | 48.0              | 3,850                   | 59,600                  | 2.197      |
| 2700                                     | 69                     | NOS         | HPBT        | 40.1                | 3,164                | 44.5              | 3,516                   | 62,800                  | 2.230      |
| 4350                                     | 55                     | SIE         | BK          | 42.3                | 3,458                | 47.0              | 3,842                   | 59,300                  | 2.197      |
| 4350                                     | 69                     | NOS         | HPBT        | 40.1                | 3,230                | 44.5              | 3,589                   | 64,132                  | 2.230      |

|                | Bullet Weight (Grains) | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains) | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch) |
|----------------|------------------------|-------------|-------------|---------------------|----------------------|-------------------|-------------------------|-------------------------|------------|
| <b>6mm PPC</b> |                        |             |             |                     |                      |                   |                         |                         |            |
| Barrel: 24"    | Twist: 1-14"           |             |             | Primer: REM 7 1/2   |                      |                   | Bullet Diameter .243"   |                         |            |
| 2015           | 60                     | BRG         | HP          | 24.5                | 2,783                | 27.2              | 3,163                   | 49,200                  | 2.050      |
| 2015           | 70                     | SIE         | HPBT        | 24.3                | 2,602                | 27.0              | 2,957                   | 46,000                  | 2.080      |
| 2230           | 60                     | BRG         | HP          | 26.6                | 2,794                | 29.5              | 3,175                   | 49,500                  | 2.050      |
| 2230           | 70                     | BRG         | HP          | 25.7                | 2,573                | 28.5              | 2,924                   | 49,000                  | 2.080      |
| 2460           | 60                     | SIE         | HP          | 27.0                | 2,816                | 30.0              | 3,200                   | 48,800                  | 2.050      |
| 2460           | 70                     | BRG         | HP          | 26.6                | 2,623                | 29.5              | 2,981                   | 46,600                  | 2.080      |
| 2495           | 60                     | SIE         | HP          | 25.7                | 2,794                | 28.5              | 3,175                   | 50,000                  | 2.050      |

|                         | Bullet Weight (Grains) | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains) | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch) |
|-------------------------|------------------------|-------------|-------------|---------------------|----------------------|-------------------|-------------------------|-------------------------|------------|
| <b>6mm BR Remington</b> |                        |             |             |                     |                      |                   |                         |                         |            |
| Barrel: 24"             | Twist: 1-14"           |             |             | Primer: FED 205     |                      |                   | Bullet Diameter .243"   |                         |            |
| 2015                    | 58                     | HDY         | V-MAX       | 27.5                | 3,055                | 30.5              | 3,472                   | 52,700                  | 2.125      |
| 2015                    | 70                     | NOS         | B-TIP       | 27.5                | 2,887                | 30.5              | 3,281                   | 52,900                  | 2.170      |
| 2015                    | 80                     | SIE         | BLITZ       | 26.1                | 2,679                | 29.0              | 3,044                   | 50,200                  | 2.120      |
| 2230                    | 60                     | SIE         | HP          | 30.2                | 3,008                | 33.5              | 3,418                   | 49,400                  | 2.125      |
| 2230                    | 70                     | BRG         | HP          | 29.3                | 2,865                | 32.5              | 3,256                   | 52,500                  | 2.170      |
| 2460                    | 60                     | BRG         | HP          | 31.1                | 3,082                | 34.5              | 3,502                   | 51,600                  | 2.125      |
| 2460                    | 70                     | SIE         | HPBT        | 29.7                | 2,882                | 33.0              | 3,275                   | 51,600                  | 2.170      |
| 2495                    | 60                     | SIE         | HP          | 29.7                | 2,983                | 33.0              | 3,390                   | 46,700                  | 2.125      |
| 2495                    | 70                     | NOS         | B-TIP       | 28.4                | 2,871                | 31.5              | 3,262                   | 50,500                  | 2.170      |
| 2520                    | 60                     | SIE         | HP          | 31.5                | 3,047                | 35.0              | 3,462                   | 50,500                  | 2.125      |
| 2520                    | 70                     | NOS         | B-TIP       | 30.6                | 2,889                | 34.0              | 3,283                   | 51,900                  | 2.170      |
| 2520                    | 80                     | BRG         | HP          | 29.7                | 2,746                | 33.0              | 3,121                   | 51,200                  | 2.120      |

|                       | Bullet Weight (Grains) | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains) | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch) |
|-----------------------|------------------------|-------------|-------------|---------------------|----------------------|-------------------|-------------------------|-------------------------|------------|
| <b>243 Winchester</b> |                        |             |             |                     |                      |                   |                         |                         |            |
| Barrel: 24"           | Twist: 1-10"           |             |             | Primer: REM 9 1/2   |                      |                   | Bullet Diameter .243"   |                         |            |
| 2700                  | 55                     | NOS         | B-TIP       | 43.6                | 3,364                | 48.5              | 3,823                   | 59,118                  | 2.605      |
| 2700                  | 58                     | HDY         | V-MAX       | 41.9                | 3,225                | 46.5              | 3,665                   | 59,944                  | 2.580      |
| 2700                  | 70                     | SIE         | BK          | 40.5                | 3,078                | 45.0              | 3,498                   | 59,118                  | 2.650      |
| 2700                  | 80                     | NOS         | B-TIP       | 39.9                | 3,039                | 42.0              | 3,233                   | 59,472                  | 2.700      |
| 2700                  | 85                     | SIE         | SPT         | 39.0                | 2,952                | 41.0              | 3,140                   | 58,056                  | 2.660      |
| 2700                  | 95                     | HDY         | SST         | 37.1                | 2,740                | 39.0              | 2,915                   | 58,646                  | 2.700      |
| 2700                  | 100                    | SIE         | SBT         | 34.2                | 2,588                | 36.0              | 2,753                   | 56,994                  | 2.700      |
| 3100                  | 85                     | SIE         | HPBT        | 41.4                | 2,756                | 46.0              | 3,132                   | 55,224                  | 2.660      |
| 3100                  | 95                     | NOS         | B-TIP       | 39.6                | 2,649                | 44.0              | 3,010                   | 58,174                  | 2.700      |
| 3100                  | 100                    | SIE         | SBT         | 38.7                | 2,610                | 43.0              | 2,966                   | 59,987                  | 2.700      |
| 4350                  | 70                     | NOS         | B-TIP       | 43.2                | 3,107                | 48.0              | 3,531                   | 56,168                  | 2.650      |
| 4350                  | 80                     | SIE         | SPT         | 39.6                | 2,918                | 44.0              | 3,316                   | 56,522                  | 2.700      |
| 4350                  | 87                     | HDY         | V-MAX       | 39.6                | 2,899                | 44.0              | 3,294                   | 58,764                  | 2.660      |
| 4350                  | 95                     | NOS         | B-TIP       | 36.0                | 2,680                | 40.0              | 3,046                   | 59,826                  | 2.700      |
| 4350                  | 100                    | SIE         | SPT         | 35.1                | 2,623                | 39.0              | 2,981                   | 59,969                  | 2.700      |

|                      | Bullet Weight (Grains) | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains) | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch) |
|----------------------|------------------------|-------------|-------------|---------------------|----------------------|-------------------|-------------------------|-------------------------|------------|
| <b>6mm Remington</b> |                        |             |             |                     |                      |                   |                         |                         |            |
| Barrel: 24"          | Twist: 1-10"           |             |             | Primer: FED 210M    |                      |                   | Bullet Diameter .243"   |                         |            |
| 4064                 | 55                     | NOS         | B-TIP       | 40.5                | 3,547                | 45.0              | 4,031                   | 60,180                  | 2.765      |
| 4064                 | 60                     | SIE         | HP          | 40.9                | 3,432                | 45.5              | 3,901                   | 63,600                  | 2.750      |
| 4064                 | 65                     | HDY         | V-MAX       | 40.9                | 3,290                | 45.5              | 3,739                   | 61,500                  | 2.775      |
| 4064                 | 70                     | NOS         | B-TIP       | 40.0                | 3,235                | 44.5              | 3,677                   | 63,200                  | 2.775      |
| 2700                 | 55                     | NOS         | B-TIP       | 45.1                | 3,445                | 50.5              | 3,915                   | 59,944                  | 2.765      |
| 2700                 | 58                     | BAR         | VAR         | 45.5                | 3,295                | 50.5              | 3,744                   | 60,300                  | 2.750      |
| 2700                 | 70                     | SIE         | BK          | 44.1                | 3,145                | 49.0              | 3,574                   | 62,500                  | 2.775      |
| 2700                 | 80                     | SIE         | SPT         | 43.2                | 3,006                | 48.0              | 3,416                   | 62,900                  | 2.825      |
| 2700                 | 87                     | HDY         | V-MAX       | 41.9                | 2,852                | 46.5              | 3,241                   | 59,800                  | 2.810      |
| 2700                 | 100                    | NOS         | PART        | 41.0                | 2,692                | 45.5              | 3,059                   | 61,400                  | 2.825      |
| 2700                 | 105                    | HDY         | A-MAX       | 40.1                | 2,605                | 44.5              | 2,960                   | 60,900                  | 2.825      |
| 4350                 | 80                     | NOS         | B-TIP       | 44.6                | 2,997                | 49.5              | 3,406                   | 61,800                  | 2.825      |
| 4350                 | 87                     | HDY         | SP          | 43.7                | 2,879                | 48.5              | 3,272                   | 62,000                  | 2.810      |
| 4350                 | 100                    | SIE         | SBT         | 41.0                | 2,676                | 45.6              | 3,041                   | 61,000                  | 2.825      |
| 4350                 | 105                    | HDY         | A-MAX       | 39.6                | 2,563                | 44.0              | 2,912                   | 59,200                  | 2.825      |
| 4350                 | 115                    | BAR         | RN          | 39.6                | 2,498                | 44.0              | 2,839                   | 62,500                  | 2.825      |

|  | Bullet Weight (Grains) | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains) | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch) |
|--|------------------------|-------------|-------------|---------------------|----------------------|-------------------|-------------------------|-------------------------|------------|
| <b>243 Winchester Super Short Magnum</b> |                        |             |             |                     |                      |                   |                         |                         |            |
| Barrel: 24"                              | Twist: 1-10"           |             |             | Primer: WIN WLR     |                      |                   | Bullet Diameter .243"   |                         |            |
| 4064                                     | 58                     | HDY         | V-MAX       | 42.3                | 3,500                | 47.0              | 3,888                   | 59,300                  | 2.260      |
| 4064                                     | 75                     | HDY         | V-MAX       | 38.7                | 3,112                | 43.0              | 3,458                   | 62,700                  | 2.310      |
| 4064                                     | 100                    | SIE         | SPBT        | 35.0                | 2,660                | 39.0              | 2,961                   | 63,600                  | 2.310      |
| 2700                                     | 75                     | HDY         | V-MAX       | 44.0                | 3,240                | 49.0              | 3,606                   | 61,500                  | 2.310      |
| 2700                                     | 100                    | SIE         | SPBT        | 39.6                | 2,780                | 44.0              | 3,088                   | 64,000                  | 2.310      |
| 4350                                     | 75                     | HDY         | V-MAX       | 41.5                | 3,050                | 46.0              | 3,358                   | 62,500                  | 2.310      |
| 4350                                     | 100                    | SIE         | SPBT        | 40.0                | 2,805                | 44.0              | 3,050                   | 61,000                  | 2.310      |

|                    | Bullet Weight (Grains) | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains) | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch) |
|--------------------|------------------------|-------------|-------------|---------------------|----------------------|-------------------|-------------------------|-------------------------|------------|
| <b>257 Roberts</b> |                        |             |             |                     |                      |                   |                         |                         |            |
| Barrel: 24"        | Twist: 1-10"           |             |             | Primer: FED 210     |                      |                   | Bullet Diameter .257"   |                         |            |
| 2700               | 75                     | SIE         | HP          | 43.7                | 3,048                | 46.0              | 3,243                   | 44,800                  | 2.745      |
| 2700               | 85                     | BAR         | X           | 40.9                | 2,868                | 43.0              | 3,051                   | 44,100                  | 2.770      |
| 2700               | 90                     | SIE         | HPBT        | 39.9                | 2,810                | 42.0              | 2,989                   | 42,700                  | 2.735      |
| 4350               | 75                     | HDY         | V-MAX       | 42.3                | 2,866                | 47.0              | 3,257                   | 43,600                  | 2.745      |
| 4350               | 85                     | BAR         | X           | 41.4                | 2,728                | 46.0              | 3,100                   | 44,500                  | 2.770      |
| 4350               | 90                     | SIE         | HPBT        | 40.5                | 2,641                | 45.0              | 3,001                   | 42,100                  | 2.735      |
| 4350               | 100                    | BAR         | X           | 36.9                | 2,410                | 41.0              | 2,739                   | 42,700                  | 2.760      |
| 4350               | 100                    | NOS         | B-TIP       | 40.1                | 2,550                | 44.5              | 2,898                   | 44,100                  | 2.775      |
| 4350               | 117                    | SIE         | SBT         | 38.7                | 2,376                | 43.0              | 2,700                   | 44,100                  | 2.775      |
| 3100               | 90                     | SIE         | HPBT        | 45.0                | 2,689                | 50.0              | 3,056                   | 44,000                  | 2.735      |
| 3100               | 100                    | BAR         | X           | 41.4                | 2,381                | 46.0              | 2,706                   | 37,800                  | 2.760      |
| 3100               | 100                    | NOS         | B-TIP       | 44.1                | 2,520                | 49.0              | 2,864                   | 39,900                  | 2.775      |
| 3100               | 117                    | HDY         | SST         | 43.2                | 2,408                | 48.0              | 2,736                   | 43,700                  | 2.775      |

|   | Bullet Weight (Grains) | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains) | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch) |
|---|------------------------|-------------|-------------|---------------------|----------------------|-------------------|-------------------------|-------------------------|------------|
| <b>25 Winchester Super Short Magnum</b> |                        |             |             |                     |                      |                   |                         |                         |            |
| Barrel: 24"                             | Twist: 1-10"           |             |             | Primer: WIN WLR     |                      |                   | Bullet Diameter .257"   |                         |            |
| 4064                                    | 87                     | HDY         | SP          | 40.0                | 3,033                | 44.5              | 3,370                   | 62,900                  | 2.213      |
| 4064                                    | 100                    | NOS         | B-TIP       | 38.7                | 2,876                | 43.0              | 3,196                   | 62,800                  | 2.300      |
| 4064                                    | 100                    | BAR         | TSX         | 37.8                | 2,837                | 42.0              | 3,153                   | 61,000                  | 2.242      |
| 4064                                    | 115                    | BAR         | TSX         | 35.6                | 2,605                | 39.5              | 2,895                   | 62,000                  | 2.281      |
| 4064                                    | 117                    | HDY         | SPBT        | 36.0                | 2,585                | 40.0              | 2,872                   | 64,500                  | 2.340      |
| 2700                                    | 87                     | HDY         | SP          | 46.4                | 3,192                | 51.5              | 3,547                   | 61,500                  | 2.213      |
| 2700                                    | 100                    | NOS         | B-TIP       | 43.7                | 2,982                | 48.5              | 3,313                   | 64,800                  | 2.300      |
| 2700                                    | 100                    | BAR         | TSX         | 43.2                | 2,970                | 48.0              | 3,300                   | 62,200                  | 2.242      |
| 2700                                    | 115                    | BAR         | TSX         | 40.0                | 2,700                | 44.5              | 3,010                   | 63,300                  | 2.281      |
| 2700                                    | 117                    | HDY         | SPBT        | 41.4                | 2,750                | 46.0              | 3,056                   | 63,900                  | 2.340      |

|                        | Bullet Weight (Grains) | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains) | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch) |
|------------------------|------------------------|-------------|-------------|---------------------|----------------------|-------------------|-------------------------|-------------------------|------------|
| <b>25-06 Remington</b> |                        |             |             |                     |                      |                   |                         |                         |            |
| Barrel: 24"            | Twist: 1-10"           |             |             | Primer: WIN WLR     |                      |                   | Bullet Diameter .257"   |                         |            |
| 4350                   | 75                     | HDY         | V-MAX       | 53.1                | 3,326                | 59.0              | 3,780                   | 61,400                  | 3.065      |
| 4350                   | 90                     | SIE         | HPBT        | 48.6                | 3,055                | 54.0              | 3,472                   | 62,900                  | 3.075      |
| 3100                   | 75                     | SIE         | HP          | 54.0                | 3,154                | 60.0              | 3,585                   | 57,900                  | 3.065      |
| 3100                   | 90                     | SIE         | HP          | 50.9                | 2,965                | 56.5              | 3,370                   | 59,700                  | 3.075      |
| 3100                   | 100                    | NOS         | B-TIP       | 49.5                | 2,889                | 55.0              | 3,283                   | 63,000                  | 3.190      |
| 3100                   | 115                    | NOS         | PART        | 47.5                | 2,691                | 52.8              | 3,059                   | 61,400                  | 3.195      |
| 3100                   | 120                    | SIE         | HPBT        | 46.8                | 2,620                | 52.0              | 2,978                   | 61,200                  | 3.120      |
| Magpro                 | 87                     | HDY         | SP          | 56.3                | 3,261                | 62.5              | 3,573                   | 60,900                  | 3.100      |
| Magpro                 | 120                    | SIE         | HPBT        | 48.6                | 2,777                | 54.0              | 3,039                   | 61,000                  | 3.200      |

<




**RIFLE**
**RIFLE**

| Bullet Weight (Grains)         | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains) | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)   |
|--------------------------------|-------------|-------------|---------------------|----------------------|-------------------|-------------------------|-------------------------|--------------|
| <b>6.5x55mm Swedish Mauser</b> |             |             |                     |                      |                   |                         |                         |              |
| Barrel: 24", Twist: 1-9"       |             |             | Primer: WIN WLR     |                      |                   | Bullet Diameter .264"   |                         |              |
| 4064                           | 85          | SIE         | HP                  | 40.9                 | 2,866             | 45.5                    | 3,257                   | 49,206 2.850 |
| 4064                           | 100         | NOS         | B-TIP               | 39.6                 | 2,692             | 44.0                    | 3,060                   | 49,206 2.975 |
| 2700                           | 100         | HDY         | SP                  | 45.6                 | 2,907             | 48.0                    | 3,093                   | 50,100 2.975 |
| 2700                           | 129         | HDY         | SST                 | 40.9                 | 2,496             | 43.0                    | 2,655                   | 50,300 3.025 |
| 2700                           | 140         | SIE         | SBT                 | 39.9                 | 2,416             | 42.0                    | 2,570                   | 50,400 3.000 |
| 4350                           | 100         | SIE         | HP                  | 43.2                 | 2,578             | 48.0                    | 2,929                   | 41,900 2.975 |
| 4350                           | 129         | HDY         | SP                  | 41.4                 | 2,423             | 46.0                    | 2,753                   | 50,300 3.025 |
| 4350                           | 140         | SIE         | HPBT                | 40.5                 | 2,314             | 45.0                    | 2,629                   | 48,100 3.000 |
| 3100                           | 129         | HDY         | SP                  | 44.1                 | 2,394             | 49.0                    | 2,721                   | 47,500 3.025 |
| 3100                           | 140         | SIE         | SBT                 | 42.3                 | 2,221             | 47.0                    | 2,524                   | 41,400 3.000 |
| 3100                           | 160         | HDY         | RN                  | 41.4                 | 2,155             | 46.0                    | 2,449                   | 43,200 2.970 |

**260 Remington**

| Bullet Weight (Grains)   | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains) | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)   |
|--------------------------|-------------|-------------|---------------------|----------------------|-------------------|-------------------------|-------------------------|--------------|
| <b>260 Remington</b>     |             |             |                     |                      |                   |                         |                         |              |
| Barrel: 24", Twist: 1-9" |             |             | Primer: WIN WLR     |                      |                   | Bullet Diameter .264"   |                         |              |
| 2700                     | 85          | SIE         | HP                  | 43.2                 | 2,939             | 48.0                    | 3,340                   | 58,700 2.670 |
| 2700                     | 100         | BAR         | X                   | 38.5                 | 2,635             | 42.8                    | 2,995                   | 56,500 2.750 |
| 2700                     | 100         | NOS         | B-TIP               | 40.5                 | 2,746             | 45.0                    | 3,121                   | 58,900 2.765 |
| 2700                     | 100         | NOS         | PART                | 41.0                 | 2,783             | 45.5                    | 3,163                   | 59,600 2.720 |
| 2700                     | 107         | SIE         | HPBT                | 41.4                 | 2,722             | 46.0                    | 3,094                   | 58,200 2.800 |
| 2700                     | 120         | NOS         | B-TIP               | 37.8                 | 2,468             | 42.0                    | 2,805                   | 58,700 2.800 |
| 2700                     | 125         | NOS         | PART                | 37.8                 | 2,439             | 42.0                    | 2,772                   | 56,700 2.800 |
| 2700                     | 129         | HDY         | SP                  | 36.9                 | 2,366             | 41.0                    | 2,689                   | 57,100 2.780 |
| 2700                     | 140         | HDY         | A-MAX               | 36.0                 | 2,271             | 40.0                    | 2,581                   | 58,000 2.750 |
| 2700                     | 142         | SIE         | HPBT                | 36.9                 | 2,323             | 41.0                    | 2,640                   | 58,800 2.800 |
| 4350                     | 100         | NOS         | B-TIP               | 43.2                 | 2,845             | 48.0                    | 3,234                   | 58,700 2.765 |
| 4350                     | 107         | SIE         | HPBT                | 43.2                 | 2,797             | 48.0                    | 3,179                   | 58,900 2.800 |
| 4350                     | 120         | NOS         | B-TIP               | 40.0                 | 2,594             | 44.5                    | 2,948                   | 60,000 2.800 |
| 4350                     | 125         | NOS         | PART                | 40.5                 | 2,584             | 45.0                    | 2,937                   | 60,000 2.780 |
| 4350                     | 129         | HDY         | SP                  | 39.6                 | 2,493             | 44.0                    | 2,833                   | 58,400 2.780 |
| 4350                     | 130         | BAR         | X                   | 36.4                 | 2,323             | 40.5                    | 2,640                   | 58,600 2.750 |
| 4350                     | 140         | NOS         | PART                | 38.2                 | 2,405             | 42.5                    | 2,733                   | 59,400 2.780 |
| 4350                     | 140         | SIE         | SBT                 | 39.1                 | 2,413             | 43.5                    | 2,743                   | 59,100 2.750 |
| 4350                     | 142         | SIE         | HPBT                | 38.7                 | 2,414             | 43.0                    | 2,744                   | 57,500 2.800 |
| 3100                     | 120         | NOS         | B-TIP               | 43.2                 | 2,564             | 48.0                    | 2,914                   | 57,900 2.800 |
| 3100                     | 125         | NOS         | PART                | 43.2                 | 2,563             | 48.0                    | 2,913                   | 58,700 2.780 |
| 3100                     | 129         | HDY         | SST                 | 42.3                 | 2,547             | 47.0                    | 2,895                   | 56,600 2.780 |
| 3100                     | 130         | BAR         | X                   | 39.1                 | 2,324             | 43.5                    | 2,642                   | 57,500 2.750 |
| 3100                     | 140         | NOS         | PART                | 40.5                 | 2,390             | 45.0                    | 2,717                   | 57,800 2.780 |
| 3100                     | 142         | SIE         | HPBT                | 41.4                 | 2,354             | 46.0                    | 2,676                   | 54,600 2.800 |

**6.8 SPC**

| Bullet Weight (Grains)    | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains) | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)   |
|---------------------------|-------------|-------------|---------------------|----------------------|-------------------|-------------------------|-------------------------|--------------|
| <b>6.8 SPC</b>            |             |             |                     |                      |                   |                         |                         |              |
| Barrel: 24", Twist: 1-10" |             |             | Primer: WIN WLR     |                      |                   | Bullet Dia. .277"       |                         |              |
| 2015                      | 90          | SIE         | HP                  | 26.6                 | 2,500             | 29.5                    | 2,774                   | 55,500 2.240 |
| 2015                      | 110         | HDY         | V-MAX               | 24.8                 | 2,433             | 27.5                    | 2,534                   | 57,800 2.260 |
| 2015                      | 130         | NOS         | B-TIP               | 22.5                 | 2,050             | 25.0                    | 2,276                   | 58,000 2.260 |
| 2230                      | 90          | SIE         | HP                  | 27.9                 | 2,565             | 31.0                    | 2,850                   | 55,500 2.240 |
| 2230                      | 110         | HDY         | V-MAX               | 26.6                 | 2,356             | 29.5                    | 2,620                   | 57,200 2.260 |
| 2230                      | 130         | SIE         | SPT                 | 24.3                 | 2,140             | 27.0                    | 2,375                   | 57,800 2.260 |

**270 Winchester**

| Bullet Weight (Grains)    | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains) | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)   |
|---------------------------|-------------|-------------|---------------------|----------------------|-------------------|-------------------------|-------------------------|--------------|
| <b>270 Winchester</b>     |             |             |                     |                      |                   |                         |                         |              |
| Barrel: 24", Twist: 1-10" |             |             | Primer: WIN WLR     |                      |                   | Bullet Diameter .277"   |                         |              |
| 2700                      | 130         | NOS         | B-TIP               | 46.8                 | 2,638             | 52.5                    | 3,005                   | 63,400 3.300 |
| 2700                      | 140         | HDY         | SBT                 | 46.3                 | 2,625             | 51.8                    | 2,980                   | 62,500 3.300 |
| 2700                      | 150         | SIE         | SPBT                | 46.0                 | 2,574             | 51.0                    | 2,840                   | 63,500 3.300 |
| 2700                      | 160         | NOS         | PART                | 45.0                 | 2,450             | 50.0                    | 2,750                   | 63,500 3.228 |
| 4350                      | 130         | NOS         | B-TIP               | 49.5                 | 2,660             | 53.5                    | 3,000                   | 63,500 3.300 |
| 4350                      | 140         | HDY         | SBT                 | 46.8                 | 2,629             | 52.0                    | 2,988                   | 63,400 3.300 |
| 4350                      | 150         | SIE         | SBT                 | 46.3                 | 2,565             | 51.5                    | 2,812                   | 63,800 3.300 |
| 4350                      | 160         | NOS         | PART                | 46.0                 | 2,550             | 51.0                    | 2,800                   | 64,000 3.228 |
| 3100                      | 130         | NOS         | B-TIP               | 51.3                 | 2,640             | 57.0                    | 2,940                   | 62,500 3.300 |
| 3100                      | 140         | HDY         | SST                 | 52.2                 | 2,598             | 56.5                    | 2,791                   | 62,500 3.300 |
| 3100                      | 150         | SIE         | SBT                 | 52.2                 | 2,547             | 56.0                    | 2,769                   | 63,500 3.300 |
| Magpro                    | 130         | NOS         | B-TIP               | 58.5                 | 2,919             | 65.0                    | 3,234                   | 63,200 3.300 |
| Magpro                    | 150         | SIE         | SBT                 | 55.4                 | 2,725             | 61.5                    | 3,000                   | 63,600 3.300 |

**270 Winchester Short Magnum**

| Bullet Weight (Grains)             | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains) | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)   |
|------------------------------------|-------------|-------------|---------------------|----------------------|-------------------|-------------------------|-------------------------|--------------|
| <b>270 Winchester Short Magnum</b> |             |             |                     |                      |                   |                         |                         |              |
| Barrel: 24", Twist: 1-10"          |             |             | Primer: WIN WLRM    |                      |                   | Bullet Diameter .277"   |                         |              |
| 4350                               | 100         | HDY         | SP                  | 58.0                 | 3,200             | 64.0                    | 3,500                   | 64,500 2.675 |
| 4350                               | 130         | SIE         | SPBT                | 55.6                 | 3,063             | 61.8                    | 3,256                   | 64,100 2.700 |
| 4350                               | 130         | BAR         | TSX                 | 53.0                 | 2,888             | 59.0                    | 3,192                   | 63,600 2.792 |
| 4350                               | 140         | HDY         | BTSP                | 54.4                 | 2,865             | 60.4                    | 3,137                   | 63,300 2.760 |
| 4350                               | 150         | SIE         | SPBT                | 52.0                 | 2,712             | 56.0                    | 2,980                   | 63,800 2.760 |
| 3100                               | 130         | SIE         | SPBT                | 59.4                 | 2,870             | 66.0                    | 3,212                   | 60,300 2.700 |
| 3100                               | 130         | BAR         | TSX                 | 58.5                 | 2,780             | 65.0                    | 3,100                   | 55,000 2.792 |
| 3100                               | 140         | HDY         | BTSP                | 59.0                 | 2,811             | 65.5                    | 3,135                   | 62,400 2.760 |
| 3100                               | 150         | SIE         | SPBT                | 56.7                 | 2,758             | 63.0                    | 3,036                   | 63,200 2.760 |
| Magpro                             | 130         | SIE         | SPBT                | 68.0                 | 3,062             | 75.5                    | 3,359                   | 61,600 2.700 |
| Magpro                             | 130         | BAR         | TSX                 | 65.3                 | 2,925             | 73.5                    | 3,250                   | 63,000 2.792 |
| Magpro                             | 140         | HDY         | BTSP                | 66.8                 | 2,985             | 74.2                    | 3,275                   | 64,500 2.760 |
| Magpro                             | 150         | SIE         | SPBT                | 63.0                 | 2,864             | 70.0                    | 3,136                   | 64,700 2.760 |

**7mm-08 Remington**

| Bullet Weight (Grains)   | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains) | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)   |
|--------------------------|-------------|-------------|---------------------|----------------------|-------------------|-------------------------|-------------------------|--------------|
| <b>7mm-08 Remington</b>  |             |             |                     |                      |                   |                         |                         |              |
| Barrel: 24", Twist: 1-9" |             |             | Primer: WIN WLR     |                      |                   | Bullet Diameter .284"   |                         |              |
| 4064                     | 100         | SIE         | HP                  | 41.4                 | 2,786             | 46.0                    | 3,166                   | 54,870 2.665 |
| 4064                     | 120         | NOS         | B-TIP               | 38.7                 | 2,603             | 43.0                    | 2,958                   | 56,758 2.765 |
| 4064                     | 130         | SIE         | HPBT                | 38.2                 | 2,502             | 42.5                    | 2,844                   | 60,416 2.770 |
| 4064                     | 139         | HDY         | SST                 | 37.8                 | 2,442             | 42.0                    | 2,775                   | 58,646 2.800 |
| 4064                     | 150         | SIE         | SBT                 | 36.9                 | 2,346             | 41.0                    | 2,667                   | 58,764 2.800 |
| 4064                     | 160         | NOS         | PART                | 36.0                 | 2,246             | 40.0                    | 2,553                   | 60,973 2.800 |
| 2700                     | 100         | SIE         | HP                  | 45.6                 | 2,859             | 48.0                    | 3,041                   | 59,826 2.665 |
| 2700                     | 120         | HDY         | V-MAX               | 44.2                 | 2,699             | 46.5                    | 2,871                   | 58,056 2.765 |
| 2700                     | 130         | SIE         | HPBT                | 42.8                 | 2,612             | 45.0                    | 2,779                   | 59,590 2.770 |
| 2700                     | 140         | NOS         | B-TIP               | 42.3                 | 2,538             | 44.5                    | 2,700                   | 58,410 2.800 |
| 2700                     | 150         | SIE         | HPBT                | 41.3                 | 2,477             | 43.5                    | 2,635                   | 60,997 2.800 |
| 2700                     | 160         | NOS         | PART                | 39.9                 | 2,311             | 42.0                    | 2,458                   | 53,808 2.800 |
| 2700                     | 168         | SIE         | HPBT                | 39.9                 | 2,157             | 42.0                    | 2,451                   | 55,814 2.800 |
| 4350                     | 139         | HDY         | SST                 | 42.8                 | 2,467             | 47.5                    | 2,803                   | 58,764 2.800 |
| 4350                     | 150         | SIE         | SBT                 | 41.9                 | 2,403             | 46.5                    | 2,731                   | 60,298 2.800 |
| 4350                     | 160         | NOS         | PART                | 41.4                 | 2,314             | 46.0                    | 2,630                   | 58,292 2.800 |
| 4350                     | 168         | SIE         | HPBT                | 41.4                 | 2,284             | 46.0                    | 2,596                   | 59,472 2.800 |

**7x57mm Mauser**

| Bullet Weight (Grains)   | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains) | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)   |
|--------------------------|-------------|-------------|---------------------|----------------------|-------------------|-------------------------|-------------------------|--------------|
| <b>7x57mm Mauser</b>     |             |             |                     |                      |                   |                         |                         |              |
| Barrel: 24", Twist: 1-9" |             |             | Primer: FED 210     |                      |                   | Bullet Diameter .284"   |                         |              |
| 4064                     | 120         | NOS         | B-TIP               | 39.1                 | 2,498             | 43.5                    | 2,838                   | 51,037 2.900 |
| 4064                     | 140         | SIE         | SBT                 | 37.8                 | 2,361             | 42.0                    | 2,683                   | 53,336 3.025 |
| 4064                     | 150         | NOS         | B-TIP               | 36.0                 | 2,216             | 40.0                    | 2,519                   | 49,796 3.060 |
| 4064                     | 160         | SIE         | SBT                 | 35.1                 | 2,117             | 39.0                    | 2,406                   | 51,448 3.020 |
| 2700                     | 120         | SIE         | SPT                 | 47.5                 | 2,749             | 50.0                    | 2,924                   | 52,864 2.900 |
| 2700                     | 139         | HDY         | SST                 | 45.1                 | 2,577             | 47.5                    | 2,742                   | 50,504 3.025 |
| 2700                     | 150         | NOS         | B-TIP               | 43.7                 | 2,468             | 46.0                    | 2,626                   | 50,976 3.060 |
| 2700                     | 160         | SIE         | SBT                 | 40.9                 | 2,255             | 43.0                    | 2,399                   | 46,846 3.020 |
| 2700                     | 175         | HDY         | SP                  | 40.9                 | 2,257             | 43.0                    | 2,401                   | 52,510 3.040 |

**280 Remington**

| Bullet Weight (Grains)   | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains) | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)   |
|--------------------------|-------------|-------------|---------------------|----------------------|-------------------|-------------------------|-------------------------|--------------|
| <b>280 Remington</b>     |             |             |                     |                      |                   |                         |                         |              |
| Barrel: 24", Twist: 1-9" |             |             | Primer: FED 210     |                      |                   | Bullet Diameter .284"   |                         |              |
| 2700                     | 100         | SIE         | HP                  | 53.2                 | 3,057             | 56.0                    | 3,252                   | 53,100 3.150 |
| 2700                     | 120         | NOS         | B-TIP               | 49.9                 | 2,821             | 52.5                    | 3,001                   | 57,000 3.200 |
| 4350                     | 100         | SIE         | HP                  | 53.1                 | 2,918             | 59.0                    | 3,316                   | 55,800 3.150 |
| 4350                     | 120         | SIE         | SPT                 | 51.3                 | 2,739             | 57.0                    | 3,112                   | 57,700 3.200 |
| 4350                     | 140         | BAR         | XLC                 | 45.9                 | 2,443             | 51.0                    | 2,776                   | 55,900 3.310 |
| 4350                     | 154         | HDY         | SP                  | 48.6                 | 2,486             | 54.0                    | 2,825                   | 59,600 3.330 |
| 4350                     | 160         | NOS         | PART                | 46.8                 | 2,413             | 52.0                    | 2,742                   | 58,200 3.300 |
| 3100                     | 154         | HDY         | SST                 | 52.2                 | 2,457             | 58.0                    | 2,792                   | 54,500 3.330 |
| 3100                     | 160         | NOS         | PART                | 51.8                 | 2,442             | 57.5                    | 2,775                   | 56,100 3.300 |
| 3100                     | 168         | SIE         | HPBT                | 51.3                 | 2,396             | 57.0                    | 2,723                   | 56,300 3.300 |
| 3100                     | 175         | HDY         | SP                  | 51.3                 | 2,359             | 57.0                    | 2,681                   | 58,900 3.300 |

**7mm Remington Short Action Ultra Magnum**

| Bullet Weight (Grains)                         | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains) | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)   |
|--|-------------|-------------|---------------------|----------------------|-------------------|-------------------------|-------------------------|--------------|
| <b>7mm Remington Short Action Ultra Magnum</b> |             |             |                     |                      |                   |                         |                         |              |
| Barrel: 24", Twist: 1-9.5"                     |             |             | Primer: FED 215     |                      |                   | Bullet Diameter .284"   |                         |              |
| 2700   | 140         | SIE         | SPBT                | 53.0                 | 2,750             | 59.0                    | 3,000                   | 64,100 2.800 |
| 2700   | 154         | HDY         | SP                  | 51.5                 | 2,620             | 57.5                    | 2,890                   | 62,000 2.825 |
| 2700   | 160         | SIE         | HPBT                | 50.0                 | 2,520             | 55.5                    | 2,780                   | 62,900 2.800 |
|  |             |             |                     |                      |                   |                         |                         |              |



**RIFLE**
**RIFLE**

| Bullet Weight (Grains)             | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains)     | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)   |
|------------------------------------|-------------|-------------|---------------------|----------------------|-----------------------|-------------------------|-------------------------|--------------|
| <b>7mm Winchester Short Magnum</b> |             |             |                     |                      |                       |                         |                         |              |
| Barrel: 24", Twist: 1-9"           |             |             | Primer: WIN WLRM    |                      | Bullet Diameter .284" |                         |                         |              |
| 5744                               | 160         | SIE         | HPBT                | 26.5                 | 1,519                 | 29.4                    | 2,120                   | 33,600 2.760 |
| 4350                               | 120         | HDY         | HP                  | 60.3                 | 3,153                 | 67.0                    | 3,423                   | 63,400 2.760 |
| 4350                               | 140         | SIE         | SPBT                | 58.7                 | 3,013                 | 65.2                    | 3,232                   | 63,500 2.760 |
| 4350                               | 154         | HDY         | SP                  | 54.9                 | 2,836                 | 61.0                    | 3,026                   | 62,900 2.760 |
| 4350                               | 160         | SIE         | HPBT                | 54.7                 | 2,737                 | 60.8                    | 2,969                   | 62,200 2.760 |
| 4350                               | 175         | SIE         | SPBT                | 50.4                 | 2,555                 | 56.0                    | 2,785                   | 62,700 2.760 |
| 3100                               | 120         | HDY         | HP                  | 61.9                 | 3,036                 | 68.8                    | 3,367                   | 63,100 2.760 |
| 3100                               | 140         | SIE         | SPBT                | 60.8                 | 2,881                 | 67.5                    | 3,194                   | 63,000 2.760 |
| 3100                               | 154         | HDY         | SP                  | 59.4                 | 2,803                 | 66.0                    | 3,060                   | 63,300 2.760 |
| 3100                               | 160         | SIE         | HPBT                | 57.6                 | 2,749                 | 64.0                    | 3,000                   | 63,500 2.760 |
| 3100                               | 175         | SIE         | SPBT                | 56.9                 | 2,720                 | 63.2                    | 2,987                   | 63,400 2.760 |
| Magpro                             | 120         | HDY         | HP                  | 69.7                 | 3,138                 | 77.5                    | 3,419                   | 56,800 2.760 |
| Magpro                             | 140         | SIE         | SPBT                | 68.1                 | 3,001                 | 75.7                    | 3,272                   | 59,900 2.760 |
| Magpro                             | 154         | HDY         | SP                  | 66.1                 | 2,808                 | 73.4                    | 3,107                   | 59,500 2.760 |
| Magpro                             | 160         | SIE         | HPBT                | 64.8                 | 2,820                 | 72.0                    | 3,063                   | 60,200 2.760 |
| Magpro                             | 175         | SIE         | SPBT                | 64.0                 | 2,729                 | 71.1                    | 2,966                   | 61,700 2.760 |

| Bullet Weight (Grains)      | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains)     | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)   |
|-----------------------------|-------------|-------------|---------------------|----------------------|-----------------------|-------------------------|-------------------------|--------------|
| <b>7mm Remington Magnum</b> |             |             |                     |                      |                       |                         |                         |              |
| Barrel: 24", Twist: 1-9"    |             |             | Primer: REM 9 ½M    |                      | Bullet Diameter .284" |                         |                         |              |
| 4350                        | 100         | HDY         | HP                  | 60.3                 | 2,944                 | 67.0                    | 3,345                   | 60,300 3.280 |
| 4350                        | 120         | NOS         | B-TIP               | 56.7                 | 2,829                 | 63.0                    | 3,215                   | 57,800 3.260 |
| 4350                        | 130         | SIE         | HPBT                | 55.8                 | 2,735                 | 62.0                    | 3,108                   | 58,400 3.245 |
| 4350                        | 139         | HDY         | SST                 | 54.9                 | 2,665                 | 61.0                    | 3,028                   | 54,900 3.270 |
| 3100                        | 100         | HDY         | HP                  | 65.3                 | 2,964                 | 72.5                    | 3,368                   | 58,800 3.280 |
| 3100                        | 120         | NOS         | B-TIP               | 64.2                 | 2,926                 | 71.3                    | 3,325                   | 59,900 3.260 |
| 3100                        | 130         | SIE         | HPBT                | 61.0                 | 2,776                 | 67.8                    | 3,155                   | 59,000 3.245 |
| 3100                        | 139         | HDY         | SST                 | 61.2                 | 2,721                 | 68.0                    | 3,092                   | 58,200 3.270 |
| 3100                        | 150         | NOS         | B-TIP               | 59.4                 | 2,643                 | 66.0                    | 3,003                   | 60,200 3.280 |
| 3100                        | 160         | SIE         | SBT                 | 57.2                 | 2,512                 | 63.5                    | 2,855                   | 59,000 3.280 |
| 3100                        | 168         | SIE         | HPBT                | 55.8                 | 2,442                 | 62.0                    | 2,775                   | 57,900 3.280 |
| 3100                        | 175         | HDY         | SP                  | 54.5                 | 2,376                 | 60.5                    | 2,700                   | 59,700 3.275 |
| 3100                        | 195         | BAR         | SP                  | 52.7                 | 2,233                 | 58.5                    | 2,538                   | 59,800 3.275 |
| Magpro                      | 140         | NOS         | B-TIP               | 66.3                 | 2,952                 | 73.7                    | 3,220                   | 60,300 3.270 |
| Magpro                      | 160         | SIE         | SBT                 | 61.7                 | 2,737                 | 68.6                    | 3,000                   | 60,400 3.280 |
| Magpro                      | 175         | HDY         | SP                  | 59.5                 | 2,640                 | 66.0                    | 2,854                   | 61,300 3.275 |

| Bullet Weight (Grains)                    | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains)     | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)   |
|---|-------------|-------------|---------------------|----------------------|-----------------------|-------------------------|-------------------------|--------------|
| <b>7mm STW (Shooting Times Westerner)</b> |             |             |                     |                      |                       |                         |                         |              |
| Barrel: 24", Twist: 1-9"                  |             |             | Primer: FED 215     |                      | Bullet Diameter .284" |                         |                         |              |
| 3100                                      | 140         | BAR         | X                   | 65.7                 | 2,776                 | 73.0                    | 3,155                   | 62,400 3.600 |
| 3100                                      | 150         | NOS         | B-TIP               | 65.7                 | 2,736                 | 73.0                    | 3,109                   | 64,400 3.600 |
| 3100                                      | 160         | BAR         | X                   | 64.8                 | 2,607                 | 72.0                    | 2,963                   | 62,500 3.600 |
| 3100                                      | 160         | NOS         | PART                | 65.7                 | 2,707                 | 73.0                    | 3,076                   | 64,600 3.600 |
| 3100                                      | 175         | HDY         | SP                  | 66.6                 | 2,559                 | 74.0                    | 2,908                   | 64,000 3.600 |
| 8700                                      | 140         | BAR         | X                   | 84.6                 | 2,876                 | 94.0                    | 3,268                   | 64,700 3.600 |
| 8700                                      | 150         | NOS         | B-TIP               | 84.6                 | 2,845                 | 94.0                    | 3,233                   | 64,400 3.600 |
| 8700                                      | 160         | BAR         | X                   | 83.7                 | 2,746                 | 93.0                    | 3,120                   | 61,300 3.600 |
| 8700                                      | 160         | NOS         | PART                | 83.7                 | 2,796                 | 93.0                    | 3,177                   | 62,600 3.600 |
| 8700                                      | 175         | HDY         | SP                  | 83.7                 | 2,681                 | 93.0                    | 3,047                   | 60,500 3.600 |

| Bullet Weight (Grains)    | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains)     | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)       |
|---------------------------|-------------|-------------|---------------------|----------------------|-----------------------|-------------------------|-------------------------|------------------|
| <b>30-30 Winchester</b>   |             |             |                     |                      |                       |                         |                         |                  |
| Barrel: 24", Twist: 1-12" |             |             | Primer: WIN WLR     |                      | Bullet Diameter .308" |                         |                         |                  |
| 5744                      | 170         | LC          | RNFP (L)            | 19.4                 | 1,791                 | 22.0                    | 2,035                   | 32,800 2.550     |
| 5744                      | 190         | LYM         | 311644(L)           | 20.0                 | 1,754                 | 22.0                    | 1,953                   | 35,300 2.800 (1) |
| 2460                      | 170         | LC          | RNFP (L)            | 24.8                 | 1,775                 | 27.5                    | 2,017                   | 28,300 2.550     |
| 2460                      | 190         | LYM         | 311644(L)           | 24.3                 | 1,785                 | 27.0                    | 2,028                   | 37,500 2.800 (1) |
| 2460                      | 110         | HDY         | RN                  | 33.3                 | 2,369                 | 37.0                    | 2,692                   | 37,400 2.440     |
| 2460                      | 150         | SIE         | FN                  | 29.3                 | 2,015                 | 32.5                    | 2,290                   | 40,200 2.540     |
| 2460                      | 170         | NOS         | RN                  | 27.2                 | 1,864                 | 30.2                    | 2,118                   | 39,900 2.545     |
| 2495                      | 170         | LC          | RNFP (L)            | 24.8                 | 1,771                 | 27.5                    | 2,013                   | 35,100 2.550     |
| 2495                      | 190         | LYM         | 311644(L)           | 24.7                 | 1,707                 | 27.5                    | 1,940                   | 30,600 2.800     |
| 2495                      | 110         | HDY         | RN                  | 33.3                 | 2,375                 | 37.0                    | 2,699                   | 41,000 2.440     |
| 2495                      | 150         | SIE         | FN                  | 27.5                 | 1,960                 | 30.5                    | 2,227                   | 40,600 2.540     |
| 2520                      | 170         | LC          | RNFP (L)            | 25.7                 | 1,807                 | 28.5                    | 2,053                   | 29,300 2.550     |
| 2520                      | 190         | LYM         | 311644(L)           | 25.6                 | 1,805                 | 28.5                    | 2,051                   | 36,300 2.800 (1) |
| 2520                      | 110         | HDY         | RN                  | 34.2                 | 2,366                 | 38.0                    | 2,689                   | 35,700 2.440     |
| 2520                      | 150         | SIE         | FN                  | 30.2                 | 2,046                 | 33.5                    | 2,325                   | 38,800 2.540     |
| 2520                      | 170         | SIE         | FN                  | 28.4                 | 1,874                 | 31.5                    | 2,129                   | 38,400 2.545     |
| 4064                      | 170         | LC          | RNFP (L)            | 27.0                 | 1,777                 | 30.0                    | 2,020                   | 28,600 2.550     |
| 4064                      | 110         | HDY         | RN                  | 35.1                 | 2,380                 | 39.0                    | 2,705                   | 41,400 2.440     |
| 4064                      | 125         | SIE         | FNHP                | 34.2                 | 2,225                 | 38.0                    | 2,529                   | 39,600 2.430     |
| 4064                      | 150         | SIE         | FN                  | 29.7                 | 1,975                 | 33.0                    | 2,245                   | 40,500 2.540     |
| 4064                      | 170         | NOS         | RN                  | 27.0                 | 1,757                 | 30.0                    | 1,997                   | 39,900 2.545     |

| Bullet Weight (Grains)    | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains)     | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)   |
|---------------------------|-------------|-------------|---------------------|----------------------|-----------------------|-------------------------|-------------------------|--------------|
| <b>308 Winchester</b>     |             |             |                     |                      |                       |                         |                         |              |
| Barrel: 24", Twist: 1-12" |             |             | Primer: FED 210     |                      | Bullet Diameter .308" |                         |                         |              |
| 2460                      | 125         | NOS         | B-TIP               | 44.0                 | 2,800                 | 49.0                    | 3,130                   | 58,600 2.750 |
| 2460                      | 150         | HDY         | SST                 | 41.5                 | 2,600                 | 46.0                    | 2,860                   | 58,400 2.745 |
| 2460                      | 168         | SIE         | HPBT                | 39.2                 | 2,440                 | 43.5                    | 2,680                   | 57,348 2.800 |
| 2460                      | 175         | SIE         | HPBT                | 38.3                 | 2,386                 | 42.5                    | 2,615                   | 58,000 2.800 |
| 2495                      | 150         | HDY         | SP                  | 41.4                 | 2,460                 | 46.0                    | 2,900                   | 58,000 2.745 |
| 2495                      | 168         | SIE         | HPBT                | 40.1                 | 2,336                 | 43.0                    | 2,680                   | 59,000 2.800 |
| 2495                      | 175         | SIE         | HPBT                | 37.4                 | 2,300                 | 41.5                    | 2,620                   | 59,500 2.800 |
| 2495                      | 190         | SIE         | HPBT                | 36.0                 | 2,310                 | 40.0                    | 2,530                   | 59,800 2.800 |
| 2520                      | 150         | HDY         | SST                 | 44.0                 | 2,650                 | 49.0                    | 2,950                   | 59,500 2.745 |
| 2520                      | 168         | SIE         | HPBT                | 42.0                 | 2,528                 | 46.5                    | 2,820                   | 59,236 2.800 |
| 2520                      | 175         | SIE         | HPBT                | 41.0                 | 2,470                 | 45.5                    | 2,691                   | 59,500 2.800 |
| 2520                      | 190         | SIE         | HPBT                | 38.7                 | 2,330                 | 43.0                    | 2,560                   | 59,800 2.800 |

| Bullet Weight (Grains)    | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains)     | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)   |
|---------------------------|-------------|-------------|---------------------|----------------------|-----------------------|-------------------------|-------------------------|--------------|
| <b>30-06 Springfield</b>  |             |             |                     |                      |                       |                         |                         |              |
| Barrel: 24", Twist: 1-10" |             |             | Primer: WIN WLR     |                      | Bullet Diameter .308" |                         |                         |              |
| 4064                      | 180         | LYM         | 311322(L)           | 40.5                 | 2,148                 | 45.0                    | 2,441                   | 36,000 3.015 |
| 4064                      | 200         | LC          | RNGC (L)            | 38.7                 | 2,027                 | 43.0                    | 2,304                   | 43,900 3.195 |
| 4064                      | 125         | NOS         | B-TIP               | 51.3                 | 2,891                 | 57.0                    | 3,286                   | 56,400 3.310 |
| 4064                      | 130         | SIE         | SBT                 | 48.6                 | 2,785                 | 54.0                    | 3,165                   | 57,000 3.185 |
| 4064                      | 150         | HDY         | SST                 | 47.2                 | 2,648                 | 52.5                    | 3,010                   | 58,900 3.335 |
| 4064                      | 165         | BAR         | X                   | 46.3                 | 2,487                 | 51.5                    | 2,827                   | 57,900 3.245 |
| 4064                      | 180         | SIE         | HPBT                | 43.6                 | 2,379                 | 48.5                    | 2,704                   | 58,300 3.290 |
| 2700                      | 180         | LYM         | 311322(L)           | 41.4                 | 2,078                 | 46.0                    | 2,361                   | 38,900 3.015 |
| 2700                      | 200         | LC          | RNGC (L)            | 39.6                 | 1,932                 | 44.0                    | 2,196                   | 42,000 3.195 |
| 2700                      | 125         | SIE         | SPT                 | 55.8                 | 2,812                 | 62.0                    | 3,195                   | 56,300 3.150 |
| 2700                      | 130         | HDY         | SP                  | 54.9                 | 2,750                 | 61.0                    | 3,125                   | 55,500 3.150 |
| 2700                      | 150         | SIE         | SBT                 | 53.1                 | 2,580                 | 59.0                    | 2,932                   | 54,900 3.250 |
| 2700                      | 150         | BAR         | X                   | 51.3                 | 2,544                 | 57.0                    | 2,891                   | 57,900 3.285 |
| 2700                      | 165         | BAR         | X                   | 48.6                 | 2,382                 | 54.0                    | 2,707                   | 58,500 3.245 |
| 2700                      | 168         | SIE         | HPBT                | 48.6                 | 2,404                 | 54.0                    | 2,732                   | 57,700 3.295 |
| 2700                      | 180         | SIE         | HPBT                | 48.0                 | 2,328                 | 55.0                    | 2,646                   | 53,000 3.290 |
| 2700                      | 180         | WIN         | FS                  | 46.8                 | 2,262                 | 52.0                    | 2,571                   | 57,900 3.115 |
| 2700                      | 190         | SIE         | HPBT                | 46.8                 | 2,217                 | 52.0                    | 2,519                   | 53,700 3.325 |
| 2700                      | 200         | NOS         | PART                | 46.4                 | 2,148                 | 51.5                    | 2,441                   | 53,900 3.295 |
| 2700                      | 220         | SIE         | RN                  | 44.6                 | 2,048                 | 49.5                    | 2,327                   | 58,200 3.200 |
| 4350                      | 165         | BAR         | X                   | 51.3                 | 2,428                 | 57.0                    | 2,759                   | 56,300 3.245 |
| 4350                      | 175         | SIE         | HPBT                | 51.3                 | 2,486                 | 57.0                    | 2,825                   | 56,300 3.290 |
| 4350                      | 180         | SIE         | HPBT                | 51.3                 | 2,389                 | 57.0                    | 2,715                   | 56,400 3.290 |
| 4350                      | 180         | Win         | FS                  | 47.7                 | 2,266                 | 53.0                    | 2,575                   | 57,500 3.115 |
| 4350                      | 190         | SIE         | HPBT                | 50.0                 | 2,343                 | 55.5                    | 2,663                   | 60,000 3.325 |
| 4350                      | 200         | NOS         | PART                | 49.5                 | 2,261                 | 55.0                    | 2,569                   | 58,800 3.295 |
| 4350                      | 220         | SIE         | RN                  | 49.5                 | 2,171                 | 55.0                    | 2,467                   | 59,400 3.200 |

| Bullet Weight (Grains)                         | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains)     | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)   |
|--|-------------|-------------|---------------------|----------------------|-----------------------|-------------------------|-------------------------|--------------|
| <b>300 Remington Short Action Ultra Magnum</b> |             |             |                     |                      |                       |                         |                         |              |
| Barrel: 24", Twist: 1-10"                      |             |             | Primer: FED 210     |                      | Bullet Diameter .308" |                         |                         |              |
| 5744   | 165         | HDY         | SP                  | 20.4                 | 1,527                 | 30.5                    | 2,120                   | 29,700 2.680 |
| 4064   | 150         | HDY         | BTSP                | 55.0                 | 2,874                 | 61.0                    | 3,200                   | 64,500 2.800 |
| 4064   | 165         | SIE         | SPBT                | 53.6                 | 2,770                 | 59.5                    | 3,062                   | 64,600 2.800 |
| 4064   | 180         | SWF         | Sirocco             | 50.0                 | 2,622                 | 55.5                    | 2,870                   | 63,900 2.800 |
| 2700   | 150         | HDY         | BTSP                | 60.0                 | 2,940                 | 67.0                    | 3,212                   | 64,700 2.800 |
| 2700   | 165         | SIE         | SPBT                | 58.7                 | 2,794                 | 65.2                    | 3,126                   | 64,400 2.800 |
| 2700   | 180         | SWF         | Sirocco             | 54.5                 | 2,676                 | 60.5                    | 2,954                   | 64,600 2.800 |
| 2700   | 200         | NOS         | Accubond            | 52.0                 | 2,480                 | 58.0                    | 2,800                   | 64,300 2.800 |

| Bullet Weight (Grains)    | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains)     | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)   |
|---------------------------|-------------|-------------|---------------------|----------------------|-----------------------|-------------------------|-------------------------|--------------|
| <b>300 H&amp;H Magnum</b> |             |             |                     |                      |                       |                         |                         |              |
| Barrel: 24", Twist: 1-10" |             |             | Primer: WIN WLRM    |                      | Bullet Diameter .308" |                         |                         |              |
| 4350                      | 150         | HDY         | SST                 | 67.5                 | 2,932                 | 75.0                    | 3,332                   | 62,540 3.555 |
| 4350                      | 150         | NOS         | BT                  | 66.6                 | 2,992                 | 74.0                    | 3,400                   | 63,720 3.600 |
| 4350                      | 165         | BAR         | X                   | 64.8                 | 2,762                 | 72.0                    | 3,139                   | 64,500 3.600 |
| 4350                      | 180         | SIE         | SPT                 | 64.4                 | 2,700                 | 71.5                    | 3,068                   | 64,300 3.600 |
| 3100                      | 150         | HDY         | SST                 | 69.3                 | 2,801                 |                         |                         |              |

**RIFLE**
**RIFLE**

| Bullet Weight (Grains)             | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains)     | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)   |
|------------------------------------|-------------|-------------|---------------------|----------------------|-----------------------|-------------------------|-------------------------|--------------|
| <b>300 Winchester Short Magnum</b> |             |             |                     |                      |                       |                         |                         |              |
| Barrel: 24", Twist: 1-10"          |             |             | Primer: WIN WLRM    |                      | Bullet Diameter .308" |                         |                         |              |
| 5744                               | 165         | NOS         | B-TIP               | 27.5                 | 1,864                 | 30.5                    | 2,071                   | 27,900 2.800 |
| 2700                               | 150         | HDY         | BTSP                | 61.0                 | 2,900                 | 68.0                    | 3,220                   | 62,500 2.800 |
| 2700                               | 165         | SIE         | HPBT                | 59.2                 | 2,777                 | 65.8                    | 3,085                   | 61,300 2.800 |
| 2700                               | 180         | SIE         | SPBT                | 58.5                 | 2,683                 | 65.0                    | 2,981                   | 61,100 2.800 |
| 2700                               | 200         | NOS         | PART                | 55.8                 | 2,514                 | 62.0                    | 2,793                   | 60,600 2.800 |
| 4350                               | 150         | HDY         | BTSP                | 63.5                 | 2,950                 | 70.8                    | 3,285                   | 63,500 2.800 |
| 4350                               | 165         | SIE         | HPBT                | 61.2                 | 2,823                 | 68.0                    | 3,137                   | 61,800 2.800 |
| 4350                               | 180         | SIE         | SPBT                | 60.3                 | 2,722                 | 67.0                    | 3,024                   | 61,300 2.800 |
| 4350                               | 200         | NOS         | PART                | 56.7                 | 2,540                 | 63.0                    | 2,822                   | 60,800 2.800 |
| Magpro                             | 150         | HDY         | BTSP                | 71.7                 | 2,925                 | 79.8                    | 3,285                   | 61,800 2.800 |
| Magpro                             | 165         | SIE         | HPBT                | 70.2                 | 2,828                 | 78.0                    | 3,223                   | 64,800 2.800 |
| Magpro                             | 180         | SIE         | SPBT                | 68.3                 | 2,733                 | 76.0                    | 3,028                   | 60,000 2.800 |

| Bullet Weight (Grains)       | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains)     | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)       |
|------------------------------|-------------|-------------|---------------------|----------------------|-----------------------|-------------------------|-------------------------|------------------|
| <b>300 Winchester Magnum</b> |             |             |                     |                      |                       |                         |                         |                  |
| Barrel: 24", Twist: 1-10"    |             |             | Primer: FED 215     |                      | Bullet Diameter .308" |                         |                         |                  |
| 4350                         | 110         | SIE         | HP                  | 71.6                 | 3,116                 | 79.5                    | 3,541                   | 55,600 3.170     |
| 4350                         | 125         | NOS         | B-TIP               | 70.7                 | 3,047                 | 78.5                    | 3,462                   | 58,200 3.250     |
| 4350                         | 130         | HDY         | SP                  | 69.3                 | 2,973                 | 77.0                    | 3,378                   | 60,000 3.300     |
| 4350                         | 150         | SIE         | SP                  | 65.7                 | 2,767                 | 73.0                    | 3,144                   | 59,400 3.380 (1) |
| 4350                         | 168         | SIE         | HPBT                | 65.1                 | 2,774                 | 72.5                    | 3,153                   | 60,062 3.475 (1) |
| 4350                         | 180         | NOS         | B-TIP               | 64.8                 | 2,680                 | 72.0                    | 3,046                   | 60,888 3.450 (1) |
| 4350                         | 180         | SWF         | SP                  | 66.1                 | 2,720                 | 73.5                    | 3,092                   | 62,304 3.315     |
| 4350                         | 190         | SIE         | HPBT                | 61.6                 | 2,550                 | 68.5                    | 2,898                   | 60,062 3.450 (1) |
| 3100                         | 150         | SIE         | SPBT                | 73.5                 | 2,895                 | 81.5                    | 3,240                   | 62,500 3.340     |
| 3100                         | 168         | HDY         | A-MAX               | 69.3                 | 2,730                 | 77.0                    | 3,040                   | 62,200 3.340     |
| 3100                         | 180         | SIE         | HPBT                | 67.5                 | 2,640                 | 75.0                    | 2,940                   | 62,200 3.340     |
| 3100                         | 190         | HDY         | BTSP                | 66.2                 | 2,590                 | 73.5                    | 2,870                   | 62,800 3.340     |
| 3100                         | 200         | NOS         | PART                | 64.0                 | 2,521                 | 71.0                    | 2,780                   | 63,000 3.340     |
| 3100                         | 220         | SIE         | HPBT                | 63.0                 | 2,430                 | 70.0                    | 2,680                   | 62,700 3.340     |

| Bullet Weight (Grains)      | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains)     | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)   |
|-----------------------------|-------------|-------------|---------------------|----------------------|-----------------------|-------------------------|-------------------------|--------------|
| <b>300 Weatherby Magnum</b> |             |             |                     |                      |                       |                         |                         |              |
| Barrel: 26", Twist: 1-10"   |             |             | Primer: FED 215     |                      | Bullet Diameter .308" |                         |                         |              |
| 3100                        | 150         | BAR         | X                   | 76.5                 | 2,911                 | 85.0                    | 3,308                   | 60,400 3.560 |
| 3100                        | 165         | BAR         | X                   | 75.0                 | 2,810                 | 83.5                    | 3,195                   | 63,700 3.555 |
| 3100                        | 180         | NOS         | B-TIP               | 73.8                 | 2,761                 | 82.0                    | 3,137                   | 64,300 3.560 |
| 3100                        | 200         | NOS         | PART                | 72.0                 | 2,629                 | 80.0                    | 2,987                   | 63,800 3.555 |
| 3100                        | 220         | SIE         | HPBT                | 69.3                 | 2,473                 | 77.0                    | 2,810                   | 63,900 3.530 |
| MagPro                      | 168         | HDY         | A-MAX               | 77.5                 | 2,870                 | 88.0                    | 3,265                   | 63,400 3.560 |
| MagPro                      | 180         | SIE         | HPBT                | 77.0                 | 2,790                 | 85.0                    | 3,100                   | 63,400 3.560 |
| MagPro                      | 190         | HDY         | BTSP                | 74.0                 | 2,730                 | 82.5                    | 3,070                   | 63,000 3.245 |
| MagPro                      | 200         | NOS         | PART                | 73.3                 | 2,720                 | 81.5                    | 3,000                   | 63,100 3.550 |
| MagPro                      | 220         | SIE         | HPBT                | 72.0                 | 2,580                 | 80.0                    | 2,860                   | 63,300 3.560 |

| Bullet Weight (Grains)            | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains)     | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)   |
|-----------------------------------|-------------|-------------|---------------------|----------------------|-----------------------|-------------------------|-------------------------|--------------|
| <b>300 Remington Ultra Magnum</b> |             |             |                     |                      |                       |                         |                         |              |
| Barrel: 24", Twist: 1-10"         |             |             | Primer: FED 215     |                      | Bullet Diameter .308" |                         |                         |              |
| 3100                              | 150         | BAR         | X                   | 80.1                 | 2,974                 | 89.0                    | 3,380                   | 58,900 3.600 |
| 3100                              | 165         | SWF         | AF                  | 82.8                 | 2,953                 | 92.0                    | 3,356                   | 61,800 3.550 |
| 3100                              | 180         | HDY         | SPBT                | 80.1                 | 2,865                 | 89.0                    | 3,256                   | 63,700 3.600 |
| 3100                              | 180         | NOS         | PART                | 80.1                 | 2,826                 | 89.0                    | 3,212                   | 62,900 3.600 |
| 3100                              | 180         | BAR         | X                   | 77.4                 | 2,750                 | 86.0                    | 3,126                   | 60,600 3.600 |
| 3100                              | 200         | SWF         | AF                  | 75.4                 | 2,655                 | 86.0                    | 3,018                   | 60,600 3.550 |
| 3100                              | 220         | SIE         | RN                  | 74.7                 | 2,535                 | 83.0                    | 2,881                   | 63,800 3.570 |
| Magpro                            | 165         | NOS         | PART                | 86.0                 | 3,115                 | 96.5                    | 3,402                   | 63,700 3.550 |
| Magpro                            | 180         | WIN         | FS                  | 81.0                 | 2,951                 | 90.0                    | 3,195                   | 63,100 3.550 |
| 8700                              | 180         | NOS         | PART                | 101.7                | 2,924                 | 113.0                   | 3,323                   | 62,400 3.600 |
| 8700                              | 180         | BAR         | X                   | 101.7                | 2,891                 | 113.0                   | 3,286                   | 62,000 3.600 |
| 8700                              | 200         | SWF         | AF                  | 99.0                 | 2,741                 | 111.0                   | 3,115                   | 59,200 3.550 |
| 8700                              | 220         | SIE         | RN                  | 95.4                 | 2,614                 | 106.0                   | 2,970                   | 62,200 3.570 |

| Bullet Weight (Grains)    | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains)     | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)   |
|---------------------------|-------------|-------------|---------------------|----------------------|-----------------------|-------------------------|-------------------------|--------------|
| <b>8x57mm JS Mauser</b>   |             |             |                     |                      |                       |                         |                         |              |
| Barrel: 24", Twist: 1-10" |             |             | Primer: WIN WLR     |                      | Bullet Diameter .323" |                         |                         |              |
| 2460                      | 125         | HDY         | SP                  | 50.0                 | 2,845                 | 55.5                    | 3,233                   | 56,600 2.880 |
| 2460                      | 150         | SIE         | SPT                 | 45.9                 | 2,557                 | 51.0                    | 2,906                   | 53,700 2.940 |
| 2460                      | 170         | HDY         | RN                  | 44.1                 | 2,401                 | 49.0                    | 2,728                   | 55,600 2.855 |
| 2520                      | 150         | SIE         | SBT                 | 47.3                 | 2,600                 | 52.5                    | 2,955                   | 55,800 2.940 |
| 2520                      | 170         | HDY         | RN                  | 45.0                 | 2,439                 | 50.0                    | 2,752                   | 57,500 2.855 |
| 2520                      | 220         | HDY         | SP                  | 40.5                 | 2,069                 | 45.0                    | 2,351                   | 55,600 2.990 |

| Bullet Weight (Grains)             | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains)     | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)   |
|------------------------------------|-------------|-------------|---------------------|----------------------|-----------------------|-------------------------|-------------------------|--------------|
| <b>325 Winchester Short Magnum</b> |             |             |                     |                      |                       |                         |                         |              |
| Barrel: 24", Twist: 1-10"          |             |             | Primer: WIN WLRM    |                      | Bullet Diameter .323" |                         |                         |              |
| 4064                               | 180         | NOS         | B-TIP               | 54.5                 | 2,636                 | 60.5                    | 2,929                   | 62,900 2.800 |
| 4064                               | 200         | SIE         | HPBT                | 52.0                 | 2,500                 | 58.0                    | 2,720                   | 62,000 2.827 |
| 4064                               | 220         | SIE         | SBT                 | 51.3                 | 2,354                 | 57.0                    | 2,615                   | 63,300 2.800 |
| 2700                               | 180         | NOS         | B-TIP               | 61.7                 | 2,755                 | 68.5                    | 3,061                   | 63,500 2.800 |
| 2700                               | 200         | SIE         | HPBT                | 59.4                 | 2,550                 | 66.0                    | 2,800                   | 62,500 2.827 |
| 2700                               | 220         | SIE         | SBT                 | 57.6                 | 2,476                 | 64.0                    | 2,751                   | 60,400 2.800 |

| Bullet Weight (Grains)      | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains)     | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)   |
|-----------------------------|-------------|-------------|---------------------|----------------------|-----------------------|-------------------------|-------------------------|--------------|
| <b>8mm Remington Magnum</b> |             |             |                     |                      |                       |                         |                         |              |
| Barrel: 24", Twist: 1-10"   |             |             | Primer: FED 215     |                      | Bullet Diameter .323" |                         |                         |              |
| 3100                        | 150         | HDY         | SP                  | 80.1                 | 3,026                 | 89.0                    | 3,439                   | 58,400 3.565 |
| 3100                        | 175         | SIE         | SPT                 | 78.8                 | 2,865                 | 87.5                    | 3,256                   | 60,900 3.565 |
| 3100                        | 200         | SIE         | HPBT                | 74.7                 | 2,703                 | 83.0                    | 3,072                   | 62,300 3.595 |
| 8700                        | 150         | HDY         | SP                  | 88.2                 | 2,655                 | 98.0                    | 3,017                   | 44,700 3.565 |
| 8700                        | 175         | SIE         | SPT                 | 87.3                 | 2,475                 | 97.0                    | 2,813                   | 40,000 3.565 |
| 8700                        | 200         | SIE         | HPBT                | 86.4                 | 2,516                 | 96.0                    | 2,859                   | 48,600 3.595 |

| Bullet Weight (Grains)       | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains)     | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)   |
|------------------------------|-------------|-------------|---------------------|----------------------|-----------------------|-------------------------|-------------------------|--------------|
| <b>338 Winchester Magnum</b> |             |             |                     |                      |                       |                         |                         |              |
| Barrel: 24", Twist: 1-10"    |             |             | Primer: FED 215     |                      | Bullet Diameter .338" |                         |                         |              |
| 2700                         | 200         | NOS         | B-TIP               | 67.0                 | 2,724                 | 70.5                    | 2,898                   | 61,200 3.335 |
| 2700                         | 225         | HDY         | SST                 | 62.7                 | 2,541                 | 66.0                    | 2,703                   | 61,900 3.340 |
| 2700                         | 250         | SIE         | SBT                 | 59.9                 | 2,394                 | 63.0                    | 2,547                   | 62,800 3.340 |
| 4350                         | 200         | HDY         | SP                  | 65.7                 | 2,596                 | 73.0                    | 2,950                   | 62,200 3.335 |
| 4350                         | 225         | HDY         | SST                 | 62.1                 | 2,471                 | 69.0                    | 2,809                   | 64,000 3.240 |
| 4350                         | 230         | WIN         | FS                  | 62.0                 | 2,364                 | 68.0                    | 2,725                   | 62,000 3.310 |
| 4350                         | 250         | SIE         | SBT                 | 58.5                 | 2,276                 | 65.0                    | 2,586                   | 60,700 3.340 |
| 3100                         | 225         | HDY         | SP                  | 65.7                 | 2,360                 | 73.0                    | 2,682                   | 55,900 3.340 |
| 3100                         | 230         | WIN         | FS                  | 65.7                 | 2,357                 | 73.0                    | 2,679                   | 49,678 3.330 |
| 3100                         | 250         | SIE         | SBT                 | 63.9                 | 2,294                 | 71.0                    | 2,607                   | 59,100 3.340 |

| Bullet Weight (Grains)    | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains)     | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)   |
|---------------------------|-------------|-------------|---------------------|----------------------|-----------------------|-------------------------|-------------------------|--------------|
| <b>338 Lapua</b>          |             |             |                     |                      |                       |                         |                         |              |
| Barrel: 26", Twist: 1-10" |             |             | Primer: WIN WLRM    |                      | Bullet Diameter .338" |                         |                         |              |
| Magpro                    | 250         | SIE         | HPBT                | 84.0                 | 2,650                 | 93.0                    | 2,925                   | 64,500 3.680 |
| Magpro                    | 300         | SIE         | HPBT                | 82.0                 | 2,490                 | 91.0                    | 2,750                   | 64,800 3.680 |

| Bullet Weight (Grains)            | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains)     | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)   |
|-----------------------------------|-------------|-------------|---------------------|----------------------|-----------------------|-------------------------|-------------------------|--------------|
| <b>338 Remington Ultra Magnum</b> |             |             |                     |                      |                       |                         |                         |              |
| Barrel: 24", Twist: 1-10"         |             |             | Primer: FED 215     |                      | Bullet Diameter .338" |                         |                         |              |
| 3100                              | 200         | NOS         | B-TIP               | 84.1                 | 2,814                 | 93.5                    | 3,198                   | 62,300 3.575 |
| 3100                              | 215         | SIE         | SPBT                | 82.8                 | 2,728                 | 92.0                    | 3,101                   | 63,400 3.575 |
| 3100                              | 225         | HDY         | SST                 | 82.8                 | 2,674                 | 92.0                    | 3,039                   | 63,800 3.575 |
| 3100                              | 250         | NOS         | PART                | 78.3                 | 2,504                 | 87.0                    | 2,846                   | 63,000 3.575 |
| 3100                              | 250         | SIE         | SPBT                | 78.7                 | 2,530                 | 87.5                    | 2,875                   | 63,200 3.575 |

| Bullet Weight (Grains)    | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains)     | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)   |
|---------------------------|-------------|-------------|---------------------|----------------------|-----------------------|-------------------------|-------------------------|--------------|
| <b>35 Whelen</b>          |             |             |                     |                      |                       |                         |                         |              |
| Barrel: 24", Twist: 1-12" |             |             | Primer: FED 210     |                      | Bullet Diameter .358" |                         |                         |              |
| 2460                      | 200         | HDY         | SP                  | 51.3                 | 2,401                 | 57.0                    | 2,728                   | 49,800 3.140 |
| 2460                      | 200         | BAR         | X                   | 50.4                 | 2,420                 | 56.0                    | 2,750                   | 48,300 3.225 |
| 2460                      | 225         | BAR         | X                   | 46.8                 | 2,261                 | 52.0                    | 2,569                   | 50,400 3.220 |
| 2460                      | 225         | NOS         | PART                | 48.6                 | 2,292                 | 54.0                    | 2,604                   | 52,200 3.215 |
| 2460                      | 250         | BAR         | X                   | 44.1                 | 2,123                 | 49.0                    | 2,412                   | 52,500 3.220 |
| 2460                      | 250         | HDY         | RN                  | 46.8                 | 2,119                 | 52.0                    | 2,408                   | 47,500 3.250 |
| 2495                      | 180         | HDY         | SP                  | 53.6                 | 2,585                 | 59.5                    | 2,937                   | 51,800 3.035 |
| 2495                      | 200         | SIE         | RN                  | 51.3                 | 2,458                 | 57.0                    | 2,793                   | 50,200 3.140 |
| 2495                      | 225         | BAR         | X                   | 47.7                 | 2,174                 | 53.0                    | 2,470                   | 48,800 3.220 |
| 2495                      | 225         | NOS         | PART                | 45.9                 | 2,264                 | 51.0                    | 2,573                   | 52,200 3.215 |
| 2495                      | 250         | HDY         | SP                  | 44.1                 | 2,126                 | 49.0                    | 2,416                   | 54,500 3.255 |
| 2520                      | 225         | SIE         |                     |                      |                       |                         |                         |              |

**RIFLE**
**RIFLE**

| Bullet Weight (Grains)      | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains) | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)   |
|-----------------------------|-------------|-------------|---------------------|----------------------|-------------------|-------------------------|-------------------------|--------------|
| <b>416 Remington Magnum</b> |             |             |                     |                      |                   |                         |                         |              |
| Barrel: 24", Twist: 1-14"   |             |             | Primer: WIN WLRM    |                      |                   | Bullet Diameter .416"   |                         |              |
| 2460                        | 350         | BAR         | X                   | 71.1                 | 2,298             | 79.0                    | 2,611                   | 60,180 3.600 |
| 2460                        | 400         | HDY         | RN                  | 66.6                 | 2,097             | 74.0                    | 2,383                   | 59,354 3.580 |
| 2495                        | 350         | BAR         | X                   | 73.8                 | 2,226             | 82.0                    | 2,530                   | 54,870 3.600 |
| 2495                        | 400         | HDY         | RN                  | 72.0                 | 2,154             | 80.0                    | 2,448                   | 59,000 3.580 |
| 2520                        | 350         | BAR         | X                   | 70.2                 | 2,255             | 78.0                    | 2,563                   | 57,348 3.600 |
| 2520                        | 400         | HDY         | RN                  | 67.5                 | 2,099             | 75.0                    | 2,385                   | 61,242 3.580 |
| 4064                        | 350         | BAR         | X                   | 74.7                 | 2,235             | 83.0                    | 2,540                   | 54,516 3.600 |
| 4064                        | 400         | HDY         | RN                  | 72.0                 | 2,128             | 80.0                    | 2,419                   | 56,404 3.580 |
| 2700                        | 350         | BAR         | X                   | 81.7                 | 2,384             | 86.0                    | 2,536                   | 55,460 3.600 |
| 2700                        | 400         | HDY         | RN                  | 80.8                 | 2,295             | 85.0                    | 2,442                   | 58,764 3.580 |

|                           |     |     |                 |      |       |                       |       |                     |
|---------------------------|-----|-----|-----------------|------|-------|-----------------------|-------|---------------------|
| <b>444 Marlin</b>         |     |     |                 |      |       |                       |       |                     |
| Barrel: 24", Twist: 1-38" |     |     | Primer: WIN WLR |      |       | Bullet Diameter .429" |       |                     |
| 5744                      | 200 | LC  | RNFP (L)        | 34.2 | 1,958 | 38.0                  | 2,225 | <b>41,000</b> 2.560 |
| 5744                      | 240 | LC  | SWC (L)         | 32.4 | 1,804 | 36.0                  | 2,051 | <b>39,200</b> 2.570 |
| 5744                      | 200 | HDY | XTP             | 36.0 | 2,021 | 40.0                  | 2,297 | <b>42,400</b> 2.520 |
| 5744                      | 240 | SIE | JHC             | 33.3 | 1,820 | 37.0                  | 2,069 | <b>41,900</b> 2.520 |
| 5744                      | 265 | HDY | FP              | 31.5 | 1,692 | 35.0                  | 1,923 | <b>40,500</b> 2.570 |
| 1680                      | 200 | HDY | XTP             | 54.2 | 2,566 | 57.0                  | 2,730 | <b>41,300</b> 2.520 |
| 2015                      | 200 | HDY | XTP             | 57.0 | 2,409 | 60.0                  | 2,563 | <b>42,700</b> 2.520 |
| 2015                      | 240 | SIE | JHC             | 52.3 | 2,217 | 55.0                  | 2,359 | <b>43,000</b> 2.520 |
| 2015                      | 265 | HDY | FP              | 49.4 | 2,088 | 52.0                  | 2,221 | <b>41,500</b> 2.570 |
| 2230                      | 240 | SIE | JHC             | 54.2 | 2,181 | 57.0                  | 2,320 | <b>44,000</b> 2.520 |
| 2230                      | 265 | HDY | XTP             | 52.3 | 2,074 | 55.0                  | 2,206 | <b>44,000</b> 2.570 |
| 2460                      | 240 | SIE | JHC             | 54.2 | 2,138 | 57.0                  | 2,274 | <b>42,700</b> 2.520 |
| 2460                      | 265 | HDY | FP              | 53.2 | 2,084 | 56.0                  | 2,217 | <b>43,700</b> 2.570 |

**Bold Italicized = CUP Pressure**

|                              |     |     |                 |      |       |                       |       |              |
|------------------------------|-----|-----|-----------------|------|-------|-----------------------|-------|--------------|
| <b>458 Winchester Magnum</b> |     |     |                 |      |       |                       |       |              |
| Barrel: 24", Twist: 1-14"    |     |     | Primer: FED 215 |      |       | Bullet Diameter .458" |       |              |
| 5744                         | 405 | CP  | WLNGC (L)       | 29.0 | 1,400 | 53.0                  | 2,265 | 58,000 2.960 |
| 5744                         | 460 | CP  | WFNGC (L)       | 26.0 | 1,300 | 48.0                  | 2,070 | 59,200 2.916 |
| 2015                         | 300 | HDY | HP              | 66.0 | 2,289 | 74.0                  | 2,590 | 42,500 2.930 |
| 2015                         | 350 | HDY | RN              | 63.0 | 2,185 | 70.0                  | 2,440 | 46,000 2.965 |
| 2015                         | 400 | WDL | RN              | 62.0 | 2,114 | 69.0                  | 2,272 | 53,000 3.280 |
| 2015                         | 500 | HDY | RN              | 61.0 | 1,960 | 68.0                  | 2,140 | 59,000 3.310 |
| 2230                         | 300 | HDY | HP              | 72.0 | 2,330 | 80.0                  | 2,627 | 49,500 2.930 |
| 2230                         | 350 | HDY | RN              | 69.0 | 2,200 | 77.0                  | 2,490 | 51,000 2.950 |
| 2230                         | 400 | WDL | RN              | 68.0 | 2,145 | 76.5                  | 2,400 | 57,000 3.280 |
| 2230                         | 500 | HDY | RN              | 66.0 | 1,970 | 74.0                  | 2,200 | 60,000 3.310 |
| 2460                         | 300 | HDY | HP              | 73.0 | 2,360 | 81.0                  | 2,612 | 46,500 2.930 |
| 2460                         | 350 | HDY | RN              | 70.0 | 2,190 | 78.0                  | 2,487 | 50,000 2.950 |
| 2460                         | 400 | WDL | RN              | 69.0 | 2,150 | 77.0                  | 2,415 | 56,500 3.280 |
| 2460                         | 500 | HDY | RN              | 67.0 | 1,990 | 75.0                  | 2,210 | 61,510 3.305 |

|                           |     |     |                 |      |       |                       |       |              |
|---------------------------|-----|-----|-----------------|------|-------|-----------------------|-------|--------------|
| <b>458 Lott</b>           |     |     |                 |      |       |                       |       |              |
| Barrel: 24", Twist: 1-10" |     |     | Primer: WIN WLR |      |       | Bullet Diameter .458" |       |              |
| 2230                      | 500 | HDY | RN              | 74.0 | 2,077 | 82.0                  | 2,275 | 60,000 3.600 |
| 2520                      | 500 | HDY | RN              | 77.0 | 2,100 | 86.0                  | 2,310 | 61,000 3.600 |

Western Powders would like to thank the following companies for their continued support in our efforts to provide this information:

- |                               |                           |
|-------------------------------|---------------------------|
| - Barnes Bullets, Inc.        | - Montana Gold            |
| - Berger Bullets              | - Nosler                  |
| - Berry's Manufacturing       | - Oregon Trail Bullet Co. |
| - Burgess Bullets             | - Rainier Bullets         |
| - Cast Performance Bullet Co. | - Remington               |
| - Hornady                     | - Sierra Bullets          |
| - Lyman Products              | - Swift Bullets           |
| - Montana Cast Bullets        | - Winchester              |

| Bullet Weight (Grains)                        | Bullet Make | Bullet Type | Start Load (Grains) | Start Velocity (fps) | Max Load (Grains) | Max Load Velocity (fps) | Max Load Pressure (psi) | COL (inch)   |
|---|-------------|-------------|---------------------|----------------------|-------------------|-------------------------|-------------------------|--------------|
| <b>45-70 Government Springfield Trap Door</b> |             |             |                     |                      |                   |                         |                         |              |
| Barrel: 24", Twist: 1-20"                     |             |             | Primer: WIN WLR     |                      |                   | Bullet Diameter .458"   |                         |              |
| 5744  | 405         | LC          | LFNPB (L)           | 25.5                 | 1,345             | 27.5                    | 1,440                   | 17,500 2.610 |
| 5744  | 420         | CP          | LFNGC (L)           | 24.5                 | 1,305             | 26.5                    | 1,395                   | 17,800 2.550 |
| 5744  | 460         | CP          | LFNGC (L)           | 22.5                 | 1,220             | 24.8                    | 1,320                   | 17,900 2.521 |
| 5744  | 500         | LC          | FN (L)              | 21.0                 | 1,161             | 22.3                    | 1,235                   | 17,800 2.529 |
| 2015  | 405         | LC          | LFNPB (L)           | 32.4                 | 1,300             | 36.0                    | 1,450                   | 17,800 2.610 |
| 2015  | 420         | CP          | LFNGC (L)           | 31.5                 | 1,278             | 35.0                    | 1,408                   | 17,400 2.550 |
| 2015  | 460         | CP          | LFNGC (L)           | 31.0                 | 1,250             | 34.0                    | 1,365                   | 17,600 2.521 |
| 2015  | 500         | LC          | FN (L)              | 27.5                 | 1,150             | 31.0                    | 1,250                   | 17,500 2.529 |

|   |     |     |                 |      |       |                       |       |              |
|---|-----|-----|-----------------|------|-------|-----------------------|-------|--------------|
| <b>45-70 Government Standard Rifles</b> |     |     |                 |      |       |                       |       |              |
| Barrel: 24", Twist: 1-20"               |     |     | Primer: WIN WLR |      |       | Bullet Diameter .458" |       |              |
| 5744                                    | 405 | LC  | FP (L)          | 30.6 | 1,468 | 34.0                  | 1,600 | 27,800 2.550 |
| 5744                                    | 420 | CP  | LFNGC (L)       | 29.3 | 1,401 | 32.5                  | 1,538 | 27,000 2.550 |
| 5744                                    | 440 | CP  | LFNGC (L)       | 28.1 | 1,362 | 31.2                  | 1,490 | 27,600 2.550 |
| 5744                                    | 460 | CP  | WFNGC (L)       | 27.5 | 1,321 | 30.5                  | 1,444 | 27,200 2.550 |
| 5744                                    | 300 | SIE | HP/FN           | 36.7 | 1,712 | 40.8                  | 1,874 | 27,200 2.550 |
| 5744                                    | 350 | HDY | RN              | 33.8 | 1,529 | 37.5                  | 1,676 | 27,700 2.550 |
| 2015                                    | 405 | LC  | FP (L)          | 44.3 | 1,666 | 49.2                  | 1,817 | 27,400 2.550 |
| 2015                                    | 420 | CP  | LFNGC (L)       | 42.6 | 1,584 | 47.3                  | 1,763 | 27,400 2.550 |
| 2015                                    | 440 | CP  | LFNGC (L)       | 38.6 | 1,514 | 43.2                  | 1,652 | 27,300 2.550 |
| 2015                                    | 460 | CP  | WFNGC(L)        | 38.3 | 1,482 | 42.6                  | 1,636 | 27,100 2.550 |
| 2015                                    | 300 | HDY | JHP             | 51.8 | 1,836 | 57.5                  | 2,069 | 27,300 2.550 |
| 2015                                    | 350 | HDY | RN              | 47.3 | 1,703 | 52.5                  | 1,890 | 27,800 2.550 |
| 2230                                    | 405 | LC  | FP (L)          | 38.6 | 1,550 | 43.2                  | 1,694 | 27,500 2.550 |
| 2230                                    | 420 | CP  | LFNGC (L)       | 38.0 | 1,523 | 42.2                  | 1,646 | 27,400 2.550 |
| 2230                                    | 440 | CP  | LFNGC (L)       | 34.5 | 1,437 | 38.3                  | 1,553 | 28,000 2.550 |
| 2230                                    | 460 | CP  | WFNGC(L)        | 34.4 | 1,404 | 38.2                  | 1,511 | 27,300 2.550 |
| 2230                                    | 300 | SIE | HP/FN           | 43.2 | 1,747 | 48.0                  | 1,901 | 27,600 2.550 |
| 2230                                    | 350 | HDY | RN              | 42.3 | 1,623 | 47.0                  | 1,776 | 28,000 2.550 |
| 2230                                    | 500 | HDY | RN              | 32.8 | 1,167 | 36.4                  | 1,306 | 27,400 2.550 |

|   |     |     |                 |      |       |                       |       |              |
|---|-----|-----|-----------------|------|-------|-----------------------|-------|--------------|
| <b>45-70 Government Ruger No. 1 and 3</b> |     |     |                 |      |       |                       |       |              |
| Barrel: 24", Twist: 1-20"                 |     |     | Primer: WIN WLR |      |       | Bullet Diameter .458" |       |              |
| 5744                                      | 405 | LC  | FP (L)          | 36.0 | 1,667 | 40.0                  | 1,826 | 38,400 2.550 |
| 5744                                      | 420 | CP  | LFNGC (L)       | 35.1 | 1,641 | 39.0                  | 1,783 | 38,200 2.550 |
| 5744                                      | 440 | CP  | LFNGC (L)       | 32.9 | 1,558 | 36.5                  | 1,705 | 38,000 2.550 |
| 5744                                      | 460 | CP  | WFNGC (L)       | 32.6 | 1,523 | 36.2                  | 1,666 | 38,200 2.550 |
| 5744                                      | 300 | SIE | HP/FN           | 43.2 | 1,986 | 48.0                  | 2,159 | 38,900 2.550 |
| 5744                                      | 350 | HDY | RN              | 39.4 | 1,771 | 43.8                  | 1,929 | 38,000 2.550 |
| 5744                                      | 400 | BAR | FNSP            | 36.9 | 1,620 | 41.0                  | 1,787 | 38,100 2.550 |
| 2230                                      | 405 | LC  | FP (L)          | 48.2 | 1,845 | 53.5                  | 1,978 | 38,700 2.550 |
| 2230                                      | 420 | CP  | LFNGC (L)       | 46.8 | 1,791 | 52.2                  | 1,920 | 27,400 2.550 |
| 2230                                      | 440 | CP  | LFNGC (L)       | 42.8 | 1,674 | 47.5                  | 1,804 | 38,600 2.550 |
| 2230                                      | 460 | CP  | WFNGC (L)       | 42.8 | 1,668 | 47.5                  | 1,782 | 37,900 2.550 |
| 2230                                      | 300 | HDY | JHP             | 56.0 | 2,092 | 62.2                  | 2,275 | 38,200 2.550 |
| 2230                                      | 350 | HDY | RN              | 48.6 | 1,797 | 54.0                  | 1,922 | 39,000 2.550 |
| 2230                                      | 400 | BAR | FNSP            | 46.8 | 1,745 | 52.0                  | 1,865 | 38,300 2.550 |
| 2230                                      | 500 | HDY | RN              | 39.6 | 1,408 | 44.0                  | 1,552 | 38,800 2.550 |

## Accurate<sup>®</sup>

**RAMSHOT POWDERS**

**MONTANA  
-X-TREME<sup>™</sup>**

THE BEST GUN CARE PRODUCTS

*Ramshot, Accurate and Montana X-Treme are exclusive brands of Western Powders, Inc.*