



VIHTAVUORI

100

ANNIVERSARY

RELOADING GUIDE 2022



VIHTAVUORI®

The Power of Accuracy

EST. 1922



100 YEARS OF EXCELLENCE

The year 2022 designates the 100th Anniversary for Vihtavuori

Vihtavuori is recognized around the globe as being an innovator in the field of energetics. Throughout the last 100 years, Vihtavuori has produced various chemicals, components, and of course: the best reloading powder in the world. Vihtavuori, both the brand and location of where the facility stands today, has been built and developed by its people. Although the business has had its share of difficult challenges and threats, every time they've persevered. Today, Vihtavuori Powders is stronger than ever and has become a household name for every serious competitive shooter, accuracy enthusiast, and hunter who handloads their ammunition. Demanding customers require the best quality, performance, and consistency with every reloading component – most importantly, their propellants. Selecting Vihtavuori powders ensures your ammunition will be up for the task, even in the most adverse conditions.

Vihtavuori powders deliver clean-burning results, unmatched consistency, excellent temperature stability, and flawless performance. Shot-after-shot. This equates to the reliable reloading and superior ammunition which accuracy-minded shooters demand.

Go ahead, load Vihtavuori and assemble your perfect round. With 100 Years of experience, The Power of Accuracy is guaranteed with every shot.

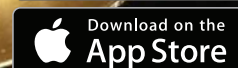


VIHTAVUORI RELOAD

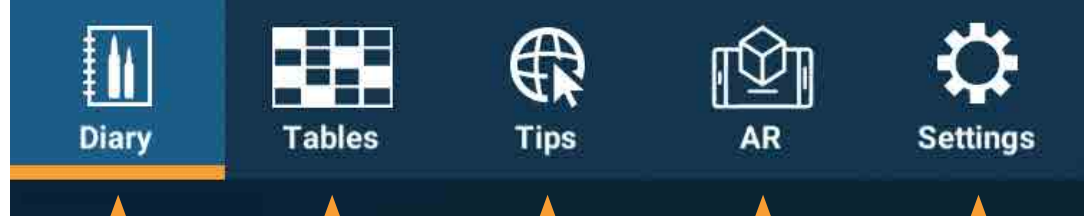
VIHTAVUORI RELOAD APP - YOUR MOBILE GUIDE TO RELOADING

Every keen reloader needs a guide to check and save reloading data. The free of charge Vihtavuori Reload app helps you with reloading process and keeps track of your reloading recipes, both online and offline. Use the app to print out your load recipes to your email and create ammo loads for as many firearms and calibers you want. With Vihtavuori Reload you also have easy access to all the latest, safe Vihtavuori Reloading Data as well as other Vihtavuori information.

This app is all you need to load your own ammo!



QUICK GUIDE FOR USING THE APP



Store your recipes in the Diary section

Tables show all Vihtavuori Reload data

Link to reloading info on our web site

Try the AR ('Augmented reality') mode!

Your profile settings



Edit existing recipe

Create copy of selected recipe

Send selected recipe to your email

Delete selected recipe

NEW USER

REGISTRATION

Name:

Email:

Password:

Country:

Recommended password format: at least one non alphanumeric character, one digit ('0'-9'), one uppercase ('A'-Z'), one lowercase ('a'-z') and be at least 6 characters.

DEFAULT UNITS

Weight: ☒ grams ☐ grains

Length: ☒ mm ☐ inches

Velocity: ☒ m/s ☐ fps

Date format: ☐ dd.mm.yyyy ☒ mm/dd/yyyy

Recipe Sync: ☒ Yes ☐ No

☐ I have read and agree to the Terms of Service.

CANCEL **REGISTER NOW**

Settings can also be modified on each recipe

After registration you can send saved recipes to your e-mail, modify app settings and access your saved data even when switching devices

NEW DIARY ENTRY

Show advanced options ☒

Select Weapon:

LABEL INFO

Date: 11/16/2020 ☆☆☆☆☆ Rate your entry

Info: Cartridge muzzle velocity

POWDER

Manufacturer: Vihtavuori

Type:

Load: g

Manufacturing info: (year)

BULLET

Manufacturer:

Caliber:

Type:

Diary Tables Tips AR Settings

Add even more details to your recipe

Select weapon from your list

Rate your recipe. Rating is only for your own use

Show all diary entries

ADD NEW DIARY ENTRY

.30-06 Sprg | Sako ✓
11/13/2020
Cartridge muzzle velocity: 800 m/s

.308 | Test gun ✓
11/13/2020
Cartridge muzzle velocity: 723 m/s

Diary Tables Tips AR Settings

Tap arrow to open/close your recipe

Show all diary entries

ADD NEW DIARY ENTRY

.30-06 Sprg | Sako ✓
11/13/2020
Cartridge muzzle velocity: 800 m/s

.308 | Test gun ✓
11/13/2020
Cartridge muzzle velocity: 723 m/s

Diary Tables Tips AR Settings

View to all your recipes by weapon or caliber

Did you know that if you have registered a profile in Vihtavuori Reload, you can access your data even if you lose or change your mobile device to a new one.

100 YEARS OF VIHTAVUORI POWDERS

VIHTAVUORI
100_v

1922

The factory was founded as a military facility in the small community of Laukaa.



1931

Nitroglycerine and shot shell production begins.

In the wake of World War I, the newly independent Finnish state required a plant to produce propellants and explosive materials for the defence forces. The Vihtavuori factory was founded in 1922 as a military facility in the small community of Laukaa in the middle of Finland. Location criteria were e.g. strategic location, access to clean water and a functioning railway line. The first Managing Director was Gustaf Hackzell, and the actual powder production started in 1926.

The constantly developing and growing factory started producing nitroglycerine and shot shells, a product category that would make the Vihtavuori brand a household name in Finland for the next 30 years.

The tensions related to the beginning of the Second World War built up quickly, and the Vihtavuori site had to start preparing for war in a hurry, buying raw materials and disguising the factory area in case of possible air raids using paint, trees and lumber.

During World War II, the production capacity at the factory was naturally at a maximum level.

1938

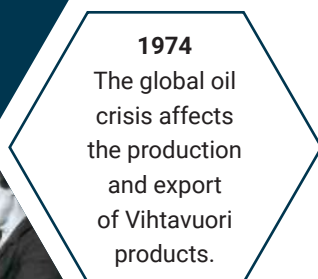
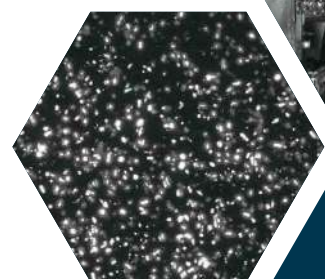
The factory prepares for WW II and production is increased to max level.



1946

Powder production decreases and production shifts to other chemicals.

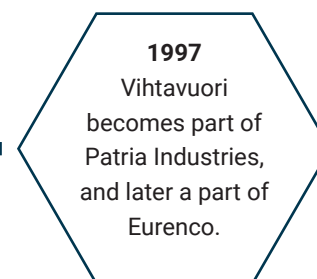
After the war, the government decided to transfer the factory from the Ministry of Defence to be managed by the Ministry of Trade and Industry. Wartime production ended, and the gun powder production decreased from having been more than 1,000 tonnes in 1946 to a meagre 17 tonnes in 1950. The main product was dynamite, the factory also made e.g. shot shells and primers.



Between 1960 and 1980, the Vihtavuori site was producing a vast array of chemicals. The factory produced eg. varnish resin and an explosive called anite. As a result of a merger and subsequent name change, in 1971 the Vihtavuori factory became a part of Kemira Oy, a state-owned chemical production giant. In the mid-1970ies, the oil crisis cast a shadow on the production and export opportunities, and some tough times followed. However this crisis also helped develop the company, and in 1982 the new nitroglycerin facility at the factory opened.

In the mid-1990ies, Vihtavuori became a part of the Finnish defence corporation Patria Industries. At this point, the international business began to grow. In 2004, Vihtavuori became part of the French powder manufacturing corporation Eurenco.

Vihtavuori continued to focus as a manufacturer of propellants for both civilian and military markets, especially as the Finnish government required the production to continue in order to ensure security of supply.



In 2014, Vihtavuori Powders became part of the Nammo group. During the following years, the company continued to develop as an internationally significant player in the market and new consumer products like the N555, the N565 and N568 were released for the civilian market.

On the 100th anniversary of the company, the Vihtavuori brand is stronger than ever!



PREMIUM N100 POWDERS

The N100 series powders are primarily rifle powders with different burning rates to optimize your loads.

N110

Our fastest burning powder suitable for small rifle cartridges such as the .22 Hornet and .30 Carbine, but also well suited to many of the more powerful Magnum handgun rounds. It is particularly applicable for the .44 Rem Magnum, .454 Casull, .500 S&W Mag and similar high-performance revolver cartridges.

N120

A well-balanced powder specifically for some of the intermediate cases such as the .300 Blackout and 7.62x39. It operates best at a somewhat higher pressure than the faster N110, and gives good results in a variety of the small to mid-capacity cases such as the .221 Rem. Fireball and .30-30 Win.

N130

A fast-burning rifle powder well suited to both small cases like the .22 calibers and 6 mm PPCs, and large straight-walled cases such as the .45-70 Govt and .458 Win Mag. N130 is also an excellent choice for lighter bullets in such cartridges as the .222 and .223 Rems. Exceptional accuracy combined with the benefits of our anti-coppering technology.

N133

The preferred choice of most leading benchrest competitors and standard rifle shooters, and the powder used to set an incredible number of the current benchrest rifle records. Ideally suited to the 6mm PPC, but it's also versatile enough to serve in a wide variety of cartridges. Especially where a relatively fast-burning powder is called for, ranging from the .222 Rem to the .45-70 Govt.

N135

N135 is a relatively fast powder that delivers outstanding accuracy, velocity and consistent performance. An excellent choice for .308 Win loads with bullet weight less than 155 grains. Well suited to cartridges like the 6 mm BR Norma, .222 and .223 Rem, as well as large straight-walled cases such as the .458 Win. Mag.

N140

An incredibly versatile powder, well suited to a wide range of cartridges and bullet weights. From the .223 Rem with heavy bullets, to full sized powerhouses like the .375 H&H Magnum, our N140 is an ideal choice. Giving good velocities, clean performance and exceptional stability, this is the standard go-to powder for a wide variety of cases.

N150

Our N150 is a slow burning powder, well suited to most common mid-sized cartridges when used with heavier bullets in accuracy and hunting loads. An excellent choice for 185-220 grain bullets in the .30-06, 140-160 grain bullets in the 6.5x55, and 175-200 grain bullets in the .308 Win. Great for 6.5 Creedmoor. Combining Vihtavuori's latest decoppering technology and enhanced temperature stability, N150 is a tremendously versatile powder.

N160

A slow-burning powder well suited to a broad range of Magnums, and large capacity/small bore cartridges like the 6.5-284 Norma. It is an ideal combination when used with the 270 Win, .25-06 Rem and a variety of belted Magnums, and it is great for 6.5 Creedmoor as well. An excellent choice for lighter to mid-weight bullets in these cartridges, N160 is temperature stable and exceptionally clean burning.

N165

N165 is a very slow burning powder, making it a superior choice for the same range of cartridges as our N160 when using heavier bullets. Delivering slightly higher velocities with these projectiles makes N165 a wise choice when long-range performance is the goal. It delivers superb accuracy with heavy bullets in calibers ranging from 6,5x55 SE all the way to .416 Rigby, and is a top choice for the .338 Lapua Magnum.

N170

Our slowest burning N100 series powder, recommended for the very large capacity cases such as the .300 Weatherby Mag. and the .300 Rem Ultra Mag. Good performances in most of the belted Magnum cartridges. N170 is one of the slowest canister-grade powders readily available from any manufacturer.

24N41

Vihtavuori 24N41 is a single-based treated rifle powder very similar to the 20N29. It has a very large grain size (length 2,3 mm by diameter 1,3 mm) and an extremely slow burning rate ideally suited to the .50 BMG. It can also be used for some large capacity cases, such as the .300 Lapua Magnum, .300 Rem. Ultra Mag, and the .338 Lapua Magnum. Of the two, 24N41 is slightly faster than 20N29, with a renewed relative burning rate of 39 for the 24N41 compared to 36 for the 20N29, when N110 is given the index 100.

20N29

Vihtavuori 20N29 was originally developed for .50 BMG and military use, and even the name 20N29 originates from the Finnish Army standards. 20N29 is a single-based, surface treated powder with grain dimensions of 2,3 mm length and 1,3 mm diameter. The burning rate is slower and grain size larger than those of the N100 series powders. 20N29 is primarily used in large caliber and magnum applications with heavy bullets and in long-range target shooting. It is ideally suited for the .50 BMG, but has also gained a good reputation when used eg. in .300 Lapua Magnum and .30-378 Weatherby Magnum.

For 100 years, strict quality acceptance limits have helped reloaders and cartridge manufacturers to achieve similar loads regardless of the production lot.

PREMIUM N300 HANDGUN POWDERS

N310

N310 is an extremely fast-burning pistol powder, ideally suited to light, target type loads. It gives outstanding accuracy in a wide range of cartridges from the .32 S&W Long to the .45 ACP wadcutter loadings. Clean burning, consistent and easy to load, N310 is the top choice for the competitive Bullseye pistol shooter.

N320

A fast-burning powder for use in light to mid-range target loads, in cartridges ranging from the 9 mm and .38 Special, up to the .44 Special and .45 ACP. Capable of producing higher velocities at acceptable pressures than our N310, N320 provides the handloader a bit more versatility at the loading bench.

N32C (TIN STAR)

This is a specialized powder intended to provide low bulk density for cartridges that were originally designed for Cowboy Action Shooters shooting lead bullets with single-action revolvers and lever-action rifles. The use of more conventional powder results in poor load density, and fails to adequately fill the case. Our N32C corrects this problem, and is ideally suited to many of the older cartridges used in Cowboy Action shooting, such as the .38 Special, .44 Special and .45 Colt.

N330

N330 provides a wide range of latitude for the handgun shooter, serving well for everything from light target to heavier high-velocity loadings. This is a versatile powder suitable for an exceptionally broad range of applications, especially designed for 9 mm Luger but also suitable for .38 Special, .40 S&W, .44 S&W Special and .45 Colt.

The N300 series powders
are ideal for handgun
and shotgun loads.

N105 SUPER MAGNUM

N105 Super Magnum is our slowest burning pistol powder, intended for the most powerful handgun cartridges in use today, particularly with heavy bullets and/or large case volume. Many of these specialized rounds operate at rifle pressures. Delivering this type of performance is precisely what prompted the development of N105. For such powerhouses as the .454 Casull or .500 S&W, N105 is an excellent powder choice.

N340

A flexible powder that serves well in medium to heavy high-velocity loadings. N340 is a good performer in high intensity rounds like the .357 and .44 Magnums, the 40 S&W and the .357 SIG cartridges.

N350

Our N350 is the slowest in the N300 series of handgun powders, and is ideal for very heavy loadings, and top end velocities and energies from a broad range of pistol and revolver cartridges. It is very well suited to loading powerful rounds for example in calibers 9 mm Luger, 10 mm AUTO and .45 ACP.

3N37

Originally developed as a powder for loading .22 rimfire cartridges, 3N37 has a burn rate very similar to N350, and can be used for many of the same applications. As handgun shooters began to experiment with 3N37, they found that this fine-grained powder loaded evenly through a measure and gave excellent results from a range of competitive cartridges used for USPSA and IPSC shooting.

3N38

The 3N38 is a specialized powder designed specifically for competitive handgun shooting with high-velocity loads in the 9mm and .40 S&W cartridges. A relatively slow-burning powder, 3N38 is a perfect choice for making Major with good accuracy and the clean-burning characteristics for which Vihtavuori is renowned.

PREMIUM N500 HIGH ENERGY POWDERS



The N500 series of Vihtavuori propellants provide the utmost in performance for added velocity and range with heavy bullets. Nitroglycerine has been added to the traditional single base powder to get better energy content. The series offers eight different reloading powders with different burning rates.

N530

The fastest of our N500 High Energy series, N530 is an ideal for many of the smaller bottlenecked cases like the .223/5.56, or large straight-walled cases such as the .45-70 Springfield. It is also a useful powder for medium capacity cases like the .308 Win, when using lighter weight bullets of 155 grains or less.

N540

N540 is a mid-range powder in the N500 series, and an excellent choice for cartridges running from the .223/5.56mm, .308 Win and .30-06 Springfield with appropriate bullet weights. This is also a great powder for 6.5x47 Lapua and 6.5 Creedmoor as well as the .223 when using heavy bullets from 69 to 82 grains. It is exceptionally clean-burning and delivers outstanding accuracy.

N550

A slower burning powder very well suited to a wide range of medium to large cartridges, especially with heavier bullet weights. An ideal fit for many of the 30 caliber magnums with lighter bullets, but useful across a wide range of bore sizes. Particularly well matched to heavy bullet loadings in the 6.5x55 and .30-06 Springfield cartridges.

N555

Vihtavuori's N555 rifle powder is designed for precision rifle platforms chambered in cartridges such as 6mm & 6.5 Creedmoor, .284 Winchester, .260 Remington, .30-06 Springfield, and for rifle calibers with large case volume and comparatively small bullet diameters, among others. Competitive shooters and hunters will benefit from its insensitivity in extreme weather conditions. N555 is the most temperature stable powder in its class, and features unprecedented performance in the 6.5 Creedmoor. It includes an anti-fouling agent that minimizes barrel fouling to extend the length of your competitive shooting stages. Its unmatched lot-to-lot consistency also eliminates costly range time re-developing your favorite loads.

N560

A very slow-burning powder for large, magnum style cases, particularly when heavy bullets and high velocities are required. A perfect selection for the .270 Win, 7 mm Remington or Weatherby Magnums, .300 Winchester, RUM or Weatherby Magnums. A very good choice for the .338 Lapua Magnum when using lighter bullets of 250 grains or less.

N565

N500 series powder developed specially for the 300 gr bullet weight loads in .338 Lapua Magnum. N565 roughly splits the difference in burn-rate between N560 and N570, but is a bit closer to N570. It will cover many of the same cartridges and bullets as the first two, but allows the loader another option in fine tuning a load to the perfect combination. While N565 was tailored specifically for military sniping applications, it also has a wide range of sporting uses, particularly within long range shooting. The N565 will prove to be an ideal choice for calibers such as the 7mm Rem Magnum, the .30-06, .300 Win Mag, .300 Norma Mag as well as the .338 Norma Mag.

N568

N568 is the ideal choice for today's most popular large capacity magnum cartridges, such as the 6.5 PRC, .300 PRC, .300 Winchester Magnum, and .338 Lapua Magnum. N568's slow burning characteristics and short-cut grains provide extremely consistent metering for long range competitive shooters, accuracy enthusiasts, and hunters alike. N568 excels with heavy-for-caliber projectiles and provides exceptional temperature stability and is insensitive to humidity changes. An excellent choice for classic belted magnum cartridges such as 7mm Remington Magnum, .300 RUM, .338 Winchester Magnum and more.

N570

The slowest burning member of the N500 line, N570 is the perfect choice for those tasks requiring heavy bullets and the largest capacity cases. Its burn rate is very close to that of our N170, but will generally provide a bit more velocity in the same cartridges, and using the same bullet weights. The burn-rate characteristics of N570 allow it to deliver the very best possible performance from such cartridges as the 6.5x284, .300 Rem Ultra Mag, and .338 Lapua Magnum.

TABLE OF CONTENTS

| | | | | | |
|---|-------|-----------------------------------|-------|--|---------|
| 100 YEARS OF EXCELLENCE | 2 | 6.5 x 55 SE / 6.5 x 55 SKAN | 49-51 | .50 Browning | 89-90 |
| Vihtavuori RELOAD App Guide | 3-5 | 6.5 -284 Norma | 51-52 | HANDGUN RELOADING DATA | 91 |
| 100 Years of Vihtavuori Powders | 6-9 | .270 WSM | 52 | Disclaimer | 91 |
| N100 Series..... | 10-11 | .270 Winchester | 52-53 | 7mm TCU | 91 |
| N300 Series..... | 12-13 | .270 Weatherby Magnum | 53-54 | 7mm BR Remington..... | 92 |
| N500 Series..... | 14-15 | 7mm - 08 Remington..... | 54-55 | 7mm GJW | 92 |
| PREFACE | 17 | .284 Winchester | 55-56 | 7.62 x 25 Tokarev..... | 92-93 |
| ABOUT THE DATA | 18 | 7 x 57 | 56 | .32 S&W Long N.P..... | 93 |
| Disclaimer | 18 | 7 x 57R | 56-57 | .32 S&W Long Wadcutter..... | 93 |
| How to Use the Data | 18 | 7 x 64 | 57-58 | 9mm Br. C. / .380 Auto | 93-94 |
| Pressure | 18 | 7 x 65R | 58-59 | 9mm Luger / 9x19 mm | 94-96 |
| PROPERTIES AND STORAGE OF SMOKELESS POWDER | 19 | 7mm WSM | 59 | 9 x 23 Winchester..... | 97 |
| How to Check Smokeless Powder | | 7mm Remington Magnum | 60 | .357 SIG..... | 97 |
| for Deterioration | 20 | 7mm Weatherby Magnum..... | 60-61 | .38 Super Auto | 97-98 |
| Considerations for Storage | | 7mm Remington Ultra Magnum | 61 | .38 Special | 98-99 |
| of Smokeless Powder | 20 | .30 Carbine | 61 | .357 Magnum | 99-100 |
| Recommendations for Storage | | .300 AAC Blackout..... | 61-62 | .357 Remington Maximum | 100-101 |
| of Smokeless Powder | 21 | .308 Winchester | 62-67 | .40 S&W..... | 101 |
| RELOADING SAFETY | 22-23 | .30-30 Winchester | 67 | 10mm Auto | 101-102 |
| RIFLE RELOADING DATA | 24 | .300 Savage | 67-68 | .41 Remington Magnum..... | 102 |
| Disclaimer | 24 | 7.62 x 53R (7,62 Russian) | 68-69 | .44 S&W Special..... | 103 |
| .204 Ruger | 24 | 7.5 x 55 Swiss GP31..... | 69 | .44 Remington Magnum..... | 103-104 |
| .22 Hornet..... | 24 | .30-06 Springfield..... | 69-74 | .45 Auto / .45 ACP..... | 104-106 |
| .221 Remington Fireball | 25 | .300 H&H Magnum | 74 | .45 Colt..... | 106 |
| .224 Valkyrie | 25-26 | .300 WSM | 74-75 | .45 Winchester Magnum..... | 106-107 |
| .222 Remington | 26-27 | .300 Norma Magnum | 75 | .454 Casull..... | 107 |
| .223 Remington | 27-30 | .300 PRC..... | 75-76 | .50 AE | 107 |
| .223 WSSM | 30 | .300 Winchester Magnum..... | 77-79 | .500 S&W Magnum..... | 107-108 |
| .22 PPC-USA | 30-31 | .300 Weatherby Magnum | 79 | Personal Loads | 109 |
| .22-250 Remington | 31 | .300 Lapua Magnum | 79 | VIHTAVUORI SMOKELESS LOADS FOR COWBOY ACTION SHOOTING | 110 |
| 6mm PPC-USA | 32 | .300 Remington Ultra Magnum..... | 80 | .38 Special | 111 |
| 6mm BR Norma..... | 32 | .30-.378 Weatherby Magnum | 80-81 | .357 Magnum | 111 |
| 6mm Creedmoor | 32-35 | 7.62 x 39 | 81 | .44 S&W Special..... | 111 |
| .243 WSSM | 35 | .303 British | 81 | .44 Remington Magnum..... | 111 |
| .243 Winchester | 35-37 | 8 x 57 IS (8 mm Mauser) | 82-83 | .45 Colt..... | 111 |
| 6 XC | 37 | 8 x 57 IRS..... | 83 | SHOTGUN RELOADING DATA | 112 |
| 6mm Remington..... | 37-38 | 8 x 68S..... | 83-84 | Lead Shot | 112 |
| .240 Weatherby Magnum | 38 | .338 Winchester Magnum..... | 84 | Steel Shot Nickel Plated | 113 |
| .25-06 Remington | 38-39 | .338 Lapua Magnum | 84-85 | Personal Loads | 114-115 |
| 6.5mm Grendel | 39-40 | 9.3 x 62 | 85-86 | Package Info | 117 |
| 6.5 x 47 Lapua | 40-41 | 9.3 x 66 Sako | 86-87 | BURNING RATE CHART | 118 |
| 6.5 Creedmoor | 41-43 | 9.3 x 74R | 87 | VIHTAVUORI WORLDWIDE DISTRIBUTORS | 119 |
| 6.5 PRC..... | 43-44 | .375 H&H Magnum | 87-88 | | |
| .260 Remington | 44-46 | .416 Rigby..... | 88 | | |
| 6.5 x 55 Swedish Mauser..... | 46-48 | .444 Marlin | 88 | | |
| | | .45-70 Government..... | 89 | | |
| | | .458 Winchester Magnum..... | 89 | | |

PREFACE

Dear Vihtavuori customer,

The new Vihtavuori Reloading Guide 2022 is an updated version of the previous Vihtavuori Reloading Guides.

The contents of this updated issue has been revised with loading data for the following calibers:

Centerfire rifle

New calibers: 6.5 PRC, .300 PRC
Updated data: .243 Winchester, 6,5 Creedmoor, .260 Remington, .270 Winchester, .308 Winchester, .30-06 Springfield, .300 Winchester Magnum, 8 x 57 IS (8 mm Mauser), 8 x 68 S, .338 Lapua Magnum, 9,3 x 62

Centerfire handgun

Updated data: 9 mm Luger / 9x19 mm, .357 Magnum, 10 mm AUTO, .45 Auto / .45 ACP

New powder

N568

The now published new rifle and pistol reloading data is expanding and revising the powder selection for existing bullets.

As a courtesy to the reloader the load tables contain notes of compressed loads and loads to fill the case up. For flexible usage this guide features data in metric and imperial dimension systems i.e. charge weight in grams and grains as well as muzzle velocity in meters and feet per second. This reloading guide also includes the accuracy loads noted in the load tables. These loads utilize worldwide well-known Lapua cartridge components and are factory tested either for even pressure / muzzle velocity and accuracy. These loads are highlighted in the load tables with an letter A.

All the loads in this guide are pressure tested according to the C.I.P. method. The maximum loads given in the tables are determined according to the C.I.P. and SAAMI maximum pressure specifications. The listed maximum loads should never be exceeded. Due to the differences in the cartridge components, individual weapons, shooting temperatures etc., always start developing your load by using the starting load according to the loading data. If there is no indication of the starting load, use 15 % lower charge than the listed maximum load as your starting load.

The Vihtavuori powders are manufactured by Nammo Vihtavuori Oy at the Vihtavuori plants. Sales and marketing of the reloading powders is carried out by Nammo Lapua Oy and Nammo Vihtavuori Oy. The contact details of Vihtavuori customer service and a listing of Vihtavuori Distributors can be found at the end of this guide. For latest updates of data and distributors check also **vihtavuori.com**, where this guide can also be downloaded in PDF format. Check also Apple App Store and Google Play store for the **Vihtavuori RELOAD app**. Latest reloading information and the possibility to save your own reloading recipes, at hand everywhere you go.

We wish you successful reloading with Vihtavuori powders.



VIHTAVUORI

ABOUT THE DATA

Disclaimer

As Nammo Vihtavuori Oy has no control over improper storage, handling, loading or use of our powders after they have left the factory, we make no warranty of any kind, either expressed or implied, limited or full. We specifically disclaim all warranties of fitness for a particular purpose and merchantability. We specifically disclaim all liability for consequential damages of any kind whatsoever, whether or not due to seller's negligence or based on strict product liability or principle of indemnity or contribution, Nammo Vihtavuori Oy neither assumes nor authorizes any person to assume for it any liability in connection with the use of this product.

How to Use the Data

Our rifle and handgun data listings generally contain maximum charges which are not to be exceeded. In some instances starting loads are also listed. Currently this booklet contains all of the data we can supply. Be certain you use the correct data and the specific bullet weight shown.

By staying 5 % below the maximum powder charge weight, pressures will be reduced by about 10 % while velocities will be only about 3 % lower than listed.

Caution: When loading handgun cartridges it is vital to maintain the minimum cartridge overall length (C.O.L.) listed in the tables. Shorter overall lengths may double chamber pressures. Longer lengths are permissible so long as the functioning of the handgun will not be impaired.

The data in the loading tables were obtained at an ambient temperature of 68 degrees Fahrenheit and relative humidity of 55 %. The values obtained were under carefully controlled conditions and may vary from those obtained with your firearm, specific component lots, loading dimensions, and loading procedures. The maximum charges must NEVER be exceeded. **Start loading with the starting load according to the loading data. If there is no indication of the starting load, use 15 % lower charge than the listed maximum.** When loading cartridges for which the listed charge is 10 grains or less, after firing 10 rounds at the minimum weight (15 % below maximum), increase charge weights by 0.2 grains and fire another 10 rounds. Repeat this procedure, if necessary, until you reach, but do not exceed,

the maximum listed charge. The same process is followed for heavier charges except that charge weights from 11 to 25 grains use increments of 0.5 grains. For charges over 25 grains increments of 1.0 grains will be correct.

If even a single test round shows signs of excessive pressure discontinue the use of the load. Do not fire even a single additional cartridge. Seek qualified help before proceeding! The traditional sign of overpressure is a flattened primer. When flattened primers start to occur, it is a definite warning that the charge should be reduced, quickly. Brass getting into the ejector and extractor cavities is a worse case. Blown out primers are worse still. If a case ruptures it may be a sign of a defective case or a truly lethal chamber pressure.

In case of overpressure signs it is wiser to back off, to be safe rather than sorry. Why risk potentially fatal injury? Better to stop shooting and immediately discard all such reloads.

Read also the Reloading Safety Rules on pages 16 and 17.

Pressure

There are numerous factors which can change the ballistic performance of a load even when the data is followed exactly. For example: The internal dimensions of a firearm can vary greatly even between two of the same make and model. Pressures can vary to extremes as different firearms are used. Each change in brand and even within different lots of a specific brand component can cause notable ballistic changes. Too, changes in ambient temperature can also cause ballistic altering pressures. Not every bullet of a given diameter and weight will produce alike pressure. Changes in case brand can also effect ballistics. There are numerous other causes of varying pressure levels.

Therefore it is essential that the reloader be well versed in the methods of carefully working up a reload powder charge in small increments as outlined in the various reloading handbooks that are available from reliable sources. The data in this book is not intended for use by persons not thoroughly versed in such procedures.

This guide should be supplemented by a good recognized reloading handbook that offers all appropriate information.

PROPERTIES AND STORAGE OF SMOKELESS POWDER

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

Smokeless powders are made in three forms:

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

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

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

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

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

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

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

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

In this respect smokeless powder differs from blasting agents or high explosives such as dynamite or blasting gelatin,

although smokeless powder may contain chemical ingredients common to some of these products.

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

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

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

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

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

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

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

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

PROPERTIES AND STORAGE OF SMOKELESS POWDER

How to Check Smokeless Powder for Deterioration

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

Powder deterioration can be checked by opening the cap on the container and smelling the contents.

Powder undergoing deterioration has an irritating acidic odor. (Don't confuse this with common solvent odors such as alcohol, ether and acetone).

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

Never salvage powder from old cartridges and do not attempt to blend salvaged powder with new powder. Don't accumulate old powder stocks. The best way to dispose of deteriorated smokeless powder is to burn it out in the open at an isolated location in small shallow piles (not over 1" deep). The quantity burned in any one pile should never exceed one pound. Use an ignition train of slow burning combustible material so that the person may retreat to a safe distance before powder is ignited.

Considerations for Storage of Smokeless Powder

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

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

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

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

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

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

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

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

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

PROPERTIES AND STORAGE OF SMOKELESS POWDER

Recommendations for Storage of Smokeless Powder

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

DO NOT STORE SMOKELESS POWDER IN THE SAME AREA WITH SOLVENTS, FLAMMABLE GASES OR HIGHLY COMBUSTIBLE MATERIALS. STORE ONLY IN DEPARTMENT OF TRANSPORTATION APPROVED CONTAINERS.

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

DO NOT SMOKE IN AREAS WHERE POWDER IS STORED OR USED. Place appropriate "NO SMOKING" signs in these areas. THE STORAGE CABINETS SHOULD BE CONSTRUCTED OF INSULATING MATERIALS AND WITH A WEAK WALL, SEAMS OR JOINTS TO PROVIDE AN EASY MEANS OF SELFVENTING.

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

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

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

The above information has been provided with permission from SAAMI: SPORTING ARMS AND AMMUNITION MANUFACTURERS' INSTITUTE, INC. P.O. Box 838, Branford, CT 06405.

RELOADING SAFETY

Reloading is an enjoyable and rewarding hobby that is easily conducted with safety. But like many other human endeavours, carelessness or negligence can make reloading hazardous. The essence of reloading safety is proper handling and storage of primers and powder. As important is strict following of the instructions given by the manufacturers of the reloading equipment as well as the reloading components.

Before you get started, read the safety rules below and keep them in mind whenever reloading. Attention paid to detail and patience ensures safety and quality!

- Reload only when you can give it your undivided attention. **Do not reload**, when fatigued or ill. Develop your own reloading routine to avoid mistakes. Avoid haste, load at a leisurely place and keep in mind that **absolutely no reloading under the influence of alcohol or drugs!**

- Always wear proper eye protection. It is an unnecessary risk to reload without safety glasses.

- Store powder and primers out of reach of children and away from heat and open fire. **Follow the manufacturer's instructions on your powder canister. Never smoke during a reloading session!**

- Keep no more powder than needed available. Immediately return the unused powder to its original factory container to preserve its identity and usable life time.

- Do not use any powder unless its identity is positively known. Scrap all unidentified powders according to the manufacturer's instructions on your powder canister. **Keep in mind that the trial-and-error method may lead to serious injury!**

- **Do not store primers in bulk! Doing so will create a bomb!** Bulk primers will very likely mass detonate. The blast of a few hundred primers corresponds to a hand grenade in a room! Do not force primers in any circumstances. Take special care when filling and handling auto primer feed tubes. Keep primers in their original factory packing until used. Return unused primers to their original packing.

- Do not use primers if their identity is lost. Discard them according to the manufacturer's instructions.

- Start loading with the starting load according to the loading data. If there is no indication of the starting load, use 15 % lower charge than the listed maximum load. Increase the charge using small steps watching for overpressure signs from the primer and the case head at each step. **If you detect overpressures immediately stop shooting and reduce the charge. Immediately disassemble the defective cartridges. NEVER EXCEED THE MAXIMUM LOADS!**

- Check visually the powder level in the cases so you are absolutely sure that you have no double powder charge. When a double powder charge is fired it may result in a gun damage, personal injury, even death.

- If you change the lot of any component or if you change any of the components of your reload, you must develop your load from the starting load again. A different component as well as a component from a different manufacturing lot may cause changes in cartridge pressure.

- You must absolutely follow the given cartridge overall lengths (C.O.L.) according to the reloading tables. The change in the bullet seating depth has a significant influence on the cartridge pressure.

- Never reduce loads under the listed starting load.

- Keep your reloading bench in good order. Clean up spilled powder and primers promptly and completely. Remember that the reloading bench is not a temporary store for other tools, used car spare parts etc.

- Use your reloading equipment according to the manufacturer's recommendations. Study the instructions carefully and don't hesitate to ask, if you don't understand everything.

- Be safe, be conscientious!

RELOADING SAFETY

Lead Exposure

A continuous lead exposure has been found out to create lead accumulation to living bodies, specially to the nervous system causing little by little serious physical impairment. Some unused reloading components as well as fired cases can contain lead or lead compounds, it is possible to a reloader to get exposed during reloading. Primers and bullets contain lead and it may be present as a residue in fired cartridge cases, too.

There are different ways lead may enter the body. However, the two most common are considered to be the mouth and the breathing. Therefore with simple precautions described underneath the possible lead exposure and its dangerous consequences can be avoided.

- **WASH YOUR HANDS** thoroughly with warm water and soap after shooting or reloading.

- **DO NOT EAT OR DRINK** during a reloading session. When handling fired cartridge cases the residual containing lead most likely gets to your hands. Therefore eating something requiring a straight hand contact during a reloading session hazards the reloader to lead exposure. Keep your hands away from your nose or your mouth during a reloading session.

- **KEEP GOOD HOUSEHOLD AT YOUR RELOADING SITE.** Regular cleaning prevents the accumulation of residuals. Use a damp cloth or mop to clean up the reloading bench as well as the floor underneath. **DO NOT USE A VACUUM CLEANER!** The use of it poses a potential risk of exposure due to the spilled powder it collects up. Furthermore, an ordinary vacuum cleaner more spreads than collects the dust containing residuals.. Do not use any carpet at your reloading site. Carpet is hard to keep dust-free and it can create static electricity that can accidentally fire a primer.

- **PROTECT YOUR BREATHING AGAINST THE DUST IN THE RELOADING AREA.** When using a dry tumbling media in cleaning the cartridge cases, keep in mind that the lead residue from the fired cases moves to the tumbling media, where it accumulates by use. Wear always a dust mask when pouring the dry cleaning media out of the tumbler and be careful not to spill the media on your reloading bench.

RIFLE RELOADING DATA

Disclaimer

All of this reloading information has been provided by Nammo Lapua Oy and Nammo Vihtavuori Oy. The data given here were obtained in laboratory conditions following strictly the CIP (Commission International Permanente) June 13, 1990 and November 9, 1993 rules. The listed maximum loads have been determined according to the respective CIP/SAAMI maximum pressure specification, whichever is lower.

These test methods have been deemed to be safe throughout the world. Pressure is measured at the case mouth or from inside the case according to the CIP.

DO NOT ATTEMPT ANY EXTRAPOLATIONS. PLEASE FOLLOW THE DATA AS WRITTEN. IT IS A MUST FOR EVERY RELOADER TO READ THE RELOADING SAFETY RULES ON THE PAGES 16 AND 17 OF THIS GUIDE.

.204 Ruger

| | |
|--------------|---|
| Test barrel: | 630 mm (24¾"), 1 in 12" twist |
| Primers: | Small Rifle |
| Cases: | Hornady, trim-to length 46,80 mm (1.843") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|---------|------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 2,1 | 32 | Sierra | Blitz King | 57,1 | 2.248 | N130 | 1,48 | 22.8 | 1106 | 3629 | 1,62 | 25.0 | 1213 | 3980 |
| | | | | | | N530 | 1,56 | 24.1 | 1070 | 3510 | 1,75 | 27.0 | 1225 | 4019 |
| | | | | | | N135 | 1,59 | 24.5 | 1112 | 3648 | 1,75 | 27.0 | 1228 | 4029 |
| 2,6 | 40 | Hornady | V-Max | 57,1 | 2.248 | N133 | 1,50 | 23.1 | 1011 | 3317 | 1,64 | 25.3 | 1127 | 3698 |
| | | | | | | N530 | 1,50 | 23.1 | 1013 | 3323 | 1,67 | 25.8 | 1236 | 4055 |
| | | | | | | N140 | 1,70 | 26.2 | 1027 | 3369 | 1,82 | 28.1 | 1105 | 3625 |
| 3,2 | 50 | Berger | HPBT | 57,1 | 2.248 | N133 | 1,40 | 21.6 | 857 | 2812 | 1,54 | 23.8 | 948 | 3110 |
| | | | | | | N530 | 1,43 | 22.1 | 866 | 2841 | 1,56 | 24.1 | 965 | 3166 |
| | | | | | | N140 | 1,57 | 24.2 | 884 | 2900 | 1,76 | 27.2 | 991 | 3251 |

.22 Hornet

| | |
|--------------|--|
| Test barrel: | 600 mm (23½"), 1 in 16" twist |
| Primers: | Small Rifle |
| Cases: | Sako, trim-to length 35,40 mm (1.394") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|-------|-------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 2,6 | 40 | Speer | Spire Point | 43,5 | 1.713 | N110 | 0,52 | 8.0 | 713 | 2338 | 0,65 | 10.1 | 813 | 2668 |
| 2,9 | 45 | Speer | Spitzer | 43,5 | 1.713 | N110 | 0,48 | 7.3 | 654 | 2144 | 0,60 | 9.3 | 746 | 2448 |
| 3,2 | 50 | Speer | Spitzer | 43,5 | 1.713 | N110 | 0,47 | 7.3 | 609 | 1997 | 0,56 | 8.7 | 693 | 2274 |
| | | | | | | N120 | 0,62 | 9.5 | 612 | 2008 | 0,74 | 11.3 | 724 | 2375 |
| 3,6 | 55 | Speer | Spitzer | 43,5 | 1.713 | N110 | 0,41 | 6.4 | 561 | 1841 | 0,53F | 8.2F | 644 | 2111 |
| | | | | | | N120 | 0,58 | 9.0 | 574 | 1884 | 0,69 | 10.6 | 679 | 2229 |

F = Case full

.221 Remington Fireball

| | |
|--------------|---|
| Test barrel: | 356 mm (14"), 1 in 12" twist |
| Primers: | Small Rifle |
| Cases: | Lapua, trim-to length 35,40 mm (1.394") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|--------|------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 2,6 | 40 | Sierra | Blitz King | 46,5 | 1.831 | N120 | 1,06 | 16.4 | 876 | 2874 | 1,12 | 17.3 | 924 | 3031 |
| | | | | | | N130 | 1,18 | 18.2 | 879 | 2884 | 1,25F | 19.3F | 931 | 3054 |
| 3,4 | 52 | Sierra | MatchKing | 46,5 | 1.831 | N120 | 0,96 | 14.8 | 775 | 2543 | 1,05 | 16.2 | 806 | 2644 |
| | | | | | | N130 | 1,00 | 15.4 | 713 | 2339 | 1,12 | 17.3 | 814 | 2671 |
| | | | | | | N133 | 1,20 | 18.5 | 793 | 2602 | 1,25F | 19.3F | 823 | 2700 |
| 3,6 | 55 | Lapua | FMJ | 46,5 | 1.831 | N120 | 0,92 | 14.2 | 732 | 2402 | 1,00 | 15.4 | 779 | 2556 |
| | | | | | | N130 | 1,00 | 15.4 | 748 | 2454 | 1,07 | 16.5 | 792 | 2598 |
| | | | | | | N133 | 1,18 | 18.2 | 774 | 2539 | 1,22F | 18.8F | 798 | 2618 |
| 3,6 | 55 | Lapua | Soft Point | 46,5 | 1.831 | N120 | 0,86 | 13.3 | 718 | 2356 | 1,00 | 15.4 | 778 | 2552 |
| | | | | | | N130 | 1,06 | 16.4 | 752 | 2467 | 1,13 | 17.4 | 796 | 2612 |
| | | | | | | N133 | 1,18 | 18.2 | 764 | 2507 | 1,25F | 19.3F | 807 | 2648 |

F = Case full

.224 Valkyrie

| | |
|--------------|--|
| Test barrel: | 610 mm (24"), 1 in 7" twist |
| Primers: | Small Rifle, Remington 7 1/2 BR |
| Cases: | Starline, trim-to length 40,39 mm (1.590") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|---------|--------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 3,4 | 53 | Hornady | V-Max | 56,0 | 2.205 | N133 | 1,48 | 22.8 | 921 | 3022 | 1,60 | 24.7 | 984 | 3228 |
| | | | | | | N135 | 1,55 | 23.9 | 933 | 3061 | 1,68 | 25.9 | 1000 | 3281 |
| | | | | | | N140 | 1,67 | 25.8 | 945 | 3100 | 1,81 | 27.9 | 1011 | 3317 |
| 4,2 | 65 | Sierra | SBT | 54,5 | 2.146 | N133 | 1,33 | 20.5 | 816 | 2677 | 1,45 | 22.4 | 872 | 2861 |
| | | | | | | N135 | 1,37 | 21.1 | 816 | 2677 | 1,53 | 23.6 | 883 | 2897 |
| | | | | | | N140 | 1,52 | 23.5 | 847 | 2779 | 1,66 | 25.6 | 908 | 2979 |
| | | | | | | N540 | 1,58 | 24.4 | 867 | 2844 | 1,72 | 26.5 | 930 | 3051 |
| | | | | | | N150 | 1,52 | 23.5 | 847 | 2779 | 1,68 | 25.9 | 911 | 2989 |
| | | | | | | N550 | 1,71 | 26.4 | 879 | 2884 | 1,83 | 28.2 | 942 | 3091 |
| 4,5 | 69 | Lapua | OTM Scenar-L | 54,4 | 2.142 | N133 | 1,32 | 20.4 | 796 | 2612 | 1,43 | 22.1 | 851 | 2792 |
| | | | | | | N530 | 1,35 | 20.8 | 795 | 2608 | 1,48 | 22.8 | 871 | 2858 |
| | | | | | | N135 | 1,44 | 22.2 | 824 | 2703 | 1,53 | 23.6 | 877 | 2877 |
| | | | | | | N140 | 1,55 | 23.9 | 835 | 2740 | 1,65 | 25.5 | 889 | 2917 |
| | | | | | | N540 | 1,56 | 24.1 | 839 | 2753 | 1,62 | 25.0 | 885 | 2904 |
| | | | | | | N150 | 1,50 | 23.1 | 810 | 2657 | 1,65A | 25.5A | 882 | 2894 |
| | | | | | | N550 | 1,68 | 25.9 | 840 | 2756 | 1,76 | 27.2 | 893 | 2930 |
| 4,5 | 69 | Sierra | MatchKing | 54,8 | 2.157 | N133 | 1,33 | 20.5 | 817 | 2680 | 1,45 | 22.4 | 860 | 2822 |
| | | | | | | N135 | 1,45 | 22.4 | 833 | 2733 | 1,52 | 23.5 | 871 | 2858 |
| | | | | | | N140 | 1,58 | 24.4 | 845 | 2772 | 1,70 | 26.2 | 903 | 2963 |
| | | | | | | N540 | 1,60 | 24.7 | 854 | 2802 | 1,70 | 26.2 | 911 | 2989 |
| | | | | | | N150 | 1,58 | 24.4 | 848 | 2782 | 1,70A | 26.2A | 904 | 2966 |
| | | | | | | N550 | 1,70 | 26.2 | 846 | 2776 | 1,82C | 28.1C | 909 | 2982 |
| 4,5 | 70 | Hornady | GMX | 55,8 | 2.197 | N135 | 1,32 | 20.4 | 760 | 2493 | 1,44 | 22.2 | 824 | 2703 |
| | | | | | | N140 | 1,42 | 21.9 | 781 | 2562 | 1,56 | 24.1 | 849 | 2785 |
| | | | | | | N150 | 1,38 | 21.3 | 753 | 2470 | 1,52 | 23.5 | 819 | 2687 |
| | | | | | | N550 | 1,55 | 23.9 | 798 | 2618 | 1,66 | 25.6 | 856 | 2808 |
| 5,0 | 77 | Lapua | OTM Scenar-L | 55,5 | 2.185 | N135 | 1,30 | 20.1 | 747 | 2451 | 1,42 | 21.9 | 800 | 2625 |
| | | | | | | N140 | 1,43 | 22.1 | 767 | 2516 | 1,54 | 23.8 | 819 | 2687 |
| | | | | | | N540 | 1,50 | 23.1 | 798 | 2618 | 1,56 | 24.1 | 837 | 2746 |
| | | | | | | N150 | 1,45 | 22.4 | 775 | 2543 | 1,53 | 23.6 | 817 | 2680 |

| .224 Valkyrie | | | | | | cont. | | | | | | | | |
|---------------------------------------|-------|---------|--------------------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N550 | 1,57 | 24.2 | 783 | 2569 | 1,70 | 26.2 | 846 | 2776 |
| 5,2 | 80 | Berger | VLD Target | 57,4 | 2.260 | N135 | 1,30 | 20.1 | 738 | 2421 | 1,41 | 21.8 | 781 | 2562 |
| | | | | | | N140 | 1,40 | 21.6 | 755 | 2477 | 1,52 | 23.5 | 806 | 2644 |
| | | | | | | N540 | 1,45 | 22.4 | 772 | 2533 | 1,56 | 24.1 | 831 | 2726 |
| | | | | | | N150 | 1,35 | 20.8 | 750 | 2461 | 1,52 | 23.5 | 802 | 2631 |
| | | | | | | N550 | 1,57 | 24.2 | 791 | 2595 | 1,69 | 26.1 | 849 | 2785 |
| 5,5 | 85.5 | Berger | Long Range Hybrid Target | 57,4 | 2.260 | N135 | 1,35 | 20.8 | 737 | 2418 | 1,40 | 21.6 | 758 | 2487 |
| | | | | | | N140 | 1,44 | 22.2 | 747 | 2451 | 1,55 | 23.9 | 794 | 2605 |
| | | | | | | N540 | 1,48 | 22.8 | 756 | 2480 | 1,56 | 24.1 | 808 | 2651 |
| | | | | | | N150 | 1,45 | 22.4 | 749 | 2457 | 1,54 | 23.8 | 790 | 2592 |
| | | | | | | N550 | 1,60 | 24.7 | 779 | 2556 | 1,68 | 25.9 | 825 | 2707 |
| 5,7 | 88 | Hornady | ELD Match | 57,4 | 2.260 | N530 | 1,30 | 20.1 | 714 | 2343 | 1,40 | 21.6 | 769 | 2523 |
| | | | | | | N135 | 1,31 | 20.2 | 710 | 2329 | 1,40 | 21.6 | 751 | 2464 |
| | | | | | | N140 | 1,38 | 21.3 | 714 | 2343 | 1,52 | 23.5 | 779 | 2556 |
| | | | | | | N540 | 1,45 | 22.4 | 739 | 2425 | 1,58 | 24.4 | 803 | 2635 |
| | | | | | | N150 | 1,42 | 21.9 | 725 | 2379 | 1,55 | 23.9 | 780 | 2559 |
| | | | | | | N550 | 1,55 | 23.9 | 752 | 2467 | 1,66 | 25.6 | 810 | 2657 |
| | | | | | | N555 | 1,65 | 25.5 | 733 | 2405 | 1,70C | 26.2C | 754 | 2474 |
| 5,8 | 90 | Berger | VLD Target | 57,4 | 2.260 | N135 | 1,35 | 20.8 | 713 | 2339 | 1,39 | 21.5 | 734 | 2408 |
| | | | | | | N140 | 1,40 | 21.6 | 710 | 2329 | 1,51 | 23.3 | 767 | 2516 |
| | | | | | | N540 | 1,45 | 22.4 | 742 | 2434 | 1,54 | 23.8 | 786 | 2579 |
| | | | | | | N150 | 1,40 | 21.6 | 715 | 2346 | 1,52 | 23.5 | 769 | 2523 |
| | | | | | | N550 | 1,56 | 24.1 | 747 | 2451 | 1,64 | 25.3 | 798 | 2618 |
| A = Accuracy load C = Compressed load | | | | | | | | | | | | | | |

| | | |
|---------------------------|--------------|---|
| <div>.222 Remington</div> | Test barrel: | 580 mm (23"), 1 in 14" twist |
| | Primers: | Small Rifle |
| | Cases: | Lapua, trim-to length 43,00 mm (1.693") |
| | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|---------|----------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 2,3 | 35 | Hornady | V-Max | 52,0 | 2.047 | N110 | 0,93 | 14.4 | 986 | 3235 | 1,20 | 18.5 | 1109 | 3638 |
| | | | | | | N120 | 1,31 | 20.2 | 1036 | 3399 | 1,41 | 21.8 | 1128 | 3701 |
| | | | | | | N130 | 1,44 | 22.2 | 1053 | 3455 | 1,55 | 23.9 | 1137 | 3730 |
| 2,6 | 40 | Sierra | Blitz King | 54,0 | 2.126 | N110 | 0,92 | 14.2 | 942 | 3091 | 1,12 | 17.3 | 1056 | 3465 |
| | | | | | | N120 | 1,32 | 20.4 | 922 | 3025 | 1,43 | 22.1 | 1004 | 3294 |
| | | | | | | N130 | 1,38 | 21.3 | 997 | 3271 | 1,45 | 22.4 | 1057 | 3468 |
| 2,9 | 45 | Sierra | Soft Point | 54,0 | 2.126 | N120 | 1,22 | 18.8 | 926 | 3038 | 1,35 | 20.8 | 1021 | 3350 |
| | | | | | | N130 | 1,34 | 20.7 | 951 | 3120 | 1,46 | 22.5 | 1034 | 3392 |
| | | | | | | N133 | 1,43 | 22.1 | 944 | 3097 | 1,56F | 24.1F | 1021 | 3350 |
| 3,2 | 50 | Hornady | SPSX | 53,0 | 2.087 | N120 | 1,20 | 18.5 | 896 | 2940 | 1,30 | 20.1 | 964 | 3163 |
| | | | | | | N130 | 1,30 | 20.1 | 912 | 2992 | 1,39 | 21.5 | 986 | 3235 |
| | | | | | | N133 | 1,38 | 21.3 | 908 | 2979 | 1,49 | 23.0 | 979 | 3212 |
| 3,2 | 50 | Lapua | Naturalis N566 | 53,0 | 2.087 | N120 | 1,09 | 16.8 | 868 | 2848 | 1,23 | 19.0 | 944 | 3097 |
| | | | | | | N130 | 1,21 | 18.7 | 886 | 2907 | 1,31 | 20.2 | 955 | 3133 |
| | | | | | | N133 | 1,33 | 20.5 | 906 | 2972 | 1,43 | 22.1 | 982 | 3222 |
| | | | | | | N530 | 1,35 | 20.8 | 880 | 2887 | 1,44 | 22.2 | 958 | 3143 |
| 3,3 | 51 | Lapua | HPCE | 54,0 | 2.126 | N120 | 1,18 | 18.2 | 891 | 2923 | 1,30 | 20.1 | 966 | 3169 |
| | | | | | | N130 | 1,28 | 19.8 | 899 | 2949 | 1,38 | 21.3 | 977 | 3205 |
| | | | | | | N133 | 1,37 | 21.1 | 914 | 2999 | 1,50 | 23.1 | 1003 | 3291 |
| 3,4 | 52 | Sierra | HPBT | 54,0 | 2.126 | N120 | 1,16 | 17.9 | 876 | 2874 | 1,27 | 19.6 | 957 | 3140 |
| | | | | | | N130 | 1,28 | 19.8 | 899 | 2949 | 1,38 | 21.3 | 975 | 3199 |
| | | | | | | N133 | 1,37 | 21.1 | 916 | 3005 | 1,50 | 23.1 | 998 | 3274 |

LIGHT GREY TEXT BOX INDICATES MAXIMUM LOAD - USE WITH CAUTION!
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED

| .222 Remington | | | | | | cont. | | | | | | | | |
|----------------|-------|---------|------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 3,6 | 55 | Lapua | FMJ | 54,0 | 2.126 | N120 | 1,15 | 17.7 | 848 | 2782 | 1,27 | 19.6 | 922 | 3025 |
| | | | | | | N130 | 1,26 | 19.4 | 870 | 2854 | 1,36 | 21.0 | 942 | 3091 |
| | | | | | | N133 | 1,36 | 21.0 | 875 | 2871 | 1,47 | 22.7 | 951 | 3120 |
| | | | | | | N135 | 1,38 | 21.3 | 891 | 2923 | 1,50F | 23.1F | 966 | 3169 |
| 3,6 | 55 | Lapua | Soft Point | 53,5 | 2.106 | N120 | 1,19 | 18.4 | 858 | 2815 | 1,27 | 19.6 | 913 | 2995 |
| | | | | | | N130 | 1,26 | 19.4 | 871 | 2858 | 1,34 | 20.7 | 933 | 3061 |
| | | | | | | N133 | 1,35 | 20.8 | 883 | 2897 | 1,47 | 22.7 | 949 | 3114 |
| | | | | | | N135 | 1,40 | 21.6 | 896 | 2940 | 1,50 | 23.1 | 956 | 3136 |
| 3,9 | 60 | Hornady | HP | 54,0 | 2.126 | N120 | 1,07 | 16.5 | 806 | 2644 | 1,20 | 18.5 | 881 | 2890 |
| | | | | | | N130 | 1,21 | 18.7 | 822 | 2697 | 1,31 | 20.2 | 904 | 2966 |
| | | | | | | N133 | 1,30 | 20.1 | 845 | 2772 | 1,40 | 21.6 | 917 | 3009 |
| | | | | | | N135 | 1,33 | 20.5 | 853 | 2799 | 1,48F | 22.8F | 933 | 3061 |
| F = Case full | | | | | | | | | | | | | | |

| | | |
|---------------------------|--------------|---|
| <div>.223 Remington</div> | Test barrel: | 620 mm (25"), 1 in 12" twist |
| | Primers: | Small Rifle |
| | Cases: | Lapua, trim-to length 44,50 mm (1.752") |
| | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|--------|----------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 2,6 | 40 | Speer | Spire Point | 52,7 | 2.075 | N120 | 1,23 | 19.0 | 963 | 3159 | 1,49 | 23.0 | 1118 | 3668 |
| | | | | | | N130 | 1,46 | 22.5 | 1032 | 3386 | 1,65 | 25.5 | 1147 | 3763 |
| | | | | | | N133 | 1,54 | 23.8 | 1037 | 3402 | 1,68F | 25.9F | 1105 | 3625 |
| 2,9 | 45 | Speer | Spitzer | 54,0 | 2.126 | N120 | 1,25 | 19.3 | 933 | 3061 | 1,48 | 22.8 | 1072 | 3517 |
| | | | | | | N130 | 1,44 | 22.2 | 991 | 3251 | 1,62 | 25.0 | 1092 | 3583 |
| | | | | | | N133 | 1,51 | 23.3 | 987 | 3238 | 1,68F | 25.9F | 1091 | 3579 |
| | | | | | | N135 | 1,64 | 25.3 | 1010 | 3314 | 1,68F | 25.9F | 1034 | 3392 |
| 3,2 | 50 | Lapua | Naturalis N566 | 56,0 | 2.205 | N130 | 1,17 | 18.1 | 861 | 2825 | 1,40 | 21.6 | 987 | 3238 |
| | | | | | | N133 | 1,34 | 20.7 | 892 | 2927 | 1,56 | 24.1 | 1017 | 3337 |
| | | | | | | N530 | 1,36 | 21.0 | 888 | 2913 | 1,54 | 23.8 | 1006 | 3301 |
| | | | | | | N135 | 1,42 | 21.9 | 906 | 2972 | 1,66 | 25.6 | 1026 | 3366 |
| 3,2 | 50 | Sierra | Blitzking | 57,4 | 2.260 | N130 | 1,37 | 21.1 | 942 | 3091 | 1,49 | 23.0 | 1023 | 3356 |
| | | | | | | N133 | 1,51 | 23.3 | 968 | 3176 | 1,64 | 25.3 | 1051 | 3448 |
| | | | | | | N530 | 1,50 | 23.1 | 949 | 3114 | 1,64 | 25.3 | 1038 | 3406 |
| | | | | | | N135 | 1,57 | 24.2 | 975 | 3199 | 1,70 | 26.2 | 1058 | 3471 |
| | | | | | | N140 | 1,65 | 25.5 | 951 | 3120 | 1,75C | 27.0C | 1016 | 3333 |
| 3,2 | 50 | Speer | TNT-HP | 57,0 | 2.244 | N120 | 1,25 | 19.3 | 911 | 2989 | 1,47 | 22.7 | 1036 | 3399 |
| | | | | | | N130 | 1,43 | 22.1 | 947 | 3107 | 1,59 | 24.5 | 1046 | 3432 |
| | | | | | | N133 | 1,56 | 24.1 | 990 | 3248 | 1,68F | 25.9F | 1077 | 3533 |
| | | | | | | N135 | 1,65 | 25.5 | 999 | 3278 | 1,68F | 25.9F | 1018 | 3340 |
| 3,3 | 51 | Lapua | HPCE | 57,0 | 2.244 | N120 | 1,23 | 19.0 | 909 | 2982 | 1,37 | 21.1 | 991 | 3251 |
| | | | | | | N130 | 1,35 | 20.8 | 930 | 3051 | 1,51 | 23.3 | 1018 | 3340 |
| | | | | | | N133 | 1,45 | 22.4 | 943 | 3094 | 1,61A | 24.8A | 1033 | 3389 |
| | | | | | | N530 | 1,53 | 23.6 | 963 | 3159 | 1,66 | 25.6 | 1052 | 3451 |
| | | | | | | N135 | 1,54 | 23.8 | 957 | 3140 | 1,68F | 25.9F | 1034 | 3392 |
| 3,4 | 52 | Berger | FB Varmint | 57,4 | 2.260 | N130 | 1,37 | 21.1 | 906 | 2972 | 1,52 | 23.5 | 1009 | 3310 |
| | | | | | | N133 | 1,49 | 23.0 | 929 | 3048 | 1,62 | 25.0 | 1019 | 3343 |
| | | | | | | N530 | 1,53 | 23.6 | 935 | 3068 | 1,67 | 25.8 | 1027 | 3369 |
| | | | | | | N135 | 1,56 | 24.1 | 931 | 3054 | 1,73 | 26.7 | 1028 | 3373 |
| | | | | | | N140 | 1,62 | 25.0 | 909 | 2982 | 1,70 | 26.2 | 959 | 3146 |
| 3,4 | 52 | Sierra | HPBT | 57,0 | 2.244 | N130 | 1,37 | 21.1 | 936 | 3071 | 1,54 | 23.8 | 1028 | 3373 |
| | | | | | | N133 | 1,46 | 22.5 | 948 | 3110 | 1,62 | 25.0 | 1033 | 3389 |
| | | | | | | N135 | 1,54 | 23.8 | 957 | 3140 | 1,66F | 25.6F | 1039 | 3409 |

| .223 Remington | | | | | | cont. | | | | | | | | |
|----------------|-------|---------|-------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 3,4 | 53 | Hornady | V-Max | 57,3 | 2.256 | N130 | 1,35 | 20.8 | 922 | 3025 | 1,47 | 22.7 | 998 | 3274 |
| | | | | | | N133 | 1,48 | 22.8 | 938 | 3077 | 1,60 | 24.7 | 1017 | 3337 |
| | | | | | | N530 | 1,48 | 22.8 | 940 | 3084 | 1,60 | 24.7 | 1010 | 3314 |
| | | | | | | N135 | 1,55 | 23.9 | 955 | 3133 | 1,67 | 25.8 | 1029 | 3376 |
| 3,6 | 55 | Berger | FB Varmint | 57,4 | 2.260 | N130 | 1,34 | 20.7 | 877 | 2877 | 1,49 | 23.0 | 974 | 3196 |
| | | | | | | N133 | 1,45 | 22.4 | 894 | 2933 | 1,60 | 24.7 | 991 | 3251 |
| | | | | | | N530 | 1,50 | 23.1 | 905 | 2969 | 1,63 | 25.2 | 996 | 3268 |
| | | | | | | N135 | 1,54 | 23.8 | 901 | 2956 | 1,70 | 26.2 | 997 | 3271 |
| | | | | | | N140 | 1,60 | 24.7 | 889 | 2917 | 1,72 | 26.5 | 965 | 3166 |
| 3,6 | 55 | Hornady | FMJBT | 57,0 | 2.244 | N120 | 1,21 | 18.7 | 889 | 2917 | 1,34 | 20.7 | 960 | 3150 |
| | | | | | | N130 | 1,41 | 21.8 | 956 | 3136 | 1,52 | 23.5 | 1013 | 3323 |
| | | | | | | N133 | 1,43 | 22.1 | 928 | 3045 | 1,59 | 24.5 | 1006 | 3301 |
| | | | | | | N530 | 1,50 | 23.1 | 941 | 3087 | 1,62 | 25.0 | 1022 | 3353 |
| | | | | | | N135 | 1,51 | 23.3 | 938 | 3077 | 1,66 | 25.6 | 1017 | 3337 |
| | | | | | | N140 | 1,60 | 24.7 | 930 | 3051 | 1,74 | 26.8 | 1019 | 3343 |
| 3,6 | 55 | Hornady | V-Max | 57,4 | 2.260 | N130 | 1,32 | 20.4 | 857 | 2812 | 1,49 | 23.0 | 965 | 3166 |
| | | | | | | N133 | 1,39 | 21.5 | 848 | 2782 | 1,62 | 25.0 | 982 | 3222 |
| | | | | | | N530 | 1,49 | 23.0 | 892 | 2927 | 1,64 | 25.3 | 994 | 3261 |
| | | | | | | N135 | 1,52 | 23.5 | 884 | 2900 | 1,70 | 26.2 | 979 | 3212 |
| | | | | | | N140 | 1,64 | 25.3 | 884 | 2900 | 1,72 | 26.5 | 928 | 3045 |
| 3,6 | 55 | Lapua | FMJ | 57,0 | 2.244 | N120 | 1,21 | 18.7 | 876 | 2874 | 1,35 | 20.8 | 953 | 3127 |
| | | | | | | N130 | 1,33 | 20.5 | 895 | 2936 | 1,50 | 23.1 | 985 | 3232 |
| | | | | | | N133 | 1,43 | 22.1 | 911 | 2989 | 1,59 | 24.5 | 999 | 3278 |
| | | | | | | N530 | 1,51 | 23.3 | 931 | 3054 | 1,64 | 25.3 | 1015 | 3330 |
| | | | | | | N135 | 1,51 | 23.3 | 927 | 3041 | 1,68F | 25.9F | 999 | 3278 |
| | | | | | | N140 | 1,61 | 24.8 | 917 | 3009 | 1,77F | 27.3F | 1004 | 3294 |
| 3,6 | 55 | Lapua | Soft Point | 56,5 | 2.224 | N120 | 1,09 | 16.8 | 820 | 2690 | 1,31 | 20.2 | 939 | 3081 |
| | | | | | | N130 | 1,21 | 18.7 | 857 | 2812 | 1,42 | 21.9 | 959 | 3146 |
| | | | | | | N133 | 1,36 | 21.0 | 876 | 2874 | 1,56 | 24.1 | 980 | 3215 |
| | | | | | | N530 | 1,44 | 22.2 | 891 | 2923 | 1,61 | 24.8 | 995 | 3264 |
| | | | | | | N135 | 1,43 | 22.1 | 899 | 2949 | 1,64F | 25.3F | 1004 | 3294 |
| | | | | | | N140 | 1,57 | 24.2 | 915 | 3002 | 1,74F | 26.9F | 1014 | 3327 |
| 3,9 | 60 | Berger | FB Varmint | 57,4 | 2.260 | N133 | 1,39 | 21.5 | 848 | 2782 | 1,57 | 24.2 | 947 | 3107 |
| | | | | | | N530 | 1,45 | 22.4 | 860 | 2822 | 1,58 | 24.4 | 962 | 3156 |
| | | | | | | N135 | 1,49 | 23.0 | 860 | 2822 | 1,67 | 25.8 | 957 | 3140 |
| | | | | | | N140 | 1,55 | 23.9 | 859 | 2818 | 1,70 | 26.2 | 935 | 3068 |
| | | | | | | N540 | 1,61 | 24.8 | 883 | 2897 | 1,76 | 27.2 | 981 | 3219 |
| 3,9 | 60 | Hornady | HP | 57,0 | 2.244 | N130 | 1,33 | 20.5 | 874 | 2867 | 1,50 | 23.1 | 967 | 3173 |
| | | | | | | N133 | 1,43 | 22.1 | 888 | 2913 | 1,60 | 24.7 | 978 | 3209 |
| | | | | | | N135 | 1,50 | 23.1 | 893 | 2930 | 1,67 | 25.8 | 976 | 3202 |
| | | | | | | N140 | 1,62 | 25.0 | 895 | 2936 | 1,74F | 26.8F | 965 | 3166 |
| 4,0 | 62 | Barnes | TAC-X BT | 57,4 | 2.260 | N133 | 1,34 | 20.7 | 832 | 2730 | 1,50 | 23.1 | 904 | 2966 |
| | | | | | | N530 | 1,40 | 21.6 | 821 | 2694 | 1,58 | 24.4 | 945 | 3100 |
| | | | | | | N135 | 1,36 | 21.0 | 798 | 2618 | 1,63 | 25.2 | 931 | 3054 |
| | | | | | | N140 | 1,52 | 23.5 | 821 | 2694 | 1,70 | 26.2 | 924 | 3031 |
| | | | | | | N540 | 1,55 | 23.9 | 840 | 2756 | 1,76 | 27.2 | 963 | 3159 |
| 4,0 | 62 | Speer | FMJBT | 57,4 | 2.260 | N530 | 1,43 | 22.1 | 861 | 2825 | 1,56 | 24.1 | 953 | 3127 |
| | | | | | | N135 | 1,43 | 22.1 | 852 | 2795 | 1,60 | 24.7 | 942 | 3091 |
| | | | | | | N140 | 1,62 | 25.0 | 901 | 2956 | 1,70F | 26.2F | 943 | 3094 |
| 4,0 | 62 | Swift | Scirocco II | 57,4 | 2.260 | N530 | 1,37 | 21.1 | 811 | 2661 | 1,54 | 23.8 | 909 | 2982 |
| | | | | | | N135 | 1,36 | 21.0 | 784 | 2572 | 1,58 | 24.4 | 906 | 2972 |
| | | | | | | N140 | 1,52 | 23.5 | 804 | 2638 | 1,73 | 26.7 | 919 | 3015 |
| | | | | | | N540 | 1,54 | 23.8 | 829 | 2720 | 1,72 | 26.5 | 941 | 3087 |
| 4,2 | 65 | Sierra | SBT | 57,0 | 2.244 | N130 | 1,23 | 19.0 | 819 | 2687 | 1,36 | 21.0 | 892 | 2927 |

LIGHT GREY TEXT BOX INDICATES MAXIMUM LOAD - USE WITH CAUTION!
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED

| .223 Remington | | | | | | cont. | | | | | | | | |
|----------------|-------|---------|----------------------|--------------------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N133 | 1,34 | 20.7 | 833 | 2733 | 1,47 | 22.7 | 911 | 2989 |
| | | | | | | N135 | 1,40 | 21.6 | 843 | 2766 | 1,54 | 23.8 | 922 | 3025 |
| | | | | | | N140 | 1,54 | 23.8 | 856 | 2808 | 1,66 | 25.6 | 931 | 3054 |
| | | | | | | N540 | 1,52 | 23.5 | 844 | 2769 | 1,66 | 25.6 | 932 | 3058 |
| 4,5 | 69 | Lapua | Scenar ¹⁾ | 57,4 | 2.260 | N133 | 1,31 | 20.2 | 789 | 2589 | 1,42 | 21.9 | 849 | 2785 |
| | | | | | | N530 | 1,37 | 21.1 | 809 | 2654 | 1,47 | 22.7 | 869 | 2851 |
| | | | | | | N135 | 1,37 | 21.1 | 796 | 2612 | 1,49 | 23.0 | 862 | 2828 |
| | | | | | | N140 | 1,48 | 22.8 | 823 | 2700 | 1,60 | 24.7 | 879 | 2884 |
| | | | | | | N540 | 1,50 | 23.1 | 807 | 2648 | 1,65 | 25.5 | 895 | 2936 |
| 4,5 | 69 | Sierra | HPBT ¹⁾ | 57,0 | 2.244 | N133 | 1,34 | 20.7 | 792 | 2598 | 1,48 | 22.8 | 867 | 2844 |
| | | | | | | N135 | 1,40 | 21.6 | 804 | 2638 | 1,54 | 23.8 | 875 | 2871 |
| | | | | | | N140 | 1,53 | 23.6 | 820 | 2690 | 1,68 | 25.9 | 897 | 2943 |
| | | | | | | N540 | 1,56 | 24.1 | 824 | 2703 | 1,71 | 26.4 | 910 | 2986 |
| 4,5 | 70 | Hornady | GMX | 56,9 | 2.240 | N133 | 1,25 | 19.3 | 778 | 2552 | 1,31 | 20.2 | 813 | 2667 |
| | | | | | | N530 | 1,25 | 19.3 | 754 | 2474 | 1,37 | 21.1 | 834 | 2736 |
| | | | | | | N135 | 1,25 | 19.3 | 752 | 2467 | 1,41 | 21.8 | 835 | 2740 |
| | | | | | | N140 | 1,40 | 21.6 | 761 | 2497 | 1,59 | 24.5 | 862 | 2828 |
| | | | | | | N540 | 1,42 | 21.9 | 769 | 2523 | 1,58 | 24.4 | 870 | 2854 |
| 4,8 | 73 | Berger | BT Target | 57,4 | 2.260 | N133 | 1,20 | 18.5 | 747 | 2451 | 1,41 | 21.8 | 822 | 2697 |
| | | | | | | N530 | 1,33 | 20.5 | 772 | 2533 | 1,50 | 23.1 | 887 | 2910 |
| | | | | | | N135 | 1,31 | 20.2 | 743 | 2438 | 1,51 | 23.3 | 855 | 2805 |
| | | | | | | N140 | 1,42 | 21.9 | 763 | 2503 | 1,64 | 25.3 | 875 | 2871 |
| | | | | | | N540 | 1,47 | 22.7 | 787 | 2582 | 1,65 | 25.5 | 899 | 2949 |
| 4,9 | 75 | Berger | VLD Target | 57,4 | 2.260 | N133 | 1,21 | 18.7 | 732 | 2402 | 1,42 | 21.9 | 837 | 2746 |
| | | | | | | N530 | 1,35 | 20.8 | 776 | 2546 | 1,50 | 23.1 | 882 | 2894 |
| | | | | | | N135 | 1,35 | 20.8 | 763 | 2503 | 1,54 | 23.8 | 864 | 2835 |
| | | | | | | N140 | 1,44 | 22.2 | 771 | 2530 | 1,65 | 25.5 | 877 | 2877 |
| | | | | | | N540 | 1,47 | 22.7 | 786 | 2582 | 1,68 | 25.9 | 903 | 2963 |
| 4,9 | 75 | Hornady | BTHP ²⁾ | 57,4 | 2.260 | N135 | 1,34 | 20.7 | 752 | 2467 | 1,51 | 23.3 | 830 | 2723 |
| | | | | | | N140 | 1,43 | 22.1 | 754 | 2474 | 1,62 | 25.0 | 843 | 2766 |
| | | | | | | N540 | 1,50 | 23.1 | 773 | 2536 | 1,67 | 25.8 | 863 | 2831 |
| 4,9 | 75 | Hornady | ELD Match | 57,4 | 2.260 | N530 | 1,33 | 20.5 | 777 | 2549 | 1,51 | 23.3 | 887 | 2910 |
| | | | | | | N135 | 1,38 | 21.3 | 766 | 2513 | 1,58 | 24.4 | 876 | 2874 |
| | | | | | | N140 | 1,48 | 22.8 | 769 | 2523 | 1,70C | 26.2C | 889 | 2917 |
| | | | | | | N540 | 1,47 | 22.7 | 791 | 2595 | 1,67C | 25.8C | 901 | 2956 |
| 4,9 | 75 | Swift | Scirocco II | 57,4 | 2.260 | N530 | 1,28 | 19.8 | 708 | 2323 | 1,45 | 22.4 | 814 | 2671 |
| | | | | | | N135 | 1,23 | 19.0 | 698 | 2290 | 1,45 | 22.4 | 795 | 2608 |
| | | | | | | N140 | 1,41 | 21.8 | 718 | 2356 | 1,62 | 25.0 | 815 | 2674 |
| | | | | | | N540 | 1,43 | 22.1 | 743 | 2438 | 1,64 | 25.3 | 846 | 2776 |
| 5,0 | 77 | Lapua | Scenar | 57,4 | 2.260 | N530 | 1,25 | 19.3 | 712 | 2336 | 1,44 | 22.2 | 812 | 2664 |
| | | | | | | N135 | 1,22 | 18.8 | 701 | 2300 | 1,39 | 21.5 | 803 | 2635 |
| | | | | | | N140 | 1,35 | 20.8 | 704 | 2310 | 1,57 | 24.2 | 801 | 2628 |
| | | | | | | N540 | 1,41 | 21.8 | 720 | 2362 | 1,59 | 24.5 | 814 | 2671 |
| 5,0 | 77 | Sierra | HPBT ²⁾ | 57,4 | 2.260 | N530 | 1,28 | 19.8 | 712 | 2336 | 1,43 | 22.1 | 795 | 2608 |
| | | | | | | N135 | 1,27 | 19.6 | 706 | 2316 | 1,46 | 22.5 | 791 | 2595 |
| | | | | | | N140 | 1,36 | 21.0 | 712 | 2336 | 1,60 | 24.7 | 810 | 2657 |
| | | | | | | N540 | 1,47 | 22.7 | 740 | 2428 | 1,64 | 25.3 | 828 | 2717 |
| 5,0 | 77 | Sierra | TMK | 57,4 | 2.260 | N530 | 1,31 | 20.2 | 744 | 2441 | 1,47 | 22.7 | 850 | 2789 |
| | | | | | | N135 | 1,29 | 19.9 | 724 | 2375 | 1,49 | 23.0 | 825 | 2707 |
| | | | | | | N140 | 1,44 | 22.2 | 744 | 2441 | 1,65 | 25.5 | 852 | 2795 |
| | | | | | | N540 | 1,46 | 22.5 | 755 | 2477 | 1,63 | 25.2 | 870 | 2854 |
| 5,2 | 80 | Sierra | HPBT ³⁾ | 64,8 ⁸⁾ | 2.551 | N530 | 1,30 | 20.0 | 713 | 2339 | 1,50 | 23.1 | 801 | 2630 |
| | | | | | | N135 | 1,22 | 18.8 | 711 | 2333 | 1,40 | 21.6 | 788 | 2587 |
| | | | | | | N140 | 1,34 | 20.7 | 730 | 2395 | 1,49 | 23.0 | 807 | 2646 |

| .223 Remington | | | | | | cont. | | | | | | | | |
|---|-------|---------|--------------------------|--------------------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N540 | 1,39 | 21.4 | 730 | 2395 | 1,53 | 23.7 | 808 | 2652 |
| 5,5 | 85.5 | Berger | Long Range Hybrid Target | 59,0 ⁵⁾ | 2.323 | N133 | 1,25 | 19.3 | 724 | 2375 | 1,38 | 21.3 | 793 | 2602 |
| | | | | | | N135 | 1,30 | 20.1 | 734 | 2408 | 1,43 | 22.1 | 804 | 2638 |
| | | | | | | N140 | 1,42 | 21.9 | 755 | 2477 | 1,55 | 23.9 | 826 | 2710 |
| | | | | | | N540 | 1,48 | 22.8 | 769 | 2523 | 1,60 | 24.7 | 837 | 2746 |
| | | | | | | N150 | 1,45 | 22.4 | 758 | 2487 | 1,60C | 24.7C | 823 | 2700 |
| 5,7 | 88 | Hornady | ELD Match | 59,0 ⁴⁾ | 2.323 | N133 | 1,25 | 19.3 | 717 | 2352 | 1,38 | 21.3 | 780 | 2559 |
| | | | | | | N530 | 1,25 | 19.3 | 721 | 2365 | 1,41 | 21.8 | 794 | 2605 |
| | | | | | | N135 | 1,30 | 20.1 | 721 | 2365 | 1,42 | 21.9 | 785 | 2575 |
| | | | | | | N140 | 1,40 | 21.6 | 742 | 2434 | 1,52C | 23.5C | 802 | 2631 |
| | | | | | | N540 | 1,42 | 21.9 | 741 | 2431 | 1,57 | 24.2 | 819 | 2687 |
| | | | | | | N150 | 1,42 | 21.9 | 735 | 2411 | 1,50C | 23.1C | 774 | 2539 |
| 5,8 | 90 | Berger | HPBT | 62,4 ⁶⁾ | 2.457 | N140 | 1,25 | 19.3 | 646 | 2119 | 1,41 | 21.8 | 735 | 2411 |
| | | | | | | N540 | 1,34 | 20.7 | 682 | 2238 | 1,49 | 23.0 | 759 | 2490 |
| | | | | | | N150 | 1,26 | 19.4 | 651 | 2136 | 1,46 | 22.5 | 741 | 2431 |
| 5,8 | 90 | Sierra | HPBT | 59,8 ⁷⁾ | 2.354 | N140 | 1,25 | 19.3 | 640 | 2100 | 1,44 | 22.2 | 742 | 2434 |
| | | | | | | N540 | 1,34 | 20.7 | 678 | 2224 | 1,52 | 23.5 | 762 | 2500 |
| | | | | | | N150 | 1,24 | 19.1 | 648 | 2126 | 1,48 | 22.8 | 748 | 2454 |
| A = Accuracy load C = Compressed load F = Case full ¹⁾ 1 in 10" twist ²⁾ 1 in 7" twist ³⁾ Test barrel with a long throat to accept the C.O.L. of 65 mm (2,559") ⁴⁾ The cartridge overall length exceeds the CIP maximum. ⁵⁾ The cartridge overall length exceeds the CIP maximum. ⁶⁾ The cartridge overall length exceeds the CIP maximum. ⁷⁾ The cartridge overall length exceeds the CIP maximum. ⁸⁾ The cartridge overall length exceeds the CIP maximum. | | | | | | | | | | | | | | |

| .223 WSSM | | | | | | Test barrel: 640 mm (25"), 1 in 8" twist | | | | | | | | | |
|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | Primers: | Large Rifle | | | | | | | | |
| | | | | | | Cases: | Winchester, trim-to length 42,20 mm (1.661") | | | | | | | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|-------|------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 3,3 | 51 | Lapua | HPCE | 54,6 | 2.150 | N530 | 2,22 | 34.3 | 1055 | 3461 | 2,59 | 40.0 | 1205 | 3953 |
| | | | | | | N135 | 2,10 | 32.4 | 1011 | 3317 | 2,61 | 40.3 | 1180 | 3871 |
| | | | | | | N140 | 2,49 | 38.4 | 1074 | 3524 | 2,83 | 43.7 | 1183 | 3881 |
| 3,6 | 55 | Lapua | Soft Point | 54,5 | 2.146 | N530 | 2,14 | 33.0 | 1009 | 3310 | 2,48 | 38.3 | 1147 | 3763 |
| | | | | | | N135 | 2,09 | 32.3 | 1001 | 3284 | 2,49 | 38.4 | 1119 | 3671 |
| | | | | | | N140 | 2,24 | 34.6 | 996 | 3268 | 2,68 | 41.4 | 1140 | 3740 |
| 4,5 | 69 | Lapua | Scenar | 56,7 | 2.232 | N140 | 2,29 | 35.3 | 933 | 3061 | 2,61 | 40.3 | 1030 | 3379 |
| | | | | | | N540 | 2,35 | 36.3 | 960 | 3150 | 2,68 | 41.4 | 1077 | 3533 |
| | | | | | | N150 | 2,33 | 36.0 | 947 | 3107 | 2,61 | 40.3 | 1048 | 3438 |
| | | | | | | N550 | 2,48 | 38.3 | 972 | 3189 | 2,84 | 43.8 | 1078 | 3537 |

| .22 PPC-USA | | | | | | Test barrel: 610 mm (24"), 1 in 14" twist | | | | | | | | | |
|-------------|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|
| | | | | | | Primers: | Small Rifle | | | | | | | | |
| | | | | | | Cases: | Sako, trim-to length 38,30 mm (1.508") | | | | | | | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|--------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 3,4 | 52 | Sierra | HPBT | 51,4 | 2.024 | N120 | 1,33 | 20.5 | 919 | 3016 | 1,56 | 24.1 | 1039 | 3408 |
| | | | | | | N130 | 1,43 | 22.1 | 934 | 3063 | 1,66 | 25.6 | 1069 | 3507 |
| | | | | | | N133 | 1,51 | 23.3 | 947 | 3107 | 1,77 | 27.3 | 1087 | 3565 |
| | | | | | | N135 | 1,65 | 25.5 | 971 | 3185 | 1,90 | 29.2 | 1099 | 3607 |
| 3,6 | 55 | Speer | Spitzer | 51,8 | 2.039 | N130 | 1,41 | 21.8 | 898 | 2946 | 1,69 | 26.1 | 1026 | 3367 |

| .22 PPC-USA | | | | | | cont. | | | | | | | | |
|-------------|-------|-----|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N133 | 1,45 | 22.4 | 901 | 2956 | 1,78 | 27.4 | 1039 | 3409 |
| | | | | | | N135 | 1,68 | 25.9 | 961 | 3151 | 1,93 | 29.7 | 1103 | 3617 |

| .22-250 Remington | | | | | | Test barrel: 580 mm (22"), 1 in 14" twist | | | | | | | | | |
|-------------------|--|--|--|--|--|---|---|--|--|--|--|--|--|--|--|
| | | | | | | Primers: | Large Rifle | | | | | | | | |
| | | | | | | Cases: | Lapua .22-250 Remington, trim-to length 48,30 mm (1.902") | | | | | | | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|---------|--------------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 2,6 | 40 | Sierra | Blitz King | 58,9 | 2.319 | N130 | 1,79 | 27.6 | 1097 | 3599 | 1,98 | 30.6 | 1194 | 3917 |
| | | | | | | N133 | 1,97 | 30.4 | 1099 | 3606 | 2,15 | 33.2 | 1205 | 3953 |
| | | | | | | N135 | 2,03 | 31.3 | 1097 | 3599 | 2,18 | 33.6 | 1207 | 3960 |
| | | | | | | N140 | 2,19 | 33.8 | 1111 | 3645 | 2,39 | 36.9 | 1211 | 3973 |
| 2,9 | 45 | Sierra | SP | 58,9 | 2.319 | N130 | 1,66 | 25.6 | 1023 | 3356 | 1,99 | 30.7 | 1145 | 3757 |
| | | | | | | N133 | 1,87 | 28.9 | 1033 | 3389 | 2,10 | 32.4 | 1126 | 3694 |
| | | | | | | N135 | 1,87 | 28.9 | 1023 | 3356 | 2,18 | 33.6 | 1154 | 3786 |
| | | | | | | N150 | 2,06 | 31.8 | 1033 | 3389 | 2,32 | 35.8 | 1137 | 3730 |
| 3,2 | 50 | Lapua | Naturalis N566 | 59,0 | 2.323 | N135 | 1,62 | 25.0 | 913 | 2995 | 1,71 | 26.4 | 987 | 3238 |
| | | | | | | N140 | 1,81 | 27.9 | 936 | 3071 | 2,04 | 31.5 | 1036 | 3399 |
| | | | | | | N540 | 2,00 | 30.9 | 978 | 3209 | 2,21 | 34.1 | 1070 | 3510 |
| | | | | | | N150 | 1,82 | 28.1 | 944 | 3097 | 2,06 | 31.8 | 1043 | 3422 |
| 3,3 | 51 | Lapua | HPCE | 59,6 | 2.346 | N133 | 1,75 | 27.0 | 969 | 3179 | 1,99 | 30.7 | 1064 | 3491 |
| | | | | | | N135 | 1,72 | 26.5 | 959 | 3146 | 1,96 | 30.2 | 1055 | 3461 |
| | | | | | | N140 | 1,99 | 30.7 | 988 | 3241 | 2,19 | 33.8 | 1087 | 3566 |
| | | | | | | N540 | 2,08 | 32.1 | 1001 | 3284 | 2,32 | 35.8 | 1105 | 3625 |
| 3,6 | 55 | Lapua | FMJ | 59,6 | 2.346 | N135 | 1,75 | 27.0 | 936 | 3071 | 1,98 | 30.6 | 1040 | 3412 |
| | | | | | | N140 | 1,94 | 29.9 | 959 | 3146 | 2,17 | 33.5 | 1050 | 3445 |
| | | | | | | N540 | 2,03 | 31.3 | 972 | 3189 | 2,29 | 35.3 | 1085 | 3560 |
| | | | | | | N150 | 1,98 | 30.6 | 968 | 3176 | 2,25 | 34.7 | 1057 | 3468 |
| 3,6 | 55 | Lapua | Soft Point | 59,5 | 2.343 | N135 | 1,62 | 25.0 | 902 | 2959 | 1,82 | 28.1 | 990 | 3248 |
| | | | | | | N140 | 1,81 | 27.9 | 932 | 3058 | 2,04 | 31.5 | 1017 | 3337 |
| | | | | | | N540 | 2,09 | 32.3 | 981 | 3219 | 2,29 | 35.3 | 1075 | 3527 |
| | | | | | | N150 | 1,83 | 28.2 | 903 | 2963 | 2,08 | 32.1 | 1019 | 3343 |
| 3,9 | 60 | Hornady | HP | 59,6 | 2.346 | N135 | 1,62 | 25.0 | 845 | 2772 | 1,86 | 28.7 | 955 | 3133 |
| | | | | | | N140 | 1,81 | 27.9 | 887 | 2910 | 2,10 | 32.4 | 989 | 3245 |
| | | | | | | N540 | 2,06 | 31.8 | 938 | 3077 | 2,27 | 35.0 | 1043 | 3422 |
| | | | | | | N150 | 1,91 | 29.5 | 907 | 2976 | 2,16 | 33.3 | 1012 | 3320 |
| 4,0 | 62 | Barnes | TSX | 59,7 | 2.350 | N140 | 1,67 | 25.8 | 831 | 2726 | 1,90 | 29.3 | 930 | 3051 |
| | | | | | | N540 | 1,82 | 28.1 | 865 | 2838 | 2,09 | 32.3 | 974 | 3196 |
| | | | | | | N150 | 1,72 | 26.5 | 843 | 2766 | 1,98 | 30.6 | 943 | 3094 |
| 4,5 | 69 | Lapua | HPBT ¹⁾ | 59,6 | 2.346 | N140 | 1,71 | 26.4 | 820 | 2690 | 1,98 | 30.6 | 914 | 2999 |
| | | | | | | N540 | 1,85 | 28.5 | 843 | 2766 | 2,10 | 32.4 | 939 | 3081 |
| | | | | | | N150 | 1,77 | 27.3 | 836 | 2743 | 2,05 | 31.6 | 921 | 3022 |
| | | | | | | N550 | 1,98 | 30.6 | 854 | 2802 | 2,24 | 34.6 | 953 | 3127 |

1) 1 in 10" twist

6 mm PPC-USA

Test barrel: 580 mm (23"), 1 in 14" twist

Primers: Small Rifle

Cases: Sako, trim-to length 38,30 mm (1.508")

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|--------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 4,4 | 68 | Euber | HPFB | 53,6 | 2.110 | N130 | 1,52 | 23.4 | 843 | 2766 | 1,68 | 25.9 | 928 | 3045 |
| | | | | | | N133 | 1,63 | 25.2 | 840 | 2756 | 1,83C | 28.2C | 951 | 3120 |
| 4,5 | 70 | Sierra | HPBT | 53,6 | 2.110 | N120 | 1,39 | 21.5 | 809 | 2654 | 1,55 | 23.9 | 901 | 2956 |
| | | | | | | N130 | 1,47 | 22.7 | 820 | 2690 | 1,69 | 26.1 | 934 | 3064 |
| | | | | | | N133 | 1,59 | 24.6 | 826 | 2710 | 1,79C | 27.6C | 935 | 3068 |

C = Compressed load

| 6 mm BR Norma | | | | | | | | | | Test barrel: 650 mm (25½"), 1 in 8" twist | | | |
|---------------|--|--|--|--|--|--|--|--|--|---|--|--|--|
| Primers: | | | | | | | | | | Small Rifle | | | |
| Cases: | | | | | | | | | | Lapua, trim-to length 39,40 mm (1.551") | | | |

| Bullet | | | | | | | | | | Powder | Starting load | | | | Maximum load | | | |
|-------------------|-------|--------|-----------|--------|-------|------|--------|-------|----------|--------|---------------|----------|-------|-------|--------------|--|----------|--|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | Weight | | Velocity | | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] | | | | |
| 4,5 | 70 | Sierra | HPBT | 57,0 | 2.244 | N133 | 1,64 | 25.3 | 864 | 2834 | 1,86 | 28.7 | 957 | 3140 | | | | |
| | | | | | | N135 | 1,88 | 29.0 | 901 | 2956 | 2,20 | 33.9 | 1009 | 3310 | | | | |
| 5,0 | 77 | Lapua | HP | 57,0 | 2.244 | N135 | 1,81 | 27.9 | 880 | 2887 | 2,01 | 31.0 | 957 | 3140 | | | | |
| | | | | | | N140 | 1,94 | 29.9 | 882 | 2894 | 2,15 | 33.2 | 965 | 3166 | | | | |
| | | | | | | N540 | 2,00 | 30.9 | 888 | 2913 | 2,18 | 33.6 | 980 | 3215 | | | | |
| 5,0 | 77 | Lapua | HP SJ | 60,0 | 2.362 | N133 | 1,85 | 28.5 | 884 | 2900 | 2,01A | 31.0A | 964 | 3163 | | | | |
| | | | | | | N140 | 2,05 | 31.6 | 900 | 2953 | 2,22 | 34.3 | 982 | 3222 | | | | |
| | | | | | | N540 | 2,14 | 33.0 | 914 | 2999 | 2,31 | 35.6 | 999 | 3278 | | | | |
| 5,5 | 85 | Barnes | TSX | 58,5 | 2.303 | N140 | 1,62 | 25.0 | 775 | 2543 | 1,88 | 29.0 | 877 | 2877 | | | | |
| | | | | | | N540 | 1,72 | 26.5 | 803 | 2635 | 1,97 | 30.4 | 908 | 2979 | | | | |
| | | | | | | N150 | 1,63 | 25.2 | 776 | 2546 | 1,90 | 29.3 | 874 | 2867 | | | | |
| 5,8 | 90 | Lapua | Naturalis | 54,7 | 2.154 | N140 | 1,75 | 27.0 | 790 | 2592 | 2,03 | 31.3 | 879 | 2884 | | | | |
| | | | | | | N540 | 1,89 | 29.2 | 816 | 2677 | 2,11 | 32.6 | 915 | 3002 | | | | |
| | | | | | | N150 | 1,81 | 27.9 | 795 | 2608 | 2,10 | 32.4 | 887 | 2910 | | | | |
| 5,8 | 90 | Lapua | Scenar | 60,0 | 2.362 | N140 | 1,68 | 26.0 | 788 | 2584 | 1,93 | 29.8 | 871 | 2858 | | | | |
| | | | | | | N540 | 1,69 | 26.1 | 757 | 2484 | 2,20 | 33.9 | 952 | 3123 | | | | |
| 6,5 | 100 | Lapua | Mega | 55,3 | 2.177 | N140 | 1,66 | 25.6 | 737 | 2419 | 1,88 | 29.0 | 825 | 2707 | | | | |
| | | | | | | N540 | 1,81 | 27.9 | 772 | 2533 | 2,01 | 31.0 | 857 | 2812 | | | | |
| 6,8 | 105 | Lapua | Scenar | 60,0 | 2.362 | N140 | 1,67 | 25.8 | 746 | 2447 | 1,87 | 28.9 | 821 | 2694 | | | | |
| | | | | | | N540 | 1,75 | 27.0 | 756 | 2480 | 1,97 | 30.4 | 846 | 2776 | | | | |
| A = Accuracy load | | | | | | | | | | | | | | | | | | |

| 6 mm Creedmoor | | | | | | | | | | Test barrel: 660 mm (26"), 1 in 8" twist | | | |
|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Primers: | | | | | | | | | | Small Rifle | | | |
| Cases: | | | | | | | | | | Lapua, trim-to length 48,75 mm (1.919") | | | |

| Bullet | | | | | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|---------|-----------------------|--------|-------|------|--------|-------|----------|--------|---------------|----------|-------|-------|--------------|--|----------|--|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | Weight | | Velocity | | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] | | | | |
| 3,6 | 55 | Nosler | Ballistic Tip Varmint | 64,5 | 2.539 | N135 | 2,54 | 39.2 | 1111 | 3645 | 2,70 | 41.7 | 1196 | 3924 | | | | |
| | | | | | | N140 | 2,70 | 41.7 | 1126 | 3694 | 2,87 | 44.3 | 1210 | 3970 | | | | |
| | | | | | | N540 | 2,78 | 42.9 | 1138 | 3734 | 2,97 | 45.8 | 1240 | 4068 | | | | |
| | | | | | | N150 | 2,72 | 42.0 | 1112 | 3648 | 2,91 | 44.9 | 1200 | 3937 | | | | |
| | | | | | | N550 | 2,90 | 44.8 | 1131 | 3711 | 3,10F | 47.8F | 1236 | 4055 | | | | |
| 4,2 | 65 | Hornady | V-Max | 64,9 | 2.555 | N140 | 2,41 | 37.2 | 1009 | 3310 | 2,69 | 41.5 | 1110 | 3642 | | | | |
| | | | | | | N540 | 2,54 | 39.2 | 1037 | 3402 | 2,76 | 42.6 | 1136 | 3727 | | | | |

LIGHT GREY TEXT BOX INDICATES MAXIMUM LOAD - USE WITH CAUTION!
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED

| 6 mm Creedmoor | | | | | | cont. | | | | | | | | |
|----------------|-------|--------|-----------------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N150 | 2,45 | 37.8 | 1015 | 3330 | 2,71 | 41.8 | 1107 | 3632 |
| | | | | | | N550 | 2,72 | 42.0 | 1044 | 3425 | 2,94 | 45.4 | 1145 | 3757 |
| 4,5 | 70 | Sierra | Blitz King | 66,0 | 2.598 | N140 | 2,54 | 39.2 | 1008 | 3307 | 2,71 | 41.8 | 1085 | 3560 |
| | | | | | | N540 | 2,58 | 39.8 | 1030 | 3379 | 2,77 | 42.7 | 1120 | 3675 |
| | | | | | | N150 | 2,54 | 39.2 | 1006 | 3301 | 2,74 | 42.3 | 1085 | 3560 |
| | | | | | | N550 | 2,77 | 42.7 | 1032 | 3386 | 2,92 | 45.1 | 1121 | 3678 |
| 5,2 | 80 | Barnes | TTSX BT | 63,0 | 2.480 | N150 | 2,20 | 34.0 | 914 | 2999 | 2,44 | 37.7 | 994 | 3261 |
| | | | | | | N550 | 2,51 | 38.7 | 944 | 3097 | 2,70 | 41.7 | 1030 | 3379 |
| | | | | | | N160 | 2,62 | 40.4 | 934 | 3064 | 2,90 | 44.8 | 1025 | 3363 |
| | | | | | | N560 | 2,85 | 44.0 | 936 | 3071 | 3,10F | 47.8F | 1025 | 3363 |
| 5,7 | 87 | Berger | VLD Hunting | 67,8 | 2.669 | N140 | 2,19 | 33.8 | 886 | 2907 | 2,47 | 38.1 | 971 | 3186 |
| | | | | | | N540 | 2,33 | 36.0 | 914 | 2999 | 2,55 | 39.4 | 1001 | 3284 |
| | | | | | | N150 | 2,21 | 34.1 | 891 | 2923 | 2,49 | 38.4 | 974 | 3196 |
| | | | | | | N550 | 2,52 | 38.9 | 927 | 3041 | 2,74 | 42.3 | 1013 | 3323 |
| | | | | | | N555 | 2,75 | 42.4 | 945 | 3100 | 3,00C | 46.3C | 1027 | 3369 |
| | | | | | | N160 | 2,72 | 42.0 | 929 | 3048 | 2,95 | 45.5 | 1011 | 3317 |
| | | | | | | N560 | 2,87 | 44.3 | 923 | 3028 | 3,12 | 48.1 | 1011 | 3317 |
| 5,8 | 90 | Lapua | Naturalis | 70,0 | 2.756 | N540 | 2,27 | 35.0 | 877 | 2877 | 2,51 | 38.7 | 963 | 3159 |
| | | | | | | N150 | 2,16 | 33.3 | 845 | 2772 | 2,44 | 37.7 | 928 | 3045 |
| | | | | | | N550 | 2,49 | 38.4 | 894 | 2933 | 2,73 | 42.1 | 979 | 3212 |
| | | | | | | N160 | 2,51 | 38.7 | 863 | 2831 | 2,93 | 45.2 | 971 | 3186 |
| | | | | | | N560 | 2,87 | 44.3 | 899 | 2949 | 3,11 | 48.0 | 987 | 3238 |
| 5,8 | 90 | Lapua | Scenar-L | 70,0 | 2.756 | N540 | 2,22 | 34.3 | 885 | 2904 | 2,46 | 38.0 | 971 | 3186 |
| | | | | | | N150 | 2,15 | 33.2 | 856 | 2808 | 2,38 | 36.7 | 929 | 3048 |
| | | | | | | N550 | 2,43 | 37.5 | 898 | 2946 | 2,67 | 41.2 | 988 | 3241 |
| | | | | | | N555 | 2,80 | 43.2 | 940 | 3084 | 2,95F | 45.5F | 988 | 3241 |
| | | | | | | N160 | 2,54 | 39.2 | 880 | 2887 | 2,85 | 44.0 | 971 | 3186 |
| | | | | | | N560 | 2,76 | 42.6 | 898 | 2946 | 3,02 | 46.6 | 991 | 3251 |
| 5,8 | 90 | Nosler | Ballistic Tip Hunting | 69,5 | 2.736 | N540 | 2,37 | 36.6 | 889 | 2917 | 2,59 | 40.0 | 975 | 3199 |
| | | | | | | N150 | 2,24 | 34.6 | 851 | 2792 | 2,48 | 38.3 | 929 | 3048 |
| | | | | | | N550 | 2,50 | 38.6 | 899 | 2949 | 2,74 | 42.3 | 986 | 3235 |
| | | | | | | N555 | 2,65 | 40.9 | 932 | 3058 | 2,95F | 45.5F | 979 | 3212 |
| | | | | | | N160 | 2,80 | 43.2 | 892 | 2927 | 3,02F | 46.6F | 978 | 3209 |
| 5,8 | 90 | Swift | Scirocco II | 70,5 | 2.776 | N540 | 2,20 | 34.0 | 853 | 2799 | 2,46 | 38.0 | 946 | 3104 |
| | | | | | | N150 | 2,06 | 31.8 | 818 | 2684 | 2,33 | 36.0 | 899 | 2949 |
| | | | | | | N550 | 2,38 | 36.7 | 873 | 2864 | 2,66 | 41.1 | 968 | 3176 |
| | | | | | | N555 | 2,70 | 41.7 | 909 | 2982 | 2,93 | 45.2 | 978 | 3209 |
| | | | | | | N160 | 2,44 | 37.7 | 845 | 2772 | 2,79 | 43.1 | 942 | 3091 |
| | | | | | | N560 | 2,78 | 42.9 | 884 | 2900 | 3,05 | 47.1 | 979 | 3212 |
| 6,1 | 95 | Sierra | MatchKing | 70,0 | 2.756 | N540 | 2,23 | 34.4 | 869 | 2851 | 2,44 | 37.7 | 951 | 3120 |
| | | | | | | N150 | 2,15 | 33.2 | 850 | 2789 | 2,37 | 36.6 | 920 | 3018 |
| | | | | | | N550 | 2,44 | 37.7 | 888 | 2913 | 2,68 | 41.4 | 975 | 3199 |
| | | | | | | N555 | 2,70 | 41.7 | 899 | 2949 | 2,92 | 45.1 | 978 | 3209 |
| | | | | | | N160 | 2,65 | 40.9 | 878 | 2881 | 2,87 | 44.3 | 960 | 3150 |
| | | | | | | N560 | 2,81 | 43.4 | 891 | 2923 | 3,05 | 47.1 | 981 | 3219 |
| 6,2 | 95 | Berger | Classic Hunter | 69,0 | 2.717 | N540 | 2,13 | 32.9 | 840 | 2756 | 2,36 | 36.4 | 923 | 3028 |
| | | | | | | N150 | 2,03 | 31.3 | 825 | 2707 | 2,23 | 34.4 | 887 | 2910 |
| | | | | | | N550 | 2,30 | 35.5 | 857 | 2812 | 2,57 | 39.7 | 943 | 3094 |
| | | | | | | N555 | 2,68 | 41.4 | 896 | 2940 | 2,91 | 44.9 | 974 | 3196 |
| | | | | | | N160 | 2,25 | 34.7 | 821 | 2694 | 2,69 | 41.5 | 928 | 3045 |
| | | | | | | N560 | 2,65 | 40.9 | 864 | 2835 | 2,96 | 45.7 | 957 | 3140 |
| 6,2 | 95 | Berger | VLD Hunting | 68,6 | 2.701 | N540 | 2,25 | 34.7 | 875 | 2871 | 2,48 | 38.3 | 960 | 3150 |
| | | | | | | N150 | 2,22 | 34.3 | 858 | 2815 | 2,46 | 38.0 | 937 | 3074 |
| | | | | | | N550 | 2,49 | 38.4 | 902 | 2959 | 2,67 | 41.2 | 977 | 3205 |

| 6 mm Creedmoor | | | | | | cont. | | | | | | | | |
|----------------|-------|--------|--------------------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N555 | 2,69 | 41.5 | 911 | 2989 | 2,92 | 45.1 | 988 | 3241 |
| | | | | | | N160 | 2,72 | 42.0 | 889 | 2917 | 2,97 | 45.8 | 972 | 3189 |
| | | | | | | N560 | 2,83 | 43.7 | 893 | 2930 | 3,04 | 46.9 | 979 | 3212 |
| 6,8 | 105 | Berger | Hybrid Target | 71,0 | 2.795 | N540 | 2,08 | 32.1 | 806 | 2644 | 2,33 | 36.0 | 889 | 2917 |
| | | | | | | N150 | 1,94 | 29.9 | 774 | 2539 | 2,26 | 34.9 | 857 | 2812 |
| | | | | | | N550 | 2,27 | 35.0 | 821 | 2694 | 2,55 | 39.4 | 909 | 2982 |
| | | | | | | N555 | 2,55 | 39.4 | 847 | 2779 | 2,77 | 42.7 | 923 | 3028 |
| | | | | | | N160 | 2,30 | 35.5 | 805 | 2641 | 2,65 | 40.9 | 895 | 2936 |
| | | | | | | N560 | 2,63 | 40.6 | 834 | 2736 | 2,91 | 44.9 | 921 | 3022 |
| 6,8 | 105 | Berger | VLD Target | 71,0 | 2.795 | N540 | 2,15 | 33.2 | 812 | 2664 | 2,38 | 36.7 | 897 | 2943 |
| | | | | | | N150 | 2,07 | 31.9 | 788 | 2585 | 2,32 | 35.8 | 865 | 2838 |
| | | | | | | N550 | 2,37 | 36.6 | 840 | 2756 | 2,59 | 40.0 | 917 | 3009 |
| | | | | | | N555 | 2,59 | 40.0 | 855 | 2805 | 2,82 | 43.5 | 929 | 3048 |
| | | | | | | N160 | 2,60 | 40.1 | 829 | 2720 | 2,86 | 44.1 | 909 | 2982 |
| | | | | | | N560 | 2,72 | 42.0 | 846 | 2776 | 2,95 | 45.5 | 929 | 3048 |
| 6,8 | 105 | Lapua | Scenar | 71,0 | 2.795 | N540 | 2,07 | 31.9 | 803 | 2635 | 2,30 | 35.5 | 883 | 2897 |
| | | | | | | N150 | 1,95 | 30.1 | 764 | 2507 | 2,23 | 34.4 | 851 | 2792 |
| | | | | | | N550 | 2,27 | 35.0 | 825 | 2707 | 2,50 | 38.6 | 904 | 2966 |
| | | | | | | N555 | 2,60 | 40.1 | 858 | 2815 | 2,83 | 43.7 | 927 | 3041 |
| | | | | | | N160 | 2,34 | 36.1 | 805 | 2641 | 2,66 | 41.1 | 891 | 2923 |
| | | | | | | N560 | 2,61 | 40.3 | 834 | 2736 | 2,88 | 44.4 | 922 | 3025 |
| | | | | | | N565 | 2,73 | 42.1 | 847 | 2779 | 3,00 | 46.3 | 923 | 3028 |
| 7,0 | 108 | Berger | BT Target | 70,7 | 2.783 | N540 | 1,97 | 30.4 | 789 | 2589 | 2,24 | 34.6 | 866 | 2841 |
| | | | | | | N150 | 1,89 | 29.2 | 757 | 2484 | 2,14 | 33.0 | 833 | 2733 |
| | | | | | | N550 | 2,16 | 33.3 | 804 | 2638 | 2,41 | 37.2 | 883 | 2897 |
| | | | | | | N160 | 2,40 | 37.0 | 841 | 2759 | 2,51 | 38.7 | 870 | 2854 |
| | | | | | | N560 | 2,59 | 40.0 | 825 | 2707 | 2,81 | 43.4 | 908 | 2979 |
| 7,0 | 108 | Berger | Elite Hunter | 71,0 | 2.795 | N540 | 2,20 | 34.0 | 826 | 2710 | 2,41 | 37.2 | 894 | 2933 |
| | | | | | | N150 | 2,05 | 31.6 | 792 | 2598 | 2,30 | 35.5 | 858 | 2815 |
| | | | | | | N550 | 2,34 | 36.1 | 835 | 2740 | 2,58 | 39.8 | 907 | 2976 |
| | | | | | | N555 | 2,60 | 40.1 | 854 | 2802 | 2,84 | 43.8 | 924 | 3031 |
| | | | | | | N160 | 2,60 | 40.1 | 831 | 2726 | 2,82 | 43.5 | 903 | 2963 |
| | | | | | | N560 | 2,66 | 41.1 | 835 | 2740 | 2,94 | 45.4 | 923 | 3028 |
| 7,0 | 108 | Sierra | MatchKing | 66,2 | 2.606 | N540 | 2,08 | 32.1 | 804 | 2638 | 2,30 | 35.5 | 883 | 2897 |
| | | | | | | N150 | 1,98 | 30.6 | 774 | 2539 | 2,22 | 34.3 | 852 | 2795 |
| | | | | | | N550 | 2,27 | 35.0 | 820 | 2690 | 2,50 | 38.6 | 904 | 2966 |
| | | | | | | N160 | 2,41 | 37.2 | 813 | 2667 | 2,67 | 41.2 | 890 | 2920 |
| | | | | | | N560 | 2,63 | 40.6 | 834 | 2736 | 2,87 | 44.3 | 918 | 3012 |
| 7,1 | 109 | Berger | Long Range Hybrid Target | 71,0 | 2.795 | N540 | 2,13 | 32.9 | 820 | 2690 | 2,40 | 37.0 | 886 | 2907 |
| | | | | | | N150 | 2,09 | 32.3 | 783 | 2569 | 2,30 | 35.5 | 853 | 2799 |
| | | | | | | N550 | 2,32 | 35.8 | 828 | 2717 | 2,54 | 39.2 | 902 | 2959 |
| | | | | | | N555 | 2,58 | 39.8 | 846 | 2776 | 2,82 | 43.5 | 917 | 3009 |
| | | | | | | N160 | 2,57 | 39.7 | 829 | 2720 | 2,82 | 43.5 | 896 | 2940 |
| | | | | | | N560 | 2,72 | 42.0 | 834 | 2736 | 2,96 | 45.7 | 922 | 3025 |
| 7,1 | 110 | Sierra | MatchKing | 71,0 | 2.795 | N540 | 2,05 | 31.6 | 793 | 2602 | 2,27 | 35.0 | 876 | 2874 |
| | | | | | | N150 | 1,95 | 30.1 | 756 | 2480 | 2,19 | 33.8 | 835 | 2740 |
| | | | | | | N550 | 2,22 | 34.3 | 811 | 2661 | 2,46 | 38.0 | 892 | 2927 |
| | | | | | | N555 | 2,48 | 38.3 | 826 | 2710 | 2,71 | 41.8 | 900 | 2953 |
| | | | | | | N160 | 2,35 | 36.3 | 793 | 2602 | 2,65 | 40.9 | 879 | 2884 |
| | | | | | | N560 | 2,60 | 40.1 | 824 | 2703 | 2,81 | 43.4 | 903 | 2963 |
| 7,5 | 115 | Berger | VLD Hunting | 71,0 | 2.795 | N540 | 2,04 | 31.5 | 767 | 2516 | 2,25 | 34.7 | 844 | 2769 |
| | | | | | | N150 | 1,95 | 30.1 | 744 | 2441 | 2,18 | 33.6 | 814 | 2671 |
| | | | | | | N550 | 2,22 | 34.3 | 786 | 2579 | 2,42 | 37.3 | 853 | 2799 |

| 6 mm Creedmoor | | | | | | cont. | | | | | | | | |
|-----------------------------------|-------|--------|------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N555 | 2,45 | 37.8 | 805 | 2641 | 2,69 | 41.5 | 878 | 2881 |
| | | | | | | N160 | 2,30 | 35.5 | 772 | 2533 | 2,62 | 40.4 | 856 | 2808 |
| | | | | | | N560 | 2,55 | 39.4 | 800 | 2625 | 2,78 | 42.9 | 885 | 2904 |
| 7,5 | 115 | Berger | VLD Target | 71,1 | 2.799 | N540 | 1,96 | 30.2 | 757 | 2484 | 2,21 | 34.1 | 832 | 2730 |
| | | | | | | N150 | 1,83 | 28.2 | 726 | 2382 | 2,15 | 33.2 | 810 | 2657 |
| | | | | | | N550 | 2,18 | 33.6 | 781 | 2562 | 2,43 | 37.5 | 858 | 2815 |
| | | | | | | N555 | 2,43 | 37.5 | 797 | 2615 | 2,68 | 41.4 | 874 | 2867 |
| | | | | | | N160 | 2,17 | 33.5 | 760 | 2493 | 2,54 | 39.2 | 847 | 2779 |
| | | | | | | N560 | 2,54 | 39.2 | 797 | 2615 | 2,81 | 43.4 | 883 | 2897 |
| C = Compressed load F = Case full | | | | | | | | | | | | | | |

.243 WSSM

Test barrel:

690 mm (27"), 1 in 10" twist

Primers:

Small Rifle

Cases:

Winchester, trim-to length 42,20 mm (1.660")

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|-------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 5,0 | 77 | Lapua | HP | 59,4 | 2.339 | N140 | 2,46 | 38.0 | 973 | 3192 | 2,74 | 42.3 | 1071 | 3514 |
| | | | | | | N540 | 2,52 | 38.9 | 988 | 3241 | 2,80 | 43.2 | 1096 | 3596 |
| | | | | | | N150 | 2,48 | 38.3 | 978 | 3209 | 2,84 | 43.8 | 1081 | 3547 |
| 5,8 | 90 | Lapua | Naturalis | 58,0 | 2.283 | N540 | 2,34 | 36.1 | 896 | 2940 | 2,68 | 41.4 | 1001 | 3284 |
| | | | | | | N150 | 2,32 | 35.8 | 877 | 2877 | 2,66 | 41.1 | 979 | 3212 |
| | | | | | | N550 | 2,56 | 39.5 | 909 | 2982 | 2,84 | 43.8 | 1019 | 3343 |
| 6,5 | 100 | Lapua | SP | 57,0 | 2.244 | N140 | 2,20 | 34.0 | 832 | 2730 | 2,46 | 38.0 | 914 | 2999 |
| | | | | | | N540 | 2,18 | 33.6 | 843 | 2766 | 2,55 | 39.4 | 946 | 3104 |
| | | | | | | N550 | 2,41 | 37.2 | 868 | 2848 | 2,75 | 42.4 | 968 | 3176 |

.243 Winchester

Test barrel:

580 mm (23"), 1 in 10" twist

Primers:

Large Rifle

Cases:

Lapua, trim-to length 51,80 mm (2.039")

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|---------|------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 3,8 | 58 | Hornady | V-Max | 65,5 | 2.579 | N135 | 2,31 | 35.6 | 1037 | 3402 | 2,55 | 39.3 | 1127 | 3698 |
| | | | | | | N140 | 2,53 | 39.0 | 1043 | 3422 | 2,80 | 43.2 | 1137 | 3730 |
| | | | | | | N540 | 2,45 | 37.8 | 1051 | 3448 | 2,87 | 44.3 | 1151 | 3776 |
| | | | | | | N550 | 2,65 | 40.9 | 1067 | 3501 | 2,88 | 44.4 | 1165 | 3822 |
| 4,5 | 70 | Sierra | Blitz King | 68,1 | 2.681 | N135 | 2,17 | 33.5 | 896 | 2940 | 2,49 | 38.4 | 988 | 3241 |
| | | | | | | N140 | 2,37 | 36.6 | 913 | 2995 | 2,70 | 41.7 | 1009 | 3310 |
| | | | | | | N550 | 2,76 | 42.6 | 936 | 3071 | 2,96 | 45.7 | 1037 | 3402 |
| 4,9 | 75 | Hornady | V-Max | 66,8 | 2.630 | N135 | 2,07 | 31.9 | 859 | 2818 | 2,31 | 35.6 | 945 | 3100 |
| | | | | | | N140 | 2,20 | 34.0 | 868 | 2848 | 2,53 | 39.0 | 966 | 3169 |
| | | | | | | N150 | 2,20 | 34.0 | 862 | 2828 | 2,52 | 38.9 | 957 | 3140 |
| | | | | | | N550 | 2,50 | 38.6 | 932 | 3058 | 2,81 | 43.4 | 1005 | 3297 |
| | | | | | | N555 | 2,80 | 43.2 | 925 | 3035 | 3,04C | 46.9C | 1018 | 3340 |
| | | | | | | N160 | 2,80 | 43.2 | 898 | 2946 | 3,04 | 46.9 | 987 | 3238 |
| 5,0 | 77 | Lapua | HP | 67,0 | 2.638 | N135 | 1,99 | 30.7 | 855 | 2805 | 2,32 | 35.8 | 968 | 3176 |
| | | | | | | N140 | 2,23 | 34.4 | 883 | 2897 | 2,54 | 39.2 | 992 | 3255 |
| | | | | | | N150 | 2,24 | 34.6 | 881 | 2890 | 2,58 | 39.8 | 995 | 3264 |
| | | | | | | N550 | 2,57 | 39.7 | 918 | 3012 | 2,80 | 43.2 | 1032 | 3386 |
| 5,2 | 80 | Hornady | FMJ | 67,0 | 2.638 | N140 | 2,04 | 31.5 | 831 | 2726 | 2,41 | 37.2 | 949 | 3114 |

| .243 Winchester | | | | | | cont. | | | | | | | | |
|-----------------|-------|----------|----------------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N150 | 2,06 | 31.8 | 840 | 2756 | 2,43 | 37.5 | 947 | 3107 |
| | | | | | | N550 | 2,42 | 37.3 | 895 | 2936 | 2,79 | 43.1 | 1002 | 3287 |
| | | | | | | N160 | 2,54 | 39.2 | 890 | 2920 | 2,94 | 45.4 | 993 | 3258 |
| 5,5 | 85 | Barnes | TSX | 67,0 | 2.638 | N540 | 2,19 | 33.8 | 857 | 2812 | 2,56 | 39.5 | 981 | 3219 |
| | | | | | | N150 | 2,15 | 33.2 | 828 | 2717 | 2,55 | 39.4 | 949 | 3114 |
| | | | | | | N550 | 2,56 | 39.5 | 934 | 3064 | 2,72 | 42.0 | 992 | 3255 |
| | | | | | | N160 | 2,65 | 40.9 | 860 | 2822 | 2,98 | 46.0 | 972 | 3189 |
| 5,5 | 85 | Nosler | Partition | 68,0 | 2.677 | N540 | 2,17 | 33.5 | 860 | 2822 | 2,50 | 38.6 | 971 | 3186 |
| | | | | | | N150 | 1,90 | 29.3 | 801 | 2628 | 2,28 | 35.2 | 922 | 3025 |
| | | | | | | N550 | 2,36 | 36.4 | 866 | 2841 | 2,71 | 41.8 | 977 | 3205 |
| | | | | | | N160 | 2,42 | 37.3 | 846 | 2776 | 2,84 | 43.8 | 969 | 3179 |
| 5,6 | 87 | Hornady | V-Max | 68,3 | 2.689 | N140 | 2,05 | 31.6 | 790 | 2592 | 2,35 | 36.3 | 883 | 2897 |
| | | | | | | N150 | 2,10 | 32.4 | 799 | 2621 | 2,37 | 36.6 | 879 | 2884 |
| | | | | | | N550 | 2,30 | 35.5 | 819 | 2687 | 2,64 | 40.7 | 929 | 3048 |
| | | | | | | N555 | 2,65 | 40.9 | 859 | 2818 | 2,88 | 44.4 | 941 | 3087 |
| | | | | | | N160 | 2,55 | 39.4 | 813 | 2667 | 2,88 | 44.4 | 908 | 2979 |
| | | | | | | N560 | 2,80 | 43.2 | 838 | 2749 | 3,05 | 47.1 | 929 | 3048 |
| 5,8 | 90 | Lapua | Naturalis | 67,0 | 2.638 | N540 | 2,26 | 34.9 | 840 | 2756 | 2,53 | 39.0 | 945 | 3100 |
| | | | | | | N150 | 2,02 | 31.2 | 799 | 2621 | 2,39 | 36.9 | 903 | 2963 |
| | | | | | | N550 | 2,44 | 37.7 | 846 | 2776 | 2,72 | 42.0 | 952 | 3123 |
| | | | | | | N160 | 2,43 | 37.5 | 823 | 2700 | 2,85 | 44.0 | 942 | 3091 |
| 5,8 | 90 | Lapua | Scenar | 68,3 | 2.689 | N540 | 2,27 | 35.0 | 860 | 2822 | 2,54 | 39.2 | 962 | 3156 |
| | | | | | | N150 | 2,08 | 32.1 | 817 | 2680 | 2,44 | 37.7 | 914 | 2999 |
| | | | | | | N550 | 2,46 | 38.0 | 865 | 2838 | 2,68 | 41.4 | 967 | 3173 |
| | | | | | | N160 | 2,52 | 38.9 | 847 | 2779 | 2,83 | 43.7 | 952 | 3123 |
| 5,8 | 90 | Sierra | FMJ | 68,3 | 2.689 | N540 | 2,17 | 33.5 | 842 | 2762 | 2,49 | 38.4 | 946 | 3104 |
| | | | | | | N150 | 1,98 | 30.6 | 805 | 2641 | 2,30 | 35.5 | 902 | 2959 |
| | | | | | | N550 | 2,31 | 35.6 | 848 | 2782 | 2,63 | 40.6 | 952 | 3123 |
| | | | | | | N160 | 2,41 | 37.2 | 836 | 2743 | 2,76 | 42.6 | 941 | 3087 |
| 5,8 | 90 | Swift | Scirocco II | 68,3 | 2.689 | N550 | 2,17 | 33.5 | 788 | 2585 | 2,48 | 38.3 | 879 | 2884 |
| | | | | | | N555 | 2,20 | 34.0 | 786 | 2579 | 2,72 | 42.0 | 895 | 2936 |
| | | | | | | N160 | 1,81 | 27.9 | 714 | 2343 | 2,27 | 35.0 | 819 | 2687 |
| | | | | | | N165 | 2,20 | 34.0 | 768 | 2520 | 2,80 | 43.2 | 870 | 2854 |
| | | | | | | N560 | 2,46 | 38.0 | 776 | 2546 | 2,81 | 43.4 | 879 | 2884 |
| 6,2 | 95 | Berger | Classic Hunter | 68,1 | 2.681 | N555 | 2,45 | 37.8 | 806 | 2644 | 2,75 | 42.4 | 898 | 2946 |
| | | | | | | N160 | 2,32 | 35.8 | 767 | 2516 | 2,67 | 41.2 | 862 | 2828 |
| | | | | | | N165 | 2,71 | 41.8 | 804 | 2638 | 2,98 | 46.0 | 889 | 2917 |
| | | | | | | N560 | 2,63 | 40.6 | 795 | 2608 | 2,89 | 44.6 | 887 | 2910 |
| 6,2 | 95 | Norma | FMJ | 63,7 | 2.508 | N550 | 2,25 | 34.7 | 777 | 2549 | 2,56 | 39.5 | 868 | 2848 |
| | | | | | | N555 | 2,36 | 36.4 | 787 | 2582 | 2,75 | 42.4 | 884 | 2900 |
| | | | | | | N160 | 2,25 | 34.7 | 750 | 2461 | 2,65 | 40.9 | 844 | 2769 |
| | | | | | | N165 | 2,68 | 41.4 | 787 | 2582 | 2,93 | 45.2 | 867 | 2844 |
| | | | | | | N560 | 2,59 | 40.0 | 777 | 2549 | 2,85 | 44.0 | 866 | 2841 |
| 6,2 | 96 | Brenneke | TOG | 67,0 | 2.638 | N540 | 2,15 | 33.2 | 820 | 2690 | 2,50 | 38.6 | 928 | 3045 |
| | | | | | | N550 | 2,46 | 38.0 | 843 | 2766 | 2,68 | 41.4 | 939 | 3081 |
| | | | | | | N160 | 2,60 | 40.1 | 824 | 2703 | 2,93 | 45.2 | 929 | 3048 |
| 6,5 | 100 | Speer | Grand Slam | 68,3 | 2.689 | N540 | 1,97 | 30.4 | 770 | 2526 | 2,33 | 36.0 | 878 | 2881 |
| | | | | | | N150 | 1,86 | 28.7 | 722 | 2369 | 2,23 | 34.4 | 839 | 2753 |
| | | | | | | N550 | 2,21 | 34.1 | 787 | 2582 | 2,48 | 38.3 | 885 | 2904 |
| | | | | | | N160 | 2,23 | 34.4 | 769 | 2523 | 2,58 | 39.8 | 873 | 2864 |
| 6,8 | 105 | Lapua | Scenar ¹⁾ | 68,3 | 2.689 | N150 | 1,95 | 30.1 | 729 | 2392 | 2,27 | 35.0 | 821 | 2694 |
| | | | | | | N550 | 2,34 | 36.1 | 782 | 2566 | 2,59 | 40.0 | 890 | 2920 |
| | | | | | | N160 | 2,43 | 37.5 | 766 | 2513 | 2,70 | 41.7 | 869 | 2851 |
| | | | | | | N165 | 2,62 | 40.4 | 783 | 2569 | 3,00 | 46.3 | 894 | 2933 |

LIGHT GREY TEXT BOX INDICATES MAXIMUM LOAD - USE WITH CAUTION!
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED

| .243 Winchester | | | | | | cont. | | | | | | | | |
|---|-------|--------|--------------------------|--------------------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 7,0 | 108 | Berger | BT Target | 68,8 | 2.709 | N550 | 2,14 | 33.0 | 747 | 2451 | 2,42 | 37.3 | 827 | 2713 |
| | | | | | | N555 | 2,30 | 35.5 | 750 | 2461 | 2,62 | 40.4 | 836 | 2743 |
| | | | | | | N160 | 2,20 | 34.0 | 723 | 2372 | 2,60 | 40.1 | 817 | 2680 |
| | | | | | | N165 | 2,51 | 38.7 | 747 | 2451 | 2,84 | 43.8 | 834 | 2736 |
| | | | | | | N560 | 2,52 | 38.9 | 749 | 2457 | 2,80 | 43.2 | 838 | 2749 |
| 7,0 | 108 | Berger | Elite Hunter | 68,8 | 2.709 | N550 | 2,20 | 34.0 | 750 | 2461 | 2,49 | 38.4 | 837 | 2746 |
| | | | | | | N555 | 2,47 | 38.1 | 771 | 2530 | 2,71 | 41.8 | 849 | 2785 |
| | | | | | | N160 | 2,36 | 36.4 | 731 | 2398 | 2,71 | 41.8 | 824 | 2703 |
| | | | | | | N165 | 2,71 | 41.8 | 767 | 2516 | 2,96 | 45.7 | 843 | 2766 |
| | | | | | | N560 | 2,55 | 39.4 | 758 | 2487 | 2,81 | 43.4 | 840 | 2756 |
| | | | | | | N565 | 2,68 | 41.4 | 762 | 2500 | 2,94C | 45.4C | 843 | 2766 |
| 7,1 | 109 | Berger | Long Range Hybrid Target | 71,0 ²⁾ | 2.795 | N550 | 2,19 | 33.8 | 742 | 2434 | 2,48 | 38.3 | 829 | 2720 |
| | | | | N555 | 2,32 | 35.8 | 743 | 2438 | 2,71 | 41.8 | 840 | 2756 | | |
| | | | | N160 | 2,06 | 31.8 | 698 | 2290 | 2,49 | 38.4 | 797 | 2615 | | |
| | | | | N165 | 2,46 | 38.0 | 734 | 2408 | 2,92 | 45.1 | 834 | 2736 | | |
| | | | | N560 | 2,47 | 38.1 | 745 | 2444 | 2,80 | 43.2 | 838 | 2749 | | |
| | | | | | | N565 | 2,59 | 40.0 | 751 | 2464 | 2,92 | 45.1 | 838 | 2749 |
| C = Compressed load ¹⁾ The test barrel rifle twist 1 in 8" ²⁾ The cartridge overall length exceeds the CIP maximum. | | | | | | | | | | | | | | |

| | | |
|------|--------------|---|
| 6 XC | Test barrel: | 620 mm (24"), 1 in 8" twist |
| | Primers: | Large Rifle |
| | Cases: | Norma, trim-to length 48,20 mm (1.898") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|---------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 3,8 | 58 | Hornady | V-Max | 62,0 | 2.441 | N135 | 2,26 | 34.9 | 1045 | 3428 | 2,55 | 39.4 | 1162 | 3812 |
| | | | | | | N140 | 2,48 | 38.3 | 1056 | 3465 | 2,77 | 42.7 | 1175 | 3855 |
| | | | | | | N550 | 2,54 | 39.2 | 1079 | 3540 | 2,82 | 43.5 | 1214 | 3983 |
| 4,5 | 69 | Sierra | MatchKing | 63,0 | 2.480 | N540 | 2,41 | 37.2 | 998 | 3274 | 2,66 | 41.1 | 1110 | 3642 |
| | | | | | | N150 | 2,21 | 34.1 | 939 | 3081 | 2,62 | 40.4 | 1066 | 3497 |
| | | | | | | N550 | 2,05 | 31.6 | 768 | 2520 | 2,82 | 43.5 | 1109 | 3638 |
| 5,0 | 77 | Lapua | HP | 64,0 | 2.520 | N540 | 2,29 | 35.3 | 927 | 3041 | 2,58 | 39.8 | 1063 | 3488 |
| | | | | | | N150 | 2,26 | 34.9 | 911 | 2989 | 2,59 | 40.0 | 1028 | 3373 |
| | | | | | | N550 | 2,45 | 37.8 | 940 | 3084 | 2,74 | 42.3 | 1069 | 3507 |
| 5,8 | 90 | Lapua | Naturalis | 63,8 | 2.512 | N540 | 2,08 | 32.1 | 846 | 2776 | 2,47 | 38.1 | 969 | 3179 |
| | | | | | | N150 | 2,01 | 31.0 | 812 | 2664 | 2,38 | 36.7 | 921 | 3022 |
| | | | | | | N550 | 2,24 | 34.6 | 851 | 2792 | 2,61 | 40.3 | 972 | 3189 |
| 5,8 | 90 | Lapua | Scenar | 69,0 | 2.717 | N540 | 2,09 | 32.3 | 859 | 2818 | 2,43 | 37.5 | 988 | 3241 |
| | | | | | | N150 | 1,94 | 29.9 | 817 | 2680 | 2,35 | 36.3 | 942 | 3091 |
| | | | | | | N550 | 2,23 | 34.4 | 867 | 2844 | 2,60 | 40.1 | 993 | 3258 |
| 6,8 | 105 | Lapua | Scenar | 69,0 | 2.717 | N540 | 1,88 | 29.0 | 780 | 2559 | 2,20 | 34.0 | 882 | 2894 |
| | | | | | | N550 | 2,07 | 31.9 | 796 | 2612 | 2,37 | 36.6 | 895 | 2936 |
| | | | | | | N160 | 2,05 | 31.6 | 767 | 2516 | 2,43 | 37.5 | 875 | 2871 |

| | | |
|----------------|--------------|---|
| 6 mm Remington | Test barrel: | 660 mm (26"), 1 in 10" twist |
| | Primers: | Large Rifle |
| | Cases: | Remington, trim-to length 56,60 mm (2.228") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|---------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 3,8 | 58 | Hornady | V-Max | 70,4 | 2.772 | N140 | 2,47 | 38.1 | 1053 | 3455 | 2,80 | 43.2 | 1173 | 3848 |
| | | | | | | N540 | 2,68 | 41.4 | 1084 | 3556 | 3,01 | 46.5 | 1207 | 3960 |

| 6 mm Remington | | | | | | cont. | | | | | | | | |
|----------------|-------|--------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N150 | 2,50 | 38.6 | 1055 | 3461 | 2,91 | 44.9 | 1176 | 3858 |
| 5,0 | 77 | Lapua | HP | 70,4 | 2.772 | N140 | 2,38 | 36.7 | 933 | 3061 | 2,71 | 41.8 | 1046 | 3432 |
| | | | | | | N540 | 2,55 | 39.4 | 971 | 3186 | 2,84 | 43.8 | 1073 | 3520 |
| | | | | | | N150 | 2,50 | 38.6 | 950 | 3117 | 2,80 | 43.2 | 1051 | 3448 |
| | | | | | | N550 | 2,73 | 42.1 | 972 | 3189 | 3,01 | 46.5 | 1093 | 3586 |
| 5,5 | 85 | Nosler | Partition | 70,4 | 2.772 | N140 | 1,97 | 30.4 | 858 | 2815 | 2,49 | 38.4 | 983 | 3225 |
| | | | | | | N540 | 2,25 | 34.7 | 899 | 2949 | 2,65 | 40.9 | 1012 | 3320 |
| | | | | | | N150 | 2,11 | 32.6 | 868 | 2848 | 2,47 | 38.1 | 973 | 3192 |
| | | | | | | N550 | 2,41 | 37.2 | 903 | 2963 | 2,85 | 44.0 | 1022 | 3353 |
| 5,8 | 90 | Lapua | Naturalis | 70,4 | 2.772 | N150 | 2,00 | 30.9 | 820 | 2690 | 2,50 | 38.6 | 932 | 3058 |
| | | | | | | N550 | 2,37 | 36.6 | 873 | 2864 | 2,88 | 44.4 | 1010 | 3314 |
| | | | | | | N160 | 2,40 | 37.0 | 869 | 2851 | 2,99 | 46.1 | 994 | 3261 |
| | | | | | | N165 | 2,83 | 43.7 | 875 | 2871 | 3,24 | 50.0 | 1001 | 3284 |
| 5,8 | 90 | Lapua | Scenar | 71,8 | 2.825 | N150 | 2,20 | 34.0 | 867 | 2844 | 2,60 | 40.1 | 976 | 3202 |
| | | | | | | N550 | 2,52 | 38.9 | 902 | 2959 | 2,82 | 43.5 | 1010 | 3314 |
| | | | | | | N160 | 2,49 | 38.4 | 866 | 2841 | 3,00 | 46.3 | 994 | 3261 |
| | | | | | | N165 | 2,93 | 45.2 | 906 | 2972 | 3,30 | 50.9 | 1018 | 3340 |

| | | |
|--------------------------------|--------------|---|
| <h1>.240 Weatherby Magnum</h1> | Test barrel: | 600 mm (23½"), 1 in 10" twist |
| | Primers: | Large Rifle Magnum |
| | Cases: | Norma, trim-to length 63,20 mm (2.488") |
| | | |

CAUTION: Loads less than the listed starting loads may cause excessive chamber pressure and must not be used!

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|---------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 4,9 | 75 | Hornady | HP | 78,1 | 3.075 | N150 | 2,94 | 45.4 | 995 | 3266 | 3,17 | 48.9 | 1076 | 3532 |
| | | | | | | N550 | 3,20 | 49.4 | 1028 | 3371 | 3,38 | 52.2 | 1111 | 3645 |
| | | | | | | N160 | 3,34 | 51.6 | 1010 | 3314 | 3,52 | 54.2 | 1094 | 3589 |
| 5,0 | 77 | Lapua | HP | 78,1 | 3.075 | N150 | 2,97 | 45.8 | 990 | 3248 | 3,15 | 48.7 | 1055 | 3460 |
| | | | | | | N550 | 3,20 | 49.3 | 1014 | 3327 | 3,37 | 51.9 | 1095 | 3591 |
| | | | | | | N160 | 3,34 | 51.5 | 1005 | 3297 | 3,51 | 54.1 | 1084 | 3556 |
| 5,8 | 90 | Lapua | Scenar | 78,1 | 3.075 | N550 | 2,98 | 46.0 | 939 | 3081 | 3,22 | 49.6 | 1013 | 3325 |
| | | | | | | N160 | 3,20 | 49.3 | 938 | 3077 | 3,41 | 52.6 | 1014 | 3327 |
| | | | | | | N165 | 3,47 | 53.6 | 949 | 3114 | 3,71 | 57.2 | 1031 | 3383 |
| 6,5 | 100 | Lapua | Mega | 78,1 | 3.075 | N550 | 2,94 | 45.4 | 891 | 2923 | 3,16 | 48.7 | 966 | 3170 |
| | | | | | | N160 | 3,06 | 47.2 | 895 | 2936 | 3,26 | 50.3 | 956 | 3137 |
| | | | | | | N165 | 3,47 | 53.6 | 949 | 3114 | 3,62 | 55.8 | 989 | 3246 |
| 6,8 | 105 | Speer | Spitzer | 77,8 | 3.063 | N160 | 2,83 | 43.6 | 852 | 2795 | 3,15 | 48.7 | 935 | 3068 |
| | | | | | | N165 | 3,33 | 51.3 | 895 | 2936 | 3,57 | 55.2 | 969 | 3180 |
| | | | | | | N560 | 3,23 | 49.8 | 887 | 2910 | 3,47 | 53.5 | 962 | 3157 |

| | | |
|-------------------------|--------------|---|
| .25-06 Remington | Test barrel: | 580 mm (23"), 1 in 10" twist |
| | Primers: | Large Rifle |
| | Cases: | Remington, trim-to length 63,10 mm (2.484") |
| | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|-------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 5,6 | 87 | Speer | SPBT | 79,3 | 3.122 | N140 | 2,35 | 36.2 | 876 | 2873 | 2,74 | 42.3 | 961 | 3153 |
| | | | | | | N150 | 2,51 | 38.7 | 892 | 2925 | 2,91 | 44.9 | 980 | 3215 |
| | | | | | | N160 | 3,15 | 48.6 | 935 | 3069 | 3,55 | 54.8 | 1020 | 3346 |
| | | | | | | N165 | 3,52 | 54.3 | 960 | 3149 | 3,95 | 60.9 | 1049 | 3442 |

| .25-06 Remington | | | | | | cont. | | | | | | | | |
|------------------|-------|--------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 6,5 | 100 | Speer | SPBT | 81,2 | 3.197 | N140 | 2,60 | 40.0 | 873 | 2864 | 2,78 | 42.9 | 924 | 3031 |
| | | | | | | N150 | 2,66 | 41.0 | 878 | 2881 | 2,86 | 44.1 | 930 | 3051 |
| | | | | | | N160 | 3,24 | 50.0 | 911 | 2990 | 3,38 | 52.2 | 966 | 3169 |
| | | | | | | N165 | 3,44 | 53.0 | 922 | 3024 | 3,66 | 56.5 | 979 | 3212 |
| | | | | | | N560 | 3,16 | 48.8 | 900 | 2954 | 3,59 | 55.4 | 990 | 3248 |
| | | | | | | N170 | 3,55 | 54.7 | 885 | 2902 | 4,05 | 62.5 | 975 | 3199 |
| 7,8 | 120 | Sierra | HPBT | 80,0 | 3.155 | N160 | 2,75 | 42.4 | 791 | 2597 | 3,09 | 47.7 | 871 | 2858 |
| | | | | | | N165 | 3,03 | 46.8 | 817 | 2681 | 3,38 | 52.2 | 889 | 2917 |
| | | | | | | N560 | 2,95 | 45.6 | 818 | 2685 | 3,33 | 51.4 | 903 | 2963 |
| | | | | | | N170 | 3,35 | 51.7 | 817 | 2682 | 3,81 | 58.8 | 904 | 2966 |
| 7,8 | 120 | Speer | Spitzer | 80,2 | 3.157 | N150 | 1,95 | 30.1 | 692 | 2270 | 2,32 | 35.8 | 776 | 2546 |
| | | | | | | N160 | 2,50 | 38.6 | 759 | 2491 | 2,94 | 45.4 | 844 | 2769 |
| | | | | | | N165 | 2,69 | 41.5 | 777 | 2548 | 3,13 | 48.3 | 853 | 2799 |
| | | | | | | N560 | 2,81 | 43.3 | 798 | 2619 | 3,24 | 50.0 | 890 | 2920 |
| | | | | | | N170 | 3,17 | 48.9 | 802 | 2630 | 3,59 | 55.4 | 873 | 2864 |

6,5 mm Grendel

| | |
|--------------|---|
| Test barrel: | 610 mm (24"), 1 in 10" twist |
| Primers: | Small Rifle |
| Cases: | Lapua, trim-to length 38,50 mm (1.516") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|--------|----------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 6,5 | 100 | Lapua | FMJ | 53,0 | 2.087 | N130 | 1,32 | 20.4 | 705 | 2313 | 1,54 | 23.8 | 784 | 2572 |
| | | | | | | N133 | 1,51 | 23.3 | 728 | 2388 | 1,72 | 26.5 | 811 | 2661 |
| | | | | | | N530 | 1,56 | 24.1 | 729 | 2392 | 1,79 | 27.6 | 829 | 2720 |
| 6,5 | 100 | Lapua | Scenar | 57,1 | 2.248 | N130 | 1,40 | 21.6 | 674 | 2211 | 1,76 | 27.2 | 840 | 2756 |
| | | | | | | N133 | 1,57 | 24.2 | 728 | 2388 | 1,90 | 29.3 | 854 | 2802 |
| | | | | | | N530 | 1,60 | 24.7 | 729 | 2392 | 1,90 | 29.3 | 858 | 2815 |
| 7,0 | 108 | Lapua | Scenar | 57,1 | 2.248 | N130 | 1,40 | 21.6 | 671 | 2201 | 1,69 | 26.1 | 791 | 2595 |
| | | | | | | N133 | 1,51 | 23.3 | 689 | 2260 | 1,80 | 27.8 | 804 | 2638 |
| | | | | | | N530 | 1,44 | 22.2 | 690 | 2264 | 1,73 | 26.7 | 821 | 2694 |
| 7,8 | 120 | Barnes | TSX | 53,0 | 2.087 | N133 | 1,17 | 18.1 | 578 | 1896 | 1,58 | 24.4 | 678 | 2224 |
| | | | | | | N530 | 1,34 | 20.7 | 592 | 1942 | 1,62 | 25.0 | 707 | 2320 |
| | | | | | | N540 | 1,58 | 24.4 | 631 | 2070 | 1,88 | 29.0 | 751 | 2464 |
| 8,0 | 123 | Lapua | Scenar | 57,1 | 2.248 | N133 | 1,36 | 21.0 | 609 | 1998 | 1,73 | 26.7 | 745 | 2444 |
| | | | | | | N530 | 1,47 | 22.7 | 635 | 2083 | 1,73 | 26.7 | 763 | 2503 |
| | | | | | | N135 | 1,29 | 19.9 | 593 | 1946 | 1,75 | 27.0 | 741 | 2431 |
| 8,8 | 136 | Lapua | Scenar-L | 57,1 | 2.248 | N530 | 1,47 | 22.7 | 644 | 2113 | 1,65 | 25.5 | 725 | 2379 |
| | | | | | | N135 | 1,33 | 20.5 | 597 | 1959 | 1,65 | 25.5 | 701 | 2300 |
| | | | | | | N140 | 1,59 | 24.5 | 655 | 2149 | 1,83 | 28.2 | 731 | 2398 |
| | | | | | | N540 | 1,67 | 25.8 | 661 | 2169 | 1,83 | 28.2 | 741 | 2431 |
| 9,0 | 139 | Lapua | Scenar | 57,1 | 2.248 | N530 | 1,40 | 21.6 | 606 | 1988 | 1,60 | 24.7 | 694 | 2277 |
| | | | | | | N135 | 1,23 | 19.0 | 547 | 1795 | 1,55 | 23.9 | 664 | 2178 |
| | | | | | | N140 | 1,57 | 24.2 | 620 | 2034 | 1,78 | 27.5 | 706 | 2316 |
| | | | | | | N540 | 1,64 | 25.3 | 642 | 2106 | 1,82 | 28.1 | 725 | 2379 |
| 9,1 | 140 | Lapua | Naturalis N507 | 57,5 | 2.264 | N530 | 1,41 | 21.8 | 595 | 1952 | 1,65 | 25.5 | 694 | 2277 |
| | | | | | | N140 | 1,42 | 21.9 | 579 | 1900 | 1,74 | 26.9 | 680 | 2231 |
| | | | | | | N540 | 1,59 | 24.5 | 616 | 2021 | 1,86 | 28.7 | 714 | 2343 |
| 9,3 | 144 | Lapua | FMJBT | 57,1 | 2.248 | N530 | 1,40 | 21.6 | 610 | 2001 | 1,57 | 24.2 | 679 | 2228 |
| | | | | | | N135 | 1,19 | 18.4 | 553 | 1814 | 1,37 | 21.1 | 621 | 2037 |
| | | | | | | N140 | 1,49 | 23.0 | 640 | 2100 | 1,77 | 27.3 | 704 | 2310 |
| | | | | | | N540 | 1,60 | 24.7 | 638 | 2093 | 1,80 | 27.8 | 718 | 2356 |
| 10,1 | 156 | Lapua | Mega | 57,4 | 2.260 | N530 | 1,28 | 19.8 | 539 | 1768 | 1,50 | 23.1 | 615 | 2018 |

| 6,5 mm Grendel | | | | | | cont. | | | | | | | | |
|----------------|-------|-----|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N140 | 1,31 | 20.2 | 513 | 1683 | 1,62 | 25.0 | 627 | 2057 |
| | | | | | | N540 | 1,38 | 21.3 | 537 | 1762 | 1,67 | 25.8 | 647 | 2123 |
| | | | | | | N150 | 1,30 | 20.1 | 511 | 1677 | 1,62 | 25.0 | 615 | 2018 |

| 6,5 x 47 Lapua | | | | | | Test barrel: 700 mm (27½"), 1 in 8½" twist | | | | | | | |
|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | Primers: Small Rifle | | | | | | | |
| | | | | | | Cases: Lapua, trim-to length 46,80 mm (1.843") | | | | | | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|--------|----------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 6,5 | 100 | Lapua | FMJ | 62,5 | 2.461 | N133 | 1,91 | 29.5 | 778 | 2552 | 2,20 | 34.0 | 886 | 2907 |
| | | | | | | N135 | 1,91 | 29.5 | 765 | 2510 | 2,20 | 34.0 | 875 | 2871 |
| | | | | | | N140 | 2,15 | 33.2 | 801 | 2628 | 2,48 | 38.3 | 908 | 2979 |
| 6,5 | 100 | Lapua | Scenar | 69,5 | 2.736 | N133 | 2,10 | 32.4 | 870 | 2854 | 2,26 | 34.9 | 925 | 3035 |
| | | | | | | N135 | 2,20 | 34.0 | 890 | 2920 | 2,31 | 35.6 | 930 | 3051 |
| | | | | | | N140 | 2,40 | 37.0 | 900 | 2953 | 2,56 | 39.5 | 950 | 3117 |
| | | | | | | N540 | 2,32 | 35.8 | 874 | 2867 | 2,64 | 40.7 | 992 | 3255 |
| | | | | | | N150 | 2,17 | 33.5 | 831 | 2726 | 2,53 | 39.0 | 954 | 3130 |
| 7,0 | 108 | Lapua | Scenar | 69,5 | 2.736 | N133 | 1,96 | 30.2 | 807 | 2648 | 2,20 | 33.9 | 882 | 2894 |
| | | | | | | N135 | 2,04 | 31.5 | 814 | 2671 | 2,23 | 34.4 | 885 | 2904 |
| | | | | | | N140 | 2,23 | 34.4 | 828 | 2717 | 2,51 | 38.7 | 910 | 2986 |
| | | | | | | N540 | 2,27 | 35.0 | 839 | 2753 | 2,55 | 39.4 | 943 | 3094 |
| | | | | | | N150 | 2,35 | 36.3 | 849 | 2785 | 2,63 | 40.6 | 930 | 3051 |
| | | | | | | N550 | 2,39 | 36.9 | 836 | 2743 | 2,68 | 41.4 | 948 | 3110 |
| 7,8 | 120 | Barnes | TSX | 64,5 | 2.539 | N540 | 2,20 | 34.0 | 748 | 2454 | 2,48 | 38.3 | 846 | 2776 |
| | | | | | | N150 | 1,99 | 30.7 | 690 | 2264 | 2,43 | 37.5 | 830 | 2723 |
| | | | | | | N550 | 2,35 | 36.3 | 750 | 2461 | 2,70 | 41.7 | 872 | 2861 |
| 7,8 | 120 | Lapua | Scenar-L | 69,5 | 2.736 | N140 | 1,80 | 27.8 | 731 | 2398 | 2,35 | 36.3 | 853 | 2799 |
| | | | | | | N540 | 2,14 | 33.0 | 772 | 2533 | 2,45 | 37.8 | 889 | 2917 |
| | | | | | | N150 | 2,06 | 31.8 | 744 | 2441 | 2,43 | 37.5 | 859 | 2818 |
| | | | | | | N550 | 2,31 | 35.6 | 776 | 2546 | 2,62 | 40.4 | 895 | 2936 |
| 8,0 | 123 | Lapua | Scenar | 69,5 | 2.736 | N140 | 2,15 | 33.2 | 768 | 2520 | 2,36 | 36.4 | 840 | 2756 |
| | | | | | | N540 | 2,31 | 35.7 | 818 | 2685 | 2,57 | 39.7 | 907 | 2976 |
| | | | | | | N150 | 2,23 | 34.4 | 788 | 2585 | 2,45 | 37.8 | 855 | 2805 |
| | | | | | | N550 | 2,26 | 34.9 | 780 | 2559 | 2,57 | 39.7 | 878 | 2881 |
| 8,1 | 125 | Nosler | Partition | 65,0 | 2.559 | N140 | 1,95 | 30.1 | 715 | 2346 | 2,35 | 36.3 | 820 | 2690 |
| | | | | | | N540 | 2,18 | 33.6 | 760 | 2493 | 2,44 | 37.7 | 858 | 2815 |
| | | | | | | N150 | 2,01 | 31.0 | 727 | 2385 | 2,40 | 37.0 | 829 | 2720 |
| 8,4 | 130 | Barnes | TSX | 64,5 | 2.539 | N540 | 2,08 | 32.1 | 691 | 2267 | 2,42 | 37.3 | 819 | 2687 |
| | | | | | | N150 | 1,81 | 27.9 | 597 | 1959 | 2,31 | 35.6 | 765 | 2510 |
| | | | | | | N550 | 2,23 | 34.4 | 694 | 2277 | 2,60 | 40.1 | 821 | 2694 |
| 8,8 | 136 | Lapua | Scenar-L | 69,5 | 2.736 | N140 | 1,80 | 27.8 | 731 | 2398 | 2,30 | 35.5 | 792 | 2598 |
| | | | | | | N540 | 2,12 | 32.7 | 732 | 2402 | 2,39 | 36.9 | 829 | 2720 |
| | | | | | | N150 | 2,03 | 31.3 | 699 | 2293 | 2,35 | 36.3 | 796 | 2612 |
| | | | | | | N550 | 2,29 | 35.3 | 735 | 2411 | 2,57 | 39.7 | 833 | 2733 |
| 9,0 | 139 | Lapua | Scenar | 69,5 | 2.736 | N140 | 2,00 | 30.9 | 702 | 2302 | 2,25 | 34.7 | 773 | 2536 |
| | | | | | | N540 | 2,17 | 33.5 | 752 | 2468 | 2,42 | 37.4 | 836 | 2744 |
| | | | | | | N150 | 2,10 | 32.4 | 727 | 2384 | 2,33 | 36.0 | 787 | 2582 |
| | | | | | | N550 | 2,15 | 33.2 | 722 | 2369 | 2,44 | 37.7 | 815 | 2674 |
| 9,1 | 140 | Lapua | Naturalis N563 | 66,0 | 2.598 | N140 | 1,80 | 27.8 | 628 | 2060 | 2,11 | 32.6 | 738 | 2421 |
| | | | | | | N540 | 1,91 | 29.5 | 662 | 2172 | 2,21 | 34.1 | 774 | 2539 |
| | | | | | | N150 | 1,77 | 27.3 | 625 | 2051 | 2,11 | 32.6 | 738 | 2421 |
| | | | | | | N550 | 2,04 | 31.5 | 676 | 2218 | 2,37 | 36.6 | 786 | 2579 |

| 6,5 x 47 Lapua | | | | | | cont. | | | | | | | | |
|----------------|-------|-------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 10,1 | 156 | Lapua | Mega | 63,2 | 2.488 | N540 | 2,01 | 31.0 | 650 | 2133 | 2,26 | 34.9 | 753 | 2470 |
| | | | | | | N150 | 1,78 | 27.5 | 598 | 1962 | 2,12 | 32.7 | 710 | 2329 |
| | | | | | | N550 | 2,12 | 32.7 | 696 | 2283 | 2,43 | 37.5 | 769 | 2523 |

| 6,5 Creedmoor | | | | | | Test barrel: 650 mm (25½"), 1 in 8" twist | | | | | | | |
|---------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | Primers: Small Rifle, Remington 7 1/2 BR | | | | | | | |
| | | | | | | Cases: Lapua, trim-to length 48,50 mm (1.909") | | | | | | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|---------|--------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 6,1 | 95 | Hornady | V-Max | 68,0 | 2.677 | N140 | 2,50 | 38.6 | 906 | 2972 | 2,73 | 42.1 | 981 | 3219 |
| | | | | | | N540 | 2,55 | 39.4 | 927 | 3041 | 2,79 | 43.1 | 1013 | 3323 |
| | | | | | | N150 | 2,50 | 38.6 | 916 | 3005 | 2,73 | 42.1 | 981 | 3219 |
| | | | | | | N550 | 2,76 | 42.6 | 933 | 3061 | 2,95 | 45.5 | 1018 | 3340 |
| 6,5 | 100 | Lapua | FMJ | 64,4 | 2.535 | N140 | 2,34 | 36.1 | 840 | 2756 | 2,61 | 40.3 | 919 | 3015 |
| | | | | | | N540 | 2,44 | 37.7 | 863 | 2831 | 2,69 | 41.5 | 952 | 3123 |
| | | | | | | N150 | 2,29 | 35.3 | 814 | 2671 | 2,56 | 39.5 | 913 | 2995 |
| | | | | | | N550 | 2,68 | 41.4 | 884 | 2900 | 2,89 | 44.6 | 966 | 3169 |
| | | | | | | N555 | 2,90 | 44.8 | 906 | 2972 | 3,00F | 46.3F | 941 | 3087 |
| 6,5 | 100 | Lapua | Scenar | 68,0 | 2.677 | N140 | 2,41 | 37.2 | 869 | 2851 | 2,74 | 42.3 | 979 | 3212 |
| | | | | | | N540 | 2,42 | 37.3 | 881 | 2890 | 2,74 | 42.3 | 1001 | 3284 |
| | | | | | | N150 | 2,39 | 36.9 | 862 | 2828 | 2,73 | 42.1 | 977 | 3205 |
| 7,0 | 108 | Lapua | Scenar | 68,0 | 2.677 | N540 | 2,31 | 35.6 | 843 | 2766 | 2,64 | 40.7 | 970 | 3182 |
| | | | | | | N150 | 2,18 | 33.6 | 816 | 2677 | 2,63 | 40.6 | 936 | 3071 |
| | | | | | | N550 | 2,48 | 38.3 | 845 | 2772 | 2,83 | 43.7 | 972 | 3189 |
| 7,8 | 120 | Barnes | TTSX BT | 70,8 | 2.787 | N140 | 2,00 | 30.9 | 736 | 2415 | 2,21 | 34.1 | 770 | 2526 |
| | | | | | | N150 | 1,80 | 27.8 | 678 | 2224 | 2,08 | 32.1 | 748 | 2454 |
| | | | | | | N550 | 2,24 | 34.6 | 751 | 2464 | 2,65 | 40.9 | 860 | 2822 |
| | | | | | | N555 | 2,61 | 40.3 | 803 | 2635 | 2,89 | 44.6 | 877 | 2877 |
| | | | | | | N160 | 2,35 | 36.3 | 762 | 2500 | 2,40 | 37.0 | 776 | 2546 |
| 7,8 | 120 | Hornady | GMX | 70,5 | 2.776 | N140 | 2,00 | 30.9 | 714 | 2343 | 2,28 | 35.2 | 800 | 2625 |
| | | | | | | N540 | 2,18 | 33.6 | 755 | 2477 | 2,44 | 37.7 | 854 | 2802 |
| | | | | | | N150 | 1,90 | 29.3 | 707 | 2320 | 2,27 | 35.0 | 800 | 2625 |
| | | | | | | N550 | 2,35 | 36.3 | 776 | 2546 | 2,63 | 40.6 | 869 | 2851 |
| 7,8 | 120 | Lapua | Scenar-L | 68,0 | 2.677 | N540 | 2,18 | 33.6 | 790 | 2592 | 2,52 | 38.9 | 895 | 2936 |
| | | | | | | N150 | 2,03 | 31.3 | 756 | 2480 | 2,47 | 38.1 | 870 | 2854 |
| | | | | | | N550 | 2,38 | 36.7 | 804 | 2638 | 2,73 | 42.1 | 913 | 2995 |
| | | | | | | N555 | 2,67 | 41.2 | 838 | 2749 | 2,94C | 45.4C | 912 | 2992 |
| 8,0 | 123 | Lapua | Scenar | 68,0 | 2.677 | N540 | 2,31 | 35.6 | 799 | 2621 | 2,62 | 40.4 | 903 | 2963 |
| | | | | | | N150 | 2,22 | 34.3 | 769 | 2523 | 2,58 | 39.8 | 876 | 2874 |
| | | | | | | N550 | 2,46 | 38.0 | 802 | 2631 | 2,78 | 42.9 | 911 | 2989 |
| | | | | | | N555 | 2,67 | 41.2 | 834 | 2736 | 2,93C | 45.2C | 903 | 2963 |
| 8,4 | 129 | Hornady | Interlock SP | 68,5 | 2.697 | N140 | 2,07 | 31.9 | 710 | 2329 | 2,33 | 36.0 | 785 | 2575 |
| | | | | | | N540 | 2,20 | 34.0 | 756 | 2480 | 2,48 | 38.3 | 835 | 2740 |
| | | | | | | N150 | 2,10 | 32.4 | 711 | 2333 | 2,35 | 36.3 | 783 | 2569 |
| | | | | | | N550 | 2,40 | 37.0 | 776 | 2546 | 2,63 | 40.6 | 848 | 2782 |
| | | | | | | N555 | 2,65 | 40.9 | 795 | 2608 | 2,91F | 44.9F | 870 | 2854 |
| | | | | | | N160 | 2,57 | 39.7 | 756 | 2480 | 2,86 | 44.1 | 831 | 2726 |
| | | | | | | N560 | 2,72 | 42.0 | 782 | 2566 | 3,00 | 46.6 | 861 | 2825 |
| 8,4 | 130 | Barnes | TSX | 69,0 | 2.717 | N540 | 1,94 | 29.9 | 679 | 2228 | 2,33 | 36.0 | 804 | 2638 |
| | | | | | | N150 | 1,70 | 26.2 | 616 | 2021 | 2,22 | 34.3 | 769 | 2523 |
| | | | | | | N550 | 2,03 | 31.3 | 695 | 2280 | 2,50 | 38.6 | 819 | 2687 |

| 6,5 Creedmoor | | | | | | cont. | | | | | | | | |
|---------------|-------|---------|------------------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 8,4 | 130 | Berger | AR Hybrid OTM Tactical | 68,0 | 2.677 | N150 | 2,10 | 32.4 | 744 | 2441 | 2,37 | 36.6 | 816 | 2677 |
| | | | | | | N550 | 2,43 | 37.5 | 779 | 2556 | 2,63 | 40.6 | 856 | 2808 |
| | | | | | | N555 | 2,60 | 40.1 | 794 | 2605 | 2,86 | 44.1 | 869 | 2851 |
| | | | | | | N160 | 2,61 | 40.3 | 784 | 2572 | 2,86 | 44.1 | 858 | 2815 |
| | | | | | | N560 | 2,79 | 43.1 | 788 | 2585 | 3,06 | 47.2 | 876 | 2874 |
| 8,4 | 130 | Berger | VLD Target | 71,0 | 2.795 | N540 | 2,21 | 34.1 | 765 | 2510 | 2,45 | 37.8 | 847 | 2779 |
| | | | | | | N150 | 2,10 | 32.4 | 738 | 2421 | 2,34 | 36.1 | 809 | 2654 |
| | | | | | | N550 | 2,37 | 36.6 | 779 | 2556 | 2,62 | 40.4 | 857 | 2812 |
| | | | | | | N555 | 2,65 | 40.9 | 806 | 2644 | 2,86 | 44.1 | 869 | 2851 |
| | | | | | | N160 | 2,61 | 40.3 | 784 | 2572 | 2,85 | 44.0 | 857 | 2812 |
| | | | | | | N560 | 2,78 | 42.9 | 790 | 2592 | 3,03 | 46.8 | 875 | 2871 |
| | | | | | | N565 | 2,88 | 44.4 | 795 | 2608 | 3,16 | 48.8 | 874 | 2867 |
| 8,4 | 130 | Swift | Scirocco II | 67,3 | 2.650 | N150 | 2,03 | 31.3 | 728 | 2388 | 2,29 | 35.3 | 802 | 2631 |
| | | | | | | N550 | 2,32 | 35.8 | 753 | 2470 | 2,55 | 39.4 | 830 | 2723 |
| | | | | | | N555 | 2,55 | 39.4 | 782 | 2566 | 2,84 | 43.8 | 851 | 2792 |
| | | | | | | N160 | 2,50 | 38.6 | 790 | 2592 | 2,71 | 41.8 | 822 | 2697 |
| | | | | | | N165 | 2,85 | 44.0 | 795 | 2608 | 2,90F | 44.8F | 808 | 2651 |
| | | | | | | N560 | 2,67 | 41.2 | 765 | 2510 | 3,04 | 46.9 | 857 | 2812 |
| 8,7 | 135 | Hornady | A-TIP | 71,0 | 2.795 | N150 | 2,05 | 31.6 | 718 | 2356 | 2,32 | 35.8 | 784 | 2572 |
| | | | | | | N555 | 2,56 | 39.5 | 786 | 2579 | 2,80 | 43.2 | 852 | 2795 |
| | | | | | | N160 | 2,50 | 38.6 | 760 | 2493 | 2,74 | 42.3 | 821 | 2694 |
| | | | | | | N165 | 2,80 | 43.2 | 790 | 2592 | 3,10C | 47.8C | 862 | 2828 |
| | | | | | | N560 | 2,70 | 41.7 | 777 | 2549 | 2,97 | 45.8 | 860 | 2822 |
| | | | | | | N565 | 2,80 | 43.2 | 773 | 2536 | 3,10C | 47.8C | 842 | 2762 |
| 8,8 | 136 | Lapua | Scenar-L | 68,0 | 2.677 | N540 | 2,10 | 32.4 | 739 | 2425 | 2,44 | 37.7 | 840 | 2756 |
| | | | | | | N150 | 2,08 | 32.1 | 724 | 2375 | 2,48 | 38.3 | 833 | 2733 |
| | | | | | | N550 | 2,32 | 35.8 | 756 | 2480 | 2,66 | 41.1 | 865 | 2838 |
| | | | | | | N555 | 2,60 | 40.1 | 791 | 2595 | 2,86C | 44.1C | 860 | 2822 |
| | | | | | | N160 | 2,59 | 40.0 | 770 | 2526 | 2,98C | 46.0C | 870 | 2854 |
| 9,0 | 139 | Lapua | Scenar | 69,0 | 2.717 | N540 | 2,00 | 30.9 | 713 | 2339 | 2,38 | 36.7 | 817 | 2680 |
| | | | | | | N150 | 1,90 | 29.3 | 690 | 2264 | 2,30 | 35.5 | 793 | 2602 |
| | | | | | | N550 | 2,20 | 34.0 | 735 | 2411 | 2,57 | 39.7 | 841 | 2759 |
| | | | | | | N555 | 2,45 | 37.8 | 762 | 2500 | 2,76 | 42.6 | 838 | 2749 |
| | | | | | | N160 | 2,14 | 33.0 | 700 | 2297 | 2,73 | 42.1 | 833 | 2733 |
| | | | | | | N560 | 2,62 | 40.4 | 754 | 2474 | 2,88 | 44.4 | 832 | 2730 |
| 9,1 | 140 | Berger | Hybrid Target | 69,0 | 2.717 | N150 | 2,03 | 31.3 | 710 | 2329 | 2,29 | 35.3 | 778 | 2552 |
| | | | | | | N550 | 2,29 | 35.3 | 745 | 2444 | 2,53 | 39.0 | 816 | 2677 |
| | | | | | | N555 | 2,60 | 40.1 | 779 | 2556 | 2,81 | 43.4 | 835 | 2740 |
| | | | | | | N160 | 2,41 | 37.2 | 744 | 2441 | 2,71 | 41.8 | 813 | 2667 |
| | | | | | | N560 | 2,66 | 41.1 | 758 | 2487 | 2,94 | 45.4 | 837 | 2746 |
| | | | | | | N565 | 2,77 | 42.7 | 767 | 2516 | 3,05F | 47.1F | 833 | 2733 |
| 9,1 | 140 | Lapua | Naturalis N563 | 69,2 | 2.724 | N540 | 1,88 | 29.0 | 671 | 2201 | 2,20 | 34.0 | 769 | 2523 |
| | | | | | | N150 | 1,67 | 25.8 | 605 | 1985 | 2,05 | 31.6 | 713 | 2339 |
| | | | | | | N550 | 1,98 | 30.6 | 678 | 2224 | 2,33 | 36.0 | 776 | 2546 |
| 9,1 | 140 | Nosler | Accubond | 71,0 | 2.795 | N540 | 1,96 | 30.2 | 685 | 2247 | 2,30 | 35.5 | 790 | 2592 |
| | | | | | | N150 | 1,87 | 28.9 | 664 | 2178 | 2,27 | 35.0 | 770 | 2526 |
| | | | | | | N550 | 2,08 | 32.1 | 697 | 2287 | 2,48 | 38.3 | 808 | 2651 |
| 9,2 | 142 | Sierra | HPBT | 68,5 | 2.697 | N150 | 1,97 | 30.4 | 684 | 2244 | 2,22 | 34.3 | 752 | 2467 |
| | | | | | | N550 | 2,30 | 35.5 | 737 | 2418 | 2,53 | 39.0 | 812 | 2664 |
| | | | | | | N555 | 2,50 | 38.6 | 748 | 2454 | 2,72 | 42.0 | 818 | 2684 |
| | | | | | | N160 | 2,38 | 36.7 | 718 | 2356 | 2,68 | 41.4 | 801 | 2628 |
| | | | | | | N560 | 2,63 | 40.6 | 752 | 2467 | 2,86 | 44.1 | 828 | 2717 |
| | | | | | | N565 | 2,75 | 42.4 | 751 | 2464 | 3,04 | 46.9 | 829 | 2720 |
| 9,3 | 143 | Hornady | ELD-X | 68,8 | 2.709 | N150 | 1,98 | 30.6 | 695 | 2280 | 2,23 | 34.4 | 763 | 2503 |

| 6,5 Creedmoor | | | | | | cont. | | | | | | | | | |
|-----------------------------------|-------|---------|--------------------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|--|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] | |
| | | | | | | N550 | 2,24 | 34.6 | 741 | 2431 | 2,44 | 37.7 | 801 | 2628 | |
| | | | | | | N555 | 2,45 | 37.8 | 742 | 2434 | 2,70 | 41.7 | 812 | 2664 | |
| | | | | | | N160 | 2,36 | 36.4 | 729 | 2392 | 2,68 | 41.4 | 801 | 2628 | |
| | | | | | | N560 | 2,63 | 40.6 | 749 | 2457 | 2,91 | 44.9 | 833 | 2733 | |
| | | | | | | N565 | 2,74 | 42.3 | 760 | 2493 | 3,05 | 47.1 | 824 | 2703 | |
| 9,3 | 144 | Berger | Long Range Hybrid Target | 71,0 | 2.795 | N150 | 2,00 | 30.9 | 681 | 2234 | 2,29 | 35.3 | 750 | 2461 | |
| | | | | | | N550 | 2,30 | 35.5 | 739 | 2425 | 2,53 | 39.0 | 808 | 2651 | |
| | | | | | | N555 | 2,57 | 39.7 | 778 | 2552 | 2,80 | 43.2 | 837 | 2746 | |
| | | | | | | N160 | 2,50 | 38.6 | 722 | 2369 | 2,79 | 43.1 | 804 | 2638 | |
| | | | | | | N560 | 2,70 | 41.7 | 767 | 2516 | 2,89 | 44.6 | 835 | 2740 | |
| | | | | | | N565 | 2,80 | 43.2 | 775 | 2543 | 3,05C | 47.1C | 837 | 2746 | |
| 9,3 | 144 | Lapua | FMJBT | 69,0 | 2.717 | N540 | 1,85 | 28.5 | 674 | 2211 | 2,26 | 34.9 | 788 | 2585 | |
| | | | | | | N150 | 1,79 | 27.6 | 662 | 2172 | 2,29 | 35.3 | 781 | 2562 | |
| | | | | | | N550 | 2,03 | 31.3 | 695 | 2280 | 2,44 | 37.7 | 812 | 2664 | |
| | | | | | | N555 | 2,40 | 37.0 | 732 | 2402 | 2,67 | 41.2 | 802 | 2631 | |
| | | | | | | N160 | 2,17 | 33.5 | 683 | 2241 | 2,61 | 40.3 | 782 | 2566 | |
| | | | | | | N560 | 2,57 | 39.7 | 737 | 2418 | 2,86 | 44.1 | 823 | 2700 | |
| | | | | | | N565 | 2,69 | 41.5 | 749 | 2457 | 2,96 | 45.7 | 821 | 2694 | |
| 9,9 | 153 | Hornady | A-TIP | 70,7 | 2.783 | N160 | 2,25 | 34.7 | 685 | 2247 | 2,51 | 38.7 | 742 | 2434 | |
| | | | | | | N165 | 2,40 | 37.0 | 684 | 2244 | 2,86 | 44.1 | 785 | 2575 | |
| | | | | | | N560 | 2,45 | 37.8 | 704 | 2310 | 2,75 | 42.4 | 787 | 2582 | |
| | | | | | | N565 | 2,65 | 40.9 | 726 | 2382 | 2,96C | 45.7C | 797 | 2615 | |
| 9,9 | 153.5 | Berger | Long Range Hybrid Target | 71,0 | 2.795 | N540 | 2,08 | 32.1 | 701 | 2300 | 2,33 | 36.0 | 770 | 2526 | |
| | | | | | | N150 | 1,97 | 30.4 | 671 | 2201 | 2,22 | 34.3 | 739 | 2425 | |
| | | | | | | N550 | 2,26 | 34.9 | 709 | 2326 | 2,47 | 38.1 | 776 | 2546 | |
| | | | | | | N555 | 2,45 | 37.8 | 729 | 2392 | 2,70 | 41.7 | 798 | 2618 | |
| | | | | | | N160 | 2,42 | 37.3 | 714 | 2343 | 2,68 | 41.4 | 783 | 2569 | |
| | | | | | | N165 | 2,72 | 42.0 | 746 | 2448 | 3,04C | 46.9C | 817 | 2680 | |
| | | | | | | N560 | 2,60 | 40.1 | 723 | 2372 | 2,84 | 43.8 | 800 | 2625 | |
| | | | | | | N565 | 2,70 | 41.7 | 737 | 2418 | 3,03C | 46.8C | 807 | 2648 | |
| 10,1 | 156 | Lapua | Mega | 68,5 | 2.697 | N540 | 1,83 | 28.2 | 635 | 2083 | 2,20 | 34.0 | 739 | 2425 | |
| | | | | | | N150 | 1,71 | 26.4 | 603 | 1978 | 2,17 | 33.5 | 727 | 2385 | |
| | | | | | | N550 | 1,99 | 30.7 | 656 | 2152 | 2,37 | 36.6 | 763 | 2503 | |
| | | | | | | N160 | 1,93 | 29.8 | 625 | 2051 | 2,48 | 38.3 | 754 | 2474 | |
| 10,1 | 156 | Norma | Vulkan | 69,0 | 2.717 | N140 | 1,82 | 28.1 | 629 | 2064 | 2,05 | 31.6 | 690 | 2264 | |
| | | | | | | N540 | 1,82 | 28.1 | 632 | 2073 | 2,13 | 32.9 | 714 | 2343 | |
| | | | | | | N150 | 1,76 | 27.2 | 618 | 2028 | 1,99 | 30.7 | 680 | 2231 | |
| | | | | | | N550 | 1,98 | 30.6 | 656 | 2152 | 2,30 | 35.5 | 739 | 2425 | |
| | | | | | | N160 | 2,23 | 34.4 | 676 | 2218 | 2,52 | 38.9 | 749 | 2457 | |
| | | | | | | N560 | 2,40 | 37.0 | 689 | 2260 | 2,66 | 41.1 | 764 | 2507 | |
| | | | | | | N565 | 2,52 | 38.9 | 703 | 2306 | 2,80 | 43.2 | 770 | 2526 | |
| C = Compressed load F = Case full | | | | | | | | | | | | | | | |

| | | |
|---------|--------------|---|
| 6,5 PRC | Test barrel: | 610 mm (24"), 1 in 8" twist |
| | Primers: | Large Rifle Magnum, Federal 215 |
| | Cases: | Lapua, trim-to length 51,18 mm (2.015") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|---------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 8,7 | 135 | Hornady | A-TIP | 75,0 | 2.953 | N555 | 2,90 | 44.8 | 816 | 2677 | 3,30 | 50.9 | 895 | 2936 |
| | | | | | | N160 | 2,90 | 44.8 | 812 | 2664 | 3,13 | 48.3 | 868 | 2848 |
| | | | | | | N165 | 3,25 | 50.2 | 831 | 2726 | 3,56 | 54.9 | 903 | 2963 |
| | | | | | | N560 | 3,15 | 48.6 | 831 | 2726 | 3,45 | 53.2 | 906 | 2972 |

| 6,5 PRC | | | | | | cont. | | | | | | | | |
|-----------------------------------|-------|---------|--------------------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N565 | 3,37 | 52.0 | 836 | 2743 | 3,72 | 57.4 | 914 | 2999 |
| | | | | | | N568 | 3,60 | 55.6 | 839 | 2753 | 3,95C | 61.0C | 905 | 2969 |
| 9,1 | 140 | Hornady | GMX | 71,5 | 2.815 | N165 | 2,80 | 43.2 | 754 | 2474 | 3,07 | 47.4 | 812 | 2664 |
| | | | | | | N565 | 2,90 | 44.8 | 760 | 2493 | 3,24 | 50.0 | 836 | 2743 |
| | | | | | | N568 | 3,09 | 47.7 | 763 | 2503 | 3,48 | 53.7 | 847 | 2779 |
| | | | | | | N570 | 3,02 | 46.6 | 783 | 2569 | 3,35 | 51.7 | 862 | 2828 |
| 9,2 | 142 | Sierra | HPBT | 74,5 | 2.933 | N170 | 3,00 | 46.3 | 776 | 2546 | 3,27 | 50.5 | 817 | 2680 |
| | | | | | | N570 | 3,00 | 46.3 | 802 | 2631 | 3,41 | 52.6 | 865 | 2838 |
| | | | | | | 20N29 | 3,30 | 50.9 | 783 | 2569 | 3,95F | 61.0F | 856 | 2808 |
| 9,3 | 144 | Berger | Long Range Hybrid Target | 75,0 | 2.953 | N165 | 2,85 | 44.0 | 761 | 2497 | 3,25 | 50.2 | 840 | 2756 |
| | | | | | | N565 | 3,20 | 49.4 | 820 | 2690 | 3,51 | 54.2 | 862 | 2828 |
| | | | | | | N170 | 3,19 | 49.2 | 771 | 2530 | 3,55 | 54.8 | 844 | 2769 |
| | | | | | | N568 | 3,40 | 52.5 | 809 | 2654 | 3,82 | 59.0 | 870 | 2854 |
| | | | | | | N570 | 3,40 | 52.5 | 830 | 2723 | 3,61 | 55.7 | 883 | 2897 |
| | | | | | | 24N41 | 3,25 | 50.2 | 776 | 2546 | 3,63 | 56.0 | 835 | 2740 |
| 9,3 | 144 | Lapua | FMJBT | 72,5 | 2.854 | N555 | 3,00 | 46.3 | 804 | 2638 | 3,18 | 49.1 | 844 | 2769 |
| | | | | | | N160 | 3,00 | 46.3 | 813 | 2667 | 3,08 | 47.5 | 830 | 2723 |
| | | | | | | N165 | 3,08 | 47.5 | 785 | 2575 | 3,40 | 52.5 | 856 | 2808 |
| | | | | | | N560 | 3,00 | 46.3 | 783 | 2569 | 3,33 | 51.4 | 860 | 2822 |
| | | | | | | N565 | 3,16 | 48.8 | 793 | 2602 | 3,49 | 53.9 | 864 | 2835 |
| | | | | | | N170 | 3,18 | 49.1 | 767 | 2516 | 3,52 | 54.3 | 843 | 2766 |
| | | | | | | N568 | 3,41 | 52.6 | 794 | 2605 | 3,81 | 58.8 | 873 | 2864 |
| | | | | | | N570 | 3,21 | 49.5 | 801 | 2628 | 3,58 | 55.2 | 878 | 2881 |
| | | | | | | 24N41 | 3,28 | 50.6 | 766 | 2513 | 3,72 | 57.4 | 845 | 2772 |
| 9,9 | 153 | Hornady | A-TIP | 75,0 | 2.953 | N165 | 2,89 | 44.6 | 743 | 2438 | 3,23 | 49.8 | 811 | 2661 |
| | | | | | | N565 | 2,98 | 46.0 | 748 | 2454 | 3,38 | 52.2 | 825 | 2707 |
| | | | | | | N170 | 3,14 | 48.5 | 741 | 2431 | 3,47 | 53.6 | 813 | 2667 |
| | | | | | | N568 | 3,16 | 48.8 | 752 | 2467 | 3,70 | 57.1 | 839 | 2753 |
| | | | | | | N570 | 3,02 | 46.6 | 765 | 2510 | 3,41 | 52.6 | 838 | 2749 |
| | | | | | | 24N41 | 3,38 | 52.2 | 751 | 2464 | 3,80 | 58.6 | 828 | 2717 |
| C = Compressed load F = Case full | | | | | | | | | | | | | | |

.260 Remington

Test barrel:

475 mm (18¾"), 1 in 9" twist

Primers:

Large Rifle

Cases:

Lapua .260 Remington, trim-to length 51,50 mm (2.028")

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|--------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 6,5 | 100 | Lapua | FMJ | 66,0 | 2.598 | N140 | 2,08 | 32.1 | 765 | 2510 | 2,44 | 37.7 | 862 | 2828 |
| | | | | | | N540 | 2,32 | 35.8 | 797 | 2615 | 2,63 | 40.6 | 891 | 2923 |
| | | | | | | N150 | 2,12 | 32.7 | 769 | 2523 | 2,51 | 38.7 | 861 | 2825 |
| 6,5 | 100 | Lapua | Scenar | 69,0 | 2.717 | N140 | 2,33 | 36.0 | 816 | 2677 | 2,62 | 40.4 | 904 | 2966 |
| | | | | | | N540 | 2,49 | 38.4 | 823 | 2700 | 2,78 | 42.9 | 931 | 3054 |
| | | | | | | N150 | 2,43 | 37.5 | 819 | 2687 | 2,70 | 41.7 | 904 | 2966 |
| 6,5 | 100 | Sierra | HPFB | 67,5 | 2.657 | N140 | 2,30 | 35.5 | 825 | 2708 | 2,59 | 39.9 | 906 | 2973 |
| | | | | | | N540 | 2,39 | 36.9 | 831 | 2725 | 2,67 | 41.2 | 912 | 2992 |
| | | | | | | N150 | 2,31 | 35.7 | 813 | 2669 | 2,61 | 40.3 | 892 | 2926 |
| 7,0 | 108 | Lapua | Scenar | 71,0 | 2.795 | N540 | 2,35 | 36.2 | 802 | 2631 | 2,58 | 39.9 | 877 | 2876 |
| | | | | | | N150 | 2,28 | 35.1 | 791 | 2594 | 2,54 | 39.1 | 865 | 2837 |
| | | | | | | N160 | 2,66 | 41.0 | 814 | 2670 | 2,92 | 45.0 | 898 | 2947 |
| 7,8 | 120 | Barnes | TTSX BT | 70,4 | 2.772 | N140 | 2,13 | 32.9 | 710 | 2329 | 2,45 | 37.8 | 805 | 2641 |
| | | | | | | N540 | 2,21 | 34.1 | 749 | 2457 | 2,51 | 38.7 | 848 | 2782 |
| | | | | | | N150 | 1,91 | 29.5 | 672 | 2205 | 2,40 | 37.0 | 800 | 2625 |

LIGHT GREY TEXT BOX INDICATES MAXIMUM LOAD - USE WITH CAUTION!
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED

| .260 Remington | | | | | | cont. | | | | | | | | |
|-------------------|-------|--------|---------------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 7,8 | 120 | Berger | BT Target | 71,0 | 2.795 | N540 | 2,29 | 35.3 | 792 | 2598 | 2,57 | 39.7 | 876 | 2874 |
| | | | | | | N150 | 2,19 | 33.8 | 765 | 2510 | 2,49 | 38.4 | 847 | 2779 |
| | | | | | | N550 | 2,52 | 38.9 | 801 | 2628 | 2,76 | 42.6 | 886 | 2907 |
| | | | | | | N160 | 2,73 | 42.1 | 810 | 2657 | 2,97 | 45.8 | 885 | 2904 |
| 7,8 ¹⁾ | 120 | Lapua | Scenar-L | 71,0 | 2.795 | N540 | 2,29 | 35.3 | 739 | 2425 | 2,58 | 39.8 | 855 | 2805 |
| | | | | | | N150 | 2,32 | 35.8 | 761 | 2497 | 2,55 | 39.4 | 834 | 2736 |
| | | | | | | N550 | 2,54 | 39.2 | 788 | 2585 | 2,73 | 42.1 | 859 | 2818 |
| | | | | | | N160 | 2,71 | 41.8 | 771 | 2530 | 2,94 | 45.4 | 851 | 2792 |
| 7,8 | 120 | Speer | SP | 71,0 | 2.795 | N540 | 2,22 | 34.2 | 749 | 2456 | 2,48 | 38.2 | 825 | 2706 |
| | | | | | | N550 | 2,36 | 36.5 | 765 | 2511 | 2,64 | 40.7 | 835 | 2741 |
| | | | | | | N160 | 2,47 | 38.2 | 755 | 2478 | 2,80 | 43.2 | 838 | 2750 |
| 8,0 | 123 | Lapua | Scenar | 71,0 | 2.795 | N150 | 2,15 | 33.2 | 733 | 2405 | 2,50 | 38.6 | 816 | 2677 |
| | | | | | | N550 | 2,43 | 37.5 | 697 | 2287 | 2,69 | 41.5 | 837 | 2746 |
| | | | | | | N160 | 2,67 | 41.2 | 767 | 2516 | 2,89 | 44.6 | 841 | 2759 |
| 8,4 | 130 | Barnes | TSX | 70,8 | 2.787 | N540 | 2,17 | 33.5 | 720 | 2362 | 2,44 | 37.7 | 810 | 2657 |
| | | | | | | N550 | 2,26 | 34.9 | 717 | 2352 | 2,59 | 40.0 | 816 | 2677 |
| | | | | | | N160 | 2,32 | 35.8 | 702 | 2303 | 2,75 | 42.4 | 808 | 2651 |
| 8,5 | 130 | Berger | Hybrid OTM Tactical | 71,0 | 2.795 | N540 | 2,22 | 34.3 | 762 | 2500 | 2,51 | 38.7 | 844 | 2769 |
| | | | | | | N150 | 2,17 | 33.5 | 746 | 2448 | 2,46 | 38.0 | 821 | 2694 |
| | | | | | | N550 | 2,45 | 37.8 | 777 | 2549 | 2,70 | 41.7 | 855 | 2805 |
| | | | | | | N160 | 2,71 | 41.8 | 786 | 2579 | 2,97 | 45.8 | 862 | 2828 |
| 8,5 | 130 | Berger | VLD Target | 71,0 | 2.795 | N140 | 2,11 | 32.6 | 739 | 2425 | 2,38 | 36.7 | 814 | 2671 |
| | | | | | | N540 | 2,19 | 33.8 | 761 | 2497 | 2,48 | 38.3 | 843 | 2766 |
| | | | | | | N150 | 2,09 | 32.3 | 741 | 2431 | 2,42 | 37.3 | 815 | 2674 |
| | | | | | | N550 | 2,46 | 38.0 | 778 | 2552 | 2,69 | 41.5 | 856 | 2808 |
| | | | | | | N555 | 2,59 | 40.0 | 792 | 2598 | 2,84 | 43.8 | 864 | 2835 |
| 8,5 | 130 | Swift | Scirocco II | 71,0 | 2.795 | N140 | 2,06 | 31.8 | 719 | 2359 | 2,32 | 35.8 | 785 | 2575 |
| | | | | | | N540 | 2,12 | 32.7 | 734 | 2408 | 2,45 | 37.8 | 819 | 2687 |
| | | | | | | N150 | 2,02 | 31.2 | 722 | 2369 | 2,34 | 36.1 | 795 | 2608 |
| | | | | | | N550 | 2,30 | 35.5 | 742 | 2434 | 2,60 | 40.1 | 828 | 2717 |
| | | | | | | N560 | 2,74 | 42.3 | 762 | 2500 | 3,00 | 46.3 | 846 | 2776 |
| 8,8 | 135 | Berger | Classic Hunter | 71,0 | 2.795 | N540 | 2,13 | 32.9 | 736 | 2415 | 2,42 | 37.3 | 819 | 2687 |
| | | | | | | N150 | 2,09 | 32.3 | 721 | 2365 | 2,37 | 36.6 | 799 | 2621 |
| | | | | | | N550 | 2,42 | 37.3 | 758 | 2487 | 2,65 | 40.9 | 833 | 2733 |
| | | | | | | N160 | 2,59 | 40.0 | 757 | 2484 | 2,85 | 44.0 | 830 | 2723 |
| | | | | | | N560 | 2,79 | 43.1 | 768 | 2520 | 3,02 | 46.6 | 846 | 2776 |
| 8,8 ¹⁾ | 136 | Lapua | Scenar-L | 71,0 | 2.795 | N550 | 2,47 | 38.1 | 755 | 2477 | 2,70 | 41.7 | 835 | 2740 |
| | | | | | | N555 | 2,60 | 40.1 | 769 | 2523 | 2,87C | 44.3C | 854 | 2802 |
| | | | | | | N160 | 2,71 | 41.8 | 758 | 2487 | 2,99 | 46.1 | 841 | 2759 |
| | | | | | | N560 | 2,82 | 43.5 | 762 | 2500 | 3,10 | 47.8 | 843 | 2766 |
| 9,0 | 139 | Lapua | Scenar | 71,0 | 2.795 | N550 | 2,40 | 37.0 | 756 | 2480 | 2,56 | 39.5 | 810 | 2657 |
| | | | | | | N555 | 2,59 | 40.0 | 759 | 2490 | 2,85C | 44.0C | 834 | 2736 |
| | | | | | | N160 | 2,60 | 40.1 | 756 | 2480 | 2,81 | 43.4 | 815 | 2674 |
| | | | | | | N560 | 2,72 | 42.0 | 750 | 2461 | 2,99 | 46.1 | 830 | 2723 |
| 9,1 | 140 | Berger | Elite Hunter | 71,0 | 2.795 | N150 | 2,05 | 31.6 | 702 | 2303 | 2,34 | 36.1 | 781 | 2562 |
| | | | | | | N550 | 2,35 | 36.3 | 738 | 2421 | 2,57 | 39.7 | 811 | 2661 |
| | | | | | | N160 | 2,53 | 36.3 | 736 | 2415 | 2,79 | 43.1 | 811 | 2661 |
| | | | | | | N560 | 2,75 | 42.4 | 753 | 2470 | 2,99 | 46.1 | 834 | 2736 |
| | | | | | | N565 | 2,81 | 43.4 | 757 | 2484 | 3,17 | 48.9 | 838 | 2749 |
| 9,1 | 140 | Berger | VLD Target | 71,0 | 2.795 | N540 | 2,12 | 32.7 | 724 | 2375 | 2,44 | 37.7 | 806 | 2644 |
| | | | | | | N150 | 2,11 | 32.6 | 712 | 2336 | 2,37 | 36.6 | 783 | 2569 |
| | | | | | | N550 | 2,39 | 36.9 | 744 | 2441 | 2,60 | 40.1 | 814 | 2671 |
| | | | | | | N160 | 2,61 | 40.3 | 751 | 2464 | 2,87 | 44.3 | 824 | 2703 |
| | | | | | | N560 | 2,72 | 42.0 | 750 | 2461 | 2,99 | 46.1 | 833 | 2733 |

| .260 Remington | | | | | | cont. | | | | | | | | |
|--|-------|--------|--------------------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N565 | 2,82 | 43.5 | 756 | 2480 | 3,13 | 48.3 | 833 | 2733 |
| 9,1 | 140 | Lapua | Naturalis N507 | 73,3 | 2.886 | N550 | 2,17 | 33.5 | 688 | 2257 | 2,54 | 39.2 | 776 | 2546 |
| | | | | | | N160 | 2,25 | 34.7 | 673 | 2208 | 2,61 | 40.3 | 766 | 2513 |
| | | | | | | N560 | 2,47 | 38.1 | 681 | 2234 | 2,84 | 43.8 | 779 | 2556 |
| 9,1 | 140 | Lapua | Naturalis N563 | 70,0 | 2.756 | N150 | 1,90 | 29.3 | 667 | 2188 | 2,20 | 34.0 | 747 | 2451 |
| | | | | | | N550 | 2,17 | 33.5 | 704 | 2310 | 2,49 | 38.4 | 793 | 2602 |
| | | | | | | N555 | 2,37 | 36.6 | 721 | 2365 | 2,69 | 41.5 | 797 | 2615 |
| | | | | | | N160 | 2,20 | 34.0 | 689 | 2260 | 2,62 | 40.4 | 787 | 2582 |
| | | | | | | N560 | 2,57 | 39.7 | 720 | 2362 | 2,92 | 45.1 | 817 | 2680 |
| 9,1 ¹⁾ | 140 | Nosler | Accubond | 70,0 | 2.756 | N550 | 2,34 | 36.1 | 720 | 2362 | 2,65 | 40.9 | 811 | 2661 |
| | | | | | | N160 | 2,43 | 37.5 | 714 | 2343 | 2,85C | 44.0C | 796 | 2612 |
| | | | | | | N560 | 2,56 | 39.5 | 736 | 2415 | 2,90C | 44.8C | 823 | 2700 |
| 9,1 | 140 | Swift | A-Frame | 71,0 | 2.795 | N550 | 2,04 | 31.5 | 670 | 2198 | 2,42 | 37.3 | 764 | 2507 |
| | | | | | | N160 | 1,85 | 28.5 | 627 | 2057 | 2,48 | 38.3 | 752 | 2467 |
| | | | | | | N560 | 2,40 | 37.0 | 700 | 2297 | 2,84 | 43.8 | 799 | 2621 |
| | | | | | | N565 | 2,59 | 40.0 | 724 | 2375 | 2,92 | 45.1 | 801 | 2628 |
| 9,3 | 144 | Berger | Long Range Hybrid Target | 71,0 | 2.795 | N540 | 2,18 | 33.6 | 731 | 2398 | 2,47 | 38.1 | 803 | 2635 |
| | | | | | | N150 | 2,10 | 32.4 | 697 | 2287 | 2,35 | 36.3 | 767 | 2516 |
| | | | | | | N550 | 2,37 | 36.6 | 741 | 2431 | 2,60 | 40.1 | 813 | 2667 |
| | | | | | | N555 | 2,62 | 40.4 | 759 | 2490 | 2,93C | 45.2C | 833 | 2733 |
| | | | | | | N160 | 2,63 | 40.6 | 740 | 2428 | 2,90C | 44.8C | 813 | 2667 |
| | | | | | | N560 | 2,78 | 42.9 | 750 | 2461 | 3,07F | 47.4F | 832 | 2730 |
| 9,3 | 144 | Lapua | FMJBT | 71,0 | 2.795 | N550 | 2,15 | 33.2 | 677 | 2221 | 2,49 | 38.4 | 768 | 2520 |
| | | | | | | N555 | 2,41 | 37.2 | 727 | 2385 | 2,66 | 41.1 | 799 | 2621 |
| | | | | | | N160 | 2,33 | 36.0 | 680 | 2231 | 2,66 | 41.1 | 762 | 2500 |
| | | | | | | N560 | 2,56 | 39.5 | 786 | 2579 | 2,90 | 44.8 | 780 | 2559 |
| | | | | | | N565 | 2,70 | 41.7 | 736 | 2415 | 2,99 | 46.1 | 812 | 2664 |
| 9,9 | 153.5 | Berger | Long Range Hybrid Target | 71,0 | 2.795 | N540 | 2,12 | 32.7 | 691 | 2267 | 2,40 | 37.0 | 768 | 2520 |
| | | | | | | N150 | 2,00 | 30.9 | 664 | 2178 | 2,27 | 35.0 | 729 | 2392 |
| | | | | | | N550 | 2,30 | 35.5 | 707 | 2320 | 2,53 | 39.0 | 780 | 2559 |
| | | | | | | N555 | 2,60 | 40.1 | 734 | 2408 | 2,89C | 44.6C | 804 | 2638 |
| | | | | | | N160 | 2,60 | 40.1 | 710 | 2329 | 2,83C | 43.7C | 778 | 2552 |
| | | | | | | N560 | 2,75 | 42.4 | 709 | 2326 | 3,03C | 46.8C | 805 | 2641 |
| 10,1 | 155 | Lapua | Mega | 69,5 | 2.736 | N160 | 2,14 | 33.0 | 651 | 2134 | 2,41 | 37.1 | 711 | 2332 |
| | | | | | | N165 | 2,52 | 38.8 | 673 | 2208 | 2,83 | 43.7 | 755 | 2478 |
| | | | | | | N560 | 2,37 | 36.6 | 651 | 2137 | 2,72 | 42.0 | 735 | 2412 |
| C = Compressed load F = Case full ¹⁾ Test barrel 600 mm (23½"), 1 in 9" twist | | | | | | | | | | | | | | |

| | | |
|-------------------------|--------------|---|
| 6,5 x 55 Swedish Mauser | Test barrel: | 670 mm (26½"), 1 in 8½" twist |
| | Primers: | Large Rifle |
| | Cases: | Lapua, trim-to length 54,80 mm (2.157") |
| | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|--------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 5,5 | 85 | Sierra | HP | 71,1 | 2.799 | N150 | 2,88 | 44.5 | 937 | 3073 | 3,03 | 46.8 | 1013 | 3323 |
| 6,5 | 100 | Lapua | FMJ | 70,0 | 2.756 | N530 | 2,34 | 36.1 | 880 | 2887 | 2,53 | 39.0 | 938 | 3077 |
| | | | | | | N135 | 2,21 | 34.1 | 802 | 2631 | 2,55A | 39.3A | 894 | 2933 |
| | | | | | | N140 | 2,38 | 36.7 | 810 | 2657 | 2,75 | 42.4 | 910 | 2986 |
| | | | | | | N540 | 2,71 | 41.8 | 910 | 2986 | 2,90 | 44.8 | 973 | 3192 |
| | | | | | | N150 | 2,45 | 37.8 | 823 | 2700 | 2,79 | 43.0 | 920 | 2690 |
| | | | | | | N160 | 3,08 | 47.5 | 862 | 2828 | 3,39 | 52.3 | 946 | 3104 |
| 6,5 | 100 | Lapua | Scenar | 75,0 | 2.953 | N530 | 2,35 | 36.3 | 899 | 2949 | 2,54 | 39.2 | 951 | 3120 |
| | | | | | | N135 | 2,15 | 33.2 | 790 | 2592 | 2,44 | 37.6 | 889 | 2917 |

LIGHT GREY TEXT BOX INDICATES MAXIMUM LOAD - USE WITH CAUTION!
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED

| 6,5 x 55 Swedish Mauser | | | | | | cont. | | | | | | | | |
|-------------------------|-------|--------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N140 | 2,32 | 35.8 | 790 | 2592 | 2,64 | 40.7 | 915 | 3002 |
| | | | | | | N540 | 2,35 | 36.3 | 790 | 2592 | 2,70 | 41.7 | 924 | 3031 |
| | | | | | | N150 | 2,37 | 36.6 | 793 | 2602 | 2,69A | 41.5A | 870 | 2853 |
| | | | | | | N550 | 2,58 | 39.8 | 790 | 2592 | 2,97 | 45.8 | 938 | 3077 |
| | | | | | | N160 | 2,78 | 42.9 | 790 | 2592 | 3,01 | 46.4 | 928 | 3045 |
| 6,5 | 100 | Sierra | HP | 72,4 | 2.850 | N140 | 2,62 | 40.4 | 860 | 2822 | 2,78 | 42.8 | 911 | 2990 |
| | | | | | | N540 | 2,65 | 40.9 | 858 | 2815 | 2,88 | 44.4 | 938 | 3078 |
| | | | | | | N150 | 2,69 | 41.5 | 860 | 2822 | 2,86 | 44.1 | 915 | 3003 |
| | | | | | | N550 | 2,82 | 43.5 | 884 | 2900 | 3,03 | 46.8 | 960 | 3150 |
| | | | | | | N160 | 3,13 | 48.3 | 878 | 2881 | 3,33 | 51.4 | 942 | 3090 |
| 7,0 | 108 | Lapua | Scenar | 78,0 | 3.071 | N530 | 2,29 | 35.3 | 859 | 2818 | 2,48 | 38.3 | 912 | 2992 |
| | | | | | | N140 | 2,44 | 37.6 | 806 | 2644 | 2,64 | 40.8 | 880 | 2887 |
| | | | | | | N540 | 2,50 | 38.6 | 827 | 2713 | 2,69 | 41.5 | 897 | 2943 |
| | | | | | | N150 | 2,56 | 39.5 | 830 | 2723 | 2,69 | 41.5 | 870 | 2853 |
| | | | | | | N550 | 2,72 | 42.0 | 853 | 2798 | 2,94 | 45.4 | 936 | 3070 |
| | | | | | | N555 | 2,97 | 45.8 | 900 | 2953 | 3,16C | 48.8C | 957 | 3140 |
| | | | | | | N160 | 2,80 | 43.2 | 820 | 2690 | 3,05 | 47.1 | 920 | 3018 |
| | | | | | | N165 | 3,16 | 48.8 | 860 | 2822 | 3,28F | 50.7F | 902 | 2959 |
| | | | | | | N560 | 3,19 | 49.2 | 867 | 2843 | 3,35 | 51.7 | 950 | 3117 |
| 7,8 | 120 | Barnes | TSX | 71,2 | 2.803 | N160 | 2,72 | 42.0 | 815 | 2674 | 2,99 | 46.1 | 886 | 2907 |
| | | | | | | N165 | 3,24 | 50.0 | 862 | 2828 | 3,40 | 52.5 | 909 | 2982 |
| | | | | | | N560 | 3,06 | 47.2 | 838 | 2749 | 3,25 | 50.2 | 902 | 2959 |
| 7,8 | 120 | Lapua | Scenar-L | 77,0 | 3.031 | N135 | 2,08 | 32.1 | 763 | 2503 | 2,31 | 35.6 | 820 | 2690 |
| | | | | | | N140 | 2,18 | 33.6 | 786 | 2579 | 2,42 | 37.3 | 822 | 2697 |
| | | | | | | N150 | 2,31 | 35.6 | 800 | 2625 | 2,52 | 38.9 | 855 | 2805 |
| | | | | | | N555 | 2,89 | 44.6 | 852 | 2795 | 3,05 | 47.1 | 904 | 2966 |
| | | | | | | N160 | 2,84 | 43.8 | 842 | 2762 | 2,96 | 45.7 | 880 | 2887 |
| | | | | | | N560 | 3,03 | 46.8 | 847 | 2779 | 3,23 | 49.8 | 907 | 2976 |
| 7,8 | 120 | Sierra | HPBT | 76,8 | 3.024 | N140 | 2,47 | 38.1 | 755 | 2477 | 2,63 | 40.5 | 852 | 2795 |
| | | | | | | N540 | 2,49 | 38.4 | 773 | 2536 | 2,69 | 41.5 | 818 | 2684 |
| | | | | | | N150 | 2,55 | 39.3 | 770 | 2526 | 2,71 | 41.7 | 839 | 2753 |
| | | | | | | N550 | 2,63 | 40.6 | 800 | 2625 | 2,88 | 44.5 | 888 | 2914 |
| | | | | | | N160 | 2,97 | 45.8 | 825 | 2707 | 3,29 | 50.7 | 907 | 2975 |
| | | | | | | N560 | 3,12 | 48.1 | 823 | 2700 | 3,41 | 52.7 | 932 | 3056 |
| 8,0 | 123 | Lapua | Scenar | 78,0 | 3.071 | N530 | 2,17 | 33.5 | 792 | 2598 | 2,35 | 36.3 | 848 | 2782 |
| | | | | | | N140 | 2,20 | 34.0 | 745 | 2444 | 2,40 | 37.0 | 810 | 2657 |
| | | | | | | N540 | 2,44 | 37.7 | 749 | 2456 | 2,68 | 41.4 | 827 | 2715 |
| | | | | | | N150 | 2,24 | 34.6 | 740 | 2428 | 2,47 | 38.1 | 815 | 2674 |
| | | | | | | N550 | 2,67 | 41.2 | 837 | 2746 | 2,88 | 44.4 | 901 | 2956 |
| | | | | | | N555 | 2,86 | 44.1 | 841 | 2759 | 3,04 | 46.9 | 899 | 2949 |
| | | | | | | N160 | 2,69 | 41.5 | 807 | 2648 | 2,92 | 45.1 | 869 | 2851 |
| | | | | | | N560 | 3,03 | 46.8 | 841 | 2759 | 3,19 | 49.2 | 898 | 2946 |
| 8,4 | 130 | Barnes | TSX | 74,5 | 2.930 | N160 | 2,29 | 35.3 | 726 | 2382 | 2,72 | 42.0 | 814 | 2671 |
| | | | | | | N165 | 3,08 | 47.5 | 808 | 2651 | 3,32 | 51.2 | 870 | 2854 |
| | | | | | | N560 | 2,92 | 45.1 | 796 | 2612 | 3,14 | 48.5 | 860 | 2822 |
| 8,4 | 130 | Norma | HPBT | 80,0 | 3.150 | N140 | 2,29 | 35.3 | 730 | 2395 | 2,64 | 40.7 | 812 | 2663 |
| | | | | | | N540 | 2,32 | 35.8 | 749 | 2457 | 2,57 | 39.6 | 820 | 2690 |
| | | | | | | N150 | 2,32 | 35.8 | 710 | 2329 | 2,60 | 40.1 | 808 | 2651 |
| | | | | | | N550 | 2,54 | 39.2 | 768 | 2520 | 2,84 | 43.8 | 852 | 2795 |
| | | | | | | N160 | 2,79 | 43.0 | 764 | 2507 | 3,06 | 47.3 | 840 | 2757 |
| | | | | | | N560 | 3,01 | 46.4 | 803 | 2635 | 3,25 | 50.2 | 878 | 2882 |
| 8,8 | 136 | Lapua | Scenar-L | 78,0 | 3.071 | N540 | 2,39 | 36.9 | 785 | 2575 | 2,59 | 40.0 | 836 | 2743 |
| | | | | | | N150 | 2,29 | 35.3 | 753 | 2470 | 2,46 | 38.0 | 803 | 2635 |
| | | | | | | N550 | 2,57 | 39.7 | 800 | 2625 | 2,73 | 42.1 | 841 | 2759 |

| 6,5 x 55 Swedish Mauser | | | | | | cont. | | | | | | | | |
|---|-------|--------|----------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N555 | 2,75 | 42.4 | 803 | 2635 | 2,94 | 45.4 | 857 | 2812 |
| | | | | | | N160 | 2,73 | 42.1 | 778 | 2552 | 2,93 | 45.2 | 840 | 2756 |
| | | | | | | N165 | 3,02 | 46.6 | 813 | 2667 | 3,20 | 49.4 | 861 | 2825 |
| | | | | | | N560 | 2,90 | 44.8 | 802 | 2631 | 3,07 | 47.4 | 857 | 2812 |
| 9,0 | 139 | Lapua | Scenar | 78,0 | 3.071 | N540 | 2,35 | 36.3 | 764 | 2507 | 2,53 | 39.0 | 819 | 2687 |
| | | | | | | N150 | 2,12 | 32.7 | 706 | 2316 | 2,28 | 35.2 | 761 | 2497 |
| | | | | | | N550 | 2,37 | 36.6 | 737 | 2418 | 2,59 | 40.0 | 805 | 2641 |
| | | | | | | N555 | 2,66 | 41.1 | 784 | 2572 | 2,84 | 43.8 | 833 | 2733 |
| | | | | | | N160 | 2,40 | 37.0 | 732 | 2402 | 2,67 | 41.2 | 790 | 2592 |
| | | | | | | N165 | 2,86 | 44.1 | 766 | 2513 | 3,10 | 47.8 | 833 | 2733 |
| | | | | | | N560 | 2,73 | 42.1 | 736 | 2415 | 3,06 | 47.2 | 826 | 2710 |
| 9,0 | 139 | Norma | HPBT | 78,0 | 3.071 | N150 | 2,28 | 35.2 | 704 | 2310 | 2,55 | 39.4 | 779 | 2555 |
| | | | | | | N550 | 2,50 | 38.6 | 743 | 2438 | 2,71 | 41.8 | 813 | 2667 |
| | | | | | | N160 | 2,73 | 42.1 | 738 | 2421 | 2,98 | 46.0 | 810 | 2656 |
| | | | | | | N165 | 3,00 | 46.3 | 765 | 2510 | 3,23 | 49.9 | 833 | 2732 |
| | | | | | | N560 | 2,88 | 44.4 | 753 | 2470 | 3,20 | 49.4 | 846 | 2777 |
| 9,1 | 140 | Berger | Hybrid Target | 80,0 | 3.150 | N150 | 2,10 | 32.4 | 692 | 2270 | 2,33 | 36.0 | 752 | 2467 |
| | | | | | | N550 | 2,40 | 37.0 | 729 | 2392 | 2,64 | 40.7 | 796 | 2612 |
| | | | | | | N160 | 2,44 | 37.7 | 715 | 2346 | 2,69 | 41.5 | 772 | 2533 |
| | | | | | | N165 | 2,85 | 44.0 | 754 | 2474 | 3,06 | 47.2 | 810 | 2657 |
| | | | | | | N560 | 2,84 | 43.8 | 761 | 2497 | 3,07 | 47.4 | 826 | 2710 |
| | | | | | | N565 | 2,93 | 45.2 | 773 | 2536 | 3,14 | 48.5 | 830 | 2723 |
| 9,1 | 140 | Lapua | Naturalis N563 | 75,0 | 2.953 | N540 | 2,25 | 34.7 | 742 | 2434 | 2,47 | 38.1 | 796 | 2612 |
| | | | | | | N150 | 2,03 | 31.3 | 695 | 2280 | 2,25 | 34.7 | 752 | 2467 |
| | | | | | | N550 | 2,34 | 36.1 | 741 | 2431 | 2,59 | 40.0 | 803 | 2635 |
| | | | | | | N160 | 2,32 | 35.8 | 723 | 2372 | 2,66 | 41.1 | 790 | 2592 |
| | | | | | | N165 | 2,55 | 39.4 | 751 | 2464 | 3,00 | 46.3 | 813 | 2667 |
| | | | | | | N560 | 2,71 | 41.8 | 763 | 2503 | 2,96 | 45.7 | 824 | 2703 |
| 9,1 | 140 | Sierra | HPBT | 79,0 | 3.110 | N150 | 2,35 | 36.3 | 703 | 2306 | 2,54 | 39.1 | 765 | 2511 |
| | | | | | | N550 | 2,58 | 39.8 | 749 | 2457 | 2,73 | 42.1 | 806 | 2644 |
| | | | | | | N160 | 2,81 | 43.4 | 759 | 2490 | 3,03 | 46.7 | 819 | 2687 |
| | | | | | | N165 | 3,00 | 46.3 | 766 | 2513 | 3,24 | 50.0 | 834 | 2735 |
| | | | | | | N560 | 2,93 | 45.2 | 779 | 2556 | 3,13 | 48.3 | 844 | 2770 |
| 9,1 | 140 | Swift | A-Frame | 78,0 | 3.071 | N150 | 1,65 | 25.5 | 585 | 1919 | 1,96 | 30.2 | 663 | 2175 |
| | | | | | | N160 | 1,57 | 24.2 | 560 | 1837 | 2,02 | 31.2 | 659 | 2162 |
| | | | | | | N560 | 2,25 | 34.7 | 668 | 2192 | 2,79 | 43.1 | 769 | 2523 |
| | | | | | | N565 | 2,58 | 39.8 | 716 | 2349 | 2,87 | 44.3 | 775 | 2543 |
| 9,3 | 144 | Lapua | FMJBT | 79,0 | 3.110 | N150 | 2,04 | 31.5 | 659 | 2163 | 2,40 | 37.0 | 768 | 2520 |
| | | | | | | N160 | 2,64 | 40.7 | 717 | 2352 | 2,85 | 44.0 | 816 | 2677 |
| | | | | | | N165 | 2,70 | 41.7 | 720 | 2362 | 3,18 | 49.1 | 837 | 2746 |
| | | | | | | N560 | 2,91 | 44.8 | 756 | 2479 | 3,15 | 48.6 | 850 | 2789 |
| | | | | | | N170 | 3,08 | 47.5 | 715 | 2346 | 3,41C | 52.6C | 815 | 2674 |
| | | | | | | N570 | 3,11 | 48.0 | 750 | 2461 | 3,22F | 49.7F | 785 | 2575 |
| 10,0 | 155 | Sierra | HPBT | 79,0 | 3.110 | N150 | 2,10 | 32.4 | 653 | 2142 | 2,33 | 36.0 | 711 | 2331 |
| | | | | | | N550 | 2,36 | 36.4 | 689 | 2260 | 2,60 | 40.1 | 746 | 2447 |
| | | | | | | N160 | 2,64 | 40.7 | 698 | 2290 | 2,97 | 45.9 | 769 | 2522 |
| | | | | | | N165 | 2,75 | 42.4 | 690 | 2264 | 3,08 | 47.6 | 769 | 2522 |
| | | | | | | N560 | 2,66 | 41.0 | 702 | 2303 | 2,93 | 45.2 | 779 | 2556 |
| | | | | | | N170 | 2,90 | 44.7 | 677 | 2221 | 3,32C | 51.2C | 779 | 2555 |
| 10,1 | 156 | Lapua | Mega | 73,0 | 2.874 | N165 | 2,74 | 42.3 | 677 | 2222 | 3,17 | 49.0 | 755 | 2478 |
| | | | | | | N560 | 2,72 | 42.0 | 685 | 2248 | 3,11 | 48.0 | 773 | 2537 |
| | | | | | | N170 | 3,03 | 46.8 | 682 | 2238 | 3,32C | 51.2C | 746 | 2447 |
| | | | | | | N570 | 3,02 | 46.6 | 730 | 2395 | 3,20F | 49.4F | 774 | 2539 |
| A = Accuracy load C = Compressed load F = Case full | | | | | | | | | | | | | | |

6,5 x 55 SE / 6,5 x 55 SKAN

Test barrel:

Sauer STR 200

Primers:

Large Rifle

Cases:

Lapua, trim-to length 54,80 mm (2.157")

WARNING:

This reloading data is intended to use at modern rifles in good condition
such as Sauer, Sako or Blaser chambered to 6,5 x 55 SKAN or 6,5 x 55 SE

WARNING:

DO NOT USE with Krag-Jørgensen, Mauser M1896 or similar rifles. This data has max loads set at pressure of 380 MPa!

NOTE:

Data contains velocity information for standard barrel lengths of Sauer STR200 rifles

Barrel length: 670 mm, 26½"

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|-------|----------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 6,5 | 100 | Lapua | Scenar GB504 | 75,0 | 2.953 | N530 | 2,07 | 31.9 | 800 | 2625 | 2,54 | 39.2 | 951 | 3120 |
| | | | | | | N135 | 2,18 | 33.6 | 800 | 2625 | 2,44 | 37.7 | 889 | 2917 |
| | | | | | | N140 | 2,35 | 36.3 | 800 | 2625 | 2,64 | 40.7 | 915 | 3002 |
| | | | | | | N540 | 2,40 | 37.0 | 800 | 2625 | 2,70 | 41.7 | 924 | 3031 |
| | | | | | | N150 | 2,42 | 37.3 | 800 | 2625 | 2,69 | 41.5 | 870 | 2854 |
| | | | | | | N550 | 2,60 | 40.1 | 800 | 2625 | 2,97 | 45.8 | 938 | 3077 |
| | | | | | | N160 | 2,80 | 43.2 | 800 | 2625 | 3,01 | 46.5 | 928 | 3045 |
| 7,0 | 108 | Lapua | GB464 Scenar | 78,0 | 3.071 | N140 | 2,32 | 35.8 | 796 | 2610 | 2,70 | 41.7 | 890 | 2921 |
| | | | | | | N540 | 2,66 | 41.1 | 842 | 2762 | 2,95 | 45.5 | 942 | 3091 |
| | | | | | | N150 | 2,39 | 36.9 | 800 | 2624 | 2,78 | 42.9 | 898 | 2947 |
| | | | | | | N550 | 2,80 | 43.2 | 849 | 2785 | 3,04 | 46.9 | 940 | 3084 |
| | | | | | | N555 | 2,97 | 45.8 | 878 | 2881 | 3,16 | 48.8 | 935 | 3068 |
| | | | | | | N160 | 2,81 | 43.4 | 837 | 2745 | 3,16 | 48.8 | 929 | 3047 |
| | | | | | | N560 | 3,14 | 48.5 | 831 | 2726 | 3,50 | 54.0 | 949 | 3114 |
| 7,8 | 120 | Lapua | GB547 Scenar-L | 77,0 | 3.031 | N135 | 2,08 | 32.1 | 739 | 2425 | 2,43 | 37.5 | 829 | 2720 |
| | | | | | | N140 | 2,18 | 33.6 | 761 | 2497 | 2,59 | 40.0 | 844 | 2769 |
| | | | | | | N540 | 2,32 | 35.8 | 800 | 2625 | 2,81 | 43.4 | 890 | 2920 |
| | | | | | | N150 | 2,31 | 35.6 | 751 | 2464 | 2,65 | 40.9 | 841 | 2759 |
| | | | | | | N550 | 2,62 | 40.4 | 816 | 2677 | 2,95 | 45.5 | 894 | 2933 |
| | | | | | | N555 | 2,89 | 44.6 | 836 | 2743 | 3,20 | 49.4 | 915 | 3002 |
| | | | | | | N160 | 2,84 | 43.8 | 772 | 2533 | 3,07 | 47.4 | 857 | 2812 |
| | | | | | | N560 | 3,03 | 46.8 | 810 | 2657 | 3,32 | 51.2 | 901 | 2956 |
| 8,0 | 123 | Lapua | GB489 Scenar | 78,0 | 3.071 | N140 | 2,20 | 34.0 | 750 | 2462 | 2,55 | 39.4 | 833 | 2734 |
| | | | | | | N540 | 2,47 | 38.1 | 788 | 2586 | 2,79 | 43.1 | 881 | 2892 |
| | | | | | | N150 | 2,24 | 34.6 | 741 | 2432 | 2,60 | 40.1 | 830 | 2724 |
| | | | | | | N550 | 2,67 | 41.2 | 805 | 2641 | 2,94 | 45.4 | 883 | 2895 |
| | | | | | | N555 | 2,86 | 44.1 | 812 | 2664 | 3,17 | 48.9 | 909 | 2982 |
| | | | | | | N160 | 2,71 | 41.8 | 763 | 2502 | 3,02 | 46.6 | 845 | 2773 |
| | | | | | | N560 | 3,04 | 46.9 | 801 | 2628 | 3,27 | 50.5 | 888 | 2913 |
| 8,8 | 136 | Lapua | GB546 Scenar-L | 78,0 | 3.071 | N540 | 2,39 | 36.9 | 736 | 2415 | 2,72 | 42.0 | 841 | 2759 |
| | | | | | | N150 | 2,29 | 35.3 | 711 | 2333 | 2,58 | 39.8 | 821 | 2694 |
| | | | | | | N550 | 2,57 | 39.7 | 757 | 2484 | 2,80 | 43.2 | 856 | 2808 |
| | | | | | | N555 | 2,75 | 42.4 | 789 | 2589 | 3,09 | 47.7 | 877 | 2877 |
| | | | | | | N160 | 2,73 | 42.1 | 741 | 2431 | 3,05 | 47.1 | 852 | 2795 |
| | | | | | | N165 | 3,02 | 46.6 | 779 | 2556 | 3,30C | 50.9C | 868 | 2848 |
| | | | | | | N560 | 2,90 | 44.8 | 786 | 2579 | 3,20 | 49.4 | 884 | 2900 |
| 9,0 | 139 | Lapua | GB458 Scenar | 78,0 | 3.071 | N150 | 2,12 | 32.7 | 696 | 2284 | 2,40 | 37.0 | 781 | 2563 |
| | | | | | | N550 | 2,37 | 36.6 | 738 | 2421 | 2,72 | 42.0 | 825 | 2705 |
| | | | | | | N555 | 2,66 | 41.1 | 769 | 2523 | 2,99 | 46.1 | 873 | 2864 |

| 6,5 x 55 SE / 6,5 x 55 SKAN | | | | | | cont. | | | | | | | | |
|-----------------------------|-------|-----|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N160 | 2,41 | 37.2 | 723 | 2373 | 2,84 | 43.8 | 817 | 2679 |
| | | | | | | N165 | 2,86 | 44.1 | 758 | 2488 | 3,25 | 50.2 | 847 | 2777 |
| | | | | | | N560 | 2,87 | 44.3 | 771 | 2529 | 3,18 | 49.1 | 866 | 2842 |

| Barrel length: 700 mm, 27½” | | | | | | | | | | | | | | |
|-----------------------------|-------|-------|----------------|--------|--------|---------------|--------|-------|----------|--------------|--------|-------|----------|-------|
| Bullet | | | | | Powder | Starting load | | | | Maximum load | | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 7,0 | 108 | Lapua | GB464 Scenar | 78,0 | 3.071 | N140 | 2,32 | 35.8 | 804 | 2639 | 2,70 | 41.7 | 900 | 2953 |
| | | | | | | N540 | 2,66 | 41.1 | 852 | 2795 | 2,95 | 45.5 | 953 | 3128 |
| | | | | | | N150 | 2,39 | 36.9 | 809 | 2654 | 2,78 | 42.9 | 908 | 2980 |
| | | | | | | N550 | 2,80 | 43.2 | 858 | 2815 | 3,04 | 46.9 | 948 | 3109 |
| | | | | | | N555 | 2,97 | 45.8 | 889 | 2917 | 3,16 | 48.8 | 945 | 3100 |
| | | | | | | N160 | 2,81 | 43.4 | 844 | 2769 | 3,16 | 48.8 | 937 | 3074 |
| | | | | | | N560 | 3,14 | 48.5 | 839 | 2753 | 3,50 | 54.0 | 959 | 3146 |
| 7,8 | 120 | Lapua | GB547 Scenar-L | 77,0 | 3.031 | N135 | 2,08 | 32.1 | 744 | 2441 | 2,43 | 37.5 | 834 | 2736 |
| | | | | | | N140 | 2,18 | 33.6 | 767 | 2516 | 2,59 | 40.0 | 849 | 2785 |
| | | | | | | N540 | 2,32 | 35.8 | 801 | 2628 | 2,81 | 43.4 | 898 | 2946 |
| | | | | | | N150 | 2,31 | 35.6 | 754 | 2474 | 2,65 | 40.9 | 848 | 2782 |
| | | | | | | N550 | 2,62 | 40.4 | 820 | 2690 | 2,95 | 45.5 | 904 | 2966 |
| | | | | | | N555 | 2,89 | 44.6 | 842 | 2762 | 3,20 | 49.4 | 931 | 3054 |
| | | | | | | N160 | 2,84 | 43.8 | 784 | 2572 | 3,07 | 47.4 | 874 | 2867 |
| | | | | | | N560 | 3,03 | 46.8 | 820 | 2690 | 3,32 | 51.2 | 916 | 3005 |
| 8,0 | 123 | Lapua | GB489 Scenar | 78,0 | 3.071 | N140 | 2,20 | 34.0 | 755 | 2477 | 2,55 | 39.4 | 838 | 2750 |
| | | | | | | N540 | 2,47 | 38.1 | 795 | 2607 | 2,79 | 43.1 | 889 | 2915 |
| | | | | | | N150 | 2,24 | 34.6 | 748 | 2454 | 2,60 | 40.1 | 838 | 2749 |
| | | | | | | N550 | 2,67 | 41.2 | 816 | 2676 | 2,94 | 45.4 | 894 | 2934 |
| | | | | | | N555 | 2,86 | 44.1 | 833 | 2733 | 3,17 | 48.9 | 922 | 3025 |
| | | | | | | N160 | 2,71 | 41.8 | 779 | 2557 | 3,02 | 46.6 | 864 | 2835 |
| | | | | | | N560 | 3,04 | 46.9 | 814 | 2669 | 3,27 | 50.5 | 902 | 2958 |
| 8,8 | 136 | Lapua | GB546 Scenar-L | 78,0 | 3.071 | N540 | 2,39 | 36.9 | 742 | 2434 | 2,72 | 42.0 | 846 | 2776 |
| | | | | | | N150 | 2,29 | 35.3 | 718 | 2356 | 2,58 | 39.8 | 824 | 2703 |
| | | | | | | N550 | 2,57 | 39.7 | 763 | 2503 | 2,80 | 43.2 | 862 | 2828 |
| | | | | | | N555 | 2,75 | 42.4 | 795 | 2608 | 3,09 | 47.7 | 884 | 2900 |
| | | | | | | N160 | 2,73 | 42.1 | 748 | 2454 | 3,05 | 47.1 | 857 | 2812 |
| | | | | | | N165 | 3,02 | 46.6 | 787 | 2582 | 3,30 | 50.9 | 876 | 2874 |
| | | | | | | N560 | 2,90 | 44.8 | 794 | 2605 | 3,20 | 49.4 | 892 | 2927 |
| 9,0 | 139 | Lapua | GB458 Scenar | 78,0 | 3.071 | N150 | 2,12 | 32.7 | 699 | 2295 | 2,40 | 37.0 | 785 | 2575 |
| | | | | | | N550 | 2,37 | 36.6 | 743 | 2438 | 2,72 | 42.0 | 830 | 2724 |
| | | | | | | N555 | 2,66 | 41.1 | 775 | 2543 | 2,99 | 46.1 | 881 | 2890 |
| | | | | | | N160 | 2,41 | 37.2 | 730 | 2395 | 2,84 | 43.8 | 824 | 2704 |
| | | | | | | N165 | 2,86 | 44.1 | 765 | 2508 | 3,25 | 50.2 | 854 | 2801 |
| | | | | | | N560 | 2,87 | 44.3 | 776 | 2546 | 3,18 | 49.1 | 872 | 2862 |

| Barrel length: 740 mm, 29” | | | | | | | | | | | | | | |
|----------------------------|-------|-------|--------------|--------|--------|---------------|--------|-------|----------|--------------|--------|-------|----------|-------|
| Bullet | | | | | Powder | Starting load | | | | Maximum load | | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 7,0 | 108 | Lapua | GB464 Scenar | 78,0 | 3.071 | N140 | 2,32 | 35.8 | 816 | 2677 | 2,70 | 41.7 | 913 | 2995 |
| | | | | | | N540 | 2,66 | 41.1 | 865 | 2838 | 2,95 | 45.5 | 968 | 3176 |
| | | | | | | N150 | 2,39 | 36.9 | 821 | 2694 | 2,78 | 42.9 | 922 | 3025 |

| 6,5 x 55 SE / 6,5 x 55 SKAN | | | | | | cont. | | | | | | | | |
|-----------------------------|-------|-------|----------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N550 | 2,80 | 43.2 | 870 | 2854 | 3,04 | 46.9 | 961 | 3153 |
| | | | | | | N555 | 2,97 | 45.8 | 900 | 2953 | 3,16 | 48.8 | 957 | 3140 |
| | | | | | | N160 | 2,81 | 43.4 | 854 | 2802 | 3,16 | 48.8 | 948 | 3110 |
| | | | | | | N560 | 3,14 | 48.5 | 850 | 2789 | 3,50 | 54.0 | 972 | 3189 |
| 7,8 | 120 | Lapua | GB547 Scenar-L | 77,0 | 3.031 | N135 | 2,08 | 32.1 | 752 | 2467 | 2,43 | 37.5 | 842 | 2762 |
| | | | | | | N140 | 2,18 | 33.6 | 774 | 2539 | 2,59 | 40.0 | 856 | 2808 |
| | | | | | | N540 | 2,32 | 35.8 | 807 | 2648 | 2,81 | 43.4 | 907 | 2976 |
| | | | | | | N150 | 2,31 | 35.6 | 761 | 2497 | 2,65 | 40.9 | 856 | 2808 |
| | | | | | | N550 | 2,62 | 40.4 | 827 | 2713 | 2,95 | 45.5 | 917 | 3009 |
| | | | | | | N555 | 2,89 | 44.6 | 852 | 2795 | 3,20 | 49.4 | 946 | 3104 |
| | | | | | | N160 | 2,84 | 43.8 | 791 | 2595 | 3,07 | 47.4 | 899 | 2949 |
| | | | | | | N560 | 3,03 | 46.8 | 828 | 2717 | 3,32 | 51.2 | 932 | 3058 |
| 8,0 | 123 | Lapua | GB489 Scenar | 78,0 | 3.071 | N140 | 2,20 | 34.0 | 761 | 2497 | 2,55 | 39.4 | 845 | 2772 |
| | | | | | | N540 | 2,47 | 38.1 | 803 | 2635 | 2,79 | 43.1 | 898 | 2946 |
| | | | | | | N150 | 2,24 | 34.6 | 757 | 2484 | 2,60 | 40.1 | 848 | 2782 |
| | | | | | | N550 | 2,67 | 41.2 | 830 | 2723 | 2,94 | 45.4 | 910 | 2986 |
| | | | | | | N555 | 2,86 | 44.1 | 841 | 2759 | 3,17 | 48.9 | 940 | 3084 |
| | | | | | | N160 | 2,71 | 41.8 | 802 | 2631 | 3,02 | 46.6 | 889 | 2917 |
| | | | | | | N560 | 3,04 | 46.9 | 830 | 2723 | 3,27 | 50.5 | 920 | 3018 |
| 8,8 | 136 | Lapua | GB546 Scenar-L | 78,0 | 3.071 | N540 | 2,39 | 36.9 | 749 | 2457 | 2,72 | 42.0 | 852 | 2795 |
| | | | | | | N150 | 2,29 | 35.3 | 726 | 2382 | 2,58 | 39.8 | 830 | 2723 |
| | | | | | | N550 | 2,57 | 39.7 | 769 | 2523 | 2,80 | 43.2 | 870 | 2854 |
| | | | | | | N555 | 2,75 | 42.4 | 803 | 2635 | 3,09 | 47.7 | 895 | 2936 |
| | | | | | | N160 | 2,73 | 42.1 | 755 | 2477 | 3,05 | 47.1 | 865 | 2838 |
| | | | | | | N165 | 3,02 | 46.6 | 795 | 2608 | 3,30 | 50.9 | 885 | 2904 |
| | | | | | | N560 | 2,90 | 44.8 | 801 | 2628 | 3,20 | 49.4 | 901 | 2956 |
| 9,0 | 139 | Lapua | GB458 Scenar | 78,0 | 3.071 | N150 | 2,12 | 32.7 | 704 | 2310 | 2,40 | 37.0 | 790 | 2592 |
| | | | | | | N550 | 2,37 | 36.6 | 750 | 2461 | 2,72 | 42.0 | 838 | 2749 |
| | | | | | | N555 | 2,66 | 41.1 | 784 | 2572 | 2,99 | 46.1 | 869 | 2851 |
| | | | | | | N160 | 2,41 | 37.2 | 735 | 2411 | 2,84 | 43.8 | 830 | 2723 |
| | | | | | | N165 | 2,86 | 44.1 | 773 | 2536 | 3,25 | 50.2 | 863 | 2831 |
| | | | | | | N560 | 2,87 | 44.3 | 783 | 2569 | 3,18 | 49.1 | 880 | 2887 |
| C = Compressed load | | | | | | | | | | | | | | |

| | | |
|-----------------|--------------|---|
| 6,5 - 284 Norma | Test barrel: | 660 mm (26”), 1 in 9” twist |
| | Primers: | Large Rifle |
| | Cases: | Lapua, trim-to length 54,90 mm (2.161”) |

| Bullet | | | | | Powder | Starting load | | | | Maximum load | | | | |
|--------|-------|-------|-----------|--------|--------|---------------|--------|-------|----------|--------------|--------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 6,5 | 100 | Lapua | FMJ | 70,0 | 2.756 | N150 | 2,71 | 41.8 | 872 | 2861 | 3,22 | 49.7 | 973 | 3192 |
| | | | | | | N550 | 3,09 | 47.7 | 895 | 2936 | 3,48 | 53.7 | 1019 | 3343 |
| | | | | | | N160 | 3,08 | 47.5 | 855 | 2805 | 3,77 | 58.2 | 1002 | 3287 |
| 6,5 | 100 | Lapua | Scenar | 75,0 | 2.953 | N150 | 2,79 | 43.1 | 910 | 2986 | 3,23 | 49.8 | 999 | 3278 |
| | | | | | | N550 | 3,08 | 47.5 | 892 | 2927 | 3,48 | 53.7 | 1019 | 3343 |
| | | | | | | N160 | 3,10 | 47.8 | 865 | 2838 | 3,77 | 58.2 | 1004 | 3294 |
| 7,0 | 108 | Lapua | Scenar | 79,0 | 3.110 | N550 | 2,97 | 45.8 | 920 | 3018 | 3,39 | 52.3 | 1027 | 3368 |
| | | | | | | N160 | 3,08 | 47.5 | 906 | 2972 | 3,49 | 53.9 | 1008 | 3308 |
| | | | | | | N165 | 3,52 | 54.3 | 922 | 3025 | 4,04 | 62.4 | 1042 | 3419 |
| | | | | | | N560 | 3,47 | 53.5 | 927 | 3041 | 3,81 | 58.9 | 1031 | 3384 |

| 6,5 - 284 Norma | | | | | | cont. | | | | | | | | |
|-----------------|-------|-------|----------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N560 | 3,32 | 51.2 | 831 | 2726 | 3,73 | 57.6 | 956 | 3136 |
| 8,0 | 123 | Lapua | Scenar | 79,0 | 3.110 | N160 | 2,59 | 40.0 | 795 | 2608 | 3,29 | 50.8 | 925 | 3035 |
| | | | | | | N165 | 3,03 | 46.8 | 830 | 2723 | 3,65 | 56.4 | 947 | 3106 |
| | | | | | | N560 | 3,28 | 50.6 | 867 | 2844 | 3,65 | 56.3 | 963 | 3158 |
| 8,8 | 136 | Lapua | Scenar-L | 79,0 | 3.110 | N550 | 2,75 | 42.4 | 770 | 2526 | 3,13 | 48.3 | 879 | 2884 |
| | | | | | | N160 | 2,83 | 43.7 | 754 | 2474 | 3,38 | 52.2 | 868 | 2848 |
| | | | | | | N165 | 3,26 | 50.3 | 783 | 2569 | 3,65 | 56.3 | 892 | 2927 |
| | | | | | | N560 | 3,22 | 49.7 | 795 | 2608 | 3,62 | 55.9 | 935 | 3068 |
| 9,0 | 139 | Lapua | Scenar | 79,0 | 3.110 | N160 | 2,80 | 43.2 | 772 | 2533 | 3,06 | 47.2 | 835 | 2740 |
| | | | | | | N560 | 3,12 | 48.1 | 793 | 2602 | 3,63 | 56.0 | 919 | 3015 |
| 9,1 | 140 | Lapua | Naturalis N507 | 74,7 | 2.941 | N160 | 2,87 | 44.3 | 753 | 2470 | 3,20 | 49.4 | 824 | 2703 |
| | | | | | | N165 | 3,17 | 48.9 | 768 | 2520 | 3,55 | 54.8 | 864 | 2835 |
| | | | | | | N560 | 3,21 | 49.5 | 786 | 2579 | 3,55 | 54.8 | 875 | 2871 |
| 9,1 | 140 | Lapua | Naturalis N563 | 75,0 | 2.953 | N550 | 2,58 | 39.8 | 737 | 2418 | 3,01 | 46.5 | 832 | 2730 |
| | | | | | | N160 | 2,61 | 40.3 | 713 | 2339 | 3,12 | 48.1 | 826 | 2710 |
| | | | | | | N165 | 2,57 | 39.7 | 702 | 2303 | 3,43 | 52.9 | 851 | 2792 |
| | | | | | | N560 | 2,88 | 44.4 | 737 | 2418 | 3,44 | 53.1 | 861 | 2825 |
| 9,3 | 144 | Lapua | FMJBT | 79,0 | 3.110 | N160 | 2,80 | 43.2 | 783 | 2569 | 3,14 | 48.5 | 841 | 2759 |
| | | | | | | N165 | 2,90 | 44.7 | 766 | 2513 | 3,61 | 55.7 | 875 | 2871 |
| | | | | | | N560 | 3,18 | 49.1 | 802 | 2631 | 3,43 | 52.9 | 876 | 2874 |
| | | | | | | N570 | 3,54 | 54.6 | 798 | 2618 | 3,70F | 57.1F | 830 | 2723 |
| 10,1 | 156 | Lapua | Mega | 74,0 | 2.913 | N560 | 3,09 | 47.7 | 755 | 2477 | 3,45 | 53.2 | 841 | 2759 |
| | | | | | | N570 | 3,46 | 53.4 | 781 | 2562 | 3,65 | 56.3 | 808 | 2651 |
| F = Case full | | | | | | | | | | | | | | |

| | | |
|---------------------|--------------|--|
| <div>.270 WSM</div> | Test barrel: | 520 mm (20½"), 1 in 9" twist |
| | Primers: | Large Rifle Magnum |
| | Cases: | Winchester, trim-to length 53,10 mm (2.091") |
| | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|---------------|-------|--------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 5,8 | 90 | Sierra | HP | 68,6 | 2.701 | N160 | 4,00 | 61.7 | 1021 | 3350 | 4,47 | 69.0 | 1130 | 3707 |
| | | | | | | N165 | 4,59 | 70.8 | 1041 | 3415 | 4,75F | 73.3F | 1083 | 3553 |
| | | | | | | N560 | 4,39 | 67.7 | 1020 | 3346 | 4,78 | 73.8 | 1135 | 3724 |
| 9,1 | 140 | Barnes | XFB | 71,0 | 2.795 | N160 | 3,20 | 49.4 | 800 | 2625 | 3,71 | 57.2 | 899 | 2949 |
| | | | | | | N165 | 3,75 | 57.9 | 832 | 2730 | 4,10 | 63.3 | 913 | 2995 |
| | | | | | | N560 | 3,49 | 53.9 | 806 | 2644 | 3,93 | 60.6 | 918 | 3012 |
| 10,4 | 160 | Nosler | Partition | 71,0 | 2.795 | N160 | 3,20 | 49.4 | 737 | 2418 | 3,47 | 53.5 | 825 | 2707 |
| | | | | | | N165 | 3,30 | 50.9 | 769 | 2523 | 3,90 | 60.2 | 863 | 2831 |
| | | | | | | N560 | 3,36 | 51.8 | 774 | 2539 | 3,82 | 58.9 | 873 | 2864 |
| F = Case full | | | | | | | | | | | | | | |

| | | |
|----------------------------|--------------|---|
| <div>.270 Winchester</div> | Test barrel: | 620 mm (24¾"), 1 in 10" twist |
| | Primers: | Large Rifle |
| | Cases: | Remington, trim-to length 64,30 mm (2.531") |
| | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|--------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 6,5 | 100 | Speer | Spitzer | 80,0 | 3.150 | N150 | 2,88 | 44.5 | 898 | 2945 | 3,42 | 52.8 | 998 | 3273 |
| | | | | | | N160 | 3,80 | 58.6 | 953 | 3127 | 4,27C | 65.8C | 1057 | 3468 |
| | | | | | | N165 | 4,00 | 61.7 | 966 | 3170 | 4,53C | 69.9C | 1070 | 3509 |
| 7,5 | 115 | Sierra | MatchKing | 83,5 | 3.287 | N150 | 2,56 | 39.5 | 833 | 2733 | 2,94 | 45.4 | 924 | 3031 |

LIGHT GREY TEXT BOX INDICATES MAXIMUM LOAD - USE WITH CAUTION!
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED

| .270 Winchester | | | | | | cont. | | | | | | | | |
|---------------------|-------|-----------|---------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N550 | 2,87 | 44.3 | 871 | 2858 | 3,18 | 49.1 | 954 | 3130 |
| | | | | | | N160 | 2,98 | 46.0 | 844 | 2769 | 3,54 | 54.6 | 958 | 3143 |
| 8,4 | 130 | Remington | SP | 82,0 | 3.228 | N160 | 3,34 | 51.5 | 847 | 2779 | 3,76 | 58.0 | 940 | 3083 |
| | | | | | | N560 | 3,64 | 56.2 | 876 | 2873 | 3,97 | 61.3 | 955 | 3132 |
| 8,4 | 130 | Rhino | Solid Shank | 83,0 | 3.268 | N555 | 3,30 | 50.9 | 873 | 2864 | 3,53 | 54.5 | 930 | 3051 |
| | | | | | | N160 | 3,20 | 49.4 | 833 | 2733 | 3,52 | 54.3 | 905 | 2969 |
| | | | | | | N165 | 3,60 | 55.6 | 873 | 2864 | 3,83 | 59.1 | 932 | 3058 |
| | | | | | | N560 | 3,40 | 52.5 | 852 | 2795 | 3,67 | 56.6 | 924 | 3031 |
| 8,4 | 130 | Speer | SPBT | 83,0 | 3.268 | N165 | 3,54 | 54.6 | 850 | 2787 | 4,02 | 62.0 | 942 | 3089 |
| 8,4 | 130 | Swift | Scirocco II | 84,6 | 3.331 | N555 | 3,26 | 50.3 | 874 | 2867 | 3,53 | 54.5 | 940 | 3084 |
| | | | | | | N160 | 2,95 | 45.5 | 818 | 2684 | 3,51 | 54.2 | 912 | 2992 |
| | | | | | | N165 | 3,50 | 54.0 | 876 | 2874 | 3,90C | 60.2C | 951 | 3120 |
| | | | | | | N560 | 3,50 | 54.0 | 863 | 2831 | 3,82C | 59.0C | 946 | 3104 |
| | | | | | | N565 | 3,60 | 55.6 | 863 | 2831 | 3,92C | 60.5C | 935 | 3068 |
| 8,8 | 135 | Sierra | HPBT | 83,0 | 3.268 | N160 | 2,90 | 44.8 | 822 | 2697 | 3,66 | 56.5 | 929 | 3048 |
| | | | | | | N165 | 3,65 | 56.3 | 844 | 2769 | 3,90 | 60.2 | 927 | 3041 |
| | | | | | | N560 | 3,62 | 55.9 | 876 | 2874 | 3,91 | 60.3 | 957 | 3140 |
| 9,1 | 140 | Barnes | TSX | 81,5 | 3.209 | N550 | 2,44 | 37.7 | 737 | 2418 | 3,01 | 46.5 | 860 | 2822 |
| | | | | | | N165 | 2,90 | 44.8 | 772 | 2533 | 3,42 | 52.8 | 862 | 2828 |
| | | | | | | N560 | 3,12 | 48.1 | 798 | 2618 | 3,48 | 53.7 | 882 | 2894 |
| 9,1 | 140 | Rhino | Solid Shank | 83,0 | 3.268 | N160 | 3,05 | 47.1 | 792 | 2598 | 3,42 | 52.8 | 873 | 2864 |
| | | | | | | N165 | 3,40 | 52.5 | 823 | 2700 | 3,68 | 56.8 | 893 | 2930 |
| | | | | | | N560 | 3,25 | 50.2 | 813 | 2667 | 3,56 | 54.9 | 893 | 2930 |
| 9,1 | 140 | Swift | A-Frame | 82,0 | 3.228 | N550 | 2,63 | 40.6 | 758 | 2487 | 3,08 | 47.5 | 859 | 2818 |
| | | | | | | N165 | 3,05 | 47.1 | 790 | 2592 | 3,59 | 55.4 | 867 | 2844 |
| | | | | | | N560 | 3,12 | 48.1 | 789 | 2589 | 3,60 | 55.6 | 888 | 2913 |
| 9,7 | 150 | Barnes | TSX | 82,0 | 3.228 | N550 | 2,44 | 37.7 | 712 | 2336 | 2,93 | 45.2 | 821 | 2694 |
| | | | | | | N165 | 2,71 | 41.8 | 713 | 2339 | 3,27 | 50.5 | 819 | 2687 |
| | | | | | | N560 | 2,90 | 44.8 | 746 | 2448 | 3,36 | 51.9 | 847 | 2779 |
| 9,7 | 150 | Nosler | Ballistic Tip | 83,5 | 3.287 | N160 | 2,92 | 45.1 | 730 | 2395 | 3,39 | 52.3 | 842 | 2762 |
| | | | | | | N165 | 3,10 | 47.8 | 734 | 2408 | 3,74 | 57.7 | 870 | 2854 |
| | | | | | | N560 | 3,13 | 48.3 | 742 | 2434 | 3,66 | 56.5 | 870 | 2854 |
| 9,7 | 150 | Swift | A-Frame | 84,6 | 3.331 | N555 | 2,90 | 44.8 | 786 | 2579 | 3,26 | 50.3 | 857 | 2812 |
| | | | | | | N160 | 2,75 | 42.4 | 745 | 2444 | 3,10 | 47.8 | 817 | 2680 |
| | | | | | | N165 | 3,10 | 47.8 | 786 | 2579 | 3,59 | 55.4 | 864 | 2835 |
| | | | | | | N560 | 3,20 | 49.4 | 795 | 2608 | 3,59 | 55.4 | 880 | 2887 |
| | | | | | | N565 | 3,30 | 50.9 | 801 | 2628 | 3,65 | 56.3 | 871 | 2858 |
| 10,4 | 160 | Nosler | Partition | 84,6 | 3.331 | N160 | 2,50 | 38.6 | 699 | 2293 | 2,89 | 44.6 | 781 | 2562 |
| | | | | | | N165 | 2,88 | 44.4 | 735 | 2411 | 3,31 | 51.1 | 811 | 2661 |
| | | | | | | N560 | 3,01 | 46.5 | 745 | 2444 | 3,42 | 52.8 | 847 | 2779 |
| C = Compressed load | | | | | | | | | | | | | | |

| | | |
|----------------------------------|--------------|---|
| <div>.270 Weatherby Magnum</div> | Test barrel: | 650 mm (25½"), 1 in 12" twist |
| | Primers: | Large Rifle Magnum |
| | Cases: | Remington, trim-to length 64,30 mm (2.531") |
| | | |

| CAUTION: Loads less than the listed starting load may cause excessive chamber pressure and must not be used! | | | | | | | | | | | | | | |
|--|-------|-----------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 6,5 | 100 | Remington | PSP | 79,0 | 3.110 | N550 | 4,33 | 66.8 | 1037 | 3401 | 4,64 | 71.7 | 1117 | 3666 |
| | | | | | | N160 | 4,60 | 71.0 | 1043 | 3421 | 4,85 | 74.9 | 1108 | 3634 |
| | | | | | | N165 | 5,08 | 78.4 | 1045 | 3428 | 5,38 | 83.0 | 1115 | 3658 |

| .270 Weatherby Magnum | | | | | | cont. | | | | | | | | |
|-----------------------|-------|-----------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 8,5 | 130 | Remington | PSPCL | 82,2 | 3.236 | N160 | 4,31 | 66.5 | 939 | 3080 | 4,61 | 71.1 | 1001 | 3284 |
| | | | | | | N165 | 4,62 | 71.3 | 931 | 3055 | 4,93 | 76.0 | 997 | 3270 |
| | | | | | | N560 | 4,71 | 72.7 | 947 | 3108 | 4,98 | 76.9 | 1004 | 3294 |
| 8,7 | 135 | Sierra | HPBT | 83,0 | 3.268 | N160 | 4,21 | 65.0 | 903 | 2964 | 4,43 | 68.3 | 965 | 3167 |
| | | | | | | N165 | 4,55 | 70.2 | 923 | 3029 | 4,70 | 72.5 | 989 | 3244 |
| | | | | | | N560 | 4,61 | 71.2 | 956 | 3137 | 4,81 | 74.2 | 1013 | 3323 |
| 9,7 | 150 | Nosler | Partition | 82,5 | 3.248 | N165 | 4,34 | 67.0 | 877 | 2876 | 4,68 | 72.2 | 936 | 3072 |
| | | | | | | N560 | 4,38 | 67.6 | 900 | 2954 | 4,60 | 71.0 | 955 | 3134 |
| | | | | | | N170 | 4,76 | 73.4 | 886 | 2906 | 5,11 | 78.8 | 955 | 3134 |

| 7 mm-08 Remington | | | | | | Test barrel: | 610 mm (24"), 1 in 9½" twist |
|-------------------|--|--|--|--|--|--------------|---|
| | | | | | | Primers: | Large Rifle |
| | | | | | | Cases: | Lapua, .308 Win. necked down, trim-to length 51,5 mm (2.028") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|--------|----------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 7,8 | 120 | Sierra | SP | 69,5 | 2.736 | N135 | 2,33 | 36.0 | 822 | 2697 | 2,66 | 41.1 | 915 | 3002 |
| | | | | | | N140 | 2,64 | 40.7 | 865 | 2838 | 2,90 | 44.8 | 934 | 3064 |
| | | | | | | N540 | 2,68 | 41.4 | 867 | 2844 | 2,95 | 45.5 | 956 | 3136 |
| | | | | | | N150 | 2,71 | 41.8 | 861 | 2825 | 2,97 | 45.8 | 936 | 3071 |
| 8,4 | 130 | Sierra | HPBT | 70,6 | 2.780 | N135 | 2,30 | 35.5 | 796 | 2612 | 2,48 | 38.3 | 855 | 2805 |
| | | | | | | N140 | 2,49 | 38.4 | 812 | 2664 | 2,71 | 41.8 | 882 | 2894 |
| | | | | | | N540 | 2,63 | 40.6 | 850 | 2789 | 2,83 | 43.7 | 918 | 3012 |
| | | | | | | N150 | 2,62 | 40.4 | 825 | 2707 | 2,85 | 44.0 | 899 | 2949 |
| 9,1 | 140 | Nosler | Ballistic Tip | 69,6 | 2.740 | N135 | 2,21 | 34.1 | 759 | 2490 | 2,42 | 37.3 | 826 | 2710 |
| | | | | | | N140 | 2,40 | 37.0 | 773 | 2536 | 2,66 | 41.1 | 852 | 2795 |
| | | | | | | N540 | 2,54 | 39.2 | 801 | 2628 | 2,77 | 42.7 | 877 | 2877 |
| | | | | | | N150 | 2,55 | 39.4 | 791 | 2595 | 2,79 | 43.1 | 861 | 2825 |
| 9,7 | 150 | Barnes | TSX | 69,5 | 2.736 | N540 | 2,42 | 37.3 | 741 | 2431 | 2,66 | 41.1 | 824 | 2703 |
| | | | | | | N550 | 2,60 | 40.1 | 740 | 2428 | 2,88 | 44.4 | 825 | 2707 |
| | | | | | | N160 | 2,85 | 44.0 | 755 | 2477 | 3,05 | 47.1 | 807 | 2648 |
| 9,7 | 150 | Lapua | Scenar-L | 71,0 | 2.795 | N140 | 2,22 | 34.3 | 723 | 2372 | 2,44 | 37.7 | 792 | 2598 |
| | | | | | | N540 | 2,31 | 35.6 | 750 | 2461 | 2,54 | 39.2 | 823 | 2700 |
| | | | | | | N150 | 2,23 | 34.4 | 731 | 2398 | 2,47 | 38.1 | 794 | 2605 |
| | | | | | | N550 | 2,44 | 37.7 | 746 | 2448 | 2,71 | 41.8 | 833 | 2733 |
| 9,7 | 150 | Sierra | MatchKing | 69,5 | 2.736 | N140 | 2,26 | 34.9 | 728 | 2388 | 2,57 | 39.7 | 813 | 2667 |
| | | | | | | N540 | 2,44 | 37.7 | 762 | 2500 | 2,69 | 41.5 | 843 | 2766 |
| | | | | | | N150 | 2,36 | 36.4 | 737 | 2418 | 2,69 | 41.5 | 824 | 2703 |
| | | | | | | N550 | 2,65 | 40.9 | 769 | 2523 | 2,88 | 44.4 | 851 | 2792 |
| 10,1 | 155 | Lapua | Naturalis N564 | 70,0 | 2.756 | N540 | 2,21 | 34.1 | 694 | 2277 | 2,50 | 38.6 | 776 | 2546 |
| | | | | | | N150 | 2,09 | 32.3 | 662 | 2172 | 2,40 | 37.0 | 740 | 2428 |
| | | | | | | N550 | 2,32 | 35.8 | 690 | 2264 | 2,61 | 40.3 | 774 | 2539 |
| | | | | | | N160 | 2,59 | 40.0 | 708 | 2323 | 2,92 | 45.1 | 788 | 2585 |
| 10,4 | 160 | Lapua | Naturalis | 69,5 | 2.736 | N540 | 2,16 | 33.3 | 693 | 2274 | 2,38 | 36.7 | 761 | 2497 |
| | | | | | | N150 | 2,04 | 31.5 | 659 | 2162 | 2,31 | 35.6 | 730 | 2395 |
| | | | | | | N550 | 2,32 | 35.8 | 697 | 2287 | 2,55 | 39.4 | 766 | 2513 |
| | | | | | | N160 | 2,49 | 38.4 | 704 | 2310 | 2,74 | 42.3 | 767 | 2516 |
| 10,4 | 160 | Sierra | SBT | 70,5 | 2.776 | N540 | 2,24 | 34.6 | 717 | 2352 | 2,53 | 39.0 | 793 | 2602 |
| | | | | | | N150 | 2,19 | 33.8 | 694 | 2277 | 2,49 | 38.4 | 766 | 2513 |
| | | | | | | N550 | 2,43 | 37.5 | 716 | 2349 | 2,71 | 41.8 | 802 | 2631 |
| | | | | | | N160 | 2,66 | 41.1 | 723 | 2372 | 2,97 | 45.8 | 806 | 2644 |
| 10,9 | 168 | Sierra | HPBT | 70,9 | 2.791 | N540 | 2,34 | 36.1 | 723 | 2372 | 2,59 | 40.0 | 794 | 2605 |
| | | | | | | N150 | 2,21 | 34.1 | 680 | 2231 | 2,58 | 39.8 | 778 | 2552 |

LIGHT GREY TEXT BOX INDICATES MAXIMUM LOAD - USE WITH CAUTION!
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED

| 7 mm-08 Remington | | | | | | cont. | | | | | | | | |
|-------------------|-------|--------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N550 | 2,55 | 39.4 | 729 | 2392 | 2,77 | 42.7 | 798 | 2618 |
| | | | | | | N160 | 2,85 | 44.0 | 753 | 2470 | 2,95 | 45.5 | 781 | 2562 |
| 11,3 | 175 | Barnes | TSX | 69,5 | 2.736 | N150 | 2,03 | 31.3 | 606 | 1988 | 2,34 | 36.1 | 688 | 2257 |
| | | | | | | N550 | 2,38 | 36.7 | 650 | 2133 | 2,69 | 41.5 | 736 | 2415 |
| | | | | | | N560 | 2,79 | 43.1 | 675 | 2215 | 3,12 | 48.1 | 752 | 2467 |
| 11,7 | 180 | Lapua | Scenar-L | 71,0 | 2.795 | N140 | 1,96 | 30.2 | 630 | 2067 | 2,22 | 34.3 | 701 | 2300 |
| | | | | | | N150 | 2,09 | 32.3 | 650 | 2133 | 2,25 | 34.7 | 706 | 2316 |
| | | | | | | N550 | 2,30 | 35.5 | 676 | 2218 | 2,56 | 39.5 | 749 | 2457 |
| | | | | | | N160 | 2,49 | 38.4 | 689 | 2260 | 2,85 | 44.0 | 761 | 2497 |

| .284 Winchester | | | | | | Test barrel: | 610 mm (24"), 1 in 10" twist |
|-----------------|--|--|--|--|--|--------------|--|
| | | | | | | Primers: | Large Rifle, Remington 9 1/2 |
| | | | | | | Cases: | Peterson, trim-to length 55,12 mm (2.170") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|---------|-------------------------|--------------------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 7,8 | 120 | Hornady | V-Max | 71,1 | 2.799 | N140 | 2,80 | 43.2 | 836 | 2743 | 3,18 | 49.1 | 927 | 3041 |
| | | | | | | N540 | 2,90 | 44.8 | 852 | 2795 | 3,24 | 50.0 | 954 | 3130 |
| | | | | | | N150 | 2,89 | 44.6 | 846 | 2776 | 3,23 | 49.8 | 933 | 3061 |
| | | | | | | N550 | 3,18 | 49.1 | 871 | 2858 | 3,50 | 54.0 | 966 | 3169 |
| | | | | | | N555 | 3,47 | 53.6 | 898 | 2946 | 3,82 | 59.0 | 981 | 3219 |
| | | | | | | N160 | 3,60 | 55.6 | 894 | 2933 | 3,91F | 60.3F | 968 | 3176 |
| 9,1 | 140 | Nosler | E-Tip ¹⁾ | 73,5 | 2.894 | N150 | 2,58 | 39.8 | 749 | 2457 | 3,09 | 47.7 | 844 | 2769 |
| | | | | | | N550 | 3,05 | 47.1 | 789 | 2589 | 3,38 | 52.2 | 884 | 2900 |
| | | | | | | N555 | 3,30 | 50.9 | 798 | 2618 | 3,71C | 57.3C | 905 | 2969 |
| | | | | | | N160 | 3,20 | 49.4 | 784 | 2572 | 3,75 | 57.9 | 887 | 2910 |
| | | | | | | N560 | 3,55 | 54.8 | 798 | 2618 | 3,99C | 61.6C | 906 | 2972 |
| 9,7 | 150 | Berger | Classic Hunter | 71,0 | 2.795 | N140 | 2,70 | 41.7 | 783 | 2569 | 3,00 | 46.3 | 850 | 2789 |
| | | | | | | N540 | 2,57 | 39.7 | 768 | 2520 | 3,07 | 47.4 | 872 | 2861 |
| | | | | | | N150 | 2,57 | 39.7 | 763 | 2503 | 3,08 | 47.5 | 853 | 2799 |
| | | | | | | N550 | 3,01 | 46.5 | 795 | 2608 | 3,35 | 51.7 | 887 | 2910 |
| | | | | | | N555 | 3,29 | 50.8 | 813 | 2667 | 3,64 | 56.2 | 901 | 2956 |
| | | | | | | N160 | 3,50 | 54.0 | 830 | 2723 | 3,75 | 57.9 | 897 | 2943 |
| | | | | | | N560 | 3,60 | 55.6 | 818 | 2684 | 3,88 | 59.9 | 897 | 2943 |
| 9,7 | 150 | Hornady | ELD-X ¹⁾ | 74,0 | 2.913 | N150 | 2,60 | 40.1 | 762 | 2500 | 2,99 | 46.1 | 834 | 2736 |
| | | | | | | N550 | 3,00 | 46.3 | 797 | 2615 | 3,30 | 50.9 | 869 | 2851 |
| | | | | | | N555 | 3,30 | 50.9 | 822 | 2697 | 3,62 | 55.9 | 890 | 2920 |
| | | | | | | N160 | 3,28 | 50.6 | 793 | 2602 | 3,62 | 55.9 | 872 | 2861 |
| | | | | | | N560 | 3,50 | 54.0 | 796 | 2612 | 3,90 | 60.2 | 893 | 2930 |
| 9,7 | 150 | Lapua | Scenar-L | 73,5 ¹⁾ | 2.894 | N540 | 2,60 | 40.1 | 757 | 2484 | 3,02 | 46.6 | 855 | 2805 |
| | | | | | | N150 | 2,55 | 39.4 | 754 | 2474 | 3,00 | 46.3 | 835 | 2740 |
| | | | | | | N550 | 2,92 | 45.1 | 783 | 2569 | 3,24 | 50.0 | 868 | 2848 |
| | | | | | | N555 | 3,20 | 49.4 | 806 | 2644 | 3,51 | 54.2 | 882 | 2894 |
| | | | | | | N160 | 3,24 | 50.0 | 785 | 2575 | 3,60 | 55.6 | 873 | 2864 |
| | | | | | | N560 | 3,38 | 52.2 | 789 | 2589 | 3,74 | 57.7 | 887 | 2910 |
| 10,1 | 155 | Lapua | Naturalis N564 | 72,5 ¹⁾ | 2.854 | N540 | 2,55 | 39.4 | 709 | 2326 | 2,88 | 44.4 | 793 | 2602 |
| | | | | | | N150 | 2,55 | 39.4 | 718 | 2356 | 2,80 | 43.2 | 761 | 2497 |
| | | | | | | N550 | 2,85 | 44.0 | 740 | 2428 | 3,17 | 48.9 | 818 | 2684 |
| | | | | | | N555 | 3,05 | 47.1 | 750 | 2461 | 3,48 | 53.7 | 840 | 2756 |
| | | | | | | N160 | 2,61 | 40.3 | 672 | 2205 | 3,40 | 52.5 | 809 | 2654 |
| | | | | | | N560 | 3,30 | 50.9 | 750 | 2461 | 3,70 | 57.1 | 841 | 2759 |
| 10,5 | 162 | Hornady | ELD Match ¹⁾ | 74,0 | 2.913 | N150 | 2,60 | 40.1 | 754 | 2474 | 2,93 | 45.2 | 808 | 2651 |
| | | | | | | N550 | 2,87 | 44.3 | 760 | 2493 | 3,22 | 49.7 | 843 | 2766 |

| .284 Winchester | | | | | | cont. | | | | | | | | |
|---|-------|--------|----------------------------|--------------------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N555 | 3,15 | 48.6 | 778 | 2552 | 3,49 | 53.9 | 853 | 2799 |
| | | | | | | N160 | 3,20 | 49.4 | 766 | 2513 | 3,56 | 54.9 | 847 | 2779 |
| | | | | | | N560 | 3,40 | 52.5 | 771 | 2530 | 3,78 | 58.3 | 859 | 2818 |
| 10,9 | 168 | Berger | Classic Hunter | 71,0 | 2.795 | N150 | 2,62 | 40.4 | 724 | 2375 | 2,97 | 45.8 | 801 | 2628 |
| | | | | | | N550 | 2,95 | 45.5 | 754 | 2474 | 3,23 | 49.8 | 832 | 2730 |
| | | | | | | N555 | 3,20 | 49.4 | 769 | 2523 | 3,59 | 55.4 | 851 | 2792 |
| | | | | | | N160 | 3,16 | 48.8 | 754 | 2474 | 3,53 | 54.5 | 837 | 2746 |
| | | | | | | N560 | 3,39 | 52.3 | 755 | 2477 | 3,81 | 58.8 | 851 | 2792 |
| 10,9 | 168 | Sierra | HPBT | 71,0 | 2.795 | N550 | 2,81 | 43.4 | 742 | 2434 | 3,15 | 48.6 | 825 | 2707 |
| | | | | | | N555 | 3,10 | 47.8 | 762 | 2500 | 3,44 | 53.1 | 838 | 2749 |
| | | | | | | N160 | 3,13 | 48.3 | 748 | 2454 | 3,48 | 53.7 | 831 | 2726 |
| | | | | | | N560 | 3,35 | 51.7 | 757 | 2484 | 3,76 | 58.0 | 851 | 2792 |
| 11,3 | 175 | Berger | Elite Hunter ¹⁾ | 74,0 | 2.913 | N550 | 2,83 | 43.7 | 728 | 2388 | 3.17 | 48.9 | 810 | 2657 |
| | | | | | | N555 | 3,12 | 48.1 | 747 | 2451 | 3,52 | 54.3 | 829 | 2720 |
| | | | | | | N160 | 3,18 | 49.1 | 741 | 2431 | 3,51 | 54.2 | 821 | 2694 |
| | | | | | | N560 | 3,33 | 51.4 | 742 | 2434 | 3,75 | 57.9 | 836 | 2743 |
| 11,7 | 180 | Lapua | Scenar-L | 74,0 ¹⁾ | 2.913 | N150 | 2,55 | 39.4 | 706 | 2316 | 2,70 | 41.7 | 737 | 2418 |
| | | | | | | N550 | 2,67 | 41.2 | 692 | 2270 | 3,01 | 46.5 | 777 | 2549 |
| | | | | | | N555 | 2,96 | 45.7 | 715 | 2346 | 3,28 | 50.6 | 791 | 2595 |
| | | | | | | N160 | 2,95 | 45.5 | 699 | 2293 | 3,31 | 51.1 | 780 | 2559 |
| | | | | | | N165 | 3,30 | 50.9 | 722 | 2369 | 3,74C | 57.7C | 808 | 2651 |
| | | | | | | N560 | 3,20 | 49.4 | 726 | 2382 | 3,58 | 55.2 | 811 | 2661 |
| | | | | | | N565 | 3,35 | 51.7 | 741 | 2431 | 3,74 | 57.7 | 808 | 2651 |
| C = Compressed load F = Case full ¹⁾ The cartridge overall length exceeds the CIP maximum. | | | | | | | | | | | | | | |

| 7x57 | | | | | | Test barrel: 550 mm (22"), 1 in 9½" twist | | | | | | | |
|------|--|--|--|--|--|---|--|--|--|--|--|--|--|
| | | | | | | Primers: Large Rifle | | | | | | | |
| | | | | | | Cases: Sako, trim-to length 56,80 mm (2.236") | | | | | | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|--------|---------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 7,8 | 120 | Sierra | Spitzer | 76,5 | 3.012 | N135 | 2,67 | 41.1 | 814 | 2670 | 2,87 | 44.2 | 880 | 2887 |
| | | | | | | N140 | 2,82 | 43.5 | 824 | 2704 | 3,06 | 47.2 | 897 | 2942 |
| | | | | | | N150 | 2,85 | 44.0 | 828 | 2717 | 3,09 | 47.6 | 898 | 2946 |
| 9,1 | 140 | Nosler | Ballistic Tip | 77,5 | 3.051 | N140 | 2,58 | 39.7 | 736 | 2415 | 2,82 | 43.5 | 802 | 2630 |
| | | | | | | N150 | 2,65 | 40.9 | 747 | 2451 | 2,90 | 44.8 | 810 | 2657 |
| 10,4 | 160 | Sierra | SPBT | 77,5 | 3.051 | N150 | 2,50 | 38.6 | 691 | 2267 | 2,76 | 42.7 | 754 | 2474 |
| | | | | | | N160 | 3,04 | 47.0 | 726 | 2381 | 3,26 | 50.3 | 793 | 2603 |
| 11,3 | 175 | Speer | Mag-Tip | 77,0 | 3.031 | N160 | 2,76 | 42.5 | 659 | 2162 | 3,06 | 47.1 | 726 | 2383 |
| | | | | | | N165 | 2,94 | 45.4 | 666 | 2184 | 3,32 | 51.2 | 740 | 2429 |

| 7x57R | | | | | | Test barrel: 550 mm (22"), 1 in 9½" twist | | | | | | | |
|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | Primers: Large Rifle | | | | | | | |
| | | | | | | Cases: RWS, trim-to length 56,80 mm (2.236") | | | | | | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|--------|---------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 7,8 | 120 | Sierra | Spitzer | 76,5 | 3.012 | N135 | 2,58 | 39.7 | 785 | 2574 | 2,79 | 43.1 | 857 | 2812 |
| | | | | | | N140 | 2,72 | 41.9 | 791 | 2594 | 2,97 | 45.8 | 870 | 2855 |
| | | | | | | N150 | 2,74 | 42.3 | 797 | 2613 | 3,00 | 46.3 | 873 | 2863 |
| 9,1 | 140 | Nosler | Ballistic Tip | 77,5 | 3.051 | N140 | 2,47 | 38.1 | 707 | 2320 | 2,74 | 42.2 | 777 | 2549 |
| | | | | | | N150 | 2,53 | 39.0 | 718 | 2354 | 2,81 | 43.4 | 787 | 2581 |

LIGHT GREY TEXT BOX INDICATES MAXIMUM LOAD - USE WITH CAUTION!
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED

| 7 x 57R | | | | | | cont. | | | | | | | | |
|---------|-------|----------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 9,7 | 150 | Barnes | TSX | 76,5 | 3.012 | N540 | 2,38 | 36.7 | 696 | 2283 | 2,58 | 39.8 | 759 | 2490 |
| | | | | | | N150 | 2,23 | 34.4 | 663 | 2175 | 2,51 | 38.7 | 729 | 2392 |
| | | | | | | N550 | 2,58 | 39,8 | 702 | 2303 | 2,77 | 42.7 | 767 | 2516 |
| 9,7 | 150 | Brenneke | TOG | 76,5 | 3.012 | N540 | 2,33 | 36.0 | 700 | 2297 | 2,67 | 41.2 | 772 | 2533 |
| | | | | | | N150 | 2,32 | 35.8 | 685 | 2247 | 2,57 | 39.7 | 738 | 2421 |
| | | | | | | N550 | 2,67 | 41.2 | 718 | 2356 | 2,86 | 44.1 | 779 | 2556 |
| | | | | | | N160 | 2,99 | 46.1 | 723 | 2372 | 3,19 | 49.2 | 776 | 2546 |
| 9,7 | 150 | Lapua | Scenar-L | 76,5 | 3.012 | N540 | 2,40 | 37.0 | 727 | 2385 | 2,58 | 39.8 | 780 | 2559 |
| | | | | | | N150 | 2,33 | 36.0 | 707 | 2320 | 2,57 | 39.7 | 768 | 2520 |
| | | | | | | N550 | 2,50 | 38.6 | 725 | 2379 | 2,70 | 41.7 | 782 | 2566 |
| | | | | | | N160 | 2,84 | 43.8 | 741 | 2431 | 3,06 | 47.2 | 798 | 2618 |
| 10,4 | 160 | Lapua | Naturalis | 75,0 | 2.953 | N140 | 2,17 | 33.5 | 643 | 2110 | 2,41 | 37.2 | 701 | 2300 |
| | | | | | | N540 | 2,26 | 34.9 | 645 | 2116 | 2,53 | 39.0 | 715 | 2346 |
| | | | | | | N150 | 2,08 | 32.1 | 603 | 1978 | 2,47 | 38.1 | 702 | 2303 |
| 10,4 | 160 | Sierra | SPBT | 77,5 | 3.051 | N150 | 2,39 | 36.8 | 662 | 2171 | 2,66 | 41.0 | 731 | 2397 |
| | | | | | | N160 | 2,93 | 45.2 | 693 | 2272 | 3,19 | 49.3 | 774 | 2539 |
| 11,3 | 174 | Barnes | TSX | 76,5 | 3.012 | N550 | 2,26 | 34.9 | 602 | 1975 | 2,52 | 38.9 | 676 | 2218 |
| | | | | | | N160 | 2,47 | 38.1 | 603 | 1978 | 2,80 | 43.2 | 672 | 2205 |
| | | | | | | N560 | 2,80 | 43.2 | 636 | 2087 | 3,14 | 48.5 | 711 | 2333 |
| 11,3 | 175 | Speer | Mag-Tip | 77,0 | 3.031 | N160 | 2,63 | 40.6 | 629 | 2065 | 2,95 | 45.4 | 701 | 2298 |
| | | | | | | N165 | 2,78 | 42.8 | 631 | 2072 | 3,17 | 48.9 | 711 | 2333 |

| 7x64 | | | | | | Test barrel: 600 mm (23½"), 1 in 10" twist | | | | | | | |
|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | Primers: Large Rifle | | | | | | | |
| | | | | | | Cases: Norma, trim-to length 63,80 mm (2.512") | | | | | | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|--------|----------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 7,8 | 120 | Nosler | Ballistic Tip | 82,0 | 3.228 | N540 | 3,03 | 46.8 | 888 | 2913 | 3,34 | 51.5 | 982 | 3222 |
| | | | | | | N150 | 2,94 | 45.4 | 863 | 2831 | 3,24 | 50.0 | 946 | 3104 |
| | | | | | | N550 | 3,16 | 48.8 | 884 | 2900 | 3,55 | 54.8 | 983 | 3225 |
| | | | | | | N160 | 3,52 | 54.3 | 892 | 2927 | 3,70C | 57.1C | 930 | 3051 |
| 9,1 | 140 | Swift | A-Frame | 81,4 | 3.205 | N540 | 2,74 | 42.3 | 788 | 2585 | 3,15 | 48.6 | 887 | 2910 |
| | | | | | | N150 | 2,66 | 41.1 | 766 | 2513 | 3,10 | 47.8 | 856 | 2808 |
| | | | | | | N550 | 3,04 | 46.9 | 802 | 2631 | 3,32 | 51.2 | 889 | 2917 |
| | | | | | | N160 | 3,31 | 51.1 | 797 | 2615 | 3,60 | 55.6 | 889 | 2917 |
| | | | | | | N560 | 3,56 | 54.9 | 811 | 2661 | 3,88 | 59.9 | 909 | 2982 |
| 9,7 | 150 | Barnes | TSX | 83,8 | 3.299 | N540 | 2,74 | 42.3 | 753 | 2470 | 3,06 | 47.2 | 846 | 2776 |
| | | | | | | N150 | 2,65 | 40.9 | 721 | 2365 | 2,99 | 46.1 | 813 | 2667 |
| | | | | | | N550 | 2,94 | 45.4 | 765 | 2510 | 3,24 | 50.0 | 855 | 2805 |
| | | | | | | N160 | 3,19 | 49.2 | 760 | 2493 | 3,61 | 55.7 | 861 | 2825 |
| | | | | | | N560 | 3,52 | 54.3 | 787 | 2582 | 3,91 | 60.3 | 892 | 2927 |
| 9,7 | 150 | Lapua | Scenar-L | 84,0 | 3.307 | N540 | 2,71 | 41.8 | 779 | 2556 | 3,03 | 46.8 | 866 | 2841 |
| | | | | | | N150 | 2,64 | 40.7 | 757 | 2484 | 3,01 | 46.5 | 845 | 2772 |
| | | | | | | N550 | 2,92 | 45.1 | 787 | 2582 | 3,16 | 48.8 | 867 | 2844 |
| | | | | | | N160 | 3,22 | 49.7 | 794 | 2605 | 3,57 | 55.1 | 881 | 2890 |
| | | | | | | N560 | 3,33 | 51.4 | 796 | 2612 | 3,65 | 56.3 | 884 | 2900 |
| 9,7 | 150 | Nosler | Partition | 83,8 | 3.299 | N540 | 2,68 | 41.4 | 774 | 2539 | 3,14 | 48.5 | 871 | 2858 |
| | | | | | | N150 | 2,66 | 41.1 | 758 | 2487 | 3,09 | 47.7 | 843 | 2766 |
| | | | | | | N550 | 3,04 | 46.9 | 795 | 2608 | 3,33 | 51.4 | 871 | 2858 |
| | | | | | | N160 | 3,30 | 50.9 | 790 | 2592 | 3,59 | 55.4 | 874 | 2867 |
| | | | | | | N560 | 3,43 | 52.9 | 800 | 2625 | 3,76 | 58.0 | 888 | 2913 |
| 10,1 | 155 | Lapua | Naturalis N564 | 83,0 | 3.268 | N150 | 2,60 | 40.1 | 736 | 2415 | 2,96 | 45.7 | 816 | 2677 |

| 7 x 64 | | | | | | cont. | | | | | | | | |
|---------------------|-------|----------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N550 | 2,81 | 43.4 | 750 | 2461 | 3,16 | 48.8 | 840 | 2756 |
| | | | | | | N160 | 3,19 | 49.2 | 764 | 2507 | 3,52 | 54.3 | 837 | 2746 |
| | | | | | | N560 | 3,33 | 51.4 | 747 | 2451 | 3,71 | 57.3 | 866 | 2841 |
| 10,4 | 160 | Nosler | Accubond | 84,0 | 3.307 | N540 | 2,64 | 40.7 | 746 | 2448 | 3,04 | 46.9 | 835 | 2740 |
| | | | | | | N150 | 2,56 | 39.5 | 731 | 2398 | 2,99 | 46.1 | 810 | 2657 |
| | | | | | | N550 | 2,92 | 45.1 | 759 | 2490 | 3,20 | 49.4 | 839 | 2753 |
| | | | | | | N160 | 3,27 | 50.5 | 767 | 2516 | 3,60C | 55.6C | 854 | 2802 |
| 11,3 | 174 | Barnes | TSX | 81,3 | 3.201 | N540 | 2,44 | 37.7 | 655 | 2149 | 2,95 | 45.5 | 765 | 2510 |
| | | | | | | N550 | 2,78 | 42.9 | 675 | 2215 | 3,24 | 50.0 | 784 | 2572 |
| | | | | | | N160 | 3,04 | 46.9 | 676 | 2218 | 3,47 | 53.6 | 781 | 2562 |
| 11,3 | 174 | Sierra | Game King | 84,0 | 3.307 | N540 | 2,57 | 39.7 | 718 | 2356 | 2,98 | 46.0 | 803 | 2635 |
| | | | | | | N550 | 2,84 | 43.8 | 733 | 2405 | 3,09 | 47.7 | 805 | 2641 |
| | | | | | | N160 | 3,12 | 48.1 | 737 | 2418 | 3,41 | 52.6 | 812 | 2664 |
| | | | | | | N165 | 3,40 | 52.5 | 752 | 2467 | 3,75C | 57.9C | 823 | 2700 |
| | | | | | | N560 | 3,31 | 51.1 | 750 | 2461 | 3,70 | 57.1 | 837 | 2746 |
| 11,5 | 177 | Brenneke | TIG | 82,3 | 3.240 | N540 | 2,53 | 39.0 | 687 | 2254 | 2,92 | 45.1 | 774 | 2539 |
| | | | | | | N550 | 2,81 | 43.4 | 701 | 2300 | 3,11 | 48.0 | 783 | 2569 |
| | | | | | | N160 | 3,06 | 47.2 | 703 | 2306 | 3,46 | 53.4 | 791 | 2595 |
| | | | | | | N165 | 3,43 | 52.9 | 724 | 2375 | 3,80C | 58.6C | 815 | 2674 |
| | | | | | | N560 | 3,31 | 51.1 | 730 | 2395 | 3,72 | 57.4 | 814 | 2671 |
| 11,7 | 180 | Lapua | Scenar-L | 84,0 | 3.307 | N540 | 2,57 | 39.7 | 702 | 2303 | 2,86 | 44.1 | 781 | 2562 |
| | | | | | | N550 | 2,75 | 42.4 | 701 | 2300 | 3,02 | 46.6 | 787 | 2582 |
| | | | | | | N160 | 3,04 | 46.9 | 716 | 2349 | 3,40 | 52.5 | 799 | 2621 |
| | | | | | | N165 | 3,41 | 52.6 | 743 | 2438 | 3,60 | 55.6 | 789 | 2589 |
| | | | | | | N560 | 3,20 | 49.4 | 701 | 2300 | 3,66 | 56.6 | 821 | 2694 |
| C = Compressed load | | | | | | | | | | | | | | |

| | | |
|---------|--------------|--|
| 7 x 65R | Test barrel: | 660 mm (26"), 1 in 9" twist |
| | Primers: | Large Rifle |
| | Cases: | Lapua, trim-to length 64,8 mm (2.551") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|--------|---------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 7,8 | 120 | Nosler | Ballistic Tip | 83,5 | 3.287 | N540 | 3,01 | 46.5 | 886 | 2907 | 3,27 | 50.5 | 966 | 3169 |
| | | | | | | N150 | 2,89 | 44.6 | 852 | 2795 | 3,15 | 48.6 | 931 | 3054 |
| | | | | | | N550 | 3,18 | 49.1 | 883 | 2897 | 3,42 | 52.8 | 964 | 3163 |
| | | | | | | N160 | 3,50 | 54.0 | 885 | 2904 | 3,72 | 57.4 | 958 | 3143 |
| 9,1 | 140 | Swift | A-Frame | 82,3 | 3.240 | N540 | 2,76 | 42.6 | 787 | 2582 | 3,12 | 48.1 | 872 | 2861 |
| | | | | | | N150 | 2,66 | 41.1 | 757 | 2484 | 2,98 | 46.0 | 831 | 2726 |
| | | | | | | N550 | 3,01 | 46.5 | 799 | 2621 | 3,24 | 50.0 | 871 | 2858 |
| 9,7 | 150 | Barnes | TSX | 83,5 | 3.287 | N540 | 2,73 | 42.1 | 754 | 2474 | 3,00 | 46.3 | 834 | 2736 |
| | | | | | | N150 | 2,59 | 40.0 | 716 | 2349 | 2,90 | 44.8 | 796 | 2612 |
| | | | | | | N550 | 2,90 | 44.8 | 765 | 2510 | 3,15 | 48.6 | 841 | 2759 |
| | | | | | | N160 | 3,20 | 49.4 | 756 | 2480 | 3,49 | 53.9 | 835 | 2740 |
| | | | | | | N560 | 3,49 | 53.9 | 783 | 2569 | 3,74 | 57.7 | 863 | 2831 |
| 9,7 | 150 | Lapua | Scenar-L | 82,3 | 3.240 | N540 | 2,70 | 41.7 | 783 | 2569 | 3,00 | 46.3 | 856 | 2808 |
| | | | | | | N150 | 2,62 | 40.4 | 756 | 2480 | 2,94 | 45.4 | 829 | 2720 |
| | | | | | | N550 | 2,93 | 45.2 | 793 | 2602 | 3,12 | 48.1 | 858 | 2815 |
| | | | | | | N160 | 3,22 | 49.7 | 793 | 2602 | 3,49 | 53.9 | 868 | 2848 |
| | | | | | | N560 | 3,40 | 52.5 | 797 | 2615 | 3,67 | 56.6 | 875 | 2871 |
| 9,7 | 150 | Nosler | Partition | 83,5 | 3.287 | N540 | 2,67 | 41.2 | 770 | 2526 | 3,05 | 47.1 | 849 | 2785 |
| | | | | | | N150 | 2,64 | 40.7 | 750 | 2461 | 2,96 | 45.7 | 820 | 2690 |
| | | | | | | N550 | 2,99 | 46.1 | 788 | 2585 | 3,24 | 50.0 | 856 | 2808 |

LIGHT GREY TEXT BOX INDICATES MAXIMUM LOAD - USE WITH CAUTION!
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED

| 7 x 65R | | | | | | cont. | | | | | | | | |
|---------|-------|----------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 10,1 | 156 | Lapua | Naturalis | 83,5 | 3.287 | N540 | 2,71 | 41.8 | 742 | 2434 | 2,94 | 45.4 | 809 | 2654 |
| | | | | | | N150 | 2,59 | 40.0 | 714 | 2343 | 2,84 | 43.8 | 777 | 2549 |
| | | | | | | N550 | 2,86 | 44.1 | 750 | 2461 | 3,07 | 47.4 | 808 | 2651 |
| | | | | | | N160 | 3,10 | 47.8 | 709 | 2326 | 3,41 | 52.6 | 809 | 2654 |
| | | | | | | N560 | 3,35 | 51.7 | 759 | 2490 | 3,71 | 57.3 | 844 | 2769 |
| 10,4 | 160 | Nosler | Accubond | 83,5 | 3.287 | N540 | 2,71 | 41.8 | 744 | 2441 | 2,95 | 45.5 | 811 | 2661 |
| | | | | | | N150 | 2,57 | 39.7 | 715 | 2346 | 2,90 | 44.8 | 785 | 2575 |
| | | | | | | N550 | 2,87 | 44.3 | 748 | 2454 | 3,09 | 47.7 | 816 | 2677 |
| | | | | | | N160 | 3,10 | 47.8 | 745 | 2444 | 3,40 | 52.5 | 820 | 2690 |
| | | | | | | N560 | 3,35 | 51.7 | 766 | 2513 | 3,69 | 56.9 | 846 | 2776 |
| 11,3 | 175 | Barnes | TSX | 82,3 | 3.240 | N540 | 2,53 | 39.0 | 658 | 2159 | 2,80 | 43.2 | 740 | 2428 |
| | | | | | | N550 | 2,74 | 42.3 | 672 | 2205 | 3,02 | 46.6 | 751 | 2464 |
| | | | | | | N160 | 2,86 | 44.1 | 656 | 2152 | 3,28 | 50.6 | 747 | 2451 |
| | | | | | | N560 | 3,33 | 51.4 | 714 | 2343 | 3,67 | 56.6 | 800 | 2625 |
| 11,3 | 175 | Sierra | Game King | 83,5 | 3.287 | N540 | 2,37 | 36.6 | 682 | 2238 | 2,88 | 44.4 | 783 | 2569 |
| | | | | | | N550 | 2,84 | 43.8 | 729 | 2392 | 3,07 | 47.4 | 796 | 2612 |
| | | | | | | N160 | 3,13 | 48.3 | 734 | 2408 | 3,33 | 51.4 | 796 | 2612 |
| | | | | | | N165 | 3,45 | 53.2 | 762 | 2500 | 3,74 | 57.7 | 828 | 2717 |
| | | | | | | N560 | 3,33 | 51.4 | 748 | 2454 | 3,59 | 55.4 | 822 | 2697 |
| 11,5 | 177 | Brenneke | TIG | 83,5 | 3.287 | N160 | 3,05 | 47.1 | 700 | 2297 | 3,37 | 52.0 | 773 | 2536 |
| | | | | | | N165 | 3,44 | 53.1 | 732 | 2402 | 3,72 | 57.4 | 800 | 2625 |
| | | | | | | N560 | 3,35 | 51.7 | 730 | 2395 | 3,66 | 56.5 | 806 | 2644 |
| 11,7 | 180 | Lapua | Scenar-L | 83,6 | 3.291 | N540 | 2,61 | 40.3 | 711 | 2333 | 2,82 | 43.5 | 772 | 2533 |
| | | | | | | N550 | 2,73 | 42.1 | 715 | 2346 | 2,97 | 45.8 | 776 | 2546 |
| | | | | | | N160 | 3,06 | 47.2 | 722 | 2369 | 3,30 | 50.9 | 786 | 2579 |
| | | | | | | N165 | 3,41 | 52.6 | 752 | 2467 | 3,68 | 56.8 | 815 | 2674 |
| | | | | | | N560 | 3,31 | 51.1 | 741 | 2431 | 3,58 | 55.2 | 810 | 2657 |

| | | |
|----------|--------------|--|
| 7 mm WSM | Test barrel: | 660 mm (26"), 1 in 9.5" twist |
| | Primers: | Large Rifle Magnum |
| | Cases: | Winchester, trim-to length 53,15 mm (2.093") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|---------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 7,1 | 110 | Speer | TNT-HP | 71,7 | 2.823 | N150 | 3,44 | 53.1 | 965 | 3166 | 3,95 | 61.0 | 1062 | 3484 |
| | | | | | | N550 | 3,88 | 59.9 | 987 | 3238 | 4,24 | 65.4 | 1086 | 3563 |
| | | | | | | N160 | 4,19 | 64.7 | 986 | 3235 | 4,62 | 71.3 | 1069 | 3507 |
| 9,1 | 140 | Nosler | Partition | 71,9 | 2.831 | N160 | 3,46 | 53.4 | 855 | 2805 | 4,00 | 61.7 | 957 | 3140 |
| | | | | | | N165 | 4,06 | 62.7 | 885 | 2904 | 4,50 | 69.4 | 970 | 3182 |
| | | | | | | N560 | 3,80 | 58.6 | 876 | 2874 | 4,34 | 67.0 | 979 | 3212 |
| 10,0 | 154 | Hornady | Interbond | 71,9 | 2.831 | N160 | 3,39 | 52.3 | 819 | 2687 | 3,92 | 60.5 | 912 | 2992 |
| | | | | | | N165 | 3,88 | 59.9 | 842 | 2762 | 4,51 | 69.6 | 941 | 3087 |
| | | | | | | N560 | 3,70 | 57.1 | 841 | 2759 | 4,25 | 65.6 | 946 | 3104 |
| 10,4 | 160 | Lapua | Naturalis | 71,4 | 2.811 | N160 | 2,93 | 45.2 | 782 | 2566 | 3,56 | 54.9 | 843 | 2766 |
| | | | | | | N165 | 3,34 | 51.5 | 763 | 2503 | 3,90 | 60.2 | 859 | 2818 |
| | | | | | | N560 | 3,38 | 52.2 | 779 | 2556 | 3,85 | 59.4 | 878 | 2881 |
| 10,4 | 160 | Sierra | SBT | 72,4 | 2.850 | N160 | 3,38 | 52.2 | 796 | 2612 | 3,93 | 60.6 | 892 | 2927 |
| | | | | | | N165 | 3,91 | 60.3 | 834 | 2736 | 4,31 | 66.5 | 914 | 2999 |
| | | | | | | N560 | 3,70 | 57.1 | 827 | 2713 | 4,15 | 64.0 | 922 | 3025 |

LIGHT GREY

| | | | |
|-----------------------|--|--------------|---|
| 7 mm Remington Magnum | | Test barrel: | 610 mm (24"), 1 in 9" twist |
| | | Primers: | Large Rifle Magnum |
| | | Cases: | Lapua, trim-to length 63,30 mm (2.492") |

| CAUTION: Loads less than the listed starting load may cause excessive chamber pressure and must not be used! | | | | | | | | | | | | | | |
|--|-------|--------|----------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 9,1 | 140 | Swift | A-Frame | 83,0 | 3.268 | N160 | 3,45 | 53.2 | 828 | 2717 | 4,03 | 62.2 | 935 | 3068 |
| | | | | | | N165 | 3,88 | 59.9 | 863 | 2831 | 4,37 | 67.4 | 955 | 3133 |
| | | | | | | N560 | 3,84 | 59.3 | 852 | 2795 | 4,36 | 67.3 | 966 | 3169 |
| 9,7 | 150 | Lapua | Scenar-L | 83,5 | 3.287 | N160 | 3,27 | 50.5 | 794 | 2605 | 3,87 | 59.7 | 893 | 2930 |
| | | | | | | N165 | 3,72 | 57.4 | 820 | 2690 | 4,28 | 66.1 | 925 | 3035 |
| | | | | | | N560 | 3,86 | 59.6 | 847 | 2779 | 4,32 | 66.7 | 951 | 3120 |
| 9,7 | 150 | Nosler | Partition | 83,5 | 3.287 | N160 | 3,53 | 54.5 | 824 | 2703 | 3,94 | 60.8 | 912 | 2992 |
| | | | | | | N165 | 3,82 | 59.0 | 847 | 2779 | 4,32 | 66.7 | 931 | 3054 |
| | | | | | | N560 | 3,89 | 60.0 | 851 | 2792 | 4,35 | 67.1 | 948 | 3110 |
| 10,1 | 155 | Lapua | Naturalis N564 | 83,0 | 3.268 | N160 | 2,99 | 46.1 | 716 | 2349 | 3,42 | 52.8 | 806 | 2644 |
| | | | | | | N165 | 3,30 | 50.9 | 743 | 2438 | 3,93 | 60.6 | 852 | 2795 |
| | | | | | | N560 | 3,50 | 54.0 | 773 | 2536 | 3,90 | 60.2 | 879 | 2884 |
| 10,4 | 160 | Lapua | Naturalis | 81,8 | 3.220 | N160 | 3,15 | 48.6 | 753 | 2470 | 3,76 | 58.0 | 859 | 2818 |
| | | | | | | N165 | 3,65 | 56.3 | 786 | 2579 | 4,08 | 63.0 | 868 | 2848 |
| | | | | | | N560 | 3,67 | 56.6 | 843 | 2766 | 4,03 | 62.2 | 943 | 3094 |
| 10,4 | 160 | Speer | Grand Slam | 82,0 | 3.228 | N160 | 3,31 | 51.1 | 784 | 2572 | 3,99 | 61.6 | 880 | 2887 |
| | | | | | | N165 | 3,83 | 59.1 | 812 | 2664 | 4,41 | 68.1 | 909 | 2982 |
| | | | | | | N560 | 3,91 | 60.3 | 823 | 2700 | 4,45 | 68.7 | 925 | 3035 |
| 10,9 | 168 | Sierra | HPBT | 83,5 | 3.287 | N160 | 3,26 | 50.3 | 767 | 2516 | 3,86 | 59.6 | 862 | 2828 |
| | | | | | | N165 | 3,61 | 55.7 | 788 | 2585 | 4,14 | 63.9 | 853 | 2799 |
| | | | | | | N560 | 3,75 | 57.9 | 811 | 2661 | 4,26 | 65.7 | 903 | 2963 |
| | | | | | | N170 | 3,78 | 58.3 | 778 | 2552 | 4,52 | 69.8 | 887 | 2910 |
| 11,3 | 175 | Sierra | SBT | 83,5 | 3.287 | N160 | 3,09 | 47.7 | 737 | 2418 | 3,64 | 56.2 | 826 | 2710 |
| | | | | | | N165 | 3,41 | 52.6 | 746 | 2448 | 4,06 | 62.7 | 854 | 2802 |
| | | | | | | N560 | 3,66 | 56.5 | 791 | 2595 | 4,18 | 64.5 | 885 | 2904 |
| | | | | | | N170 | 3,73 | 57.6 | 761 | 2497 | 4,35 | 67.1 | 862 | 2828 |
| 11,7 | 180 | Berger | Hybrid Target | 83,5 | 3.287 | N160 | 3,12 | 48.1 | 731 | 2398 | 3,51 | 54.2 | 797 | 2615 |
| | | | | | | N560 | 3,43 | 52.9 | 764 | 2507 | 3,87 | 59.7 | 843 | 2766 |
| | | | | | | N565 | 3,60 | 55.6 | 787 | 2582 | 4,06 | 62.7 | 853 | 2799 |
| 11,7 | 180 | Lapua | Scenar-L | 83,5 | 3.287 | N160 | 2,78 | 42.9 | 678 | 2224 | 3,24 | 50.0 | 765 | 2510 |
| | | | | | | N165 | 2,87 | 44.3 | 679 | 2228 | 3,48 | 53.7 | 783 | 2569 |
| | | | | | | N560 | 3,10 | 47.8 | 728 | 2388 | 3,45 | 53.2 | 808 | 2651 |
| | | | | | | N170 | 3,12 | 48.1 | 678 | 2224 | 3,79 | 58.5 | 806 | 2644 |
| 12,6 | 194 | Berger | Elite Hunter | 83,5 | 3.287 | N165 | 3,56 | 54.9 | 736 | 2415 | 3,94 | 60.8 | 800 | 2625 |
| | | | | | | N560 | 3,66 | 56.5 | 755 | 2477 | 4,04 | 62.3 | 827 | 2713 |
| | | | | | | N565 | 3,72 | 57.4 | 758 | 2487 | 4,13 | 63.7 | 829 | 2720 |
| | | | | | | N170 | 3,69 | 56.9 | 736 | 2415 | 4,07 | 62.8 | 804 | 2638 |

| | | | |
|-----------------------|--|--------------|---|
| 7 mm Weatherby Magnum | | Test barrel: | 660 mm (26"), 1 in 9" twist |
| | | Primers: | Large Rifle Magnum |
| | | Cases: | Weatherby, trim-to length 64,50 mm (2.539") |

| CAUTION: Loads less than the listed starting load may cause excessive chamber pressure and must not be used! | | | | | | | | | | | | | | |
|--|-------|---------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 6,5 | 100 | Hornady | HP | 81,5 | 3.209 | N160 | 4,76 | 73.5 | 1071 | 3512 | 5,10 | 78.7 | 1149 | 3770 |

LIGHT GREY TEXT BOX INDICATES MAXIMUM LOAD - USE WITH CAUTION!
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED

| 7 mm Weatherby Magnum | | | | | | cont. | | | | | | | | |
|-----------------------|-------|--------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N560 | 4,98 | 76.8 | 1085 | 3561 | 5,30 | 81.8 | 1170 | 3839 |
| 7,8 | 120 | Sierra | Spitzer | 82,5 | 3.248 | N160 | 4,52 | 69.8 | 989 | 3245 | 4,83 | 74.5 | 1057 | 3468 |
| | | | | | | N165 | 4,89 | 75.5 | 1003 | 3290 | 5,20 | 80.2 | 1072 | 3517 |
| | | | | | | N560 | 4,79 | 73.9 | 1009 | 3310 | 5,07 | 78.2 | 1079 | 3540 |
| 10,4 | 160 | Sierra | Spitzer | 82,5 | 3.248 | N160 | 4,09 | 63.1 | 853 | 2799 | 4,39 | 67.7 | 912 | 2992 |
| | | | | | | N165 | 4,41 | 68.0 | 864 | 2834 | 4,69 | 72.4 | 924 | 3031 |
| | | | | | | N560 | 4,26 | 65.7 | 868 | 2846 | 4,53 | 69.9 | 927 | 3041 |
| 10,9 | 168 | Sierra | HPBT | 81,5 | 3.209 | N160 | 4,00 | 61.7 | 832 | 2730 | 4,23 | 65.3 | 879 | 2884 |
| | | | | | | N165 | 4,31 | 66.5 | 840 | 2755 | 4,51 | 69.6 | 888 | 2913 |
| | | | | | | N560 | 4,17 | 64.3 | 845 | 2771 | 4,42 | 68.2 | 909 | 2982 |

| | | | |
|----------|--|--------------|---|
| 7 mm RUM | | Test barrel: | 660 mm (26"), 1 in 9" twist |
| | | Primers: | Large Rifle Magnum |
| | | Cases: | Remington, trim-to length 72,14 mm (2.840") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|--------|---------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 7,8 | 120 | Nosler | Ballistic Tip | 88,5 | 3.484 | N160 | 5,39 | 83.2 | 1015 | 3330 | 5,83 | 90.0 | 1107 | 3632 |
| | | | | | | N165 | 5,59 | 86.3 | 1046 | 3432 | 6,06 | 93.5 | 1143 | 3750 |
| | | | | | | N560 | 5,76 | 88.9 | 1020 | 3346 | 6,15 | 94.9 | 1123 | 3684 |
| 10,4 | 160 | Lapua | Naturalis | 91,0 | 3.583 | N560 | 3,30 | 50.9 | 751 | 2464 | 4,54 | 70.1 | 904 | 2966 |
| | | | | | | N170 | 3,64 | 56.2 | 758 | 2487 | 4,72 | 72.8 | 890 | 2920 |
| | | | | | | N570 | 3,55 | 54.8 | 792 | 2598 | 4,95 | 76.4 | 934 | 3064 |
| 10,9 | 168 | Sierra | MatchKing | 91,5 | 3.602 | N560 | 5,07 | 78.2 | 897 | 2943 | 5,51 | 85.0 | 978 | 3209 |
| | | | | | | N170 | 5,61 | 86.6 | 918 | 3012 | 5,96 | 92.0 | 997 | 3271 |
| | | | | | | N570 | 5,59 | 86.3 | 912 | 2992 | 6,07 | 93.7 | 1003 | 3291 |
| 11,3 | 175 | Swift | A-Frame | 91,5 | 3.602 | N560 | 4,82 | 74.4 | 853 | 2799 | 5,27 | 81.3 | 935 | 3068 |
| | | | | | | N170 | 5,26 | 81.2 | 880 | 2887 | 5,51 | 85.0 | 914 | 2999 |
| | | | | | | N570 | 5,31 | 81.9 | 873 | 2864 | 5,82 | 89.8 | 955 | 3133 |

| | | | |
|-------------|--|--------------|---|
| .30 Carbine | | Test barrel: | 460 mm (18"), 1 in 10" twist |
| | | Primers: | Small Rifle |
| | | Cases: | Federal, trim-to length 32,60 mm (1.283") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|-------|-------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 6,5 | 100 | Speer | Plinker | 42,5 | 1.673 | N110 | 0,88 | 13.6 | 610 | 2001 | 0,97 | 15.0 | 669 | 2196 |
| 7,1 | 110 | Speer | Spire Point | 42,5 | 1.673 | N110 | 0,79 | 12.1 | 545 | 1786 | 0,91 | 14.0 | 605 | 1983 |

| | | | |
|-------------------|--|--------------|---|
| .300 AAC Blackout | | Test barrel: | 356 mm (14"), 1 in 8" twist |
| | | Primers: | Small Rifle |
| | | Cases: | Lapua 221 Rem. Fireball, trim-to length 34,60 mm (1.362") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|--------|-------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 6,5 | 100 | Lapua | HPCE / OTCE | 46,5 | 1.831 | N105 | 0,67 | 10.3 | 569 | 1867 | 0,84 | 13.0 | 643 | 2110 |
| | | | | | | N110 | 0,93 | 14.4 | 633 | 2077 | 1,10 | 17.0 | 688 | 2257 |
| 8,0 | 123 | Lapua | FMJ | 50,2 | 1.976 | N105 | 0,67 | 10.3 | 480 | 1575 | 0,77 | 11.9 | 541 | 1775 |
| | | | | | | N110 | 0,94 | 14.5 | 566 | 1857 | 1,03 | 15.9 | 607 | 1991 |
| 8,1 | 125 | Nosler | Accubond | 51,4 | 2.024 | N105 | 0,66 | 10.2 | 518 | 1699 | 0,77 | 11.9 | 577 | 1893 |

LIGHT GREY TEXT BOX INDICATES MAXIMUM LOAD - USE WITH CAUTION!
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED

| .300 AAC Blackout | | | | | | cont. | | | | | | | | |
|-------------------|-------|--------|-------------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N110 | 0,89 | 13.7 | 580 | 1903 | 0,99 | 15.3 | 617 | 2024 |
| 8,1 | 125 | Sierra | MatchKing | 56,1 | 2.209 | N105 | 0,66 | 10.2 | 531 | 1742 | 0,76 | 11.7 | 552 | 1811 |
| | | | | | | N110 | 0,92 | 14.2 | 568 | 1864 | 1,02 | 15.7 | 613 | 2011 |
| 9,7 | 150 | Lapua | LockBase | 57,0 | 2.244 | N120 | 0,60 | 9.3 | 317 | 1040 | 1,27 | 19.6 | 615 | 2018 |
| 10,0 | 155 | Lapua | Scenar / Scenar-L | 57,0 | 2.244 | N120 | 0,62 | 9.6 | 316 | 1037 | 1,19 | 18.4 | 588 | 1929 |
| 10,9 | 167 | Lapua | Scenar | 57,0 | 2.244 | N120 | 0,61 | 9.4 | 313 | 1027 | 1,17 | 18.1 | 561 | 1841 |
| 12,0 | 185 | Lapua | Scenar | 57,0 | 2.244 | N120 | 0,66 | 10.2 | 318 | 1043 | 1,09 | 16.8 | 522 | 1713 |
| 13,0 | 200 | Lapua | FMJBT | 57,0 | 2.244 | N110 | 0,54 | 8.3 | 319 | 1047 | 0,79 | 12.2 | 436 | 1430 |
| | | | | | | N120 | 0,66 | 10.2 | 316 | 1037 | 1,02 | 15.7 | 459 | 1506 |

| .308 Winchester | | | | | | Test barrel: | 610 mm (24"), 1 in 12" twist |
|-----------------|--|--|--|--|--|--------------|---|
| | | | | | | Primers: | Large Rifle |
| | | | | | | Cases: | Lapua, trim-to length 51,00 mm (2.008") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|---------|-------------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 3,7 | 57 | Lapua | ALS ¹⁾ | 67,0 | 2.638 | N110 | 1,78 | 27.5 | 1061 | 3481 | 2,24 | 34.5 | 1217 | 3993 |
| 6,5 | 100 | Lapua | HPCE / OTCE | 67,0 | 2.638 | N110 | 1,32 | 20.4 | 711 | 2333 | 1,80 | 27.8 | 870 | 2854 |
| | | | | | | N120 | 1,98 | 30.6 | 812 | 2663 | 2,33 | 36.0 | 930 | 3051 |
| | | | | | | N130 | 2,18 | 33.7 | 852 | 2794 | 2,60 | 40.1 | 976 | 3203 |
| | | | | | | N133 | 2,63 | 40.6 | 918 | 3012 | 2,95F | 45.5F | 1023 | 3356 |
| | | | | | | N530 | 2,68 | 41.4 | 915 | 3002 | 3,01 | 46.5 | 1044 | 3425 |
| | | | | | | N135 | 2,47 | 38.1 | 865 | 2837 | 2,99 | 46.1 | 992 | 3255 |
| 7,1 | 110 | Barnes | TSX FB | 68,5 | 2.697 | N130 | 2,46 | 38.0 | 880 | 2887 | 2,70 | 41.7 | 953 | 3127 |
| | | | | | | N133 | 2,70 | 41.7 | 910 | 2986 | 2,94 | 45.4 | 983 | 3225 |
| | | | | | | N530 | 2,82 | 43.5 | 913 | 2995 | 3,05 | 47.1 | 998 | 3274 |
| | | | | | | N135 | 2,80 | 43.2 | 914 | 2999 | 3,00 | 46.3 | 971 | 3186 |
| 7,1 | 110 | Hornady | GMX | 71,0 | 2.795 | N130 | 2,40 | 37.0 | 868 | 2848 | 2,61 | 40.3 | 938 | 3077 |
| | | | | | | N133 | 2,63 | 40.6 | 883 | 2897 | 2,89F | 44.6F | 966 | 3169 |
| | | | | | | N530 | 2,66 | 41.1 | 881 | 2890 | 2,95 | 45.5 | 978 | 3209 |
| | | | | | | N135 | 2,74 | 42.3 | 893 | 2930 | 3,00C | 46.9C | 972 | 3189 |
| | | | | | | N540 | 2,97 | 45.8 | 893 | 2930 | 3,17C | 48.9C | 954 | 3130 |
| 7,1 | 110 | Hornady | V-Max | 68,5 | 2.697 | N130 | 2,41 | 37.2 | 875 | 2871 | 2,61 | 40.3 | 939 | 3081 |
| | | | | | | N133 | 2,63 | 40.6 | 897 | 2943 | 2,84 | 43.8 | 964 | 3163 |
| | | | | | | N530 | 2,73 | 42.1 | 905 | 2969 | 2,95 | 45.5 | 972 | 3189 |
| | | | | | | N135 | 2,76 | 42.6 | 915 | 3002 | 3,01 | 46.5 | 980 | 3215 |
| | | | | | | N140 | 2,98 | 46.0 | 912 | 2992 | 3,20C | 49.4C | 975 | 3199 |
| 7,1 | 110 | Sako | HP | 67,5 | 2.657 | N120 | 2,32 | 35.8 | 844 | 2769 | 2,67 | 41.2 | 962 | 3157 |
| | | | | | | N130 | 2,52 | 38.9 | 862 | 2826 | 2,96 | 45.7 | 988 | 3242 |
| | | | | | | N133 | 2,73 | 42.1 | 874 | 2868 | 3,19 | 49.1 | 1009 | 3311 |
| 8,0 | 123 | Lapua | FMJ | 66,9 | 2.634 | N120 | 2,08 | 32.1 | 812 | 2664 | 2,39 | 36.9 | 896 | 2940 |
| | | | | | | N130 | 2,26 | 34.9 | 782 | 2566 | 2,78 | 42.9 | 923 | 3028 |
| | | | | | | N133 | 2,62 | 40.4 | 858 | 2815 | 2,87 | 44.3 | 940 | 3084 |
| | | | | | | N530 | 2,59 | 40.0 | 850 | 2789 | 2,88 | 44.4 | 959 | 3146 |
| | | | | | | N135 | 2,72 | 42.0 | 830 | 2723 | 3,06F | 47.2F | 921 | 3022 |
| 8,1 | 125 | Nosler | Ballistic Tip | 70,0 | 2.756 | N130 | 2,40 | 37.0 | 818 | 2684 | 2,79 | 43.0 | 935 | 3068 |
| | | | | | | N133 | 2,60 | 40.1 | 829 | 2721 | 3,00 | 46.3 | 951 | 3120 |
| | | | | | | N135 | 2,70 | 41.6 | 833 | 2732 | 3,17 | 48.9 | 958 | 3143 |
| | | | | | | N140 | 2,86 | 44.1 | 835 | 2739 | 3,23F | 49.8F | 936 | 3071 |
| 8,1 | 125 | Sierra | TMK | 71,0 | 2.795 | N130 | 2,28 | 35.2 | 812 | 2664 | 2,55 | 39.4 | 884 | 2900 |
| | | | | | | N133 | 2,57 | 39.7 | 840 | 2756 | 2,75 | 42.4 | 900 | 2953 |
| | | | | | | N530 | 2,51 | 38.7 | 833 | 2733 | 2,85 | 44.0 | 929 | 3048 |
| | | | | | | N135 | 2,62 | 40.4 | 841 | 2759 | 2,81 | 43.4 | 908 | 2979 |

LIGHT GREY TEXT BOX INDICATES MAXIMUM LOAD - USE WITH CAUTION!
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED

| .308 Winchester | | | | | | cont. | | | | | | | | |
|-----------------|-------|-----------|----------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N140 | 2,80 | 43.2 | 836 | 2743 | 3,06 | 47.2 | 910 | 2986 |
| 8,5 | 130 | Barnes | TSX BT | 70,7 | 2.783 | N130 | 2,29 | 35.3 | 797 | 2615 | 2,53 | 39.0 | 868 | 2848 |
| | | | | | | N133 | 2,50 | 38.6 | 822 | 2697 | 2,70 | 41.7 | 885 | 2904 |
| | | | | | | N530 | 2,62 | 40.4 | 830 | 2723 | 2,84 | 43.8 | 900 | 2953 |
| | | | | | | N135 | 2,60 | 40.1 | 829 | 2720 | 2,83 | 43.7 | 898 | 2946 |
| | | | | | | N140 | 2,81 | 43.4 | 835 | 2740 | 3,05 | 47.1 | 907 | 2976 |
| 9,1 | 140 | LOS | Hunting Tactic | 70,5 | 2.776 | N135 | 2,55 | 39.4 | 812 | 2664 | 2,76 | 42.9 | 882 | 2894 |
| | | | | | | N140 | 2,70 | 41.7 | 809 | 2654 | 2,96 | 45.7 | 882 | 2894 |
| | | | | | | N540 | 2,72 | 42.0 | 816 | 2677 | 2,97 | 45.8 | 897 | 2943 |
| 9,7 | 150 | Barnes | TTSX BT | 71,0 | 2.795 | N135 | 2,28 | 35.2 | 725 | 2379 | 2,55 | 39.4 | 800 | 2625 |
| | | | | | | N140 | 2,54 | 39.2 | 754 | 2474 | 2,77 | 42.7 | 822 | 2697 |
| | | | | | | N540 | 2,57 | 39.7 | 761 | 2497 | 2,82C | 43.5C | 840 | 2756 |
| | | | | | | N150 | 2,60 | 40.1 | 764 | 2507 | 2,82C | 43.5C | 829 | 2720 |
| | | | | | | N550 | 2,78 | 42.9 | 757 | 2484 | 3,10C | 47.8C | 846 | 2776 |
| 9,7 | 150 | Hornady | GMX | 71,0 | 2.795 | N135 | 2,35 | 36.3 | 719 | 2359 | 2,57 | 39.7 | 795 | 2608 |
| | | | | | | N140 | 2,53 | 39.0 | 735 | 2411 | 2,79 | 43.1 | 810 | 2657 |
| | | | | | | N540 | 2,60 | 40.1 | 744 | 2441 | 2,83 | 43.7 | 827 | 2713 |
| | | | | | | N150 | 2,55 | 39.4 | 736 | 2415 | 2,82 | 43.5 | 811 | 2661 |
| 9,7 | 150 | Lapua | LockBase | 70,0 | 2.756 | N530 | 2,45 | 37.8 | 794 | 2605 | 2,76 | 42.6 | 892 | 2927 |
| | | | | | | N135 | 2,56 | 39.5 | 810 | 2657 | 2,83 | 43.7 | 885 | 2904 |
| | | | | | | N140 | 2,75 | 42.4 | 800 | 2625 | 2,90F | 44.7F | 853 | 2799 |
| | | | | | | N540 | 2,78 | 42.9 | 807 | 2648 | 3,00 | 46.3 | 901 | 2956 |
| | | | | | | N150 | 2,80 | 43.2 | 803 | 2635 | 2,93F | 45.2F | 835 | 2740 |
| 9,7 | 150 | Lapua | Mega | 65,2 | 2.567 | N135 | 2,35 | 36.3 | 747 | 2451 | 2,68 | 41.4 | 842 | 2762 |
| | | | | | | N140 | 2,35 | 36.3 | 715 | 2346 | 2,95 | 45.5 | 824 | 2703 |
| | | | | | | N540 | 2,64 | 40.7 | 726 | 2382 | 2,97 | 45.8 | 833 | 2733 |
| 9,7 | 150 | LOS | Tactic | 70,6 | 2.780 | N530 | 2,38 | 36.7 | 773 | 2536 | 2,64 | 40.7 | 853 | 2799 |
| | | | | | | N135 | 2,46 | 38.0 | 782 | 2566 | 2,68 | 41.4 | 843 | 2766 |
| | | | | | | N140 | 2,64 | 40.7 | 780 | 2559 | 2,95 | 45.5 | 855 | 2805 |
| | | | | | | N540 | 2,67 | 41.2 | 789 | 2589 | 2,95 | 45.5 | 873 | 2864 |
| 9,7 | 150 | Norma | FMJ | 68,4 | 2.693 | N130 | 2,02 | 31.2 | 720 | 2362 | 2,36 | 36.4 | 802 | 2631 |
| | | | | | | N133 | 2,32 | 35.8 | 757 | 2484 | 2,53 | 39.0 | 822 | 2697 |
| | | | | | | N530 | 2,40 | 37.0 | 763 | 2503 | 2,58 | 39.8 | 827 | 2713 |
| | | | | | | N135 | 2,45 | 37.8 | 774 | 2539 | 2,67 | 41.2 | 834 | 2736 |
| | | | | | | N140 | 2,63 | 40.6 | 781 | 2562 | 2,86 | 44.1 | 849 | 2785 |
| 9,7 | 150 | Red Moose | TARVAS | 69,2 | 2.724 | N135 | 2,50 | 38.6 | 791 | 2595 | 2,70 | 41.7 | 852 | 2795 |
| | | | | | | N140 | 2,65 | 40.9 | 787 | 2582 | 2,94 | 45.4 | 865 | 2838 |
| | | | | | | N540 | 2,77 | 42.7 | 808 | 2651 | 3,02C | 46.6C | 878 | 2881 |
| | | | | | | N150 | 2,75 | 42.4 | 803 | 2635 | 2,99C | 46.1C | 861 | 2825 |
| | | | | | | N550 | 2,95 | 45.5 | 809 | 2654 | 3,10C | 47.8C | 851 | 2792 |
| 9,7 | 150 | Sierra | HPBT | 71,0 | 2.795 | N140 | 2,62 | 40.4 | 752 | 2467 | 3,06 | 47.3 | 869 | 2851 |
| | | | | | | N540 | 2,71 | 41.8 | 758 | 2487 | 3,13 | 48.3 | 901 | 2956 |
| | | | | | | N150 | 2,74 | 42.2 | 776 | 2545 | 3,14C | 48.4C | 874 | 2869 |
| | | | | | | N550 | 2,88 | 44.5 | 772 | 2534 | 3,26F | 50.3F | 870 | 2855 |
| 9,7 | 150 | Sierra | SPBT | 70,0 | 2.756 | N133 | 2,27 | 35.0 | 729 | 2391 | 2,86 | 44.1 | 863 | 2831 |
| | | | | | | N135 | 2,56 | 39.5 | 764 | 2505 | 2,96 | 45.7 | 871 | 2857 |
| | | | | | | N140 | 2,71 | 41.8 | 767 | 2516 | 3,05 | 47.1 | 858 | 2815 |
| | | | | | | N150 | 2,82 | 43.6 | 776 | 2545 | 3,23 | 49.9 | 878 | 2880 |
| 9,7 | 150 | Swift | Scirocco II | 71,0 | 2.795 | N135 | 2,28 | 35.2 | 746 | 2448 | 2,48 | 38.3 | 799 | 2621 |
| | | | | | | N140 | 2,50 | 38.6 | 757 | 2484 | 2,75 | 42.4 | 822 | 2697 |
| | | | | | | N540 | 2,55 | 39.4 | 772 | 2533 | 2,77 | 42.7 | 833 | 2733 |
| | | | | | | N150 | 2,55 | 39.4 | 770 | 2526 | 2,78 | 42.9 | 827 | 2713 |
| | | | | | | N550 | 2,75 | 42.4 | 763 | 2503 | 2,98 | 46.0 | 831 | 2726 |
| 9,7 | 150 | Woodleigh | Weldcore PP | 71,0 | 2.795 | N135 | 2,42 | 37.3 | 751 | 2464 | 2,68 | 41.4 | 817 | 2680 |

| .308 Winchester | | | | | | cont. | | | | | | | | |
|-----------------|-------|-----------|-------------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N140 | 2,53 | 39.0 | 745 | 2444 | 2,87 | 44.3 | 822 | 2697 |
| | | | | | | N540 | 2,63 | 40.6 | 768 | 2520 | 2,93 | 45.2 | 854 | 2802 |
| 10,0 | 155 | Berger | Hybrid Target | 71,0 | 2.795 | N135 | 2,41 | 37.2 | 750 | 2461 | 2,61 | 40.3 | 812 | 2664 |
| | | | | | | N140 | 2,58 | 39.8 | 754 | 2474 | 2,80 | 43.2 | 819 | 2687 |
| | | | | | | N540 | 2,64 | 40.7 | 768 | 2520 | 2,85 | 44.0 | 842 | 2762 |
| | | | | | | N150 | 2,61 | 40.3 | 761 | 2497 | 2,84 | 43.8 | 829 | 2720 |
| | | | | | | N550 | 2,76 | 42.6 | 759 | 2490 | 3,01 | 46.5 | 840 | 2756 |
| 10,0 | 155 | Brenneke | TAG | 69,6 | 2.740 | N140 | 2,66 | 41.1 | 765 | 2510 | 2,94 | 45.4 | 845 | 2772 |
| | | | | | | N540 | 2,69 | 41.5 | 776 | 2546 | 2,99 | 46.1 | 871 | 2858 |
| | | | | | | N150 | 2,74 | 42.3 | 772 | 2533 | 3,00 | 46.3 | 848 | 2782 |
| 10,0 | 155 | Lapua | Scenar / Scenar-L | 71,0 | 2.795 | N530 | 2,24 | 34.6 | 727 | 2385 | 2,66 | 41.0 | 844 | 2769 |
| | | | | | | N135 | 2,23 | 34.4 | 687 | 2254 | 2,64 | 40.7 | 804 | 2638 |
| | | | | | | N140 | 2,38 | 36.7 | 686 | 2251 | 2,81 | 43.4 | 807 | 2648 |
| | | | | | | N540 | 2,63 | 40.6 | 781 | 2562 | 2,91 | 44.9 | 884 | 2900 |
| | | | | | | N150 | 2,53 | 39.0 | 719 | 2359 | 3,03 | 46.8 | 818 | 2683 |
| | | | | | | N550 | 2,88 | 44.4 | 794 | 2605 | 3,25F | 50.2F | 901 | 2956 |
| 10,0 | 155 | LOS | Hunting | 69,9 | 2.752 | N140 | 2,62 | 40.4 | 766 | 2513 | 2,88 | 44.4 | 836 | 2743 |
| | | | | | | N540 | 2,66 | 41.1 | 779 | 2556 | 2,90 | 44.8 | 855 | 2805 |
| | | | | | | N150 | 2,68 | 41.4 | 776 | 2546 | 2,94 | 45.4 | 846 | 2776 |
| 10,0 | 155 | Sierra | HPBT | 71,0 | 2.795 | N135 | 2,28 | 35.1 | 712 | 2337 | 2,68 | 41.3 | 815 | 2674 |
| | | | | | | N140 | 2,40 | 37.0 | 717 | 2354 | 2,86 | 44.2 | 827 | 2712 |
| | | | | | | N540 | 2,46 | 37.9 | 712 | 2337 | 2,92 | 45.1 | 838 | 2750 |
| | | | | | | N150 | 2,63 | 40.6 | 752 | 2466 | 3,01 | 46.5 | 850 | 2790 |
| | | | | | | N550 | 2,76 | 42.5 | 756 | 2479 | 3,22C | 49.7C | 880 | 2888 |
| 10,0 | 155 | Sierra | TMK | 71,0 | 2.795 | N135 | 2,42 | 37.3 | 753 | 2470 | 2,60 | 40.1 | 809 | 2654 |
| | | | | | | N140 | 2,58 | 39.8 | 751 | 2464 | 2,79 | 43.1 | 816 | 2677 |
| | | | | | | N540 | 2,62 | 40.4 | 766 | 2513 | 2,83 | 43.7 | 839 | 2753 |
| | | | | | | N150 | 2,63 | 40.6 | 761 | 2497 | 2,85 | 44.0 | 826 | 2710 |
| | | | | | | N550 | 2,78 | 42.9 | 765 | 2510 | 3,01 | 46.5 | 841 | 2759 |
| 10,5 | 162 | Sako | Blade | 71,0 | 2.795 | N140 | 2,35 | 36.3 | 700 | 2297 | 2,62F | 40.4F | 768 | 2520 |
| | | | | | | N540 | 2,45 | 37.8 | 717 | 2352 | 2,76 | 42.6 | 797 | 2615 |
| | | | | | | N150 | 2,40 | 37.0 | 694 | 2277 | 2,67 | 41.2 | 763 | 2503 |
| | | | | | | N550 | 2,70 | 41.7 | 729 | 2392 | 3,04C | 46.9C | 813 | 2667 |
| 10,7 | 165 | Barnes | TSX | 71,0 | 2.795 | N140 | 2,45 | 37.8 | 702 | 2303 | 2,79 | 43.1 | 815 | 2674 |
| | | | | | | N150 | 2,52 | 38.9 | 715 | 2346 | 2,89 | 44.6 | 824 | 2703 |
| | | | | | | N550 | 2,71 | 41.8 | 726 | 2382 | 3,05 | 47.1 | 833 | 2733 |
| 10,7 | 165 | Brenneke | TOG | 68,5 | 2.697 | N140 | 2,49 | 38.4 | 729 | 2392 | 2,73 | 42.1 | 788 | 2585 |
| | | | | | | N540 | 2,53 | 39.0 | 736 | 2415 | 2,82 | 43.5 | 820 | 2690 |
| | | | | | | N150 | 2,51 | 38.7 | 719 | 2359 | 2,81 | 43.4 | 794 | 2605 |
| 10,7 | 165 | Hornady | GMX | 71,0 | 2.795 | N140 | 2,46 | 38.0 | 682 | 2238 | 2,67 | 41.2 | 756 | 2480 |
| | | | | | | N540 | 2,41 | 37.2 | 685 | 2247 | 2,70 | 41.7 | 777 | 2549 |
| | | | | | | N150 | 2,42 | 37.3 | 681 | 2234 | 2,70 | 41.7 | 761 | 2497 |
| | | | | | | N550 | 2,61 | 40.3 | 699 | 2293 | 2,93 | 45.2 | 790 | 2592 |
| 10,7 | 165 | Red Moose | TARVAS | 69,2 | 2.724 | N140 | 2,60 | 40.1 | 759 | 2490 | 2,82 | 43.5 | 819 | 2687 |
| | | | | | | N540 | 2,65 | 40.9 | 757 | 2484 | 2,92 | 45.1 | 834 | 2736 |
| | | | | | | N150 | 2,65 | 40.9 | 755 | 2477 | 2,89 | 44.6 | 818 | 2684 |
| | | | | | | N550 | 2,83 | 43.7 | 767 | 2516 | 3,09C | 47.7C | 836 | 2743 |
| 10,7 | 165 | Rhino | Solid Shank | 67,5 | 2.657 | N140 | 2,56 | 39.5 | 736 | 2415 | 2,78 | 42.9 | 796 | 2612 |
| | | | | | | N540 | 2,60 | 40.1 | 739 | 2425 | 2,85 | 44.0 | 808 | 2651 |
| | | | | | | N150 | 2,69 | 41.5 | 758 | 2487 | 2,85 | 44.0 | 808 | 2651 |
| | | | | | | N550 | 2,86 | 44.1 | 745 | 2444 | 3,07 | 47.4 | 813 | 2667 |
| 10,7 | 165 | Sierra | SBT | 69,9 | 2.752 | N135 | 2,38 | 36.7 | 726 | 2382 | 2,59 | 40.0 | 786 | 2579 |
| | | | | | | N140 | 2,55 | 39.4 | 742 | 2434 | 2,81 | 43.4 | 808 | 2651 |
| | | | | | | N540 | 2,63 | 40.6 | 754 | 2474 | 2,88 | 44.4 | 827 | 2713 |

| .308 Winchester | | | | | | cont. | | | | | | | | |
|-----------------|-------|--------|----------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N150 | 2,62 | 40.4 | 743 | 2438 | 2,85 | 44.0 | 807 | 2648 |
| | | | | | | N550 | 2,80 | 43.2 | 761 | 2497 | 3,05F | 47.1F | 831 | 2726 |
| 10,7 | 165 | Speer | SPBT | 71,0 | 2.795 | N133 | 2,38 | 36.8 | 715 | 2345 | 2,72 | 41.9 | 809 | 2653 |
| | | | | | | N135 | 2,48 | 38.3 | 724 | 2376 | 2,86 | 44.1 | 824 | 2703 |
| | | | | | | N140 | 2,60 | 40.1 | 729 | 2390 | 3,00 | 46.3 | 838 | 2750 |
| | | | | | | N150 | 2,66 | 41.0 | 735 | 2411 | 3,10 | 47.9 | 842 | 2761 |
| | | | | | | N550 | 2,86 | 44.1 | 760 | 2495 | 3,19 | 49.3 | 850 | 2789 |
| 10,7 | 165 | Swift | Scirocco II | 71,0 | 2.795 | N140 | 2,39 | 36.9 | 715 | 2346 | 2,63 | 40.6 | 777 | 2549 |
| | | | | | | N540 | 2,44 | 37.7 | 716 | 2349 | 2,69 | 41.5 | 786 | 2579 |
| | | | | | | N150 | 2,47 | 38.1 | 723 | 2372 | 2,70 | 41.7 | 782 | 2566 |
| | | | | | | N550 | 2,68 | 41.4 | 724 | 2375 | 2,93 | 45.2 | 797 | 2615 |
| 10,9 | 167 | Lapua | Scenar | 71,0 | 2.795 | N135 | 2,38 | 36.7 | 739 | 2425 | 2,59 | 40.0 | 813 | 2667 |
| | | | | | | N140 | 2,59 | 40.0 | 718 | 2356 | 2,85 | 44.0 | 801 | 2628 |
| | | | | | | N540 | 2,58 | 39.8 | 733 | 2405 | 2,85 | 44.0 | 811 | 2661 |
| | | | | | | N150 | 2,71 | 41.8 | 747 | 2451 | 2,90A | 44.8A | 836 | 2744 |
| | | | | | | N550 | 2,88 | 44.4 | 763 | 2503 | 3,17F | 48.9F | 836 | 2743 |
| 10,9 | 168 | Barnes | TSX | 71,0 | 2.795 | N140 | 2,59 | 40.0 | 739 | 2425 | 2,86 | 44.1 | 812 | 2664 |
| | | | | | | N540 | 2,68 | 41.4 | 746 | 2448 | 2,94 | 45.4 | 838 | 2749 |
| | | | | | | N150 | 2,63 | 40.6 | 740 | 2428 | 2,91 | 44.9 | 814 | 2671 |
| 10,9 | 168 | Berger | Hybrid Target | 71,0 | 2.795 | N140 | 2,50 | 38.6 | 715 | 2346 | 2,71 | 41.8 | 779 | 2556 |
| | | | | | | N540 | 2,58 | 39.8 | 736 | 2415 | 2,78 | 42.9 | 809 | 2654 |
| | | | | | | N150 | 2,56 | 39.5 | 731 | 2398 | 2,77 | 42.8 | 793 | 2602 |
| | | | | | | N550 | 2,73 | 42.1 | 739 | 2425 | 2,92 | 45.0 | 811 | 2661 |
| 10,9 | 168 | Sierra | HPBT | 71,0 | 2.795 | N135 | 2,47 | 38.1 | 747 | 2451 | 2,73 | 42.1 | 822 | 2697 |
| | | | | | | N140 | 2,35 | 36.2 | 685 | 2247 | 2,78 | 42.8 | 780 | 2558 |
| | | | | | | N540 | 2,44 | 37.7 | 691 | 2266 | 2,89 | 44.5 | 809 | 2654 |
| | | | | | | N150 | 2,50 | 38.6 | 707 | 2321 | 2,88 | 44.5 | 804 | 2636 |
| | | | | | | N550 | 2,70 | 41.6 | 725 | 2379 | 3,06 | 47.2 | 832 | 2729 |
| 11,0 | 170 | Lapua | LockBase | 71,0 | 2.795 | N135 | 2,42 | 37.4 | 710 | 2328 | 2,78 | 42.9 | 806 | 2645 |
| | | | | | | N140 | 2,56 | 39.5 | 715 | 2345 | 2,95A | 45.5A | 822 | 2696 |
| | | | | | | N540 | 2,60 | 40.1 | 703 | 2308 | 3,00 | 46.3 | 842 | 2762 |
| | | | | | | N150 | 2,61 | 40.2 | 720 | 2361 | 2,95 | 45.5 | 833 | 2734 |
| | | | | | | N550 | 2,77 | 42.8 | 719 | 2360 | 3,14 | 48.5 | 845 | 2772 |
| 11,0 | 170 | Lapua | Naturalis LR | 71,0 | 2.795 | N140 | 2,54 | 39.2 | 744 | 2441 | 2,84 | 43.8 | 825 | 2707 |
| | | | | | | N150 | 2,67 | 41.2 | 760 | 2493 | 2,89 | 44.6 | 815 | 2674 |
| | | | | | | N550 | 2,78 | 42.9 | 737 | 2418 | 3,13F | 48.3F | 833 | 2733 |
| 11,0 | 170 | Lapua | Naturalis N558 | 71,0 | 2.795 | N140 | 2,46 | 38.0 | 723 | 2372 | 2,72 | 42.0 | 797 | 2615 |
| | | | | | | N540 | 2,57 | 39.7 | 752 | 2467 | 2,86 | 44.1 | 824 | 2703 |
| | | | | | | N150 | 2,56 | 39.5 | 730 | 2395 | 2,77 | 42.7 | 803 | 2635 |
| | | | | | | N550 | 2,72 | 42.0 | 736 | 2415 | 2,97 | 45.8 | 799 | 2621 |
| 11,3 | 175 | Lapua | Scenar-L | 71,0 | 2.795 | N135 | 2,29 | 35.3 | 720 | 2362 | 2,50 | 38.6 | 786 | 2579 |
| | | | | | | N140 | 2,46 | 38.0 | 735 | 2411 | 2,68 | 41.4 | 803 | 2635 |
| | | | | | | N540 | 2,51 | 38.7 | 746 | 2448 | 2,75 | 42.4 | 822 | 2697 |
| | | | | | | N150 | 2,54 | 39.2 | 741 | 2431 | 2,73 | 42.1 | 804 | 2638 |
| 11,3 | 175 | Sierra | HPBT/VLD | 71,0 | 2.795 | N140 | 2,29 | 35.3 | 664 | 2177 | 2,68 | 41.4 | 762 | 2501 |
| | | | | | | N540 | 2,44 | 37.7 | 687 | 2253 | 2,79 | 43.1 | 788 | 2586 |
| | | | | | | N150 | 2,39 | 36.8 | 681 | 2236 | 2,82 | 43.5 | 784 | 2573 |
| | | | | | | N550 | 2,57 | 39.6 | 698 | 2290 | 2,97 | 45.8 | 802 | 2631 |
| 11,7 | 180 | Barnes | TTSX BT | 71,0 | 2.795 | N135 | 2,08 | 32.1 | 643 | 2110 | 2,38 | 36.7 | 711 | 2333 |
| | | | | | | N140 | 2,39 | 36.9 | 666 | 2185 | 2,64 | 40.7 | 736 | 2415 |
| | | | | | | N540 | 2,39 | 36.9 | 675 | 2215 | 2,64 | 40.7 | 748 | 2454 |
| | | | | | | N150 | 2,36 | 36.4 | 670 | 2198 | 2,63 | 40.6 | 738 | 2421 |
| | | | | | | N550 | 2,57 | 39.7 | 681 | 2234 | 2,81 | 43.4 | 751 | 2464 |
| 11,7 | 180 | Barnes | XFB | 71,0 | 2.795 | N540 | 2,09 | 32.2 | 591 | 1938 | 2,55 | 39.3 | 715 | 2346 |

| .308 Winchester | | | | | | cont. | | | | | | | | |
|-----------------|-------|---------|-------------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N550 | 2,30 | 35.5 | 623 | 2043 | 2,75 | 42.4 | 734 | 2408 |
| 11,7 | 180 | Berger | Elite Hunter | 71,0 | 2.795 | N135 | 2,36 | 36.4 | 693 | 2274 | 2,53 | 39.0 | 746 | 2448 |
| | | | | | | N140 | 2,45 | 37.8 | 694 | 2277 | 2,66 | 41.1 | 758 | 2487 |
| | | | | | | N540 | 2,53 | 39.0 | 713 | 2339 | 2,73 | 42.1 | 777 | 2549 |
| | | | | | | N150 | 2,48 | 38.3 | 697 | 2287 | 2,70 | 41.7 | 760 | 2493 |
| | | | | | | N550 | 2,67 | 41.2 | 715 | 2346 | 2,90 | 44.8 | 785 | 2575 |
| 11,7 | 180 | Hornady | SP | 71,0 | 2.795 | N135 | 2,33 | 36.0 | 661 | 2169 | 2,71 | 41.8 | 765 | 2510 |
| | | | | | | N140 | 2,47 | 38.1 | 669 | 2196 | 2,86 | 44.1 | 781 | 2561 |
| | | | | | | N150 | 2,48 | 38.3 | 677 | 2220 | 3,00 | 46.3 | 793 | 2601 |
| 11,7 | 180 | Norma | Oryx | 68,8 | 2.709 | N530 | 2,24 | 34.6 | 693 | 2274 | 2,38 | 36.7 | 744 | 2441 |
| | | | | | | N135 | 2,22 | 34.3 | 680 | 2231 | 2,40 | 37.0 | 737 | 2418 |
| | | | | | | N140 | 2,42 | 37.3 | 697 | 2287 | 2,66 | 41.1 | 760 | 2493 |
| | | | | | | N540 | 2,45 | 37.8 | 708 | 2323 | 2,66 | 41.1 | 770 | 2526 |
| | | | | | | N150 | 2,43 | 37.5 | 702 | 2303 | 2,68 | 41.4 | 764 | 2507 |
| | | | | | | N550 | 2,59 | 40.0 | 712 | 2336 | 2,81 | 43.4 | 774 | 2539 |
| 11,7 | 180 | RWS | HMK | 67,6 | 2.661 | N140 | 2,47 | 38.1 | 693 | 2274 | 2,68 | 41.4 | 754 | 2474 |
| | | | | | | N540 | 2,49 | 38.4 | 701 | 2300 | 2,75 | 42.4 | 772 | 2533 |
| | | | | | | N150 | 2,48 | 38.3 | 697 | 2287 | 2,73 | 42.1 | 760 | 2493 |
| | | | | | | N550 | 2,74 | 42.3 | 712 | 2336 | 3,04C | 46.9C | 788 | 2585 |
| 11,7 | 180 | RWS | UNI Classic | 67,2 | 2.646 | N140 | 2,43 | 37.5 | 689 | 2260 | 2,69 | 41.5 | 753 | 2470 |
| | | | | | | N540 | 2,45 | 37.8 | 690 | 2264 | 2,70 | 41.7 | 761 | 2497 |
| | | | | | | N150 | 2,50 | 38.6 | 698 | 2290 | 2,73 | 42.1 | 758 | 2487 |
| | | | | | | N550 | 2,70 | 41.7 | 704 | 2310 | 2,98C | 46.0C | 778 | 2552 |
| 12,0 | 185 | Berger | Hybrid Target | 71,0 | 2.795 | N540 | 2,42 | 37.3 | 684 | 2244 | 2,62 | 40.4 | 757 | 2484 |
| | | | | | | N150 | 2,41 | 37.2 | 672 | 2205 | 2,63 | 40.6 | 738 | 2421 |
| 12,0 | 185 | Berger | Juggernaut Target | 71,0 | 2.795 | N140 | 2,40 | 37.0 | 668 | 2192 | 2,61 | 40.3 | 730 | 2395 |
| | | | | | | N540 | 2,45 | 37.8 | 687 | 2254 | 2,66 | 41.1 | 758 | 2487 |
| | | | | | | N150 | 2,43 | 37.5 | 674 | 2211 | 2,63 | 40.6 | 734 | 2408 |
| | | | | | | N550 | 2,63 | 40.6 | 699 | 2293 | 2,81 | 43.4 | 764 | 2507 |
| 12,0 | 185 | Lapua | D46 | 71,0 | 2.795 | N135 | 2,33 | 36.0 | 667 | 2188 | 2,66 | 41.0 | 761 | 2495 |
| | | | | | | N140 | 2,44 | 37.6 | 675 | 2215 | 2,83A | 43.7A | 778 | 2551 |
| | | | | | | N540 | 2,54 | 39.2 | 712 | 2335 | 2,84 | 43.8 | 791 | 2595 |
| | | | | | | N150 | 2,57 | 39.7 | 728 | 2388 | 2,84 | 43.8 | 805 | 2641 |
| | | | | | | N550 | 2,73 | 42.1 | 731 | 2398 | 3,03F | 46.8F | 822 | 2697 |
| 12,0 | 185 | Lapua | Mega | 67,5 | 2.657 | N135 | 2,39 | 36.9 | 673 | 2208 | 2,57 | 39.7 | 731 | 2398 |
| | | | | | | N140 | 2,53 | 39.0 | 675 | 2215 | 2,82 | 43.5 | 756 | 2480 |
| | | | | | | N540 | 2,63 | 40.6 | 707 | 2320 | 2,92 | 45.1 | 801 | 2628 |
| | | | | | | N150 | 2,65 | 40.9 | 688 | 2257 | 2,93 | 45.2 | 756 | 2480 |
| | | | | | | N550 | 2,76 | 42.6 | 685 | 2247 | 3,07 | 47.4 | 768 | 2520 |
| 12,0 | 185 | Lapua | Scenar | 71,0 | 2.795 | N140 | 2,44 | 37.7 | 706 | 2316 | 2,69 | 41.5 | 778 | 2552 |
| | | | | | | N540 | 2,38 | 36.7 | 725 | 2379 | 2,76 | 42.6 | 801 | 2628 |
| | | | | | | N150 | 2,42 | 37.3 | 664 | 2179 | 2,72 | 42.0 | 785 | 2575 |
| | | | | | | N550 | 2,62 | 40.5 | 672 | 2203 | 3,04A | 46.9A | 795 | 2608 |
| 12,3 | 190 | Sierra | HPBT | 71,0 | 2.795 | N140 | 2,42 | 37.3 | 677 | 2222 | 2,78 | 42.9 | 764 | 2508 |
| | | | | | | N540 | 2,44 | 37.6 | 672 | 2204 | 2,83 | 43.7 | 786 | 2579 |
| | | | | | | N150 | 2,49 | 38.4 | 676 | 2218 | 2,82 | 43.6 | 767 | 2516 |
| | | | | | | N550 | 2,63 | 40.6 | 695 | 2279 | 3,06 | 47.2 | 800 | 2624 |
| 13,0 | 200 | Speer | SP | 71,0 | 2.795 | N140 | 2,28 | 35.2 | 609 | 1999 | 2,67 | 41.2 | 712 | 2335 |
| | | | | | | N150 | 2,24 | 34.5 | 604 | 1982 | 2,74 | 42.2 | 715 | 2344 |
| 13,3 | 205 | Berger | Elite Hunter | 71,0 | 2.795 | N140 | 2,33 | 36.0 | 648 | 2126 | 2,55C | 39.4C | 706 | 2316 |
| | | | | | | N540 | 2,45 | 37.8 | 669 | 2195 | 2,69 | 41.5 | 736 | 2415 |
| | | | | | | N150 | 2,39 | 36.9 | 651 | 2136 | 2,62C | 40.4C | 708 | 2323 |
| | | | | | | N550 | 2,62 | 40.4 | 678 | 2224 | 2,88C | 44.4C | 749 | 2457 |
| 13,5 | 208 | Hornady | A-MAX | 71,0 | 2.795 | N140 | 2,28 | 35.2 | 634 | 2080 | 2,49C | 38.4C | 691 | 2267 |

LIGHT GREY TEXT BOX INDICATES MAXIMUM LOAD - USE WITH CAUTION!
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED

| .308 Winchester | | | | | | cont. | | | | | | | | |
|--|-------|------|------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N540 | 2,45 | 37.8 | 668 | 2192 | 2,67C | 41.2C | 730 | 2395 |
| | | | | | | N150 | 2,40 | 37.0 | 647 | 2123 | 2,60C | 40.1C | 699 | 2293 |
| | | | | | | N550 | 2,60 | 40.1 | 673 | 2208 | 2,84C | 43.8C | 737 | 2418 |
| 14,3 | 220 | Sako | Hammerhead | 70,5 | 2.776 | N140 | 2,30 | 35.5 | 609 | 1998 | 2,54 | 39.2 | 668 | 2192 |
| | | | | | | N540 | 2,27 | 35.0 | 603 | 1978 | 2,49 | 38.4 | 665 | 2182 |
| | | | | | | N150 | 2,26 | 34.9 | 593 | 1946 | 2,52 | 38.9 | 656 | 2152 |
| | | | | | | N550 | 2,60 | 40.1 | 636 | 2087 | 2,79 | 43.1 | 692 | 2270 |
| A = Accuracy load C = Compressed load F = Case full ¹⁾ A muzzle velocity exceeding 1000 m/s (3300 fps) may lead to severe barrel fouling! | | | | | | | | | | | | | | |

.30-30 Winchester

| | |
|--------------|---|
| Test barrel: | 510 mm (20"), 1 in 12" twist |
| Primers: | Large Rifle |
| Cases: | Remington, trim-to length 51,60 mm (2.031") |

| Bullet | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|-------|-----------|--------|---------------|------|--------|-------|--------------|-------|--------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] |
| 6,8 | 105 | Lapua | HP | 64,5 | 2.539 | N120 | 1,48 | 22.8 | 692 | 2271 | 1,73 | 26.8 |
| | | | | | | N130 | 1,70 | 26.3 | 710 | 2329 | 1,95 | 30.1 |
| | | | | | | N133 | 1,86 | 28.7 | 730 | 2395 | 2,19 | 33.8 |
| 8,5 | 130 | Speer | FSP | 64,7 | 2.547 | N120 | 1,41 | 21.7 | 617 | 2024 | 1,67 | 25.8 |
| | | | | | | N130 | 1,59 | 24.5 | 641 | 2103 | 1,84 | 28.4 |
| | | | | | | N133 | 1,71 | 26.4 | 653 | 2143 | 1,97 | 30.4 |
| | | | | | | N135 | 1,80 | 27.7 | 649 | 2129 | 2,08 | 32.0 |
| 9,7 | 150 | Speer | FSP | 64,5 | 2.539 | N120 | 1,23 | 19.1 | 519 | 1701 | 1,46 | 22.5 |
| | | | | | | N130 | 1,43 | 22.1 | 558 | 1831 | 1,65 | 25.4 |
| | | | | | | N133 | 1,48 | 22.8 | 560 | 1839 | 1,72 | 26.5 |
| | | | | | | N135 | 1,71 | 26.4 | 587 | 1927 | 1,93 | 29.7 |
| | | | | | | N140 | 1,85 | 28.5 | 596 | 1956 | 2,06 | 31.8 |
| 11,0 | 170 | Speer | FSP | 64,5 | 2.539 | N130 | 1,34 | 20.7 | 516 | 1692 | 1,60 | 24.7 |
| | | | | | | N133 | 1,42 | 21.9 | 511 | 1678 | 1,67 | 25.8 |
| | | | | | | N135 | 1,58 | 24.4 | 536 | 1759 | 1,80 | 27.7 |
| | | | | | | N140 | 1,66 | 25.5 | 533 | 1747 | 1,89 | 29.2 |

.300 Savage

| | |
|--------------|---|
| Test barrel: | 600 mm (23½"), 1 in 12" twist |
| Primers: | Large Rifle |
| Cases: | Remington, trim-to length 47,30 mm (1.862") |

| Bullet | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|--------|-----------|--------|---------------|------|--------|-------|--------------|-------|--------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] |
| 6,5 | 100 | Lapua | HP / OTCE | 62,5 | 2.461 | N120 | 2,19 | 33.9 | 878 | 2881 | 2,45 | 37.8 |
| | | | | | | N130 | 2,41 | 37.1 | 912 | 2993 | 2,59 | 40.0 |
| | | | | | | N133 | 2,59 | 39.9 | 894 | 2932 | 2,85 | 44.0 |
| 8,1 | 125 | Speer | TNT-HP | 65,5 | 2.579 | N120 | 2,06 | 31.8 | 764 | 2507 | 2,27 | 35.0 |
| | | | | | | N130 | 2,21 | 34.1 | 794 | 2606 | 2,42 | 37.3 |
| | | | | | | N133 | 2,53 | 39.1 | 822 | 2698 | 2,71 | 41.8 |
| 9,7 | 150 | Lapua | Mega | 61,5 | 2.421 | N130 | 1,89 | 29.2 | 684 | 2243 | 2,18 | 33.6 |
| | | | | | | N135 | 2,24 | 34.6 | 706 | 2315 | 2,50 | 38.6 |
| | | | | | | N140 | 2,44 | 37.6 | 719 | 2360 | 2,72 | 42.0 |
| 10,7 | 165 | Sierra | SBT | 66,0 | 2.598 | N133 | 2,20 | 33.9 | 690 | 2264 | 2,42 | 37.3 |
| | | | | | | N135 | 2,35 | 36.2 | 700 | 2297 | 2,53 | 39.0 |
| | | | | | | N140 | 2,46 | 37.9 | 713 | 2341 | 2,68 | 41.4 |
| 12,0 | 185 | Lapua | Mega | 66,0 | 2.598 | N135 | 2,15 | 33.2 | 631 | 2072 | 2,44 | 37.6 |
| | | | | | | N140 | 2,30 | 35.5 | 649 | 2131 | 2,59 | 40.0 |

LIGHT GREY TEXT BOX INDICATES MAXIMUM LOAD - USE WITH CAUTION!
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED

| .300 Savage | | | | | | cont. | | | | | | | | |
|-------------|-------|-----|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N540 | 2,36 | 36.4 | 644 | 2113 | 2,66 | 41.0 | 720 | 2362 |

| 7,62 x 53R (7,62 Russian) | | | | | | Test barrel: 660 mm (26"), 1 in 10" twist | | | | | | | |
|---------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | Primers: Large Rifle | | | | | | | |
| | | | | | | Cases: Lapua, trim-to length 53,30 mm (2.098") | | | | | | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|--------|-------------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 6,5 | 100 | Lapua | HPCE / OTCE | 68,0 | 2.677 | N120 | 2,59 | 40.0 | 933 | 3061 | 2,88 | 44.4 | 1020 | 3346 |
| | | | | | | N130 | 2,80 | 43.2 | 956 | 3136 | 3,03 | 46.8 | 1036 | 3399 |
| | | | | | | N133 | 2,98 | 46.0 | 960 | 3150 | 3,20F | 49.4F | 1019 | 3343 |
| 8,0 | 123 | Lapua | FMJ | 68,5 | 2.697 | N130 | 2,81 | 43.3 | 883 | 2896 | 3,19 | 49.1 | 967 | 3171 |
| | | | | | | N133 | 3,07 | 47.4 | 900 | 2954 | 3,41 | 52.6 | 978 | 3209 |
| | | | | | | N135 | 3,19 | 49.2 | 901 | 2956 | 3,50 | 54.0 | 984 | 3229 |
| 9,7 | 150 | Lapua | LockBase | 73,0 | 2.874 | N133 | 2,71 | 41.8 | 811 | 2661 | 2,92 | 45.1 | 871 | 2858 |
| | | | | | | N135 | 2,90 | 44.8 | 825 | 2707 | 3,12 | 48.1 | 889 | 2917 |
| | | | | | | N140 | 3,09 | 47.7 | 847 | 2779 | 3,35 | 51.7 | 916 | 3005 |
| 9,7 | 150 | Lapua | Mega | 70,9 | 2.791 | N133 | 2,43 | 37.5 | 727 | 2384 | 2,83 | 43.6 | 826 | 2709 |
| | | | | | | N135 | 2,70 | 41.7 | 761 | 2497 | 3,05 | 47.1 | 851 | 2790 |
| | | | | | | N140 | 2,86 | 44.1 | 774 | 2540 | 3,19 | 49.2 | 862 | 2829 |
| 10,0 | 155 | Lapua | Scenar / Scenar-L | 75,5 | 2.972 | N135 | 2,74 | 42.3 | 786 | 2579 | 3,02 | 46.7 | 865 | 2839 |
| | | | | | | N140 | 2,90 | 44.8 | 800 | 2625 | 3,19 | 49.3 | 884 | 2900 |
| | | | | | | N150 | 2,99 | 46.2 | 803 | 2635 | 3,15A | 48.6A | 886 | 2906 |
| 10,1 | 156 | Sako | SPBT | 70,5 | 2.776 | N135 | 2,89 | 44.6 | 789 | 2589 | 3,18 | 49.0 | 866 | 2840 |
| | | | | | | N140 | 3,01 | 46.5 | 796 | 2612 | 3,19 | 49.2 | 845 | 2772 |
| | | | | | | N150 | 3,16 | 48.7 | 809 | 2655 | 3,33 | 51.4 | 857 | 2812 |
| 10,9 | 167 | Lapua | Scenar | 75,0 | 2.953 | N140 | 3,00 | 46.3 | 784 | 2573 | 3,10A | 47.8A | 830 | 2723 |
| | | | | | | N540 | 2,94 | 45.3 | 774 | 2541 | 3,12 | 48.1 | 812 | 2664 |
| | | | | | | N150 | 3,12 | 48.1 | 790 | 2590 | 3,27 | 50.5 | 834 | 2736 |
| | | | | | | N550 | 3,21 | 49.5 | 797 | 2616 | 3,40 | 52.5 | 840 | 2756 |
| 10,9 | 168 | Sierra | HPBT | 75,6 | 2.976 | N140 | 2,94 | 45.4 | 775 | 2541 | 3,18 | 49.1 | 830 | 2723 |
| | | | | | | N540 | 3,03 | 46.7 | 787 | 2581 | 3,12 | 48.1 | 812 | 2664 |
| | | | | | | N150 | 3,08 | 47.5 | 790 | 2591 | 3,27 | 50.5 | 834 | 2736 |
| | | | | | | N550 | 3,26 | 50.3 | 804 | 2638 | 3,40 | 52.5 | 840 | 2756 |
| 11,0 | 170 | Lapua | LockBase | 73,0 | 2.874 | N140 | 2,82 | 43.5 | 773 | 2536 | 3,04 | 46.9 | 834 | 2736 |
| | | | | | | N540 | 2,92 | 45.1 | 783 | 2569 | 3,18 | 49.1 | 856 | 2808 |
| | | | | | | N150 | 3,01 | 46.5 | 785 | 2575 | 3,24 | 50.0 | 846 | 2776 |
| | | | | | | N550 | 3,18 | 49.1 | 787 | 2582 | 3,46 | 53.4 | 862 | 2828 |
| 11,0 | 170 | Lapua | Naturalis | 72,0 | 2.835 | N140 | 2,78 | 42.9 | 755 | 2477 | 3,04 | 46.9 | 823 | 2700 |
| | | | | | | N540 | 2,95 | 45.5 | 774 | 2539 | 3,21 | 49.5 | 846 | 2776 |
| | | | | | | N150 | 2,89 | 44.6 | 767 | 2516 | 3,14 | 48.5 | 832 | 2730 |
| 11,0 | 170 | Lapua | Naturalis N558 | 72,0 | 2.835 | N140 | 2,80 | 43.2 | 744 | 2441 | 3,05 | 47.1 | 817 | 2680 |
| | | | | | | N540 | 2,87 | 44.3 | 765 | 2510 | 3,15 | 48.6 | 844 | 2769 |
| | | | | | | N150 | 2,83 | 43.7 | 750 | 2461 | 3,09 | 47.7 | 817 | 2680 |
| 12,0 | 185 | Lapua | D46 | 76,8 | 3.024 | N140 | 2,87 | 44.3 | 737 | 2418 | 3,10 | 47.8 | 805 | 2641 |
| | | | | | | N540 | 2,98 | 46.0 | 748 | 2454 | 3,23 | 49.8 | 823 | 2700 |
| | | | | | | N150 | 2,93 | 45.2 | 740 | 2428 | 3,16 | 48.8 | 806 | 2644 |
| | | | | | | N560 | 3,14 | 48.5 | 754 | 2474 | 3,38 | 52.2 | 830 | 2723 |
| 12,0 | 185 | Lapua | Mega | 70,0 | 2.756 | N140 | 2,80 | 43.2 | 708 | 2324 | 3,12 | 48.1 | 788 | 2585 |
| | | | | | | N540 | 2,87 | 44.4 | 720 | 2363 | 3,17 | 48.9 | 799 | 2621 |
| | | | | | | N150 | 2,92 | 45.1 | 718 | 2355 | 3,20 | 49.4 | 792 | 2598 |
| | | | | | | N550 | 3,13 | 48.3 | 746 | 2446 | 3,47 | 53.5 | 835 | 2740 |

| 7,62 x 53R (7,62 Russian) | | | | | | cont. | | | | | | | | |
|---------------------------|-------|--------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 12,0 | 185 | Lapua | Scenar | 75,0 | 2.953 | N135 | 2,74 | 42.2 | 727 | 2384 | 2,98 | 46.0 | 795 | 2609 |
| | | | | | | N140 | 2,87 | 44.3 | 741 | 2429 | 3,03A | 46.8A | 787 | 2581 |
| | | | | | | N540 | 2,84 | 43.9 | 741 | 2431 | 3,14 | 48.5 | 818 | 2684 |
| | | | | | | N150 | 2,98 | 45.9 | 742 | 2434 | 3,24 | 50.0 | 815 | 2674 |
| | | | | | | N550 | 3,03 | 46.7 | 747 | 2452 | 3,41 | 52.6 | 847 | 2779 |
| 13,0 | 200 | Lapua | D166 | 76,0 | 2.992 | N140 | 2,36 | 36.4 | 635 | 2083 | 2,59A | 40.0A | 709 | 2326 |
| | | | | | | N540 | 2,47 | 38.1 | 656 | 2152 | 2,69 | 41.5 | 720 | 2362 |
| | | | | | | N150 | 2,36 | 36.4 | 641 | 2103 | 2,64 | 40.7 | 711 | 2333 |
| 13,0 | 200 | Sierra | HPBT | 77,1 | 3.035 | N140 | 2,72 | 42.0 | 698 | 2292 | 3,07 | 47.4 | 779 | 2556 |
| | | | | | | N540 | 2,75 | 42.4 | 703 | 2306 | 3,06 | 47.2 | 779 | 2556 |
| | | | | | | N150 | 2,83 | 43.6 | 706 | 2316 | 3,14 | 48.5 | 781 | 2562 |
| | | | | | | N550 | 3,04 | 46.8 | 728 | 2389 | 3,34 | 51.5 | 807 | 2648 |
| 14,3 | 220 | Sierra | HPBT | 77,1 | 3.035 | N540 | 2,63 | 40.6 | 656 | 2151 | 2,87 | 44.3 | 728 | 2388 |
| | | | | | | N150 | 2,61 | 40.3 | 639 | 2095 | 2,96 | 45.7 | 728 | 2388 |
| | | | | | | N550 | 2,84 | 43.9 | 675 | 2215 | 3,12 | 48.1 | 753 | 2470 |

| | | | | | | | | | | | | | |
|---------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 7,5 x 55 Swiss GP31 | | | | | | Test barrel: 600 mm (23½"), 1 in 10" twist | | | | | | | |
| | | | | | | Primers: Large Rifle | | | | | | | |
| | | | | | | Cases: Norma, trim-to length 55,40 mm (2.181") | | | | | | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|-------|-------------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 10,0 | 155 | Lapua | Scenar / Scenar-L | 75,5 | 2.972 | N140 | 3,00 | 46.3 | 759 | 2490 | 3,18 | 49.1 | 811 | 2661 |
| | | | | | | N540 | 3,05 | 47.1 | 766 | 2513 | 3,25 | 50.1 | 842 | 2762 |
| | | | | | | N150 | 3,03 | 46.8 | 763 | 2503 | 3,22 | 49.7 | 815 | 2674 |
| 10,8 | 167 | Lapua | Scenar | 75,5 | 2.972 | N140 | 2,78 | 42.9 | 700 | 2297 | 2,96 | 45.7 | 760 | 2493 |
| | | | | | | N540 | 2,65 | 40.9 | 700 | 2297 | 3,07 | 47.4 | 771 | 2530 |
| | | | | | | N150 | 2,78 | 42.9 | 703 | 2306 | 3,08 | 47.5 | 761 | 2497 |
| 12,0 | 185 | Lapua | Scenar | 75,5 | 2.972 | N140 | 2,45 | 37.8 | 694 | 2277 | 2,71 | 41.8 | 710 | 2329 |
| | | | | | | N540 | 2,74 | 42.3 | 688 | 2257 | 2,87 | 44.3 | 722 | 2369 |
| | | | | | | N150 | 2,85 | 44.0 | 697 | 2287 | 2,93 | 45.2 | 723 | 2372 |

| | | | | | | | | | | | | | |
|--------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| .30-06 Springfield | | | | | | Test barrel: 620 mm (24½"), 1 in 10" twist | | | | | | | |
| | | | | | | Primers: Large Rifle | | | | | | | |
| | | | | | | Cases: Lapua, trim-to length 63,10 mm (2.484") | | | | | | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|---------|-------------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 3,7 | 57 | Lapua | ALS ¹⁾ | 79,0 | 3.110 | N110 | 2,02 | 31.1 | 1075 | 3527 | 2,49 | 38.4 | 1217 | 3994 |
| 6,5 | 100 | Lapua | HP / OTCE | 79,8 | 3.142 | N130 | 2,58 | 39.8 | 869 | 2851 | 3,15 | 48.6 | 998 | 3274 |
| | | | | | | N133 | 3,07 | 47.4 | 911 | 2989 | 3,49 | 53.9 | 1016 | 3333 |
| | | | | | | N135 | 3,25 | 50.1 | 927 | 3041 | 3,66 | 56.5 | 1033 | 3389 |
| | | | | | | N140 | 3,50 | 54.0 | 926 | 3038 | 3,96 | 61.1 | 1044 | 3425 |
| | | | | | | N540 | 3,59 | 55.4 | 939 | 3081 | 4,08 | 63.0 | 1058 | 3471 |
| 7,1 | 110 | Hornady | RN | 74,0 | 2.913 | N133 | 3,15 | 48.6 | 873 | 2864 | 3,48 | 53.7 | 983 | 3225 |
| | | | | | | N135 | 3,14 | 48.5 | 864 | 2835 | 3,47 | 53.5 | 964 | 3163 |
| | | | | | | N140 | 3,38 | 52.2 | 881 | 2890 | 3,74 | 57.7 | 977 | 3205 |
| | | | | | | N150 | 3,57 | 55.1 | 905 | 2969 | 3,94 | 60.8 | 1002 | 3287 |
| 8,0 | 123 | Lapua | FMJ | 79,8 | 3.142 | N130 | 2,61 | 40.3 | 838 | 2749 | 3,01 | 46.4 | 934 | 3064 |
| | | | | | | N133 | 2,95 | 45.5 | 825 | 2707 | 3,31 | 51.1 | 922 | 3025 |

| .30-06 Springfield | | | | | | cont. | | | | | | | | |
|--------------------|-------|-----------|-------------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N135 | 3,19 | 49.2 | 852 | 2795 | 3,48 | 53.7 | 937 | 3074 |
| | | | | | | N140 | 3,35 | 51.7 | 853 | 2799 | 3,73 | 57.6 | 952 | 3123 |
| | | | | | | N540 | 3,49 | 53.9 | 863 | 2831 | 3,83 | 59.1 | 958 | 3143 |
| | | | | | | N150 | 3,59 | 55.4 | 880 | 2887 | 3,91 | 60.3 | 976 | 3202 |
| 8,1 | 125 | Nosler | Ballistic Tip | 84,0 | 3.307 | N135 | 3,10 | 47.8 | 865 | 2838 | 3,40 | 52.5 | 935 | 3068 |
| | | | | | | N140 | 3,31 | 51.1 | 878 | 2881 | 3,64 | 56.2 | 958 | 3143 |
| | | | | | | N540 | 3,49 | 53.9 | 880 | 2887 | 3,91 | 60.3 | 994 | 3261 |
| | | | | | | N150 | 3,34 | 51.5 | 882 | 2894 | 3,81 | 58.8 | 966 | 3169 |
| | | | | | | N550 | 3,70 | 57.1 | 895 | 2936 | 3,91 | 60.3 | 950 | 3117 |
| 8,5 | 130 | Barnes | TSX BT | 83,3 | 3.280 | N530 | 3,03 | 46.8 | 860 | 2822 | 3,34 | 51.5 | 935 | 3068 |
| | | | | | | N140 | 3,20 | 49.4 | 864 | 2835 | 3,47 | 53.6 | 936 | 3071 |
| | | | | | | N540 | 3,33 | 51.4 | 883 | 2897 | 3,62 | 55.9 | 960 | 3150 |
| | | | | | | N150 | 3,25 | 50.2 | 868 | 2848 | 3,55 | 54.8 | 938 | 3077 |
| | | | | | | N550 | 3,54 | 54.6 | 882 | 2894 | 3,89 | 60.0 | 967 | 3173 |
| 9,7 | 150 | Barnes | TTSX BT | 84,8 | 3.339 | N150 | 2,94 | 45.4 | 780 | 2559 | 3,21 | 49.5 | 851 | 2792 |
| | | | | | | N550 | 3,20 | 49.4 | 799 | 2621 | 3,52 | 54.3 | 880 | 2887 |
| | | | | | | N555 | 3,60 | 55.6 | 836 | 2743 | 3,96F | 61.1F | 909 | 2982 |
| | | | | | | N160 | 3,68 | 56.8 | 819 | 2687 | 4,00F | 61.7F | 892 | 2927 |
| 9,7 | 150 | Hornady | SST | 82,6 | 3.252 | N530 | 2,82 | 43.5 | 808 | 2651 | 3,10 | 47.8 | 874 | 2867 |
| | | | | | | N140 | 3,05 | 47.1 | 824 | 2703 | 3,27 | 50.5 | 882 | 2894 |
| | | | | | | N540 | 3,15 | 48.6 | 839 | 2753 | 3,39 | 52.3 | 906 | 2972 |
| | | | | | | N150 | 3,08 | 47.5 | 828 | 2717 | 3,33 | 51.4 | 891 | 2923 |
| | | | | | | N550 | 3,36 | 51.9 | 838 | 2749 | 3,58 | 55.2 | 903 | 2963 |
| | | | | | | N160 | 3,66 | 56.5 | 854 | 2802 | 3,92 | 60.5 | 918 | 3012 |
| 9,7 | 150 | Lapua | LockBase | 84,0 | 3.307 | N135 | 2,93 | 45.2 | 789 | 2589 | 3,23 | 49.8 | 851 | 2792 |
| | | | | | | N140 | 3,13 | 48.3 | 802 | 2631 | 3,45 | 53.2 | 872 | 2861 |
| | | | | | | N540 | 3,16 | 48.8 | 792 | 2598 | 3,54 | 54.6 | 882 | 2894 |
| | | | | | | N150 | 3,25 | 50.1 | 803 | 2635 | 3,58 | 55.2 | 877 | 2877 |
| | | | | | | N550 | 3,51 | 54.2 | 819 | 2687 | 3,87 | 59.7 | 917 | 3009 |
| 9,7 | 150 | Lapua | Mega | 76,9 | 3.028 | N135 | 2,60 | 40.1 | 711 | 2333 | 3,09 | 47.7 | 835 | 2740 |
| | | | | | | N140 | 2,83 | 43.7 | 732 | 2402 | 3,32 | 51.2 | 857 | 2812 |
| | | | | | | N540 | 2,94 | 45.4 | 742 | 2434 | 3,47 | 53.5 | 893 | 2930 |
| | | | | | | N150 | 2,86 | 44.1 | 777 | 2549 | 3,22 | 49.7 | 858 | 2815 |
| | | | | | | N550 | 3,12 | 48.1 | 801 | 2628 | 3,48 | 53.7 | 886 | 2907 |
| 9,7 | 150 | LOS | HT | 83,0 | 3.268 | N540 | 3,21 | 49.5 | 864 | 2835 | 3,50 | 54.0 | 940 | 3084 |
| | | | | | | N150 | 3,21 | 49.5 | 853 | 2799 | 3,49 | 53.9 | 922 | 3025 |
| | | | | | | N550 | 3,40 | 52.5 | 866 | 2841 | 3,80 | 58.6 | 952 | 3123 |
| 9,7 | 150 | Norma | FMJ | 82,0 | 3.228 | N540 | 3,10 | 47.8 | 826 | 2710 | 3,42 | 52.8 | 904 | 2966 |
| | | | | | | N150 | 3,10 | 47.8 | 822 | 2697 | 3,36 | 51.9 | 884 | 2900 |
| | | | | | | N550 | 3,35 | 51.7 | 834 | 2736 | 3,59 | 55.4 | 904 | 2966 |
| | | | | | | N555 | 3,70 | 57.1 | 863 | 2831 | 3,95F | 61.0F | 918 | 3012 |
| | | | | | | N160 | 3,65 | 56.3 | 810 | 2657 | 3,90F | 60.2F | 870 | 2854 |
| 9,7 | 150 | Red Moose | TARVAS | 82,9 | 3.264 | N140 | 3,27 | 50.5 | 838 | 2749 | 3,48 | 53.7 | 897 | 2943 |
| | | | | | | N540 | 3,40 | 52.5 | 855 | 2805 | 3,62 | 55.9 | 925 | 3035 |
| | | | | | | N150 | 3,30 | 50.9 | 832 | 2730 | 3,54 | 54.6 | 896 | 2940 |
| | | | | | | N550 | 3,60 | 55.6 | 867 | 2844 | 3,83 | 59.1 | 930 | 3051 |
| 9,7 | 150 | Sierra | HPBT | 84,0 | 3.307 | N140 | 3,08 | 47.5 | 798 | 2618 | 3,42 | 52.8 | 871 | 2858 |
| | | | | | | N540 | 3,27 | 50.5 | 809 | 2654 | 3,64 | 56.2 | 906 | 2972 |
| | | | | | | N150 | 3,29 | 50.8 | 807 | 2648 | 3,65 | 56.3 | 895 | 2936 |
| | | | | | | N550 | 3,54 | 54.6 | 833 | 2733 | 3,87 | 59.7 | 916 | 3005 |
| 10,0 | 155 | Brenneke | TAG | 81,8 | 3.220 | N150 | 2,89 | 44.6 | 760 | 2493 | 3,25 | 50.2 | 842 | 2762 |
| | | | | | | N550 | 3,28 | 50.6 | 796 | 2612 | 3,52 | 54.3 | 868 | 2848 |
| | | | | | | N160 | 3,43 | 52.9 | 784 | 2572 | 3,75C | 57.9C | 844 | 2769 |
| 10,0 | 155 | Lapua | Scenar / Scenar-L | 84,0 | 3.307 | N140 | 2,78 | 42.9 | 755 | 2477 | 3,23 | 49.8 | 850 | 2789 |

| .30-06 Springfield | | | | | | cont. | | | | | | | | |
|--------------------|-------|-----------|--------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N540 | 3,05 | 47.1 | 774 | 2539 | 3,45 | 53.3 | 886 | 2907 |
| | | | | | | N150 | 2,79 | 43.0 | 767 | 2516 | 3,30 | 50.9 | 863 | 2831 |
| | | | | | | N550 | 3,19 | 49.2 | 811 | 2661 | 3,48 | 53.7 | 899 | 2949 |
| | | | | | | N160 | 3,45 | 53.2 | 817 | 2680 | 3,77 | 58.2 | 902 | 2959 |
| 10,0 | 155 | Sierra | HPBT Palma | 84,8 | 3.339 | N140 | 3,10 | 47.8 | 821 | 2694 | 3,34 | 51.5 | 876 | 2874 |
| | | | | | | N540 | 3,16 | 48.8 | 829 | 2720 | 3,41 | 52.6 | 898 | 2946 |
| | | | | | | N150 | 3,12 | 48.1 | 821 | 2694 | 3,33 | 51.4 | 879 | 2884 |
| | | | | | | N550 | 3,45 | 53.2 | 843 | 2766 | 3,64 | 56.2 | 902 | 2959 |
| | | | | | | N160 | 3,67 | 56.6 | 845 | 2772 | 3,90F | 60.2F | 896 | 2940 |
| 10,1 | 156 | Sako | SPBT | 80,5 | 3.169 | N135 | 2,97 | 45.8 | 776 | 2546 | 3,29 | 50.8 | 851 | 2792 |
| | | | | | | N140 | 3,10 | 47.8 | 775 | 2543 | 3,42 | 52.8 | 859 | 2818 |
| | | | | | | N150 | 3,18 | 49.1 | 781 | 2562 | 3,53 | 54.5 | 863 | 2831 |
| 10,7 | 165 | Brenneke | TOG | 81,0 | 3.189 | N150 | 2,50 | 38.6 | 682 | 2238 | 2,90 | 44.8 | 764 | 2507 |
| | | | | | | N550 | 2,96 | 45.7 | 738 | 2421 | 3,33 | 51.4 | 816 | 2677 |
| | | | | | | N160 | 2,90 | 44.8 | 708 | 2323 | 3,53 | 54.5 | 810 | 2657 |
| 10,7 | 165 | Hornady | GMX | 83,5 | 3.287 | N550 | 2,93 | 45.2 | 747 | 2451 | 3,13 | 48.3 | 812 | 2664 |
| | | | | | | N555 | 3,19 | 49.2 | 769 | 2523 | 3,49 | 53.9 | 831 | 2726 |
| | | | | | | N160 | 3,04 | 46.9 | 740 | 2428 | 3,46 | 53.4 | 824 | 2703 |
| | | | | | | N560 | 3,36 | 51.9 | 742 | 2434 | 3,61 | 55.7 | 816 | 2677 |
| 10,7 | 165 | Red Moose | TARVAS | 82,8 | 3.260 | N540 | 3,27 | 50.5 | 811 | 2661 | 3,48 | 53.7 | 877 | 2877 |
| | | | | | | N150 | 3,13 | 48.3 | 782 | 2566 | 3,36 | 51.9 | 841 | 2759 |
| | | | | | | N550 | 3,42 | 52.8 | 814 | 2671 | 3,65 | 56.3 | 876 | 2874 |
| | | | | | | N555 | 3,77 | 58.2 | 837 | 2746 | 4,05C | 62.5C | 883 | 2897 |
| | | | | | | N160 | 3,81 | 58.8 | 819 | 2687 | 4,10C | 63.3C | 882 | 2894 |
| 10,7 | 165 | Sierra | SBT | 84,3 | 3.319 | N540 | 3,12 | 48.1 | 804 | 2638 | 3,39 | 52.3 | 868 | 2848 |
| | | | | | | N150 | 2,96 | 45.7 | 770 | 2526 | 3,26 | 50.3 | 833 | 2733 |
| | | | | | | N550 | 3,27 | 50.5 | 808 | 2651 | 3,54 | 54.6 | 873 | 2864 |
| | | | | | | N555 | 3,67 | 56.6 | 831 | 2726 | 3,90C | 60.2C | 879 | 2884 |
| | | | | | | N160 | 3,60 | 55.6 | 808 | 2651 | 3,95F | 61.0F | 874 | 2867 |
| 10,7 | 165 | Swift | Scirocco II | 84,0 | 3.307 | N540 | 2,98 | 46.0 | 768 | 2520 | 3,23 | 49.8 | 835 | 2740 |
| | | | | | | N150 | 2,80 | 43.2 | 751 | 2464 | 3,12 | 48.1 | 813 | 2667 |
| | | | | | | N550 | 3,21 | 49.5 | 782 | 2566 | 3,46 | 53.4 | 848 | 2782 |
| | | | | | | N555 | 3,34 | 51.5 | 788 | 2585 | 3,73 | 57.6 | 862 | 2828 |
| | | | | | | N160 | 3,41 | 52.6 | 788 | 2585 | 3,67 | 56.6 | 849 | 2785 |
| | | | | | | N560 | 3,62 | 55.9 | 778 | 2552 | 3,95 | 61.0 | 852 | 2795 |
| 10,9 | 167 | Lapua | Scenar | 84,0 | 3.307 | N135 | 2,75 | 42.4 | 746 | 2449 | 3,02 | 46.6 | 808 | 2651 |
| | | | | | | N140 | 2,95 | 45.5 | 737 | 2418 | 3,25A | 50.1A | 812 | 2664 |
| | | | | | | N540 | 2,94 | 45.4 | 737 | 2418 | 3,37 | 52.0 | 836 | 2743 |
| | | | | | | N150 | 3,06 | 47.2 | 748 | 2454 | 3,38 | 52.2 | 821 | 2694 |
| | | | | | | N550 | 3,22 | 49.7 | 779 | 2556 | 3,57 | 55.1 | 855 | 2805 |
| | | | | | | N160 | 3,60 | 55.5 | 749 | 2457 | 4,00 | 61.7 | 842 | 2762 |
| 10,9 | 168 | Barnes | TSX | 81,7 | 3.217 | N540 | 2,73 | 42.1 | 735 | 2411 | 3,09 | 47.7 | 824 | 2703 |
| | | | | | | N550 | 2,96 | 45.7 | 735 | 2411 | 3,26 | 50.3 | 825 | 2707 |
| | | | | | | N160 | 3,25 | 50.2 | 745 | 2444 | 3,65 | 56.3 | 833 | 2733 |
| 10,9 | 168 | Sierra | TMK | 84,0 | 3.307 | N140 | 2,89 | 44.6 | 762 | 2500 | 3,16 | 48.8 | 832 | 2730 |
| | | | | | | N540 | 2,98 | 46.0 | 790 | 2592 | 3,24 | 50.0 | 864 | 2835 |
| | | | | | | N150 | 2,95 | 45.5 | 774 | 2539 | 3,22 | 49.7 | 845 | 2772 |
| | | | | | | N550 | 3,17 | 48.9 | 800 | 2625 | 3,46 | 53.4 | 876 | 2874 |
| 11,0 | 170 | Lapua | LockBase | 84,0 | 3.307 | N140 | 2,91 | 44.9 | 717 | 2352 | 3,24 | 50.0 | 799 | 2621 |
| | | | | | | N540 | 2,96 | 45.7 | 729 | 2392 | 3,34 | 51.5 | 821 | 2694 |
| | | | | | | N150 | 3,06 | 47.2 | 735 | 2411 | 3,41 | 52.6 | 815 | 2674 |
| | | | | | | N550 | 3,17 | 48.9 | 746 | 2448 | 3,61 | 55.7 | 842 | 2762 |
| | | | | | | N160 | 3,65 | 56.3 | 765 | 2510 | 4,05 | 62.5 | 853 | 2799 |
| 11,0 | 170 | Lapua | Naturalis LR | 82,0 | 3.228 | N150 | 2,54 | 39.2 | 753 | 2470 | 3,12 | 48.1 | 822 | 2697 |

| .30-06 Springfield | | | | | | cont. | | | | | | | | |
|--------------------|-------|---------|----------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N550 | 3,16 | 48.8 | 761 | 2497 | 3,42 | 52.8 | 845 | 2772 |
| | | | | | | N160 | 3,39 | 52.3 | 756 | 2480 | 3,74 | 57.7 | 846 | 2776 |
| 11,0 | 170 | Lapua | Naturalis N558 | 82,0 | 3.228 | N540 | 2,85 | 44.0 | 739 | 2425 | 3,15 | 48.6 | 821 | 2694 |
| | | | | | | N150 | 2,62 | 40.4 | 694 | 2277 | 2,99 | 46.1 | 771 | 2530 |
| | | | | | | N550 | 3,01 | 46.5 | 759 | 2490 | 3,33 | 51.4 | 843 | 2766 |
| | | | | | | N555 | 3,43 | 52.9 | 786 | 2579 | 3,68 | 56.8 | 846 | 2776 |
| | | | | | | N160 | 3,38 | 52.2 | 777 | 2549 | 3,73 | 57.6 | 857 | 2812 |
| | | | | | | N560 | 3,47 | 53.6 | 756 | 2480 | 3,91 | 60.3 | 846 | 2776 |
| 11,3 | 175 | Lapua | Scenar-L | 84,6 | 3.331 | N540 | 3,03 | 46.8 | 760 | 2493 | 3,26 | 50.3 | 829 | 2720 |
| | | | | | | N150 | 3,00 | 46.3 | 751 | 2464 | 3,21 | 49.5 | 807 | 2648 |
| | | | | | | N550 | 3,30 | 50.9 | 777 | 2549 | 3,45 | 53.2 | 833 | 2733 |
| | | | | | | N555 | 3,45 | 53.2 | 787 | 2582 | 3,71 | 57.3 | 843 | 2766 |
| | | | | | | N160 | 3,60 | 55.6 | 777 | 2549 | 3,82 | 59.0 | 835 | 2740 |
| | | | | | | N560 | 3,67 | 56.6 | 767 | 2516 | 3,95C | 61.0C | 836 | 2743 |
| 11,6 | 178 | Hornady | ELD-X | 84,8 | 3.339 | N540 | 3,01 | 46.5 | 764 | 2507 | 3,28 | 50.6 | 837 | 2746 |
| | | | | | | N150 | 3,02 | 46.6 | 744 | 2441 | 3,26 | 50.3 | 814 | 2671 |
| | | | | | | N550 | 3,19 | 49.2 | 766 | 2513 | 3,44 | 53.1 | 839 | 2753 |
| | | | | | | N555 | 3,41 | 52.6 | 774 | 2539 | 3,69 | 56.9 | 833 | 2733 |
| | | | | | | N160 | 3,51 | 54.2 | 765 | 2510 | 3,88 | 59.9 | 843 | 2766 |
| 11,7 | 180 | Barnes | TSX | 81,7 | 3.217 | N540 | 2,72 | 42.0 | 713 | 2339 | 2,99 | 46.1 | 783 | 2569 |
| | | | | | | N550 | 2,89 | 44.6 | 710 | 2329 | 3,20 | 49.4 | 788 | 2585 |
| | | | | | | N160 | 3,14 | 48.5 | 712 | 2336 | 3,54 | 54.6 | 792 | 2598 |
| 11,7 | 180 | Berger | Elite Hunter | 84,8 | 3.339 | N540 | 3,05 | 47.1 | 783 | 2569 | 3,31 | 51.1 | 850 | 2789 |
| | | | | | | N150 | 2,99 | 46.1 | 761 | 2497 | 3,26 | 50.3 | 825 | 2707 |
| | | | | | | N550 | 3,28 | 50.6 | 785 | 2575 | 3,52 | 54.3 | 859 | 2818 |
| | | | | | | N555 | 3,48 | 53.7 | 783 | 2569 | 3,75C | 57.9C | 845 | 2772 |
| | | | | | | N160 | 3,54 | 54.6 | 788 | 2585 | 3,91 | 60.3 | 862 | 2828 |
| | | | | | | N560 | 3,71 | 57.3 | 785 | 2575 | 4,08 | 63.0 | 866 | 2841 |
| 11,7 | 180 | Hornady | GMX | 82,9 | 3.264 | N140 | 2,68 | 41.4 | 687 | 2254 | 2,88 | 44.4 | 737 | 2418 |
| | | | | | | N540 | 2,71 | 41.8 | 697 | 2287 | 2,94 | 45.4 | 751 | 2464 |
| | | | | | | N150 | 2,58 | 39.8 | 666 | 2185 | 2,91 | 44.9 | 742 | 2434 |
| | | | | | | N550 | 2,83 | 43.7 | 695 | 2280 | 3,13 | 48.3 | 773 | 2536 |
| | | | | | | N555 | 3,15 | 48.6 | 728 | 2388 | 3,56 | 54.9 | 800 | 2625 |
| | | | | | | N160 | 2,97 | 45.8 | 695 | 2280 | 3,41 | 52.6 | 779 | 2556 |
| | | | | | | N560 | 3,47 | 53.6 | 716 | 2349 | 3,96 | 61.1 | 807 | 2648 |
| 11,7 | 180 | Norma | Oryx | 82,0 | 3.228 | N150 | 2,66 | 41.1 | 719 | 2359 | 2,98 | 46.0 | 779 | 2556 |
| | | | | | | N550 | 2,86 | 44.1 | 732 | 2402 | 3,14 | 48.5 | 796 | 2612 |
| | | | | | | N160 | 3,21 | 49.5 | 748 | 2454 | 3,61 | 55.7 | 819 | 2687 |
| | | | | | | N560 | 3,44 | 53.1 | 748 | 2454 | 3,74 | 57.7 | 816 | 2677 |
| 11,7 | 180 | Sierra | SBT | 84,6 | 3.331 | N540 | 2,94 | 45.4 | 747 | 2451 | 3,19 | 49.2 | 813 | 2667 |
| | | | | | | N150 | 2,86 | 44.1 | 733 | 2405 | 3,19 | 49.2 | 796 | 2612 |
| | | | | | | N550 | 3,12 | 48.1 | 763 | 2503 | 3,38 | 52.2 | 826 | 2710 |
| | | | | | | N555 | 3,50 | 54.0 | 788 | 2585 | 3,85C | 59.4C | 856 | 2808 |
| | | | | | | N160 | 3,54 | 54.6 | 769 | 2523 | 3,82 | 59.0 | 832 | 2730 |
| 12,0 | 185 | Berger | Classic Hunter | 84,6 | 3.331 | N540 | 3,10 | 47.8 | 776 | 2546 | 3,36 | 51.9 | 842 | 2762 |
| | | | | | | N150 | 3,01 | 46.5 | 750 | 2461 | 3,31 | 51.1 | 820 | 2690 |
| | | | | | | N550 | 3,30 | 50.9 | 775 | 2543 | 3,53 | 54.5 | 846 | 2776 |
| | | | | | | N555 | 3,49 | 53.9 | 774 | 2539 | 3,72C | 57.4C | 828 | 2717 |
| | | | | | | N160 | 3,57 | 55.1 | 772 | 2533 | 3,89 | 60.0 | 848 | 2782 |
| | | | | | | N560 | 3,77 | 58.2 | 778 | 2552 | 4,11 | 63.4 | 860 | 2822 |
| 12,0 | 185 | Berger | Hybrid Target | 84,0 | 3.307 | N150 | 2,96 | 45.7 | 746 | 2448 | 3,21 | 49.5 | 813 | 2667 |
| | | | | | | N550 | 3,19 | 49.2 | 773 | 2536 | 3,41 | 52.6 | 840 | 2756 |
| | | | | | | N160 | 3,49 | 53.9 | 767 | 2516 | 3,85 | 59.4 | 842 | 2762 |
| | | | | | | N560 | 3,64 | 56.2 | 765 | 2510 | 3,98 | 61.4 | 850 | 2789 |

| .30-06 Springfield | | | | | | cont. | | | | | | | | |
|--------------------|-------|----------|--------------------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 12,0 | 185 | Brenneke | Basic | 81,0 | 3.189 | N540 | 2,88 | 44.4 | 734 | 2408 | 3,21 | 49.5 | 806 | 2644 |
| | | | | | | N550 | 3,08 | 47.5 | 746 | 2448 | 3,30 | 50.9 | 804 | 2638 |
| | | | | | | N160 | 3,42 | 52.8 | 750 | 2461 | 3,69 | 56.9 | 812 | 2664 |
| 12,0 | 185 | Lapua | Mega | 79,5 | 3.130 | N540 | 2,82 | 43.5 | 728 | 2388 | 3,17 | 48.9 | 811 | 2661 |
| | | | | | | N150 | 2,75 | 42.4 | 692 | 2270 | 3,28 | 50.6 | 791 | 2595 |
| | | | | | | N550 | 3,12 | 46.6 | 728 | 2388 | 3,46 | 53.4 | 812 | 2664 |
| | | | | | | N160 | 3,38 | 52.2 | 739 | 2425 | 3,71 | 57.2 | 815 | 2674 |
| | | | | | | N560 | 3,50 | 54.0 | 737 | 2418 | 3,89 | 60.0 | 826 | 2710 |
| 12,0 | 185 | Lapua | Scenar | 84,0 | 3.307 | N540 | 2,86 | 44.1 | 688 | 2257 | 3,16 | 48.8 | 771 | 2530 |
| | | | | | | N150 | 2,88 | 44.4 | 696 | 2283 | 3,26A | 50.3A | 778 | 2552 |
| | | | | | | N550 | 3,02 | 46.6 | 701 | 2300 | 3,36 | 51.8 | 792 | 2598 |
| | | | | | | N160 | 3,48 | 53.7 | 724 | 2375 | 3,85 | 59.4 | 809 | 2654 |
| | | | | | | N560 | 3,52 | 54.3 | 724 | 2375 | 4,01 | 61.9 | 816 | 2677 |
| 12,3 | 190 | Sierra | HPBT | 84,0 | 3.307 | N150 | 2,90 | 44.7 | 695 | 2280 | 3,20 | 49.4 | 767 | 2516 |
| | | | | | | N550 | 3,07 | 47.4 | 708 | 2323 | 3,49 | 53.9 | 812 | 2664 |
| | | | | | | N160 | 3,42 | 52.8 | 724 | 2375 | 3,81 | 58.8 | 795 | 2608 |
| | | | | | | N560 | 3,57 | 55.1 | 721 | 2365 | 4,04 | 62.3 | 825 | 2707 |
| 13,0 | 200 | Lapua | Mega | 79,5 | 3.130 | N150 | 2,75 | 42.4 | 692 | 2270 | 3,10 | 47.8 | 747 | 2451 |
| | | | | | | N550 | 3,12 | 48.1 | 730 | 2395 | 3,28 | 50.6 | 767 | 2516 |
| | | | | | | N160 | 3,38 | 52.2 | 739 | 2425 | 3,48 | 53.7 | 763 | 2503 |
| 13,0 | 200 | Nosler | Partition | 84,0 | 3.307 | N150 | 2,79 | 43.0 | 669 | 2195 | 3,08 | 47.5 | 724 | 2375 |
| | | | | | | N160 | 3,38 | 52.2 | 704 | 2310 | 3,73 | 57.6 | 765 | 2510 |
| 13,0 | 200 | Swift | A-Frame | 84,0 | 3.307 | N550 | 3,19 | 49.2 | 720 | 2362 | 3,42 | 52.8 | 784 | 2572 |
| | | | | | | N160 | 3,40 | 52.5 | 708 | 2323 | 3,68 | 56.8 | 778 | 2552 |
| | | | | | | N165 | 3,85 | 59.4 | 740 | 2428 | 4,14 | 63.9 | 804 | 2638 |
| 13,3 | 205 | Berger | Elite Hunter | 84,5 | 3.327 | N140 | 2,73 | 42.1 | 684 | 2244 | 2,96 | 45.7 | 741 | 2431 |
| | | | | | | N540 | 2,87 | 44.3 | 708 | 2323 | 3,11 | 48.0 | 766 | 2513 |
| | | | | | | N150 | 2,80 | 43.2 | 687 | 2254 | 3,04 | 46.9 | 742 | 2434 |
| | | | | | | N550 | 3,00 | 46.3 | 714 | 2343 | 3,23 | 49.8 | 772 | 2533 |
| | | | | | | N555 | 3,33 | 51.4 | 733 | 2405 | 3,63 | 56.0 | 794 | 2605 |
| | | | | | | N160 | 3,39 | 52.3 | 722 | 2369 | 3,65 | 56.3 | 780 | 2559 |
| 13,5 | 208 | Berger | Long Range Hybrid Target | 84,8 | 3.339 | N140 | 2,72 | 42.0 | 678 | 2224 | 2,90 | 44.8 | 726 | 2382 |
| | | | | | | N540 | 2,82 | 43.5 | 698 | 2290 | 3,02 | 46.6 | 756 | 2480 |
| | | | | | | N150 | 2,75 | 42.4 | 677 | 2221 | 2,98 | 46.0 | 733 | 2405 |
| | | | | | | N550 | 2,95 | 45.5 | 705 | 2313 | 3,19 | 49.2 | 765 | 2510 |
| | | | | | | N555 | 3,38 | 52.2 | 734 | 2408 | 3,63 | 56.0 | 788 | 2585 |
| | | | | | | N160 | 3,40 | 52.5 | 718 | 2356 | 3,65C | 56.3C | 779 | 2556 |
| 13,5 | 208 | Hornady | A-MAX | 84,2 | 3.315 | N550 | 3,03 | 46.8 | 711 | 2333 | 3,28 | 50.6 | 769 | 2523 |
| | | | | | | N160 | 3,27 | 50.5 | 711 | 2333 | 3,56 | 54.9 | 774 | 2539 |
| | | | | | | N560 | 3,56 | 54.9 | 732 | 2402 | 3,83 | 59.1 | 798 | 2618 |
| | | | | | | N565 | 3,57 | 55.1 | 729 | 2392 | 3,89 | 60.0 | 782 | 2566 |
| 14,0 | 215 | Berger | Hybrid Target | 84,8 | 3.339 | N550 | 3,04 | 46.9 | 704 | 2310 | 3,28 | 50.6 | 768 | 2520 |
| | | | | | | N555 | 3,25 | 50.2 | 705 | 2313 | 3,53 | 54.5 | 761 | 2497 |
| | | | | | | N165 | 3,76 | 58.0 | 727 | 2385 | 3,95 | 61.0 | 774 | 2539 |
| | | | | | | N560 | 3,55 | 54.8 | 719 | 2359 | 3,94 | 60.8 | 800 | 2625 |
| 14,3 | 220 | Berger | Long Range Hybrid Target | 84,8 | 3.339 | N150 | 2,68 | 41.4 | 652 | 2139 | 2,89 | 44.6 | 702 | 2303 |
| | | | | | | N550 | 2,87 | 44.3 | 679 | 2228 | 3,13 | 48.3 | 740 | 2428 |
| | | | | | | N555 | 3,32 | 51.2 | 711 | 2333 | 3,58C | 55.2C | 767 | 2516 |
| | | | | | | N160 | 3,30 | 50.9 | 693 | 2274 | 3,53 | 54.5 | 750 | 2461 |
| 14,3 | 220 | Hornady | RN | 84,0 | 3.307 | N160 | 3,29 | 50.8 | 654 | 2146 | 3,63 | 56.0 | 722 | 2369 |
| | | | | | | N560 | 3,47 | 53.5 | 672 | 2205 | 3,97 | 61.3 | 767 | 2516 |
| 14,3 | 220 | Lapua | Scenar-L | 84,8 | 3.339 | N150 | 2,71 | 41.8 | 645 | 2116 | 2,96 | 45.7 | 701 | 2300 |
| | | | | | | N550 | 3,00 | 46.3 | 679 | 2228 | 3,18 | 49.1 | 735 | 2411 |
| | | | | | | N555 | 3,15 | 48.6 | 686 | 2251 | 3,42 | 52.8 | 741 | 2431 |

| .30-06 Springfield | | | | | | cont. | | | | | | | | |
|--|-------|-----------|-------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N160 | 3,20 | 49.4 | 674 | 2211 | 3,54 | 54.6 | 734 | 2408 |
| | | | | | | N165 | 3,60 | 55.6 | 700 | 2297 | 3,89C | 60.0C | 760 | 2493 |
| | | | | | | N560 | 3,42 | 52.8 | 684 | 2244 | 3,71C | 57.3C | 751 | 2464 |
| 14,3 | 220 | Rhino | Solid Shank | 81,6 | 3.213 | N150 | 2,66 | 41.1 | 632 | 2073 | 2,93 | 45.2 | 686 | 2251 |
| | | | | | | N550 | 2,98 | 46.0 | 665 | 2182 | 3,15 | 48.6 | 713 | 2339 |
| | | | | | | N160 | 3,20 | 49.4 | 672 | 2205 | 3,45 | 53.2 | 725 | 2379 |
| | | | | | | N560 | 3,48 | 53.7 | 680 | 2231 | 3,88C | 59.9C | 752 | 2467 |
| | | | | | | N565 | 3,75 | 57.9 | 697 | 2287 | 3,99C | 61.6C | 750 | 2461 |
| 15,6 | 240 | Woodleigh | Weldcore | 84,0 | 3.307 | N165 | 3,45 | 53.2 | 658 | 2159 | 3,90 | 60.2 | 729 | 2392 |
| | | | | | | N560 | 3,31 | 51.1 | 647 | 2123 | 3,67 | 56.6 | 726 | 2382 |
| | | | | | | N565 | 3,48 | 53.7 | 667 | 2188 | 3,87 | 59.7 | 732 | 2402 |
| A = Accuracy load C = Compressed load F = Case full ¹⁾ A muzzle velocity exceeding 1000 m/s (3300 fps) may lead to severe barrel fouling! | | | | | | | | | | | | | | |

| | | |
|--------------------------------|--------------|--|
| <div>.300 H&H Magnum</div> | Test barrel: | 610 mm (24"), 1 in 10" twist |
| | Primers: | Large Rifle Magnum |
| | Cases: | Winchester, trim-to length 72,20 mm (2.842") |
| | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|--------|-------------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 10,0 | 155 | Lapua | Scenar / Scenar-L | 91,4 | 3.598 | N150 | 3,76 | 58.0 | 888 | 2913 | 3,97 | 61.3 | 935 | 3068 |
| | | | | | | N550 | 3,98 | 61.4 | 914 | 2999 | 4,26 | 65.8 | 971 | 3187 |
| | | | | | | N160 | 4,28 | 66.0 | 909 | 2982 | 4,57 | 70.5 | 967 | 3174 |
| 12,0 | 185 | Lapua | Scenar | 91,4 | 3.598 | N160 | 3,95 | 60.9 | 820 | 2690 | 4,21 | 64.9 | 872 | 2862 |
| | | | | | | N165 | 4,35 | 67.1 | 843 | 2766 | 4,62 | 71.4 | 895 | 2937 |
| | | | | | | N560 | 4,31 | 66.5 | 851 | 2792 | 4,59 | 70.9 | 908 | 2978 |
| 13,0 | 200 | Sierra | HPBT | 91,4 | 3.598 | N160 | 3,87 | 59.7 | 792 | 2598 | 4,04 | 62.4 | 829 | 2719 |
| | | | | | | N165 | 4,24 | 65.4 | 813 | 2667 | 4,45 | 68.6 | 853 | 2799 |
| | | | | | | N560 | 4,21 | 65.0 | 821 | 2694 | 4,42 | 68.1 | 864 | 2834 |

| | | |
|---------------------|--------------|--|
| <div>.300 WSM</div> | Test barrel: | 620 mm (24½"), 1 in 10" twist |
| | Primers: | Large Rifle Magnum |
| | Cases: | Winchester, trim-to length 53,10 mm (2.091") |
| | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|-------|-------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 6,5 | 100 | Lapua | HPCE / OTCE | 67,0 | 2.638 | N540 | 3,91 | 60.3 | 1042 | 3419 | 4,29 | 66.2 | 1146 | 3760 |
| | | | | | | N150 | 3,85 | 59.4 | 1026 | 3366 | 4,21 | 65.0 | 1107 | 3632 |
| | | | | | | N550 | 4,14 | 63.9 | 1027 | 3369 | 4,55 | 70.2 | 1079 | 3540 |
| 8,0 | 123 | Lapua | FMJ | 68,8 | 2.709 | N150 | 3,82 | 59.0 | 963 | 3159 | 4,10 | 63.3 | 1032 | 3386 |
| | | | | | | N550 | 4,06 | 62.7 | 950 | 3117 | 4,39 | 67.7 | 1057 | 3468 |
| | | | | | | N160 | 4,28 | 66.1 | 953 | 3127 | 4,70 | 72.5 | 1045 | 3428 |
| 9,7 | 150 | Lapua | LockBase | 72,0 | 2.835 | N550 | 3,74 | 57.7 | 882 | 2894 | 4,15 | 64.0 | 979 | 3212 |
| | | | | | | N160 | 3,89 | 60.0 | 878 | 2881 | 4,50 | 69.4 | 978 | 3209 |
| | | | | | | N560 | 4,36 | 67.3 | 886 | 2907 | 4,81 | 74.2 | 989 | 3245 |
| 9,7 | 150 | Lapua | Mega | 66,5 | 2.618 | N550 | 3,51 | 54.2 | 860 | 2822 | 4,00 | 61.7 | 956 | 3136 |
| | | | | | | N160 | 3,75 | 57.9 | 849 | 2785 | 4,34 | 67.0 | 951 | 3120 |
| | | | | | | N560 | 4,14 | 63.9 | 862 | 2828 | 4,60 | 71.0 | 969 | 3179 |
| 10,7 | 165 | Swift | Scirocco | 73,5 | 2.894 | N550 | 3,77 | 58.2 | 862 | 2828 | 4,16 | 64.2 | 957 | 3140 |
| | | | | | | N160 | 3,87 | 59.7 | 842 | 2762 | 4,33 | 66.8 | 937 | 3074 |
| | | | | | | N165 | 4,32 | 66.7 | 868 | 2848 | 4,74 | 73.1 | 962 | 3156 |
| | | | | | | N560 | 4,23 | 65.3 | 858 | 2815 | 4,63 | 71.5 | 959 | 3146 |
| 10,9 | 167 | Lapua | Scenar | 72,1 | 2.839 | N550 | 3,56 | 54.9 | 832 | 2730 | 3,97 | 61.3 | 922 | 3025 |

LIGHT GREY TEXT BOX INDICATES MAXIMUM LOAD - USE WITH CAUTION!
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED

| .300 WSM | | | | | | cont. | | | | | | | | |
|----------|-------|-------|----------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N160 | 3,49 | 53.9 | 792 | 2598 | 4,15 | 64.0 | 908 | 2979 |
| | | | | | | N560 | 4,03 | 62.2 | 833 | 2733 | 4,48 | 69.1 | 931 | 3054 |
| 11,0 | 170 | Lapua | Naturalis | 72,1 | 2.839 | N160 | 3,38 | 52.2 | 790 | 2592 | 4,01 | 61.9 | 889 | 2917 |
| | | | | | | N165 | 3,90 | 60.2 | 821 | 2694 | 4,45 | 68.7 | 908 | 2979 |
| | | | | | | N560 | 3,95 | 61.0 | 814 | 2671 | 4,40 | 67.9 | 916 | 3005 |
| 11,0 | 170 | Lapua | Naturalis N558 | 66,5 | 2.618 | N160 | 3,51 | 54.2 | 790 | 2592 | 4,12 | 63.6 | 891 | 2923 |
| | | | | | | N165 | 3,96 | 61.1 | 817 | 2680 | 4,50 | 69.4 | 901 | 2956 |
| | | | | | | N560 | 3,92 | 60.5 | 811 | 2661 | 4,40 | 67.9 | 913 | 2995 |
| 12,0 | 185 | Lapua | Mega | 69,9 | 2.752 | N550 | 3,41 | 52.6 | 784 | 2572 | 3,83 | 59.1 | 867 | 2844 |
| | | | | | | N160 | 3,35 | 51.7 | 752 | 2467 | 3,92 | 60.5 | 851 | 2792 |
| | | | | | | N560 | 3,95 | 61.0 | 801 | 2628 | 4,33 | 66.8 | 881 | 2890 |
| 12,0 | 185 | Lapua | Scenar | 77,0 | 3.031 | N160 | 3,83 | 59.1 | 799 | 2621 | 4,22 | 65.1 | 882 | 2894 |
| | | | | | | N165 | 4,18 | 64.5 | 823 | 2700 | 4,62 | 71.3 | 911 | 2989 |
| | | | | | | N560 | 4,11 | 63.4 | 814 | 2671 | 4,50 | 69.4 | 906 | 2972 |
| 13,0 | 200 | Lapua | Mega | 70,0 | 2.756 | N160 | 3,67 | 56.6 | 749 | 2457 | 4,15 | 64.0 | 837 | 2746 |
| | | | | | | N165 | 4,10 | 63.3 | 777 | 2549 | 4,56 | 70.4 | 866 | 2841 |
| | | | | | | N560 | 3,98 | 61.4 | 772 | 2533 | 4,44 | 68.5 | 864 | 2835 |

| | | |
|------------------------------|--------------|---|
| <div>.300 Norma Magnum</div> | Test barrel: | 660 mm (26"), 1 in 10" twist |
| | Primers: | Large Rifle Magnum |
| | Cases: | Lapua, trim-to length 63,30 mm (2.480") |
| | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|--------|----------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 11,0 | 170 | Lapua | Naturalis N558 | 83,5 | 3.287 | N560 | 4,50 | 69.4 | 850 | 2789 | 5,30 | 81.8 | 974 | 3196 |
| | | | | | | N565 | 4,90 | 75.6 | 870 | 2854 | 5,57 | 86.0 | 977 | 3205 |
| | | | | | | N170 | 4,53 | 69.9 | 820 | 2690 | 5,69 | 87.8 | 957 | 3140 |
| | | | | | | N570 | 5,15 | 79.5 | 887 | 2910 | 5,81 | 89.7 | 995 | 3264 |
| 12,0 | 185 | Lapua | Scenar | 86,5 | 3.406 | N560 | 4,72 | 72.8 | 844 | 2769 | 5,35 | 82.6 | 948 | 3110 |
| | | | | | | N565 | 4,91 | 75.8 | 863 | 2831 | 5,51 | 85.0 | 957 | 3140 |
| | | | | | | N170 | 4,98 | 76.9 | 825 | 2707 | 5,75 | 88.7 | 939 | 3081 |
| | | | | | | N570 | 5,16 | 79.6 | 862 | 2828 | 5,75 | 88.7 | 970 | 3182 |
| 13,9 | 215 | Berger | Hybrid Target | 86,5 | 3.406 | N560 | 4,56 | 70.4 | 790 | 2592 | 5,10 | 78.7 | 889 | 2917 |
| | | | | | | N565 | 4,71 | 72.7 | 799 | 2621 | 5,25 | 81.0 | 893 | 2930 |
| | | | | | | N170 | 4,65 | 71.8 | 773 | 2536 | 5,50 | 84.9 | 881 | 2890 |
| | | | | | | N570 | 5,05 | 77.9 | 818 | 2684 | 5,66 | 87.3 | 917 | 3009 |
| 14,3 | 220 | Lapua | Scenar-L | 86,5 | 3.406 | N560 | 4,30 | 66.4 | 762 | 2500 | 4,98 | 76.9 | 866 | 2841 |
| | | | | | | N565 | 4,41 | 68.1 | 769 | 2523 | 5,17 | 79.8 | 874 | 2867 |
| | | | | | | N170 | 4,30 | 66.4 | 780 | 2559 | 5,30 | 81.8 | 856 | 2808 |
| | | | | | | N570 | 4,62 | 71.3 | 780 | 2559 | 5,37 | 82.9 | 887 | 2910 |
| 14,9 | 230 | Berger | Hybrid Target | 86,5 | 3.406 | N560 | 4,35 | 67.1 | 754 | 2474 | 4,92 | 75.9 | 853 | 2799 |
| | | | | | | N565 | 4,53 | 69.9 | 763 | 2503 | 5,11 | 78.9 | 856 | 2808 |
| | | | | | | N570 | 4,60 | 71.0 | 764 | 2507 | 5,41 | 83.5 | 872 | 2861 |

| | | |
|---------------------|--------------|---|
| <div>.300 PRC</div> | Test barrel: | 660 mm (26"), 1 in 8" twist |
| | Primers: | Large Rifle Magnum, Federal 215 |
| | Cases: | Lapua, trim-to length 65,15 mm (2.565") |
| | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|-------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 11,3 | 175 | Lapua | Scenar-L | 90,0 | 3.543 | N165 | 4,67 | 72.1 | 873 | 2864 | 5,07F | 78.2F | 944 | 3097 |
| | | | | | | N565 | 4,73 | 73.0 | 869 | 2851 | 5,18 | 79.9 | 946 | 3104 |

| .300 PRC | | | | | | cont. | | | | | | | | |
|-----------------------------------|-------|---------|--------------------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N170 | 5,05 | 77.9 | 865 | 2838 | 5,45F | 84.1F | 941 | 3087 |
| | | | | | | N568 | 5,25 | 81.0 | 882 | 2894 | 5,60C | 86.4C | 943 | 3094 |
| 11,7 | 180 | Hornady | GMX | 86,5 | 3.406 | N560 | 4,09 | 63.1 | 815 | 2674 | 4,71 | 72.7 | 908 | 2979 |
| 12,0 | 185 | Lapua | OTM Scenar | 86,5 | 3.406 | N550 | 3,91 | 60.3 | 823 | 2700 | 4,31 | 66.5 | 893 | 2930 |
| | | | | | | N555 | 4,20 | 64.8 | 829 | 2720 | 4,58 | 70.7 | 897 | 2943 |
| | | | | | | N160 | 4,21 | 65.0 | 814 | 2671 | 4,64 | 71.6 | 882 | 2894 |
| | | | | | | N165 | 4,68 | 72.2 | 845 | 2772 | 5,04 | 77.8 | 911 | 2989 |
| | | | | | | N560 | 4,59 | 70.8 | 851 | 2792 | 4,88 | 75.3 | 917 | 3009 |
| | | | | | | N565 | 4,81 | 74.2 | 855 | 2805 | 5,14 | 79.3 | 921 | 3022 |
| | | | | | | N170 | 4,95 | 76.4 | 835 | 2740 | 5,40 | 83.3 | 906 | 2972 |
| 12,3 | 190 | Sierra | HPBT | 88,0 | 3.465 | N550 | 3,82 | 59.0 | 812 | 2664 | 4,21 | 65.0 | 878 | 2881 |
| | | | | | | N555 | 4,07 | 62.8 | 813 | 2667 | 4,54 | 70.1 | 886 | 2907 |
| | | | | | | N160 | 3,98 | 61.4 | 792 | 2598 | 4,46 | 68.8 | 863 | 2831 |
| | | | | | | N165 | 4,51 | 69.6 | 828 | 2717 | 4,96 | 76.5 | 890 | 2920 |
| | | | | | | N560 | 4,47 | 69.0 | 830 | 2723 | 4,83 | 74.5 | 904 | 2966 |
| | | | | | | N565 | 4,75 | 73.3 | 848 | 2782 | 5,15 | 79.5 | 915 | 3002 |
| | | | | | | N170 | 4,91 | 75.8 | 825 | 2707 | 5,34 | 82.4 | 898 | 2946 |
| | | | | | | N568 | 5,10 | 78.7 | 832 | 2730 | 5,45C | 84.1C | 896 | 2940 |
| 13,5 | 208 | Berger | Long Range Hybrid Target | 93,5 | 3.681 | N555 | 3,84 | 59.3 | 764 | 2507 | 4,34 | 67.0 | 837 | 2746 |
| | | | | | | N165 | 4,10 | 63.3 | 772 | 2533 | 4,70 | 72.5 | 849 | 2785 |
| | | | | | | N560 | 4,24 | 65.4 | 787 | 2582 | 4,65 | 71.8 | 862 | 2828 |
| | | | | | | N565 | 4,55 | 70.2 | 808 | 2651 | 4,93 | 76.1 | 874 | 2867 |
| | | | | | | N170 | 4,60 | 71.0 | 785 | 2575 | 5,09 | 78.6 | 861 | 2825 |
| | | | | | | N568 | 4,97 | 76.7 | 810 | 2657 | 5,42F | 83.6F | 885 | 2904 |
| | | | | | | N570 | 4,95 | 76.4 | 836 | 2743 | 5,33 | 82.3 | 903 | 2963 |
| 14,3 | 220 | Berger | Long Range Hybrid Target | 93,5 | 3.681 | N555 | 3,76 | 58.0 | 739 | 2425 | 4,31 | 66.5 | 816 | 2677 |
| | | | | | | N160 | 3,74 | 57.7 | 736 | 2415 | 4,10 | 63.3 | 792 | 2598 |
| | | | | | | N165 | 4,09 | 63.1 | 755 | 2477 | 4,65 | 71.8 | 826 | 2710 |
| | | | | | | N560 | 4,16 | 64.2 | 771 | 2530 | 4,59 | 70.8 | 838 | 2749 |
| | | | | | | N565 | 4,45 | 68.7 | 784 | 2572 | 4,87 | 75.2 | 849 | 2785 |
| | | | | | | N170 | 4,52 | 69.8 | 770 | 2526 | 5,02 | 77.5 | 838 | 2749 |
| | | | | | | N568 | 4,89 | 75.5 | 795 | 2608 | 5,32 | 82.1 | 862 | 2828 |
| | | | | | | N570 | 4,82 | 74.4 | 809 | 2654 | 5,22 | 80.6 | 877 | 2877 |
| 14,3 | 220 | Lapua | OTM Scenar-L | 91,5 | 3.602 | N550 | 3,50 | 54.0 | 749 | 2457 | 3,87 | 59.7 | 803 | 2635 |
| | | | | | | N555 | 3,84 | 59.3 | 746 | 2448 | 4,19 | 64.7 | 808 | 2651 |
| | | | | | | N160 | 3,75 | 57.9 | 739 | 2425 | 4,17 | 64.4 | 801 | 2628 |
| | | | | | | N165 | 4,28 | 66.1 | 766 | 2513 | 4,66 | 71.9 | 829 | 2720 |
| | | | | | | N560 | 4,22 | 65.1 | 781 | 2562 | 4,54 | 70.1 | 840 | 2756 |
| | | | | | | N565 | 4,41 | 68.1 | 786 | 2579 | 4,80 | 74.1 | 848 | 2782 |
| | | | | | | N170 | 4,45 | 68.7 | 764 | 2507 | 4,89 | 75.5 | 832 | 2730 |
| | | | | | | N568 | 4,70 | 72.5 | 781 | 2562 | 5,20 | 80.2 | 855 | 2805 |
| | | | | | | N570 | 4,70 | 72.5 | 807 | 2648 | 5,17 | 79.8 | 879 | 2884 |
| 14,6 | 225 | Hornady | ELD-M | 93,4 | 3.677 | N555 | 3,73 | 57.6 | 731 | 2398 | 4,16 | 64.2 | 795 | 2608 |
| | | | | | | N160 | 3,65 | 56.3 | 722 | 2369 | 4,10 | 63.3 | 786 | 2579 |
| | | | | | | N165 | 3,98 | 61.4 | 738 | 2421 | 4,48 | 69.1 | 804 | 2638 |
| | | | | | | N560 | 4,06 | 62.7 | 756 | 2480 | 4,50 | 69.4 | 825 | 2707 |
| | | | | | | N565 | 4,37 | 67.4 | 774 | 2539 | 4,82 | 74.4 | 841 | 2759 |
| | | | | | | N170 | 4,44 | 68.5 | 758 | 2487 | 4,92 | 75.9 | 825 | 2707 |
| | | | | | | N568 | 4,68 | 72.2 | 773 | 2536 | 5,19 | 80.1 | 845 | 2772 |
| | | | | | | N570 | 4,59 | 70.8 | 790 | 2592 | 5,08 | 78.4 | 861 | 2825 |
| C = Compressed load F = Case full | | | | | | | | | | | | | | |

| .300 Winchester Magnum | | | | | | Test barrel: | | 620 mm (24½"), 1 in 10" twist | | | | | | | |
|------------------------|-------|----------|-------------------|--------|-------|---|---------------|---|----------|-------|--------------|-------|----------|-------|--|
| | | | | | | Primers: | | Large Rifle Magnum | | | | | | | |
| | | | | | | Cases: | | Lapua, trim-to length 66,30 mm (2.610") | | | | | | | |
| | | | | | | CAUTION: Loads less than the listed starting loads may cause excessive chamber pressure and must not be used! | | | | | | | | | |
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] | |
| 8,0 | 123 | Lapua | FMJ | 81,9 | 3.224 | N540 | 4,10 | 63.3 | 980 | 3215 | 4,51 | 69.6 | 1060 | 3478 | |
| | | | | | | N150 | 3,84 | 59.3 | 944 | 3097 | 4,37 | 67.4 | 1029 | 3376 | |
| | | | | | | N550 | 4,30 | 66.4 | 975 | 3199 | 4,67 | 72.1 | 1063 | 3488 | |
| | | | | | | N555 | 4,60 | 71.0 | 972 | 3189 | 5,10C | 78.7C | 1071 | 3514 | |
| | | | | | | N160 | 4,50 | 69.4 | 955 | 3133 | 5,07 | 78.2 | 1055 | 3461 | |
| 9,7 | 150 | Lapua | Mega | 79,5 | 3.130 | N550 | 3,90 | 60.2 | 877 | 2877 | 4,29 | 66.2 | 959 | 3146 | |
| | | | | | | N555 | 3,91 | 60.3 | 859 | 2818 | 4,60 | 71.0 | 964 | 3163 | |
| | | | | | | N160 | 3,50 | 54.0 | 829 | 2720 | 4,26 | 65.7 | 929 | 3048 | |
| | | | | | | N165 | 4,30 | 66.4 | 870 | 2854 | 5,12 | 79.0 | 973 | 3192 | |
| | | | | | | N560 | 4,35 | 67.1 | 870 | 2854 | 4,84 | 74.7 | 968 | 3176 | |
| | | | | | | N565 | 4,55 | 70.2 | 883 | 2897 | 5,15 | 79.5 | 976 | 3202 | |
| | | | | | | N170 | 4,90 | 75.6 | 877 | 2877 | 5,25 | 81.0 | 928 | 3045 | |
| 10,0 | 155 | Brenneke | TAG | 83,5 | 3.287 | N550 | 4,07 | 62.8 | 897 | 2943 | 4,44 | 68.5 | 974 | 3196 | |
| | | | | | | N555 | 4,50 | 69.4 | 915 | 3002 | 4,89 | 75.5 | 988 | 3241 | |
| | | | | | | N160 | 4,50 | 69.4 | 897 | 2943 | 4,98 | 76.9 | 978 | 3209 | |
| | | | | | | N165 | 4,99 | 77.0 | 921 | 3022 | 5,40C | 83.3C | 1000 | 3281 | |
| | | | | | | N560 | 4,76 | 73.5 | 907 | 2976 | 5,16 | 79.6 | 989 | 3245 | |
| 10,0 | 155 | Lapua | Scenar / Scenar-L | 84,0 | 3.307 | N150 | 3,50 | 54.0 | 857 | 2812 | 4,02 | 62.0 | 927 | 3041 | |
| | | | | | | N550 | 3,90 | 60.2 | 873 | 2864 | 4,33 | 66.8 | 963 | 3159 | |
| | | | | | | N555 | 4,30 | 66.4 | 898 | 2946 | 4,73 | 73.0 | 977 | 3205 | |
| | | | | | | N160 | 4,25 | 65.6 | 873 | 2864 | 4,78 | 73.8 | 955 | 3133 | |
| | | | | | | N165 | 4,80 | 74.1 | 894 | 2933 | 5,29C | 81.6C | 982 | 3222 | |
| | | | | | | N560 | 4,60 | 71.0 | 904 | 2966 | 4,97 | 76.7 | 976 | 3202 | |
| | | | | | | N565 | 4,75 | 73.3 | 893 | 2930 | 5,18 | 79.9 | 974 | 3196 | |
| 10,7 | 165 | Hornady | SST | 84,8 | 3.340 | N550 | 3,95 | 61.0 | 872 | 2861 | 4,26 | 65.7 | 939 | 3081 | |
| | | | | | | N555 | 4,24 | 65.4 | 879 | 2884 | 4,62 | 71.3 | 948 | 3110 | |
| | | | | | | N160 | 4,25 | 65.6 | 861 | 2825 | 4,71 | 72.7 | 936 | 3071 | |
| | | | | | | N165 | 4,68 | 72.2 | 880 | 2887 | 5,01 | 77.3 | 951 | 3120 | |
| | | | | | | N560 | 4,51 | 69.6 | 875 | 2871 | 4,88 | 75.3 | 953 | 3127 | |
| | | | | | | N565 | 4,74 | 73.1 | 875 | 2871 | 5,12 | 79.0 | 947 | 3107 | |
| 10,7 | 165 | Sierra | SBT | 84,8 | 3.340 | N550 | 3,93 | 60.6 | 859 | 2818 | 4,30 | 66.4 | 931 | 3054 | |
| | | | | | | N555 | 4,04 | 62.3 | 856 | 2808 | 4,64 | 71.6 | 940 | 3084 | |
| | | | | | | N160 | 3,56 | 54.9 | 806 | 2644 | 4,27 | 65.9 | 900 | 2953 | |
| | | | | | | N165 | 4,35 | 67.1 | 850 | 2789 | 5,14 | 79.3 | 947 | 3107 | |
| | | | | | | N560 | 4,44 | 68.5 | 870 | 2854 | 4,85 | 74.8 | 947 | 3107 | |
| | | | | | | N565 | 4,60 | 71.0 | 868 | 2848 | 5,14 | 79.3 | 952 | 3123 | |
| | | | | | | N170 | 5,00 | 77.2 | 862 | 2828 | 5,38 | 83.0 | 934 | 3064 | |
| 10,9 | 168 | Hornady | A-Max | 84,8 | 3.340 | N550 | 3,86 | 59.6 | 857 | 2812 | 4,23 | 65.3 | 929 | 3048 | |
| | | | | | | N555 | 4,20 | 64.8 | 868 | 2848 | 4,60 | 71.0 | 937 | 3074 | |
| | | | | | | N160 | 4,10 | 63.3 | 837 | 2746 | 4,56 | 70.4 | 914 | 2999 | |
| | | | | | | N165 | 4,60 | 71.0 | 872 | 2861 | 5,00 | 77.2 | 944 | 3097 | |
| | | | | | | N560 | 4,47 | 69.0 | 866 | 2841 | 4,83 | 74.5 | 942 | 3091 | |
| | | | | | | N565 | 4,65 | 71.8 | 869 | 2851 | 5,09 | 78.6 | 942 | 3091 | |
| 11,0 | 170 | Lapua | LockBase | 84,8 | 3.339 | N550 | 3,84 | 59.3 | 847 | 2779 | 4,25 | 65.6 | 920 | 3018 | |
| | | | | | | N555 | 4,00 | 61.7 | 846 | 2776 | 4,54 | 70.1 | 928 | 3045 | |

| .300 Winchester Magnum | | | | | | cont. | | | | | | | | |
|------------------------|-------|---------|--------------------------|--------------------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N160 | 3,99 | 61.6 | 822 | 2697 | 4,53 | 69.9 | 903 | 2963 |
| | | | | | | N165 | 4,50 | 69.4 | 841 | 2759 | 5,04 | 77.8 | 933 | 3061 |
| | | | | | | N560 | 4,40 | 67.9 | 859 | 2818 | 4,75 | 73.3 | 931 | 3054 |
| | | | | | | N565 | 4,55 | 70.2 | 861 | 2825 | 5,05 | 77.9 | 938 | 3077 |
| | | | | | | N170 | 4,80 | 74.1 | 837 | 2746 | 5,32F | 82.1F | 921 | 3022 |
| | | | | | | N568 | 5,00 | 77.2 | 846 | 2776 | 5,15F | 79.5F | 872 | 2861 |
| 11,0 | 170 | Lapua | Naturalis N558 | 84,0 | 3.307 | N550 | 3,70 | 57.1 | 814 | 2671 | 4,08 | 63.0 | 892 | 2927 |
| | | | | | | N555 | 3,90 | 60.2 | 824 | 2703 | 4,34 | 67.0 | 898 | 2946 |
| | | | | | | N160 | 3,40 | 52.5 | 759 | 2490 | 4,09 | 63.1 | 864 | 2835 |
| | | | | | | N165 | 3,80 | 58.6 | 786 | 2579 | 4,90 | 75.6 | 911 | 2989 |
| | | | | | | N560 | 4,25 | 65.6 | 835 | 2740 | 4,58 | 70.7 | 910 | 2986 |
| | | | | | | N565 | 4,40 | 67.9 | 843 | 2766 | 4,80C | 74.1C | 915 | 3002 |
| 11,6 | 178 | Hornady | ELD-X | 84,8 | 3.340 | N160 | 3,50 | 54.0 | 794 | 2605 | 3,77 | 58.2 | 832 | 2730 |
| | | | | | | N165 | 3,70 | 57.1 | 777 | 2549 | 4,91F | 75.8F | 901 | 2956 |
| | | | | | | N560 | 4,25 | 65.6 | 830 | 2723 | 4,67 | 72.1 | 907 | 2976 |
| 11,7 | 180 | Hornady | GMX | 84,8 | 3.340 | N555 | 3,53 | 54.5 | 766 | 2513 | 3,95 | 61.0 | 837 | 2746 |
| | | | | | | N160 | 3,50 | 54.0 | 764 | 2507 | 3,79 | 58.5 | 813 | 2667 |
| | | | | | | N165 | 3,68 | 56.8 | 750 | 2461 | 4,13 | 63.7 | 832 | 2730 |
| | | | | | | N560 | 3,85 | 59.4 | 781 | 2562 | 4,31 | 66.5 | 865 | 2838 |
| | | | | | | N565 | 3,93 | 60.6 | 787 | 2582 | 4,52 | 69.8 | 868 | 2848 |
| 12,0 | 185 | Lapua | Mega | 82,5 | 3.248 | N550 | 3,85 | 59.4 | 813 | 2667 | 4,17 | 64.4 | 876 | 2874 |
| | | | | | | N555 | 4,03 | 62.2 | 811 | 2661 | 4,47 | 69.0 | 881 | 2890 |
| | | | | | | N160 | 3,87 | 59.7 | 766 | 2513 | 4,41 | 68.1 | 859 | 2818 |
| | | | | | | N165 | 4,16 | 64.2 | 782 | 2566 | 4,82 | 74.4 | 881 | 2890 |
| | | | | | | N560 | 4,33 | 66.8 | 817 | 2680 | 4,72 | 72.8 | 890 | 2920 |
| | | | | | | N565 | 4,46 | 68.8 | 819 | 2687 | 4,96 | 76.5 | 897 | 2943 |
| | | | | | | N170 | 4,75 | 73.3 | 804 | 2638 | 5,23C | 80.7C | 882 | 2894 |
| | | | | | | N568 | 5,00 | 77.2 | 831 | 2726 | 5,15F | 79.5F | 853 | 2799 |
| 13,3 | 205 | Berger | Elite Hunter | 84,8 | 3.340 | N550 | 3,70 | 57.1 | 779 | 2556 | 4,03 | 62.2 | 841 | 2759 |
| | | | | | | N555 | 4,00 | 61.7 | 781 | 2562 | 4,42 | 68.2 | 850 | 2789 |
| | | | | | | N160 | 4,05 | 62.5 | 770 | 2526 | 4,53 | 69.9 | 850 | 2789 |
| | | | | | | N165 | 4,60 | 71.0 | 803 | 2635 | 4,92 | 75.9 | 873 | 2864 |
| | | | | | | N560 | 4,32 | 66.7 | 800 | 2625 | 4,67 | 72.1 | 866 | 2841 |
| | | | | | | N565 | 4,48 | 69.1 | 802 | 2631 | 4,84 | 74.7 | 868 | 2848 |
| | | | | | | N170 | 4,70 | 72.5 | 784 | 2572 | 5,10C | 78.7C | 853 | 2799 |
| | | | | | | N568 | 5,02 | 77.5 | 811 | 2661 | 5,15C | 79.5C | 831 | 2726 |
| 13,5 | 208 | Berger | Long Range Hybrid Target | 84,8 | 3.340 | N550 | 3,70 | 57.1 | 778 | 2552 | 4,05 | 62.5 | 837 | 2746 |
| | | | | | | N555 | 3,98 | 61.4 | 775 | 2543 | 4,38 | 67.6 | 842 | 2762 |
| | | | | | | N160 | 4,00 | 61.7 | 764 | 2507 | 4,45 | 68.7 | 835 | 2740 |
| | | | | | | N165 | 4,52 | 69.8 | 795 | 2608 | 4,87 | 75.2 | 859 | 2818 |
| | | | | | | N560 | 4,30 | 66.4 | 792 | 2598 | 4,64 | 71.6 | 861 | 2825 |
| | | | | | | N565 | 4,50 | 69.4 | 801 | 2628 | 4,85 | 74.8 | 863 | 2831 |
| | | | | | | N170 | 4,70 | 72.5 | 785 | 2575 | 5,10C | 78.7C | 852 | 2795 |
| 14,3 | 220 | Berger | Long Range Hybrid Target | 88,0 ¹⁾ | 3.465 | N550 | 3,60 | 55.6 | 750 | 2461 | 3,88 | 59.9 | 801 | 2628 |
| | | | | | | N555 | 3,80 | 58.6 | 743 | 2438 | 4,22 | 65.1 | 807 | 2648 |
| | | | | | | N160 | 3,66 | 56.5 | 722 | 2369 | 4,22 | 65.1 | 798 | 2618 |
| | | | | | | N165 | 4,08 | 63.0 | 746 | 2448 | 4,64 | 71.6 | 822 | 2697 |
| | | | | | | N560 | 4,10 | 63.3 | 766 | 2513 | 4,50 | 69.4 | 832 | 2730 |
| | | | | | | N565 | 4,25 | 65.6 | 766 | 2513 | 4,68 | 72.2 | 835 | 2740 |
| | | | | | | N170 | 4,52 | 69.8 | 758 | 2487 | 4,95F | 76.4F | 826 | 2710 |
| | | | | | | N568 | 4,89 | 75.5 | 786 | 2579 | 5,15C | 79.5C | 830 | 2723 |
| 14,3 | 220 | Lapua | OTM Scenar-L | 84,8 | 3.340 | N165 | 3,96 | 61.1 | 721 | 2365 | 4,47 | 69.0 | 791 | 2595 |
| | | | | | | N560 | 4,03 | 62.2 | 740 | 2428 | 4,44 | 68.5 | 816 | 2677 |
| | | | | | | N565 | 4,41 | 68.1 | 771 | 2530 | 4,73C | 73.0C | 833 | 2733 |

LIGHT GREY TEXT BOX INDICATES MAXIMUM LOAD - USE WITH CAUTION!
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED

| .300 Winchester Magnum | | | | | | cont. | | | | | | | | |
|------------------------|-------|---------|-----------|--------------------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N170 | 4,66 | 71.9 | 764 | 2507 | 5,01C | 77.3C | 830 | 2723 |
| | | | | | | N568 | 4,96 | 76.5 | 786 | 2579 | 5,20C | 80.2C | 831 | 2726 |
| | | | | | | N570 | 5,00 | 77.2 | 810 | 2657 | 5,20C | 80.2C | 856 | 2808 |
| 14,6 | 225 | Hornady | ELD-M | 86,0 ²⁾ | 3.386 | N555 | 3,80 | 58.6 | 735 | 2411 | 4,19 | 64.7 | 797 | 2615 |
| | | | | | | N160 | 3,70 | 57.1 | 718 | 2356 | 4,15 | 64.0 | 783 | 2569 |
| | | | | | | N165 | 4,00 | 61.7 | 717 | 2352 | 4,61C | 71.1C | 796 | 2612 |
| | | | | | | N560 | 4,00 | 61.7 | 733 | 2405 | 4,45 | 68.7 | 811 | 2661 |
| | | | | | | N565 | 4,15 | 64.0 | 739 | 2425 | 4,67C | 72.1C | 818 | 2684 |
| | | | | | | N568 | 4,80 | 74.1 | 773 | 2536 | 5,10C | 78.7C | 821 | 2694 |

C = Compressed load F = Case full
¹⁾ The cartridge overall length exceeds the CIP maximum. ²⁾ The cartridge overall length exceeds the CIP maximum.

.300 Weatherby Magnum

| | |
|--------------|---|
| Test barrel: | 660 mm (26"), 1 in 10" twist |
| Primers: | Large Rifle Magnum |
| Cases: | Weatherby, trim-to length 71,50 mm (2.815") |

CAUTION: Loads less than the listed starting loads may cause excessive chamber pressure and must not be used!

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|---------|---------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 8,1 | 125 | Nosler | Ballistic Tip | 90,0 | 3.543 | N160 | 5,19 | 80.2 | 1046 | 3430 | 5,52 | 85.2 | 1104 | 3623 |
| 9,7 | 150 | Nosler | Ballistic Tip | 90,1 | 3.547 | N160 | 4,88 | 75.2 | 945 | 3102 | 5,22 | 80.6 | 1003 | 3291 |
| | | | | | | N165 | 5,27 | 81.3 | 949 | 3113 | 5,59 | 86.3 | 1019 | 3343 |
| 10,7 | 165 | Speer | SPBT | 90,3 | 3.555 | N160 | 4,85 | 74.8 | 923 | 3028 | 5,16 | 79.6 | 975 | 3200 |
| | | | | | | N165 | 5,24 | 80.9 | 932 | 3057 | 5,57 | 85.9 | 984 | 3228 |
| 11,7 | 180 | Hornady | SP | 90,3 | 3.555 | N160 | 4,66 | 71.9 | 875 | 2872 | 5,01 | 77.3 | 930 | 3050 |
| | | | | | | N165 | 5,04 | 77.7 | 888 | 2912 | 5,43 | 83.8 | 944 | 3098 |
| 13,0 | 200 | Sierra | HPBT | 90,3 | 3.555 | N165 | 4,39 | 67.7 | 795 | 2609 | 4,87 | 75.1 | 858 | 2814 |
| | | | | | | N560 | 4,47 | 69.0 | 821 | 2694 | 4,81 | 74.2 | 872 | 2862 |
| | | | | | | N170 | 4,44 | 68.5 | 781 | 2562 | 5,11 | 78.9 | 859 | 2817 |

.300 Lapua Magnum

| | |
|--------------|---|
| Test barrel: | 690 mm (27"), 1 in 9½" twist |
| Primers: | Large Rifle Magnum |
| Cases: | Lapua, trim-to length 68,90 mm (2.713") |

CAUTION: Loads less than the listed starting loads may cause excessive chamber pressure and must not be used!

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|--------|-------------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 10,0 | 155 | Lapua | Scenar / Scenar-L | 93,0 | 3.661 | N160 | 4,89 | 75.5 | 973 | 3192 | 5,23 | 80.7 | 1023 | 3355 |
| | | | | | | N560 | 5,24 | 80.9 | 973 | 3192 | 5,73 | 88.4 | 1057 | 3468 |
| | | | | | | N170 | 6,01 | 92.7 | 993 | 3258 | 6,41 | 99.0 | 1064 | 3491 |
| 11,0 | 170 | Lapua | LockBase | 93,0 | 3.661 | N560 | 5,12 | 79.0 | 942 | 3091 | 5,49 | 84.7 | 1004 | 3293 |
| | | | | | | N170 | 5,66 | 87.3 | 939 | 3081 | 6,10 | 94.1 | 1003 | 3292 |
| | | | | | | 24N41 | 6,15 | 94.9 | 945 | 3100 | 6,56 | 101.2 | 1015 | 3331 |
| 12,0 | 185 | Lapua | Scenar | 93,0 | 3.661 | N560 | 4,82 | 74.4 | 879 | 2884 | 5,31 | 81.9 | 954 | 3131 |
| | | | | | | N170 | 5,40 | 83.3 | 893 | 2930 | 5,89 | 90.9 | 962 | 3158 |
| | | | | | | 24N41 | 5,93 | 91.5 | 916 | 3005 | 6,30 | 97.2 | 965 | 3166 |
| 13,0 | 200 | Sierra | HPBT | 93,0 | 3.661 | N170 | 5,09 | 78.5 | 851 | 2792 | 5,56 | 85.8 | 915 | 3003 |
| | | | | | | 24N41 | 5,56 | 85.8 | 866 | 2841 | 6,01 | 92.8 | 928 | 3044 |
| 14,3 | 220 | Sierra | HPBT | 93,0 | 3.661 | 24N41 | 5,10 | 78.7 | 804 | 2638 | 5,67 | 87.4 | 875 | 2871 |
| | | | | | | 20N29 | 6,06 | 93.5 | 856 | 2808 | 6,45 | 99.6 | 908 | 2980 |

LIGHT GREY TEXT BOX INDICATES MAXIMUM LOAD - USE WITH CAUTION!

.300 Remington Ultra Magnum

| | |
|--------------|---|
| Test barrel: | 660 mm (26"), 1 in 10" twist |
| Primers: | Large Rifle Magnum |
| Cases: | Remington, trim-to length 72,10 mm (2.839") |

| CAUTION: Loads less than the listed starting loads may cause excessive chamber pressure and must not be used! | | | | | | | | | | | | | | |
|---|-------|--------|-------------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 10,0 | 155 | Lapua | Scenar / Scenar-L | 89,5 | 3.524 | N160 | 5,29 | 81.6 | 957 | 3140 | 5,80 | 89.5 | 1044 | 3425 |
| | | | | | | N165 | 5,60 | 86.4 | 952 | 3123 | 6,19 | 95.5 | 1052 | 3451 |
| | | | | | | N560 | 5,60 | 86.4 | 865 | 2838 | 6,09 | 94.0 | 1067 | 3501 |
| 10,7 | 165 | Nosler | Partition | 89,5 | 3.524 | N160 | 4,97 | 76.7 | 896 | 2940 | 5,64 | 87.0 | 980 | 3214 |
| | | | | | | N165 | 5,57 | 85.9 | 919 | 3015 | 6,12 | 94.4 | 1009 | 3311 |
| | | | | | | N560 | 5,39 | 83.2 | 902 | 2959 | 6,13 | 94.5 | 1027 | 3371 |
| 10,85 | 167 | Lapua | Scenar | 90,0 | 3.543 | N165 | 5,05 | 77.9 | 882 | 2894 | 6,10 | 94.1 | 1007 | 3304 |
| | | | | | | N560 | 5,29 | 81.6 | 925 | 3035 | 5,95 | 91.8 | 1029 | 3376 |
| | | | | | | N170 | 5,37 | 82.9 | 895 | 2936 | 6,48 | 100.0 | 1011 | 3317 |
| 11,0 | 170 | Lapua | LockBase | 90,0 | 3.543 | N165 | 4,56 | 70.4 | 851 | 2792 | 5,73 | 88.4 | 976 | 3202 |
| | | | | | | N560 | 4,73 | 73.0 | 899 | 2949 | 5,74 | 88.6 | 1006 | 3301 |
| | | | | | | N170 | 5,02 | 77.5 | 865 | 2838 | 6,36 | 98.1 | 992 | 3255 |
| 11,7 | 180 | Barnes | XFB | 89,5 | 3.524 | N165 | 4,52 | 69.7 | 833 | 2733 | 5,40 | 83.3 | 939 | 3079 |
| | | | | | | N560 | 4,65 | 71.7 | 854 | 2802 | 5,60 | 86.3 | 956 | 3137 |
| | | | | | | N170 | 4,90 | 75.6 | 840 | 2756 | 6,12 | 94.4 | 952 | 3124 |
| 12,0 | 185 | Lapua | Mega | 88,5 | 3.484 | N165 | 4,75 | 73.3 | 826 | 2710 | 5,82 | 89.8 | 937 | 3074 |
| | | | | | | N560 | 5,18 | 79.9 | 874 | 2867 | 5,83 | 90.0 | 969 | 3179 |
| | | | | | | N170 | 5,22 | 80.6 | 837 | 2746 | 6,31 | 97.4 | 953 | 3127 |
| 12,0 | 185 | Lapua | Scenar | 91,4 | 3.598 | N165 | 5,18 | 79.9 | 865 | 2838 | 6,09 | 94.0 | 960 | 3148 |
| | | | | | | N560 | 5,46 | 84.2 | 888 | 2913 | 5,93 | 91.5 | 979 | 3213 |
| | | | | | | N170 | 5,98 | 92.3 | 875 | 2871 | 6,40 | 98.7 | 966 | 3170 |
| | | | | | | N570 | 5,90 | 91.0 | 908 | 2979 | 6,54 | 100.9 | 1023 | 3356 |
| 13,0 | 200 | Lapua | Mega | 89,3 | 3.516 | N165 | 4,95 | 76.4 | 831 | 2726 | 5,70 | 88.0 | 922 | 3025 |
| | | | | | | N560 | 5,24 | 80.9 | 892 | 2927 | 5,85 | 90.3 | 959 | 3146 |
| | | | | | | N570 | 5,70 | 88.0 | 877 | 2877 | 6,37 | 98.3 | 958 | 3143 |

.30-.378 Weatherby Magnum

| | |
|--------------|---|
| Test barrel: | 670 mm (26½"), 1 in 10" twist |
| Primers: | Large Rifle Magnum |
| Cases: | Weatherby, trim-to length 73,70 mm (2.902") |

| CAUTION: Loads less than the listed starting loads may cause excessive chamber pressure and must not be used! | | | | | | | | | | | | | | |
|---|-------|--------|-------------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 10,0 | 155 | Lapua | Scenar / Scenar-L | 93,0 | 3.661 | N160 | 6,10 | 94.1 | 1004 | 3294 | 6,41 | 98.9 | 1062 | 3484 |
| | | | | | | N165 | 6,68 | 103.1 | 1017 | 3337 | 6,94 | 107.1 | 1075 | 3527 |
| | | | | | | N170 | 7,23 | 111.6 | 1008 | 3307 | 7,54 | 116.3 | 1069 | 3507 |
| 11,0 | 170 | Lapua | LockBase | 93,0 | 3.661 | N160 | 5,63 | 86.9 | 933 | 3061 | 5,91 | 91.2 | 973 | 3192 |
| | | | | | | N165 | 6,33 | 97.7 | 957 | 3140 | 6,67 | 102.9 | 1002 | 3287 |
| | | | | | | N170 | 6,94 | 107.1 | 957 | 3140 | 7,20 | 111.1 | 1008 | 3307 |
| | | | | | | 24N41 | 7,31 | 112.8 | 980 | 3215 | 7,83 | 120.8 | 1060 | 3478 |
| 12,0 | 185 | Lapua | Scenar | 93,0 | 3.661 | N160 | 5,61 | 86.6 | 913 | 2995 | 5,95 | 91.8 | 963 | 3159 |
| | | | | | | N560 | 5,96 | 92.0 | 922 | 3025 | 6,26 | 96.6 | 981 | 3219 |
| | | | | | | N170 | 6,69 | 103.2 | 946 | 3104 | 7,12 | 109.9 | 1009 | 3310 |
| | | | | | | 24N41 | 7,16 | 110.5 | 959 | 3146 | 7,58 | 117.0 | 1023 | 3356 |
| | | | | | | 20N29 | 7,94 | 122.5 | 971 | 3186 | 8,18 | 126.2 | 1003 | 3291 |
| 13,0 | 200 | Sierra | HPBT | 93,0 | 3.661 | 24N41 | 4,80 | 74.1 | 691 | 2267 | 6,96 | 107.4 | 949 | 3114 |

LIGHT GREY TEXT BOX INDICATES MAXIMUM LOAD - USE WITH CAUTION!
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED

| .30-.378 Weatherby Magnum | | | | | | cont. | | | | | | | | |
|---------------------------|-------|--------|-----------|------|--------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | | C.O.L. | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | 20N29 | 7,52 | 116.0 | 918 | 3012 | 7,88 | 121.6 | 980 | 3215 |
| 14,3 | 220 | Sierra | HPBT | 93,0 | 3.661 | 20N29 | 7,14 | 110.2 | 874 | 2868 | 7,64 | 117.9 | 938 | 3077 |

| | | | | | | | | | | | | | | |
|-----------|--|--|--|--|--|--------------|---|--|--|--|--|--|--|--|
| 7,62 x 39 | | | | | | Test barrel: | 415 mm (16"), 1 in 9½" twist | | | | | | | |
| | | | | | | Primers: | Large Rifle | | | | | | | |
| | | | | | | Cases: | Lapua, trim-to length 38,50 mm (1.516") | | | | | | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|--------------------|---------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 3,7 | 57 | Lapua | ALS | 55,7 | 2.193 | N110 | 1,56 | 24.1 | 925 | 3035 | 1,78 | 27.5 | 997 | 3233 |
| 6,5 | 100 | Lapua | HP / OTCE | 55,4 | 2.181 | N110 | 1,22 | 18.8 | 685 | 2247 | 1,41 | 21.8 | 772 | 2503 |
| | | | | | | N120 | 1,65 | 25.5 | 688 | 2257 | 1,80 | 27.8 | 769 | 2494 |
| 7,1 | 110 | H&N | RN HS | 50,5 | 1.988 | N110 | 0,90 | 13.9 | 498 | 1634 | 1,00 | 15.4 | 527 | 1729 |
| | | | | | | N120 | 1,20 | 18.5 | 509 | 1670 | 1,25 | 19.3 | 548 | 1798 |
| 8,0 | 123 | Lapua | FMJ | 55,7 | 2.193 | N120 | 1,60 | 24.7 | 663 | 2175 | 1,77 | 27.3 | 728 | 2361 |
| 8,1 | 125 | Sierra | TMK | 58,0 | 2.283 | N110 | 1,05 | 16.2 | 607 | 1991 | 1,19 | 18.4 | 656 | 2152 |
| | | | | | | N120 | 1,50 | 23.1 | 657 | 2156 | 1,64 | 25.3 | 719 | 2359 |
| | | | | | | N130 | 1,64 | 25.3 | 660 | 2165 | 1,80 | 27.8 | 712 | 2336 |
| 9,7 | 150 | Lapua | LockBase | 56,0 | 2.205 | N120 | 1,43 | 22.1 | 605 | 1985 | 1,58 | 24.4 | 666 | 2185 |
| 9,7 | 150 | X-Treme Bullets | Flat Point | 55,0 | 2.165 | N110 | 0,90 | 13.9 | 465 | 1526 | 1,00 | 15.4 | 535 | 1755 |
| | | | | | | | N120 | 1,10 | 17.0 | 424 | 1391 | 1,30 | 20.1 | 535 |
| 13,0 | 200 | Lapua | B416 Subsonic | 56,0 | 2.205 | N110 | 0,87 | 13.4 | 435 | 1427 | 0,97 | 15.0 | 481 | 1578 |
| | | | | | | N120 | 1,21 | 18.7 | 493 | 1617 | 1,33 | 20.5 | 542 | 1778 |
| | | | | | | N130 | 1,30 | 20.1 | 499 | 1637 | 1,45 | 22.4 | 553 | 1814 |

| | | | | | | | | | | | | | | |
|--------------|--|--|--|--|--|--------------|---|--|--|--|--|--|--|--|
| .303 British | | | | | | Test barrel: | 600 mm (23½"), 1 in 10" twist | | | | | | | |
| | | | | | | Primers: | Large Rifle | | | | | | | |
| | | | | | | Cases: | Remington, trim-to length 56,20 mm (2.213") | | | | | | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|--------|-------------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 3,7 | 57 | Lapua | ALS ¹⁾ | 73,3 | 2.886 | N110 | 1,68 | 25.9 | 981 | 3219 | 2,21 | 34.1 | 1178 | 3865 |
| 8,0 | 123 | Lapua | FMJ | 73,3 | 2.886 | N120 | 2,18 | 33.6 | 819 | 2687 | 2,37 | 36.6 | 873 | 2864 |
| | | | | | | N130 | 2,39 | 36.9 | 840 | 2756 | 2,59 | 40.0 | 895 | 2936 |
| | | | | | | N133 | 2,58 | 39.8 | 858 | 2815 | 2,76 | 42.6 | 914 | 2999 |
| 9,7 | 150 | Lapua | Mega | 70,5 | 2.776 | N130 | 2,38 | 36.7 | 831 | 2726 | 2,55 | 39.3 | 884 | 2900 |
| | | | | | | N133 | 2,49 | 38.4 | 839 | 2753 | 2,70 | 41.7 | 899 | 2949 |
| 11,3 | 174 | Sierra | HPBT | 78,0 | 3.071 | N135 | 2,29 | 35.3 | 711 | 2333 | 2,49 | 38.4 | 761 | 2497 |
| | | | | | | N140 | 2,49 | 38.4 | 725 | 2379 | 2,70 | 41.7 | 782 | 2566 |
| | | | | | | N540 | 2,57 | 39.7 | 728 | 2388 | 2,78 | 42.9 | 791 | 2595 |
| 11,7 | 180 | Sierra | Spitzer | 78,0 | 3.071 | N135 | 2,15 | 33.2 | 664 | 2178 | 2,36 | 36.4 | 714 | 2343 |
| | | | | | | N140 | 2,33 | 36.0 | 683 | 2241 | 2,57 | 39.7 | 739 | 2425 |
| | | | | | | N540 | 2,48 | 38.3 | 697 | 2287 | 2,70 | 41.7 | 758 | 2487 |

| | | | | | |
|-------------------------|--|--|--|--------------|---|
| 8 x 57 IS (8 mm Mauser) | | | | Test barrel: | 620 mm (24½"), 1 in 9½" twist |
| | | | | Primers: | Large Rifle |
| | | | | Cases: | Lapua, trim-to length 56,80 mm (2.236") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|----------|----------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 7,8 | 120 | Lapua | OT, G573 | 73,5 | 2.894 | N110 | 1,78 | 27.5 | 773 | 2536 | 2,04 | 31.5 | 833 | 2733 |
| | | | | | | N120 | 2,22 | 34.3 | 821 | 2694 | 2,57 | 39.7 | 907 | 2976 |
| | | | | | | N130 | 2,62 | 40.4 | 868 | 2848 | 2,90 | 44.8 | 945 | 3100 |
| | | | | | | N133 | 2,88 | 44.4 | 886 | 2907 | 3,20 | 49.4 | 969 | 3179 |
| 8,1 | 125 | Hornady | SP | 74,0 | 2.913 | N130 | 2,80 | 43.2 | 874 | 2867 | 3,12 | 48.1 | 950 | 3117 |
| | | | | | | N133 | 3,14 | 48.5 | 883 | 2897 | 3,50 | 54.0 | 979 | 3212 |
| | | | | | | N135 | 3,22 | 49.7 | 882 | 2894 | 3,57 | 55.1 | 974 | 3196 |
| 9,7 | 150 | Speer | Spitzer | 76,0 | 2.992 | N135 | 2,97 | 45.8 | 801 | 2628 | 3,31 | 51.1 | 880 | 2887 |
| | | | | | | N140 | 3,13 | 48.3 | 799 | 2621 | 3,49 | 53.9 | 892 | 2927 |
| 10,4 | 160 | Barnes | TTSX | 77,0 | 3.031 | N135 | 2,67 | 41.2 | 752 | 2467 | 3,02 | 46.6 | 834 | 2736 |
| | | | | | | N140 | 2,87 | 44.3 | 767 | 2516 | 3,14 | 48.5 | 841 | 2759 |
| | | | | | | N540 | 3,01 | 46.5 | 782 | 2566 | 3,33 | 51.4 | 870 | 2854 |
| 11,0 | 170 | Speer | SP | 77,0 | 3.031 | N135 | 2,86 | 44.1 | 748 | 2454 | 3,18 | 49.1 | 829 | 2720 |
| | | | | | | N140 | 2,99 | 46.1 | 747 | 2451 | 3,33 | 51.4 | 838 | 2749 |
| | | | | | | N150 | 3,13 | 48.3 | 761 | 2497 | 3,48 | 53.7 | 853 | 2799 |
| 11,7 | 180 | Lapua | Naturalis N559 | 81,0 | 3.189 | N135 | 2,70 | 41.7 | 730 | 2395 | 2,95 | 45.5 | 803 | 2635 |
| | | | | | | N140 | 2,87 | 44.3 | 743 | 2438 | 3,11 | 48.0 | 804 | 2638 |
| | | | | | | N540 | 2,89 | 44.6 | 747 | 2451 | 3,14 | 48.5 | 814 | 2671 |
| | | | | | | N150 | 2,89 | 44.6 | 744 | 2441 | 3,14 | 48.5 | 809 | 2654 |
| 11,7 | 181 | Brenneke | TOG | 77,0 | 3.031 | N140 | 2,84 | 43.8 | 705 | 2313 | 3,16 | 48.8 | 782 | 2566 |
| | | | | | | N540 | 2,93 | 45.2 | 746 | 2448 | 3,22 | 49.7 | 822 | 2697 |
| | | | | | | N150 | 2,93 | 45.2 | 723 | 2372 | 3,18 | 49.1 | 788 | 2585 |
| 11,7 | 181 | Nosler | E-Tip | 77,0 | 3.031 | N135 | 2,58 | 39.8 | 712 | 2336 | 2,96 | 45.7 | 791 | 2595 |
| | | | | | | N140 | 2,77 | 42.7 | 719 | 2359 | 3,11 | 48.0 | 795 | 2608 |
| | | | | | | N540 | 2,78 | 42.9 | 718 | 2356 | 3,18 | 49.1 | 808 | 2651 |
| | | | | | | N150 | 2,90 | 44.8 | 735 | 2411 | 3,15 | 48.6 | 801 | 2628 |
| 12,8 | 198 | Brenneke | TIG | 77,0 | 3.031 | N140 | 2,82 | 43.5 | 697 | 2287 | 3,12 | 48.1 | 759 | 2490 |
| | | | | | | N540 | 2,91 | 44.9 | 715 | 2346 | 3,19 | 49.2 | 783 | 2569 |
| | | | | | | N150 | 2,93 | 45.2 | 708 | 2323 | 3,20 | 49.4 | 768 | 2520 |
| 13,0 | 200 | Barnes | TSX | 77,2 | 3.039 | N540 | 2,77 | 42.7 | 677 | 2221 | 3,11 | 48.0 | 760 | 2493 |
| | | | | | | N150 | 2,79 | 43.1 | 679 | 2228 | 3,08 | 47.5 | 745 | 2444 |
| | | | | | | N550 | 3,10 | 47.8 | 701 | 2300 | 3,40 | 52.5 | 767 | 2516 |
| 13,0 | 200 | Nosler | Accubond | 79,1 | 3.114 | N540 | 2,75 | 42.4 | 701 | 2300 | 3,00 | 46.3 | 765 | 2510 |
| | | | | | | N150 | 2,79 | 43.1 | 693 | 2274 | 3,07 | 47.4 | 766 | 2513 |
| | | | | | | N550 | 2,97 | 45.8 | 713 | 2339 | 3,33 | 51.4 | 784 | 2572 |
| | | | | | | N160 | 3,32 | 51.2 | 706 | 2316 | 3,50 | 54.0 | 746 | 2448 |
| 13,0 | 200 | Nosler | Partition | 81,0 | 3.189 | N160 | 3,27 | 50.5 | 681 | 2234 | 3,64 | 56.2 | 785 | 2575 |
| 13,0 | 200 | Sierra | MatchKing | 79,1 | 3.114 | N540 | 2,82 | 43.5 | 715 | 2346 | 3,05 | 47.1 | 781 | 2562 |
| | | | | | | N150 | 2,74 | 42.3 | 699 | 2293 | 3,03 | 46.8 | 764 | 2507 |
| | | | | | | N550 | 3,00 | 46.3 | 716 | 2349 | 3,25 | 50.2 | 783 | 2569 |
| 13,0 | 200 | Speer | Spitzer | 79,5 | 3.130 | N140 | 2,77 | 42.7 | 661 | 2169 | 3,08 | 47.5 | 759 | 2490 |
| | | | | | | N150 | 2,86 | 44.1 | 680 | 2231 | 3,19 | 49.2 | 763 | 2503 |
| 13,0 | 200 | Swift | A-Frame | 75,0 | 2.953 | N540 | 2,85 | 44.0 | 714 | 2343 | 3,13 | 48.3 | 788 | 2585 |
| | | | | | | N150 | 2,91 | 44.9 | 709 | 2326 | 3,22F | 49.7F | 786 | 2579 |
| | | | | | | N550 | 2,99 | 46.1 | 713 | 2339 | 3,19 | 49.2 | 773 | 2536 |
| 14,3 | 220 | Sierra | Game King | 81,0 | 3.189 | N140 | 2,74 | 42.3 | 675 | 2215 | 3,03 | 46.8 | 742 | 2434 |
| | | | | | | N540 | 2,79 | 43.1 | 688 | 2257 | 3,09 | 47.7 | 759 | 2490 |
| | | | | | | N150 | 2,75 | 42.4 | 679 | 2228 | 3,07 | 47.4 | 746 | 2448 |

| 8x57 IS (8mm Mauser) | | | | | | cont. | | | | | | | | |
|----------------------|-------|-----|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N550 | 2,92 | 45.1 | 689 | 2260 | 3,25 | 50.2 | 764 | 2507 |
| | | | | | | N160 | 3,38 | 52.2 | 715 | 2346 | 3,40F | 52.5F | 722 | 2369 |
| F = Case full | | | | | | | | | | | | | | |

| | | | | | |
|------------|--|--|--|--------------|---|
| 8 x 57 IRS | | | | Test barrel: | 620 mm (24½"), 1 in 9½" twist |
| | | | | Primers: | Large Rifle |
| | | | | Cases: | Lapua, trim-to length 56,80 mm (2.236") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|----------|----------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 9,7 | 150 | Speer | Spitzer | 75,0 | 2.953 | N140 | 3,14 | 48.5 | 797 | 2615 | 3,35 | 51.7 | 858 | 2815 |
| | | | | | | N540 | 3,12 | 48.1 | 793 | 2602 | 3,52 | 54.3 | 890 | 2920 |
| | | | | | | N150 | 2,83 | 43.7 | 712 | 2336 | 3,08 | 47.5 | 890 | 2920 |
| 11,7 | 180 | Lapua | Naturalis N559 | 79,5 | 3.130 | N135 | 2,47 | 38.1 | 702 | 2303 | 2,65 | 40.9 | 742 | 2434 |
| | | | | | | N140 | 2,63 | 40.6 | 711 | 2333 | 2,83 | 43.7 | 758 | 2487 |
| | | | | | | N540 | 2,77 | 42.7 | 733 | 2405 | 2,94 | 45.4 | 778 | 2552 |
| | | | | | | N150 | 2,63 | 40.6 | 717 | 2352 | 2,83 | 43.7 | 758 | 2487 |
| 12,8 | 198 | Brenneke | TIG | 77,0 | 3.031 | N140 | 2,80 | 43.2 | 708 | 2323 | 2,95 | 45.5 | 739 | 2425 |
| | | | | | | N540 | 2,93 | 45.2 | 721 | 2365 | 3,07 | 47.4 | 758 | 2487 |

| | | | | | |
|----------|--|--|--|--------------|---------------------------------------|
| 8 x 68 S | | | | Test barrel: | 670 mm (26"), 1 in 11" twist |
| | | | | Primers: | Large Rifle |
| | | | | Cases: | RWS, trim-to length 67,50 mm (2.646") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|----------|--------------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 7,8 | 120 | Lapua | OT, G573 | 86,4 | 3.402 | N135 | 3,40 | 52.5 | 956 | 3136 | 3,87 | 59.7 | 1053 | 3455 |
| | | | | | | N140 | 3,91 | 60.3 | 990 | 3248 | 4,28 | 66.1 | 1080 | 3543 |
| | | | | | | N150 | 3,63 | 56.0 | 988 | 3241 | 4,22 | 65.1 | 1091 | 3579 |
| 9,7 | 150 | Sierra | Pro Hunter Spitzer | 86,4 | 3.402 | N150 | 4,00 | 61.7 | 924 | 3031 | 4,48 | 69.1 | 1021 | 3350 |
| | | | | | | N550 | 4,32 | 66.7 | 946 | 3104 | 4,75 | 73.3 | 1044 | 3425 |
| | | | | | | N160 | 4,69 | 72.4 | 945 | 3100 | 5,12 | 79.0 | 1031 | 3383 |
| 10,4 | 160 | Barnes | TTSX | 86,4 | 3.402 | N150 | 3,55 | 54.8 | 850 | 2789 | 4,07 | 62.8 | 952 | 3123 |
| | | | | | | N550 | 3,79 | 58.5 | 876 | 2874 | 4,28 | 66.1 | 989 | 3245 |
| | | | | | | N160 | 4,16 | 64.2 | 877 | 2877 | 4,67 | 72.1 | 987 | 3238 |
| 11,3 | 174 | Brenneke | TAG | 87,0 | 3.425 | N550 | 3,85 | 59.4 | 851 | 2792 | 4,27 | 65.9 | 942 | 3091 |
| | | | | | | N160 | 4,02 | 62.0 | 837 | 2746 | 4,65 | 71.8 | 947 | 3107 |
| | | | | | | N560 | 4,40 | 67.9 | 853 | 2799 | 4,97 | 76.7 | 957 | 3140 |
| 11,7 | 180 | Lapua | Naturalis N559 | 86,4 | 3.402 | N150 | 3,52 | 54.3 | 819 | 2687 | 4,00 | 61.7 | 907 | 2976 |
| | | | | | | N550 | 3,83 | 59.1 | 847 | 2779 | 4,22 | 65.1 | 935 | 3068 |
| | | | | | | N160 | 4,14 | 63.9 | 840 | 2756 | 4,62 | 71.3 | 937 | 3074 |
| 11,7 | 180 | Nosler | E-Tip | 87,0 | 3.425 | N150 | 3,35 | 51.7 | 790 | 2592 | 3,92 | 60.5 | 885 | 2904 |
| | | | | | | N550 | 3,79 | 58.5 | 825 | 2707 | 4,21 | 65.0 | 921 | 3022 |
| | | | | | | N160 | 3,82 | 59.0 | 803 | 2635 | 4,62 | 71.3 | 923 | 3028 |
| 13,0 | 200 | Barnes | TSX | 87,0 | 3.425 | N160 | 3,60 | 55.6 | 735 | 2411 | 4,21 | 65.0 | 854 | 2802 |
| | | | | | | N560 | 4,15 | 64.0 | 783 | 2569 | 4,65 | 71.8 | 888 | 2913 |
| | | | | | | N565 | 4,43 | 68.4 | 796 | 2612 | 5,00 | 77.2 | 879 | 2884 |
| 13,0 | 200 | Nosler | Accubond | 87,0 | 3.425 | N550 | 3,79 | 58.5 | 809 | 2654 | 4,16 | 64.2 | 888 | 2913 |
| | | | | | | N160 | 4,13 | 63.7 | 810 | 2657 | 4,56 | 70.4 | 890 | 2920 |
| | | | | | | N560 | 4,45 | 68.7 | 815 | 2674 | 4,97 | 76.7 | 912 | 2992 |
| 14,2 | 219 | Brenneke | TOG | 87,1 | 3.425 | N160 | 3,58 | 55.2 | 708 | 2323 | 4,11 | 63.4 | 805 | 2641 |

| 8 x 68 S | | | | | | cont. | | | | | | | | |
|----------|-------|-----|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N560 | 3,95 | 61.0 | 736 | 2415 | 4,42 | 68.2 | 831 | 2726 |
| | | | | | | N565 | 4,18 | 64.5 | 749 | 2457 | 4,85 | 74.8 | 848 | 2782 |

| .338 Winchester Magnum | | | | | | Test barrel: | 620 mm (24½"), 1 in 10" twist |
|------------------------|--|--|--|--|--|--------------|---|
| | | | | | | Primers: | Large Rifle Magnum |
| | | | | | | Cases: | Lapua, trim-to length 63,30 mm (2.492") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|---|-------|-----------|--------------|--------------------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 13,0 | 200 | Hornady | SP | 85,0 ¹⁾ | 3.346 | N540 | 3,90 | 60.2 | 814 | 2671 | 4,34 | 67.0 | 888 | 2913 |
| | | | | | | N150 | 3,85 | 59.4 | 801 | 2628 | 4,34 | 67.0 | 873 | 2864 |
| | | | | | | N550 | 4,15 | 64.0 | 822 | 2697 | 4,61 | 71.1 | 899 | 2949 |
| | | | | | | N160 | 4,71 | 72.7 | 720 | 2362 | 5,23F | 80.7F | 905 | 2969 |
| 14,6 | 225 | Hornady | SP | 84,0 | 3.307 | N160 | 4,56 | 70.4 | 798 | 2617 | 4,80 | 74.1 | 856 | 2809 |
| | | | | | | N560 | 4,78 | 73.8 | 820 | 2689 | 5,15 | 79.4 | 849 | 2785 |
| 15,0 | 231 | Lapua | Naturalis LR | 84,3 | 3.319 | N550 | 3,80 | 58.6 | 752 | 2467 | 4,31 | 66.5 | 838 | 2749 |
| | | | | | | N160 | 4,25 | 65.6 | 751 | 2464 | 4,74 | 73.1 | 843 | 2766 |
| | | | | | | N560 | 4,50 | 69.4 | 769 | 2523 | 4,85F | 74.8F | 832 | 2730 |
| 16,2 | 250 | Lapua | Scenar | 84,0 | 3.307 | N550 | 4,06 | 62.7 | 765 | 2509 | 4,27 | 65.8 | 810 | 2657 |
| | | | | | | N160 | 4,23 | 65.3 | 760 | 2494 | 4,55 | 70.1 | 813 | 2669 |
| | | | | | | N560 | 4,72 | 72.9 | 787 | 2581 | 5,03 | 77.5 | 843 | 2765 |
| 16,2 | 250 | Sierra | SBT | 84,8 | 3.339 | N160 | 4,25 | 65.6 | 758 | 2488 | 4,58 | 70.7 | 810 | 2659 |
| | | | | | | N165 | 4,63 | 71.4 | 779 | 2555 | 5,02 | 77.4 | 835 | 2738 |
| | | | | | | N560 | 4,39 | 67.7 | 774 | 2540 | 4,78 | 73.7 | 831 | 2728 |
| 16,2 | 250 | Speer | Grand Slam | 83,8 | 3.299 | N160 | 4,49 | 69.3 | 753 | 2470 | 4,83 | 74.5 | 809 | 2655 |
| | | | | | | N165 | 4,81 | 74.3 | 766 | 2511 | 5,19 | 80.0 | 823 | 2698 |
| 17,8 | 275 | Speer | SP | 85,0 ¹⁾ | 3.346 | N165 | 4,63 | 71.5 | 731 | 2398 | 5,01 | 77.3 | 785 | 2576 |
| 17,8 | 275 | Swift | A-Frame | 86,5 ¹⁾ | 3.406 | N160 | 3,55 | 54.8 | 634 | 2080 | 4,15 | 64.0 | 717 | 2352 |
| | | | | | | N165 | 3,79 | 58.5 | 651 | 2136 | 4,35 | 67.1 | 725 | 2379 |
| | | | | | | N560 | 3,76 | 58.0 | 651 | 2136 | 4,30 | 66.3 | 731 | 2398 |
| 19,4 | 300 | Sierra | HPBT | 84,8 | 3.339 | N160 | 4,06 | 62.7 | 692 | 2270 | 4,43 | 68.3 | 745 | 2445 |
| | | | | | | N560 | 4,20 | 64.7 | 700 | 2295 | 4,66 | 71.9 | 756 | 2479 |
| 19,4 | 300 | Woodleigh | RNSP | 83,5 | 3.287 | N160 | 3,58 | 55.2 | 626 | 2054 | 4,10 | 63.3 | 692 | 2270 |
| | | | | | | N165 | 3,92 | 60.5 | 637 | 2090 | 4,46 | 68.8 | 711 | 2333 |
| | | | | | | N560 | 3,92 | 60.5 | 658 | 2159 | 4,55 | 70.2 | 731 | 2398 |
| F = Case full ¹⁾ The cartridge overall length exceeds the CIP maximum. | | | | | | | | | | | | | | |

| .338 Lapua Magnum | | | | | | Test barrel: | 700 mm (27½"), 1 in 10" twist |
|-------------------|--|--|--|--|--|--------------|---|
| | | | | | | Primers: | Large Rifle Magnum |
| | | | | | | Cases: | Lapua, trim-to length 69,00 mm (2.714") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|---------|--------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 13,0 | 200 | Hornady | SP | 91,0 | 3.583 | N160 | 5,81 | 89.6 | 926 | 3038 | 6,22 | 96.0 | 993 | 3259 |
| | | | | | | N165 | 6,24 | 96.3 | 935 | 3068 | 6,66 | 102.8 | 1005 | 3297 |
| 14,6 | 225 | Hornady | SP | 91,0 | 3.583 | N160 | 5,07 | 78.3 | 830 | 2723 | 5,64 | 87.0 | 900 | 2953 |
| | | | | | | N165 | 5,40 | 83.2 | 839 | 2753 | 6,01 | 92.8 | 915 | 3000 |
| | | | | | | N560 | 5,35 | 82.6 | 865 | 2838 | 5,86 | 90.5 | 934 | 3065 |
| | | | | | | N170 | 5,75 | 88.8 | 847 | 2779 | 6,33 | 97.6 | 917 | 3009 |
| 15,0 | 231 | Lapua | Naturalis LR | 90,5 | 3.563 | N160 | 4,73 | 73.0 | 793 | 2602 | 5,35 | 82.6 | 876 | 2874 |
| | | | | | | N165 | 5,00 | 77.2 | 797 | 2615 | 5,80 | 89.5 | 897 | 2943 |
| | | | | | | N560 | 5,19 | 80.1 | 817 | 2680 | 5,75 | 88.7 | 913 | 2995 |

LIGHT GREY TEXT BOX INDICATES MAXIMUM LOAD - USE WITH CAUTION!
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED

| .338 Lapua Magnum | | | | | | cont. | | | | | | | | |
|-------------------|-------|---------|---------------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 16,2 | 250 | Berger | Hybrid OTM Tactical | 93,5 | 3.681 | N165 | 5,10 | 78.7 | 787 | 2582 | 5,80 | 89.5 | 869 | 2851 |
| | | | | | | N560 | 5,16 | 79.6 | 803 | 2635 | 5,77 | 89.0 | 886 | 2907 |
| | | | | | | N565 | 5,53 | 85.3 | 822 | 2697 | 5,97 | 92.1 | 890 | 2920 |
| | | | | | | N170 | 5,59 | 86.3 | 798 | 2618 | 6,11 | 94.3 | 871 | 2858 |
| | | | | | | N570 | 5,81 | 89.7 | 827 | 2713 | 6,28 | 96.9 | 902 | 2959 |
| 16,2 | 250 | Lapua | LockBase | 91,5 | 3.602 | N165 | 4,89 | 75.5 | 781 | 2562 | 5,67 | 87.5 | 871 | 2858 |
| | | | | | | N560 | 5,04 | 77.8 | 781 | 2562 | 5,71 | 88.1 | 895 | 2936 |
| | | | | | | N565 | 5,22 | 80.6 | 807 | 2648 | 5,89 | 90.9 | 883 | 2897 |
| | | | | | | N170 | 5,36 | 82.7 | 789 | 2589 | 6,23 | 96.1 | 892 | 2927 |
| | | | | | | N570 | 5,60 | 86.4 | 830 | 2723 | 6,22 | 96.0 | 920 | 3018 |
| 16,2 | 250 | Lapua | Scenar | 93,5 | 3.681 | N165 | 4,95 | 76.4 | 782 | 2566 | 5,61 | 86.6 | 864 | 2835 |
| | | | | | | N560 | 4,94 | 76.2 | 778 | 2552 | 5,50 | 84.9 | 884 | 2900 |
| | | | | | | N565 | 5,21 | 80.4 | 803 | 2635 | 5,85 | 90.3 | 878 | 2881 |
| | | | | | | N170 | 5,50 | 84.9 | 797 | 2615 | 6,17 | 95.2 | 883 | 2897 |
| | | | | | | N570 | 5,57 | 86.0 | 829 | 2720 | 6,22 | 96.0 | 920 | 3018 |
| 16,2 | 250 | Swift | A-Frame | 88,8 | 3.496 | N165 | 4,48 | 69.1 | 737 | 2418 | 5,40 | 83.3 | 834 | 2736 |
| | | | | | | N560 | 4,41 | 68.1 | 753 | 2470 | 5,38 | 83.0 | 861 | 2825 |
| | | | | | | N570 | 5,26 | 81.2 | 795 | 2608 | 6,05 | 93.4 | 889 | 2917 |
| 17,2 | 265 | Barnes | LRX BT | 93,2 | 3.670 | N565 | 4,79 | 73.9 | 759 | 2490 | 5,39 | 83.2 | 830 | 2723 |
| 18,1 | 280 | Barnes | LRX BT | 93,5 | 3.681 | N565 | 4,53 | 69.9 | 717 | 2352 | 5,16 | 79.6 | 792 | 2598 |
| 18,5 | 285 | Barnes | TSX | 93,0 | 3.661 | N560 | 4,12 | 63.6 | 684 | 2244 | 4,78 | 73.8 | 772 | 2533 |
| | | | | | | N170 | 4,30 | 66.4 | 654 | 2146 | 5,20 | 80.2 | 768 | 2520 |
| | | | | | | N570 | 4,70 | 72.5 | 728 | 2388 | 5,31 | 81.9 | 806 | 2644 |
| 18,5 | 285 | Hornady | HPBT | 93,5 | 3.681 | N165 | 4,81 | 74.2 | 733 | 2405 | 5,49 | 84.7 | 812 | 2664 |
| | | | | | | N560 | 4,93 | 76.1 | 759 | 2490 | 5,48 | 84.6 | 837 | 2746 |
| | | | | | | N170 | 5,25 | 81.0 | 741 | 2431 | 5,96 | 92.0 | 831 | 2726 |
| | | | | | | N570 | 5,44 | 84.0 | 781 | 2562 | 6,07 | 93.7 | 863 | 2831 |
| 19,4 | 300 | Berger | Elite Hunter | 93,5 | 3.681 | N560 | 4,72 | 72.8 | 720 | 2362 | 5,27 | 81.3 | 790 | 2592 |
| | | | | | | N565 | 4,89 | 75.5 | 724 | 2375 | 5,55 | 85.6 | 804 | 2638 |
| | | | | | | N570 | 5,23 | 80.7 | 744 | 2441 | 5,80 | 89.5 | 815 | 2674 |
| 19,4 | 300 | Berger | HPBT | 93,5 | 3.681 | N560 | 4,64 | 71.6 | 744 | 2441 | 5,34 | 82.4 | 831 | 2726 |
| | | | | | | N170 | 4,62 | 71.3 | 720 | 2362 | 5,68 | 87.7 | 823 | 2700 |
| | | | | | | N570 | 4,24 | 65.4 | 711 | 2333 | 5,55 | 85.6 | 833 | 2733 |
| 19,4 | 300 | Lapua | Scenar | 93,5 | 3.681 | N165 | 4,47 | 69.0 | 685 | 2247 | 5,30 | 81.8 | 785 | 2575 |
| | | | | | | N560 | 4,64 | 71.6 | 709 | 2326 | 5,33 | 82.3 | 814 | 2671 |
| | | | | | | N565 | 5,00 | 77.2 | 732 | 2402 | 5,50 | 84.9 | 799 | 2621 |
| | | | | | | N170 | 4,90 | 75.6 | 712 | 2336 | 5,74 | 88.6 | 811 | 2661 |
| | | | | | | N568 | 5,43 | 83.8 | 742 | 2434 | 6,00 | 92.6 | 811 | 2661 |
| | | | | | | N570 | 5,19 | 80.1 | 732 | 2402 | 5,99 | 92.4 | 837 | 2746 |
| | | | | | | 24N41 | 5,43 | 83.8 | 729 | 2392 | 6,23 | 96.1 | 821 | 2694 |
| 19,4 | 300 | Sierra | HPBT | 91,5 | 3.602 | N165 | 4,57 | 70.5 | 695 | 2281 | 5,20 | 80.2 | 766 | 2513 |
| | | | | | | N560 | 4,70 | 72.5 | 722 | 2370 | 5,37 | 82.8 | 800 | 2624 |
| | | | | | | N170 | 5,15 | 79.4 | 719 | 2360 | 5,86 | 90.4 | 792 | 2599 |
| | | | | | | N570 | 5,39 | 83.2 | 776 | 2546 | 5,92 | 91.3 | 826 | 2710 |
| | | | | | | 24N41 | 5,52 | 85.2 | 735 | 2410 | 6,28 | 96.8 | 809 | 2653 |

| | | |
|----------|--------------|---|
| 9,3 x 62 | Test barrel: | 580 mm (22¾"), 1 in 14" twist |
| | Primers: | Large Rifle |
| | Cases: | Lapua, trim-to length 61,80 mm (2.433") |

| 9,3 x 62 | | | | | | cont. | | | | | | | | |
|----------|-------|-----------|--------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N120 | 2,74 | 42.3 | 760 | 2493 | 2,99 | 46.1 | 819 | 2687 |
| | | | | | | N130 | 3,12 | 48.1 | 799 | 2621 | 3,34 | 51.5 | 838 | 2749 |
| 14,3 | 220 | Lapua | Naturalis LR | 82,0 | 3.228 | N530 | 3,01 | 46.4 | 687 | 2254 | 3,48 | 53.7 | 792 | 2598 |
| | | | | | | N135 | 2,95 | 45.5 | 662 | 2172 | 3,67 | 56.6 | 782 | 2566 |
| | | | | | | N140 | 3,49 | 53.9 | 733 | 2405 | 3,88 | 59.9 | 807 | 2648 |
| 14,6 | 225 | Brenneke | TAG | 82,0 | 3.228 | N530 | 3,16 | 48.8 | 718 | 2356 | 3,52 | 54.3 | 787 | 2582 |
| | | | | | | N540 | 3,62 | 55.9 | 745 | 2444 | 4,04 | 62.3 | 817 | 2680 |
| | | | | | | N150 | 3,61 | 55.7 | 737 | 2418 | 3,97 | 61.3 | 800 | 2625 |
| 16,2 | 250 | Barnes | TTSX BT | 83,6 | 3.291 | N130 | 2,35 | 36.3 | 571 | 1873 | 2,79 | 43.1 | 653 | 2142 |
| | | | | | | N530 | 2,75 | 42.4 | 616 | 2021 | 3,14 | 48.5 | 702 | 2303 |
| | | | | | | N135 | 2,69 | 41.5 | 606 | 1988 | 3,13 | 48.3 | 693 | 2274 |
| | | | | | | N140 | 3,05 | 47.1 | 635 | 2083 | 3,58 | 55.2 | 725 | 2379 |
| | | | | | | N540 | 3,11 | 48.0 | 629 | 2064 | 3,54 | 54.6 | 728 | 2388 |
| 16,2 | 250 | Lapua | Naturalis | 83,4 | 3.283 | N140 | 3,44 | 53.1 | 692 | 2270 | 3,77 | 58.2 | 762 | 2500 |
| | | | | | | N540 | 3,40 | 52.5 | 702 | 2303 | 3,84 | 59.3 | 775 | 2543 |
| | | | | | | N150 | 3,53 | 54.5 | 701 | 2300 | 3,81 | 58.8 | 758 | 2487 |
| 16,2 | 250 | Nosler | Accubond | 82,0 | 3.228 | N530 | 2,99 | 46.1 | 678 | 2224 | 3,32 | 51.2 | 745 | 2444 |
| | | | | | | N140 | 3,37 | 52.0 | 693 | 2274 | 3,73 | 57.6 | 760 | 2493 |
| | | | | | | N540 | 3,46 | 53.4 | 701 | 2300 | 3,98 | 61.4 | 794 | 2605 |
| 16,2 | 250 | Woodleigh | Weldcore | 80,6 | 3.173 | N130 | 2,57 | 39.7 | 622 | 2041 | 3,08 | 47.5 | 707 | 2320 |
| | | | | | | N135 | 3,25 | 50.2 | 676 | 2218 | 3,61 | 55.7 | 747 | 2451 |
| 17,5 | 270 | Lapua | Naturalis | 82,5 | 3.248 | N135 | 2,80 | 43.2 | 642 | 2106 | 3,30 | 50.9 | 699 | 2293 |
| | | | | | | N140 | 3,39 | 52.3 | 673 | 2208 | 3,70 | 57.1 | 733 | 2405 |
| | | | | | | N540 | 3,52 | 54.3 | 679 | 2228 | 3,77 | 58.2 | 731 | 2398 |
| | | | | | | N150 | 3,50 | 54.0 | 684 | 2244 | 3,82 | 58.9 | 745 | 2444 |
| 18,5 | 285 | Lapua | Mega | 82,2 | 3.236 | N135 | 2,85 | 44.0 | 605 | 1985 | 3,14 | 48.5 | 676 | 2218 |
| | | | | | | N140 | 3,00 | 46.3 | 614 | 2014 | 3,39 | 52.3 | 673 | 2208 |
| | | | | | | N540 | 3,05 | 47.1 | 607 | 1991 | 3,50 | 54.0 | 694 | 2277 |
| | | | | | | N150 | 3,17 | 48.9 | 627 | 2057 | 3,60 | 55.6 | 700 | 2297 |
| 18,5 | 286 | Barnes | TSX | 82,5 | 3.248 | N540 | 3,12 | 48.1 | 607 | 1991 | 3,47 | 53.6 | 679 | 2228 |
| | | | | | | N150 | 2,83 | 43.7 | 559 | 1834 | 3,32 | 51.2 | 654 | 2146 |
| | | | | | | N550 | 2,88 | 44.4 | 534 | 1752 | 3,94 | 60.8 | 697 | 2287 |
| 18,5 | 286 | Woodleigh | Weldcore | 82,9 | 3.264 | N130 | 2,40 | 37.0 | 556 | 1824 | 2,84 | 43.8 | 626 | 2054 |
| 19,0 | 293 | Brenneke | TUG | 82,0 | 3.228 | N540 | 3,31 | 51.1 | 635 | 2083 | 3,57 | 55.1 | 697 | 2287 |
| | | | | | | N150 | 3,20 | 49.4 | 619 | 2031 | 3,58 | 55.2 | 681 | 2234 |
| | | | | | | N550 | 3,50 | 54.0 | 638 | 2093 | 3,89 | 60.0 | 703 | 2306 |
| 19,4 | 300 | Swift | A-Frame | 79,9 | 3.146 | N540 | 2,92 | 45.1 | 582 | 1909 | 3,29 | 50.8 | 653 | 2142 |
| | | | | | | N150 | 2,89 | 44.6 | 569 | 1867 | 3,25 | 50.2 | 622 | 2041 |
| | | | | | | N550 | 3,13 | 48.3 | 590 | 1936 | 3,50 | 54.0 | 658 | 2159 |
| 20,7 | 320 | Woodleigh | RNSP | 82,0 | 3.228 | N540 | 3,45 | 53.2 | 630 | 2067 | 3,72 | 57.4 | 684 | 2244 |
| | | | | | | N150 | 3,50 | 54.0 | 627 | 2057 | 3,73 | 57.6 | 675 | 2215 |
| | | | | | | N550 | 3,70 | 57.1 | 636 | 2087 | 4,04 | 62.3 | 700 | 2297 |

| | | | | | | | | | | | | | | |
|---------------|--|--|--|--|--|--------------|--|--|--|--|--|--|--|--|
| 9,3 x 66 Sako | | | | | | Test barrel: | 630 mm (24¾"), 1 in 14" twist | | | | | | | |
| | | | | | | Primers: | Large Rifle | | | | | | | |
| | | | | | | Cases: | Sako, trim-to length 65,80 mm (2.591") | | | | | | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|-------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 17,5 | 270 | Lapua | Naturalis | 85,0 | 3.346 | N140 | 3,40 | 52.5 | 684 | 2244 | 4,00 | 61.7 | 773 | 2536 |
| | | | | | | N540 | 3,84 | 59.3 | 736 | 2415 | 4,15 | 64.0 | 789 | 2589 |
| | | | | | | N550 | 4,13 | 63.7 | 745 | 2444 | 4,37F | 67.4F | 791 | 2595 |
| 19,4 | 300 | Swift | A-Frame | 84,0 | 3.307 | N540 | 3,06 | 47.2 | 622 | 2041 | 3,53 | 54.5 | 689 | 2260 |

LIGHT GREY TEXT BOX INDICATES MAXIMUM LOAD - USE WITH CAUTION!
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED

| 9,3 x 66 Sako | | | | | | cont. | | | | | | | | |
|---------------|-------|-----------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N150 | 3,09 | 47.7 | 599 | 1965 | 3,42 | 52.8 | 670 | 2198 |
| | | | | | | N550 | 3,50 | 54.0 | 658 | 2159 | 3,75 | 57.9 | 702 | 2303 |
| 20,7 | 320 | Woodleigh | RNSP | 85,0 | 3.346 | N540 | 3,47 | 53.5 | 678 | 2224 | 3,91 | 60.3 | 713 | 2339 |
| | | | | | | N150 | 3,44 | 53.1 | 602 | 1975 | 3,80 | 58.6 | 698 | 2290 |
| | | | | | | N550 | 3,70 | 57.1 | 650 | 2133 | 4,25 | 65.6 | 733 | 2405 |
| F = Case full | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | |
|-----------|--|--|--|--|--|--------------|---------------------------------------|--|--|--|--|--|--|--|
| 9,3 x 74R | | | | | | Test barrel: | 610 mm (24"), 1 in 14" twist | | | | | | | |
| | | | | | | Primers: | Large Rifle | | | | | | | |
| | | | | | | Cases: | RWS, trim-to length 74,50 mm (2.933") | | | | | | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--|-------|-----------|----------------|--------------------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 12,5 | 193 | S&B | JFP | 88,9 | 3.500 | N120 | 2,98 | 46.0 | 744 | 2441 | 3,33 | 51.4 | 810 | 2656 |
| | | | | | | N130 | 3,42 | 52.8 | 791 | 2595 | 3,66 | 56.5 | 837 | 2746 |
| 14,3 | 220 | Lapua | Naturalis LR | 94,4 | 3.717 | N530 | 3,04 | 46.9 | 708 | 2323 | 3,40 | 52.5 | 782 | 2566 |
| | | | | | | N135 | 3,02 | 46.6 | 702 | 2303 | 3,50 | 54.0 | 780 | 2559 |
| | | | | | | N140 | 3,39 | 52.3 | 721 | 2365 | 3,88 | 59.9 | 806 | 2644 |
| 15,0 | 231 | Norma | SP | 92,1 | 3.626 | N140 | 3,72 | 57.4 | 718 | 2356 | 4,29 | 66.2 | 810 | 2656 |
| 16,2 | 250 | Lapua | Naturalis N560 | 94,0 | 3.701 | N135 | 2,98 | 46.0 | 676 | 2218 | 3,30 | 50.9 | 731 | 2398 |
| | | | | | | N140 | 3,11 | 48.0 | 686 | 2251 | 3,46 | 53.4 | 740 | 2428 |
| | | | | | | N540 | 3,15 | 48.6 | 690 | 2264 | 3,61 | 55.7 | 759 | 2490 |
| 16,6 | 256 | Sako | SP | 92,2 | 3.630 | N140 | 3,50 | 54.0 | 654 | 2146 | 4,00 | 61.8 | 751 | 2463 |
| 17,5 | 270 | Lapua | Naturalis | 94,0 | 3.701 | N135 | 3,10 | 47.8 | 649 | 2129 | 3,30 | 50.9 | 706 | 2316 |
| | | | | | | N140 | 3,30 | 50.9 | 656 | 2152 | 3,75 | 57.9 | 716 | 2349 |
| | | | | | | N540 | 3,48 | 53.7 | 655 | 2149 | 3,83 | 59.1 | 723 | 2372 |
| 18,5 | 285 | Lapua | Mega | 92,2 | 3.630 | N135 | 2,80 | 43.2 | 576 | 1890 | 3,43 | 52.9 | 665 | 2182 |
| | | | | | | N140 | 3,45 | 53.2 | 636 | 2087 | 3,78 | 58.3 | 694 | 2277 |
| | | | | | | N540 | 3,24 | 50.0 | 618 | 2028 | 3,78 | 58.3 | 701 | 2300 |
| 19,0 | 293 | RWS | TUG | 95,5 ¹⁾ | 3.760 | N140 | 3,42 | 52.7 | 637 | 2088 | 3,72 | 57.4 | 695 | 2281 |
| 19,4 | 300 | Swift | A-Frame | 92,2 | 3.630 | N135 | 2,70 | 41.7 | 547 | 1795 | 2,94 | 45.4 | 593 | 1946 |
| | | | | | | N140 | 2,90 | 44.7 | 562 | 1844 | 3,21 | 49.5 | 613 | 2011 |
| | | | | | | N540 | 3,04 | 46.9 | 575 | 1886 | 3,40 | 52.5 | 636 | 2087 |
| 20,7 | 320 | Woodleigh | RNSP | 94,0 | 3.701 | N135 | 2,90 | 44.7 | 544 | 1785 | 3,18 | 49.1 | 601 | 1972 |
| | | | | | | N140 | 3,08 | 47.5 | 558 | 1831 | 3,37 | 52.0 | 610 | 2001 |
| | | | | | | N540 | 3,15 | 48.6 | 571 | 1873 | 3,48 | 53.7 | 630 | 2067 |
| 1) The cartridge overall length exceeds the CIP maximum. | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | |
|-----------------|--|--|--|--|--|--------------|---|--|--|--|--|--|--|--|
| .375 H&H Magnum | | | | | | Test barrel: | 620 mm (24½"), 1 in 12" twist | | | | | | | |
| | | | | | | Primers: | Large Rifle Magnum | | | | | | | |
| | | | | | | Cases: | Remington, trim-to length 72,20 mm (2.842") | | | | | | | |

| Bullet |
|--------|
|--------|

| .375 H&H Magnum | | | | | | cont. | | | | | | | | |
|-----------------|-------|-----------|------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N150 | 4,25 | 65.6 | 723 | 2372 | 4,71 | 72.7 | 796 | 2612 |
| 17,5 | 270 | Speer | SP | 91,0 | 3.583 | N140 | 4,00 | 61.7 | 718 | 2356 | 4,57 | 70.5 | 805 | 2641 |
| | | | | | | N540 | 4,32 | 66.7 | 767 | 2516 | 4,71 | 72.7 | 825 | 2707 |
| | | | | | | N150 | 4,36 | 67.3 | 769 | 2523 | 4,87 | 75.1 | 830 | 2723 |
| 17,5 | 270 | Woodleigh | RNSP | 91,0 | 3.583 | N135 | 3,85 | 59.4 | 707 | 2320 | 4,27 | 65.9 | 771 | 2530 |
| | | | | | | N540 | 4,45 | 68.7 | 766 | 2513 | 4,85 | 74.8 | 827 | 2713 |
| | | | | | | N150 | 4,20 | 64.8 | 735 | 2411 | 4,70 | 72.5 | 799 | 2621 |
| 18,5 | 285 | Speer | Grand Slam | 91,0 | 3.583 | N140 | 3,90 | 60.2 | 665 | 2182 | 4,41 | 68.0 | 784 | 2572 |
| | | | | | | N540 | 4,22 | 65.1 | 732 | 2402 | 4,60 | 71.0 | 790 | 2592 |
| | | | | | | N150 | 4,21 | 65.0 | 733 | 2405 | 4,69 | 72.4 | 792 | 2598 |
| 19,4 | 300 | Swift | A-Frame | 91,0 | 3.583 | N140 | 3,75 | 57.9 | 657 | 2156 | 4,27 | 65.9 | 736 | 2415 |
| | | | | | | N540 | 4,02 | 62.0 | 692 | 2270 | 4,34 | 67.0 | 743 | 2438 |
| | | | | | | N150 | 3,70 | 57.1 | 650 | 2133 | 4,24 | 65.4 | 726 | 2382 |

| .416 Rigby | | | | | | Test barrel: | 620 mm (24½”), 1 in 12” twist | | | | | | | |
|------------|--|--|--|--|--|--------------|---|--|--|--|--|--|--|--|
| | | | | | | Primers: | Large Rifle Magnum | | | | | | | |
| | | | | | | Cases: | Norma, trim-to length 73,40 mm (2.890”) | | | | | | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|-----------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 22,7 | 350 | Swift | A-Frame | 92,0 | 3.622 | N160 | 5,45 | 84.1 | 679 | 2228 | 5,95 | 91.8 | 736 | 2415 |
| | | | | | | N165 | 5,55 | 85.6 | 682 | 2238 | 6,25 | 96.4 | 747 | 2451 |
| | | | | | | N560 | 5,73 | 88.4 | 685 | 2247 | 6,02 | 92.9 | 728 | 2388 |
| 25,9 | 400 | Barnes | XFB | 94,5 | 3.720 | N160 | 4,70 | 72.5 | 599 | 1965 | 5,40 | 83.3 | 660 | 2165 |
| | | | | | | N165 | 5,83 | 90.0 | 631 | 2070 | 5,97 | 92.1 | 662 | 2172 |
| | | | | | | N560 | 5,10 | 78.7 | 622 | 2041 | 5,43 | 83.8 | 661 | 2169 |
| 25,9 | 400 | Swift | A-Frame | 92,0 | 3.622 | N160 | 4,85 | 74.8 | 611 | 2005 | 5,36 | 82.7 | 672 | 2205 |
| | | | | | | N165 | 5,45 | 84.1 | 651 | 2136 | 5,91 | 91.2 | 698 | 2290 |
| | | | | | | N560 | 5,00 | 77.2 | 616 | 2021 | 5,54 | 85.5 | 660 | 2165 |
| 26,6 | 410 | Woodleigh | RNSP | 92,5 | 3.642 | N160 | 5,43 | 83.8 | 637 | 2090 | 5,80 | 89.5 | 695 | 2280 |
| | | | | | | N165 | 5,93 | 91.5 | 660 | 2165 | 6,42 | 99.1 | 720 | 2362 |
| | | | | | | N560 | 5,86 | 90.4 | 655 | 2149 | 6,28 | 96.9 | 711 | 2333 |
| 29,2 | 450 | Woodleigh | RNSP | 94,5 | 3.720 | N160 | 5,20 | 80.2 | 614 | 2014 | 5,67 | 87.5 | 663 | 2175 |
| | | | | | | N165 | 5,83 | 90.0 | 631 | 2070 | 6,17 | 95.2 | 682 | 2238 |
| | | | | | | N560 | 5,70 | 88.0 | 633 | 2077 | 6,14 | 94.7 | 680 | 2231 |

| .444 Marlin | | | | | | Test barrel: | 560 mm (22”), 1 in 38” twist | | | | | | | |
|-------------|--|--|--|--|--|--------------|---|--|--|--|--|--|--|--|
| | | | | | | Primers: | Large Rifle | | | | | | | |
| | | | | | | Cases: | Remington, trim-to length 56,30 mm (2.216”) | | | | | | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|---------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 13,0 | 200 | Hornady | HP/XTP | 64,4 | 2.535 | N110 | 2,66 | 41.0 | 720 | 2362 | 3,05 | 47.1 | 797 | 2613 |
| | | | | | | N120 | 3,28 | 50.6 | 782 | 2565 | 3,75 | 57.8 | 869 | 2851 |
| 15,6 | 240 | Hornady | JTC-Sil | 64,5 | 2.539 | N120 | 2,91 | 44.9 | 684 | 2243 | 3,43 | 53.0 | 780 | 2560 |
| | | | | | | N130 | 3,23 | 49.8 | 697 | 2286 | 3,68 | 56.8 | 780 | 2558 |
| 17,2 | 265 | Hornady | FP | 65,0 | 2.559 | N120 | 2,82 | 43.5 | 649 | 2129 | 3,27 | 50.5 | 736 | 2415 |
| | | | | | | N130 | 3,09 | 47.7 | 657 | 2157 | 3,45 | 53.2 | 732 | 2401 |

| .45-70 Government | | | | | | Test barrel: | 560 mm (22”), 1 in 20” twist | | | | | | | |
|-------------------|--|--|--|--|--|--------------|---|--|--|--|--|--|--|--|
| | | | | | | Primers: | Large Rifle | | | | | | | |
| | | | | | | Cases: | Remington, trim-to length 53,30 mm (2.098”) | | | | | | | |

WARNING: These loads are to be used only in modern rifles like Ruger #1 or .45-70’s chambered on Mauser type bolt actions. They MUST NOT be used in old rifles with weaker actions like Trapdoor and old Marlin mod. 1895. The listed maximum loads do not exceed 210 MPa.

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|---------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 19,4 | 300 | Barnes | TSX FN | 64,7 | 2.547 | N120 | 2,45 | 37.8 | 502 | 1647 | 2,91 | 44.9 | 594 | 1949 |
| | | | | | | N530 | 3,02 | 46.6 | 460 | 1509 | 3,40 | 52.5 | 569 | 1867 |
| 19,4 | 300 | Barnes | XFN | 64,8 | 2.551 | N130 | 3,10 | 47.8 | 547 | 1795 | 3,37 | 52.0 | 602 | 1975 |
| 19,4 | 300 | Sierra | FN HP | 64,7 | 2.547 | N120 | 2,95 | 45.5 | 579 | 1900 | 3,25 | 50.2 | 651 | 2136 |
| | | | | | | N130 | 3,38 | 52.2 | 609 | 1998 | 3,70 | 57.1 | 686 | 2251 |
| | | | | | | N530 | 3,65 | 56.3 | 596 | 1955 | 3,90 | 60.2 | 652 | 2139 |
| 22,7 | 350 | Hornady | RN | 64,7 | 2.547 | N130 | 3,11 | 48.0 | 522 | 1713 | 3,46 | 53.4 | 614 | 2014 |
| | | | | | | N133 | 3,26 | 50.3 | 507 | 1663 | 3,72 | 57.4 | 621 | 2037 |
| | | | | | | N530 | 3,45 | 53.2 | 509 | 1670 | 3,82 | 58.9 | 606 | 1988 |
| 25,9 | 400 | Speer | FN | 64,7 | 2.547 | N130 | 2,90 | 44.7 | 489 | 1604 | 3,22 | 49.7 | 559 | 1834 |
| | | | | | | N133 | 3,06 | 47.2 | 485 | 1591 | 3,40 | 52.5 | 574 | 1883 |
| | | | | | | N530 | 3,20 | 49.4 | 478 | 1568 | 3,52 | 54.3 | 568 | 1864 |

| .458 Winchester Magnum | | | | | | Test barrel: | 635 mm (25”), 1 in 14” twist | | | | | | | |
|------------------------|--|--|--|--|--|--------------|--|--|--|--|--|--|--|--|
| | | | | | | Primers: | Large Rifle Magnum | | | | | | | |
| | | | | | | Cases: | Winchester, trim-to length 63,30 mm (2.492”) | | | | | | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|---------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 22,7 | 350 | Hornady | RN | 74,9 | 2.949 | N120 | 4,13 | 63.7 | 712 | 2336 | 4,53 | 69.9 | 748 | 2454 |
| | | | | | | N130 | 4,46 | 68.8 | 730 | 2395 | 4,80 | 74.1 | 773 | 2536 |
| | | | | | | N133 | 4,72 | 72.8 | 730 | 2395 | 4,90F | 75.6F | 756 | 2480 |
| 25,9 | 400 | Barnes | XFB | 83,0 | 3.268 | N130 | 4,00 | 61.7 | 631 | 2070 | 4,36 | 67.3 | 688 | 2257 |
| | | | | | | N530 | 4,50 | 69.4 | 645 | 2116 | 4,70F | 72.5F | 674 | 2211 |
| | | | | | | N135 | 4,30 | 66.3 | 625 | 2051 | 4,42F | 68.2F | 644 | 2113 |
| 25,9 | 400 | Swift | A-Frame | 82,0 | 3.228 | N130 | 4,30 | 66.3 | 674 | 2211 | 4,55 | 70.2 | 710 | 2329 |
| | | | | | | N530 | 4,90 | 75.6 | 691 | 2267 | 5,10F | 78.7F | 722 | 2369 |
| | | | | | | N135 | 4,80 | 74.1 | 677 | 2221 | 4,90F | 75.6F | 692 | 2270 |
| 32,4 | 500 | Hornady | RN | 84,0 | 3.307 | N130 | 3,60 | 55.5 | 557 | 1827 | 4,11 | 63.4 | 623 | 2044 |
| | | | | | | N133 | 3,85 | 59.4 | 564 | 1850 | 4,52 | 69.7 | 645 | 2116 |
| | | | | | | N530 | 4,20 | 64.8 | 589 | 1932 | 4,76 | 73.4 | 655 | 2149 |

F = Case full

| .50 Browning | | | | | | Test barrel: | 1140 mm (45”), 1 in 16½” twist | | | | | | | |
|--------------|--|--|--|--|--|--------------|---------------------------------------|--|--|--|--|--|--|--|
| | | | | | | Primers: | CCI35 | | | | | | | |
| | | | | | | Cases: | IMI, trim-to length 99,10 mm (3.902”) | | | | | | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|-------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 41,9 | 647 | Speer | FMJBT | 137,5 | 5.413 | N170 | 13,03 | 201.1 | 801 | 2629 | 14,76 | 227.8 | 894 | 2932 |
| | | | | | | 24N41 | 13,86 | 213.8 | 819 | 2688 | 14,72 | 227.2 | 888 | 2915 |
| | | | | | | 20N29 | 15,53 | 239.7 | 836 | 2744 | 16,61 | 256.3 | 922 | 3024 |

| .50 Browning | | | | | | cont. | | | | | | | | |
|--------------|-------|---------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 45,4 | 700 | Barnes | Solid | 137,5 | 5.413 | 24N41 | 13,69 | 211.2 | 808 | 2652 | 15,00 | 231.5 | 887 | 2910 |
| | | | | | | 20N29 | 15,27 | 235.6 | 819 | 2687 | 16,61 | 256.3 | 908 | 2978 |
| 48,6 | 750 | Barnes | Solid | 137,5 | 5.413 | 24N41 | 13,26 | 204.6 | 768 | 2520 | 14,54 | 224.4 | 858 | 2815 |
| | | | | | | 20N29 | 14,64 | 226.0 | 782 | 2565 | 16,23 | 250.5 | 871 | 2857 |
| 48,6 | 750 | Hornady | A-MAX | 137,5 | 5.413 | N170 | 12,31 | 190.0 | 759 | 2490 | 13,99 | 215.8 | 842 | 2763 |
| | | | | | | 24N41 | 12,97 | 200.2 | 764 | 2508 | 14,13 | 218.0 | 843 | 2765 |
| | | | | | | 20N29 | 14,59 | 225.2 | 779 | 2556 | 15,97 | 246.4 | 862 | 2829 |
| 48,6 | 750 | Lapua | Bullex-N | 138,0 | 5.433 | 24N41 | 13,83 | 213.4 | 798 | 2618 | 14,93 | 230.4 | 865 | 2838 |
| | | | | | | 20N29 | 15,57 | 240.3 | 826 | 2710 | 16,58 | 255.9 | 895 | 2936 |
| 51,8 | 800 | Barnes | Solid | 137,5 | 5.413 | 24N41 | 11,79 | 181.9 | 722 | 2369 | 12,84 | 198.1 | 790 | 2592 |
| | | | | | | 20N29 | 14,19 | 219.1 | 779 | 2557 | 15,88 | 245.0 | 850 | 2788 |
| 51,8 | 800 | Lapua | Bullex-N | 137,5 | 5.413 | 24N41 | 12,93 | 199.5 | 756 | 2480 | 14,23 | 219.6 | 826 | 2710 |
| | | | | | | 20N29 | 14,95 | 230.7 | 796 | 2612 | 15,79 | 243.7 | 857 | 2812 |
| 55,1 | 850 | Barnes | Solid | 137,5 | 5.413 | 24N41 | 12,34 | 190.5 | 716 | 2349 | 13,50 | 208.3 | 784 | 2573 |
| | | | | | | 20N29 | 13,91 | 214.7 | 746 | 2447 | 15,42 | 238.0 | 828 | 2716 |

HANDGUN RELOADING DATA

Disclaimer

All of this reloading information has been provided by Nammo Lapua Oy and Nammo Vihtavuori Oy. The data given here were obtained in laboratory conditions following strictly the CIP (Commission International Permanente) June 13, 1990 and November 9, 1993 rules. The listed maximum loads have been determined according to the respective CIP/SAAMI maximum pressure specification, whichever is lower.

These test methods have been deemed to be safe throughout the world. Pressure is measured at the case mouth or from inside the case according to the CIP.

DO NOT ATTEMPT ANY EXTRAPOLATIONS. PLEASE FOLLOW THE DATA AS WRITTEN. IT IS A MUST FOR EVERY RELOADER TO READ THE RELOADING SAFETY RULES ON THE PAGES 16 AND 17 OF THIS GUIDE.

| | | |
|----------|--------------|---|
| 7 mm TCU | Test barrel: | 360 mm (14"), 1 in 10" twist |
| | Primers: | Small Rifle |
| | Cases: | Necked-up Lapua .223 Rem., trim-to length 44,50 mm (1.752") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|---------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 6,5 | 100 | Hornady | HP | 62,5 | 2.461 | N120 | 1,48 | 22.8 | 667 | 2188 | 1,64 | 25.3 | 744 | 2441 |
| | | | | | | N130 | 1,62 | 25.0 | 672 | 2205 | 1,79 | 27.6 | 753 | 2470 |
| | | | | | | N133 | 1,77 | 27.3 | 695 | 2280 | 1,96 | 30.2 | 774 | 2539 |
| 7,8 | 120 | Hornady | SSSP | 63,5 | 2.500 | N120 | 1,32 | 20.4 | 606 | 1988 | 1,45 | 22.4 | 655 | 2149 |
| | | | | | | N130 | 1,45 | 22.4 | 610 | 2001 | 1,61 | 24.8 | 673 | 2208 |
| | | | | | | N133 | 1,62 | 25.0 | 630 | 2067 | 1,81 | 27.9 | 701 | 2300 |
| 8,4 | 130 | Speer | Spitzer | 65,0 | 2.559 | N120 | 1,24 | 19.1 | 542 | 1778 | 1,38 | 21.3 | 596 | 1955 |
| | | | | | | N130 | 1,40 | 21.6 | 573 | 1880 | 1,55 | 23.9 | 626 | 2054 |
| | | | | | | N133 | 1,46 | 22.5 | 576 | 1890 | 1,62 | 25.0 | 633 | 2077 |
| 9,7 | 150 | Sierra | SBT | 65,0 | 2.559 | N120 | 1,17 | 18.1 | 513 | 1683 | 1,30 | 20.1 | 562 | 1844 |
| | | | | | | N130 | 1,31 | 20.2 | 535 | 1755 | 1,45 | 22.4 | 586 | 1923 |
| | | | | | | N133 | 1,38 | 21.3 | 542 | 1778 | 1,53 | 23.6 | 599 | 1965 |
| | | | | | | N135 | 1,44 | 22.2 | 538 | 1765 | 1,60 | 24.7 | 597 | 1959 |
| 10,4 | 160 | Sierra | SBT | 66,0 | 2.598 | N120 | 1,12 | 17.3 | 480 | 1575 | 1,25 | 19.3 | 531 | 1742 |
| | | | | | | N130 | 1,26 | 19.4 | 505 | 1657 | 1,41 | 21.8 | 558 | 1831 |
| | | | | | | N133 | 1,31 | 20.2 | 511 | 1677 | 1,45 | 22.4 | 559 | 1834 |
| | | | | | | N135 | 1,45 | 22.4 | 531 | 1742 | 1,61 | 24.8 | 582 | 1909 |
| | | | | | | N540 | 1,48 | 22.8 | 544 | 1785 | 1,63 | 25.2 | 598 | 1962 |

NOTE: This cartridge is not supported by CIP or SAAMI. The maximum loads do not exceed 300 MPa.

7 mm BR Remington

| | |
|--------------|---|
| Test barrel: | 375 mm (14½"), 1 in 10" twist |
| Primers: | Small Rifle |
| Cases: | Remington, trim-to length 38,40 mm (1.512") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|---------|---------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 6,5 | 100 | Hornady | HP | 56,0 | 2.205 | N120 | 1,82 | 28.0 | 774 | 2539 | 1,93 | 29.8 | 829 | 2720 |
| | | | | | | N130 | 1,97 | 30.5 | 783 | 2568 | 2,10 | 32.4 | 838 | 2749 |
| 7,8 | 120 | Hornady | SSSP | 56,6 | 2.228 | N120 | 1,67 | 25.8 | 687 | 2255 | 1,80 | 27.8 | 738 | 2421 |
| | | | | | | N130 | 1,81 | 27.9 | 707 | 2318 | 1,94 | 29.9 | 784 | 2572 |
| | | | | | | N133 | 1,94 | 30.0 | 714 | 2343 | 2,11 | 32.6 | 771 | 2530 |
| 9,1 | 140 | Nosler | Ballistic Tip | 60,3 | 2.374 | N120 | 1,45 | 22.4 | 595 | 1954 | 1,58 | 24.4 | 640 | 2100 |
| | | | | | | N130 | 1,62 | 25.0 | 612 | 2006 | 1,73 | 26.7 | 661 | 2169 |
| | | | | | | N133 | 1,71 | 26.3 | 623 | 2044 | 1,84 | 28.4 | 671 | 2201 |
| 9,7 | 150 | Nosler | Ballistic Tip | 60,3 | 2.374 | N120 | 1,42 | 21.9 | 576 | 1890 | 1,54 | 23.8 | 619 | 2031 |
| | | | | | | N130 | 1,54 | 23.8 | 589 | 1931 | 1,67 | 25.8 | 635 | 2083 |
| | | | | | | N133 | 1,62 | 25.1 | 595 | 1952 | 1,77 | 27.3 | 642 | 2106 |
| | | | | | | N135 | 1,75 | 27.0 | 606 | 1988 | 1,87 | 28.9 | 650 | 2133 |
| 10,4 | 160 | Sierra | HPBT | 59,7 | 2.350 | N120 | 1,30 | 20.1 | 539 | 1770 | 1,42 | 21.9 | 580 | 1903 |
| | | | | | | N130 | 1,42 | 21.9 | 559 | 1834 | 1,55 | 23.9 | 602 | 1975 |
| | | | | | | N133 | 1,56 | 24.1 | 575 | 1886 | 1,69 | 26.1 | 619 | 2031 |
| | | | | | | N135 | 1,67 | 25.8 | 588 | 1929 | 1,79 | 27.6 | 630 | 2067 |

7 mm GJW

| | |
|--------------|--|
| Test barrel: | 380 mm (15"), 1 in 8" twist |
| Primers: | Small Rifle |
| Cases: | Munitionsfabrik Thun, trim-to length 48,80 mm (1.920") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|--------|---------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 9,7 | 150 | Nosler | Ballistic Tip | 75,0 | 2.953 | N130 | 1,58 | 24.4 | 613 | 2013 | 1,67 | 25.8 | 642 | 2106 |
| | | | | | | N133 | 1,65 | 25.5 | 614 | 2013 | 1,74 | 26.8 | 644 | 2113 |
| | | | | | | N135 | 1,78 | 27.5 | 629 | 2065 | 1,86 | 28.7 | 658 | 2159 |
| 10,9 | 168 | Sierra | HPBT | 75,0 | 2.953 | N130 | 1,54 | 23.7 | 583 | 1913 | 1,63 | 25.2 | 611 | 2005 |
| | | | | | | N133 | 1,62 | 25.1 | 587 | 1927 | 1,71 | 26.4 | 617 | 2024 |
| | | | | | | N135 | 1,76 | 27.1 | 605 | 1984 | 1,83 | 28.2 | 631 | 2070 |
| | | | | | | N140 | 1,83 | 28.2 | 607 | 1991 | 1,91 | 29.5 | 636 | 2087 |

7,62 x 25 Tokarev

| | |
|--------------|---|
| Test barrel: | 150 mm (6"), 1 in 10" twist |
| Primers: | Large Pistol |
| Cases: | Fiocchi 7,63 Mauser, trim-to length 24,80 mm (0.976") |

| NOTE: FOR FIREARMS CHAMBERED FOR THE 7,62 x 25 TOKAREV CARTRIDGE ONLY. | | | | | | | | | | | | | | |
|--|-------|--------|-------------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 3,9 | 60 | Speer | HP ²⁾ | 32,0 | 1.260 | N320 | 0,29 | 4.4 | 391 | 1284 | 0,36 | 5.5 | 480 | 1574 |
| | | | | | | N340 | 0,39 | 5.9 | 434 | 1425 | 0,46 | 7.1 | 522 | 1713 |
| 4,6 | 71 | Sierra | FMJ ²⁾ | 33,0 | 1.299 | N340 | 0,36 | 5.5 | 410 | 1345 | 0,43 | 6.7 | 478 | 1569 |
| | | | | | | 3N37 | 0,39 | 6.0 | 412 | 1352 | 0,49 | 7.6 | 493 | 1616 |
| | | | | | | 3N38 | 0,53 | 8.1 | 471 | 1546 | 0,61 | 9.5 | 521 | 1708 |
| 4,8 | 74 | Lapua | FMJ ¹⁾ | 33,0 | 1.299 | N340 | 0,35 | 5.5 | 406 | 1331 | 0,43 | 6.6 | 471 | 1546 |
| | | | | | | 3N37 | 0,39 | 5.9 | 403 | 1322 | 0,49 | 7.6 | 478 | 1569 |
| 5,8 | 90 | Sierra | JHC ²⁾ | 32,5 | 1.280 | N340 | 0,29 | 4.5 | 308 | 1011 | 0,37 | 5.7 | 405 | 1329 |

| 7,62 x 25 Tokarev | | | | | | cont. | | | | | | | | |
|-------------------|-------|-------|-------------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | 3N37 | 0,34 | 5.2 | 340 | 1116 | 0,43 | 6.6 | 416 | 1366 |
| | | | | | | 3N38 | 0,46 | 7.1 | 404 | 1326 | 0,53 | 8.1 | 452 | 1482 |
| 6,0 | 93 | Lapua | FMJ ¹⁾ | 34,0 | 1.339 | N340 | 0,31 | 4.7 | 342 | 1122 | 0,39 | 5.9 | 401 | 1316 |
| | | | | | | 3N37 | 0,33 | 5.1 | 349 | 1146 | 0,46 | 7.1 | 418 | 1370 |
| | | | | | | 3N38 | 0,43 | 6.6 | 378 | 1241 | 0,56 | 8.6 | 445 | 1460 |

¹⁾ Bullet cal. 7,84 mm (0,309") ²⁾ Bullet cal. 7,92 mm (0,312")

.32 S.&W. Long

| | |
|--------------|---|
| Test barrel: | 175 mm (7"), 1 in 18½" twist |
| Primers: | Small Pistol |
| Cases: | Lapua, trim-to length 23,20 mm (0.913") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|-------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 5,4 | 83 | Lapua | LWC | 24,6 | 0.969 | N310 | 0,09 | 1.4 | 231 | 758 | 0,11 | 1.7 | 258 | 846 |
| 6,4 | 98 | Lapua | LRN | 32,3 | 1.272 | N310 | 0,12 | 1.9 | 256 | 840 | 0,14 | 2.2 | 277 | 909 |
| 6,4 | 98 | Lapua | LWC | 24,6 | 0.969 | N310 | 0,07 | 1.1 | 186 | 610 | 0,08 | 1.2 | 208 | 682 |

.32 S&W Long Wad Cut.

| | |
|--------------|---|
| Test barrel: | 150 mm (6"), 1 in 18¾" twist |
| Primers: | Small Pistol |
| Cases: | Lapua, trim-to length 23,20 mm (0.913") |

| Bullet | | | | | Powder | Starting load | | | | Maximum load | | | | |
|--------|-------|-------|-----------|--------|--------|---------------|--------|-------|----------|--------------|--------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 5,4 | 83 | Lapua | LWC | 24,6 | 0.969 | N310 | 0,11 | 1.7 | 246 | 807 | 0,13 | 2.0 | 286 | 938 |
| 6,4 | 98 | Lapua | LWC | 24,6 | 0.969 | N310 | 0,09 | 1.4 | 233 | 764 | 0,12 | 1.9 | 257 | 843 |

9 mm Browning court / .380 Auto

| | |
|--------------|---|
| Test barrel: | 82 mm (3"), 1 in 10" twist |
| Primers: | Small Pistol |
| Cases: | X-Treme Bullets, trim-to length 17,15 mm (0.680") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|-----------|---------------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 5,8 | 90 | Sig Sauer | V-Crown JHP | 25,0 | 0.984 | N310 | 0,16 | 2.5 | 277 | 909 | 0,18 | 2.8 | 293 | 961 |
| | | | | | | N320 | 0,21 | 3.2 | 270 | 886 | 0,23 | 3.5 | 308 | 1010 |
| 5,9 | 90 | Hornady | HP-XTP | 24,9 | 0.980 | N310 | 0,14 | 2.1 | 246 | 807 | 0,17 | 2.6 | 290 | 951 |
| | | | | | | N320 | 0,20 | 3.1 | 266 | 873 | 0,23 | 3.6 | 319 | 1047 |
| | | | | | | N32C | 0,22 | 3.4 | 270 | 886 | 0,23 | 3.6 | 268 | 879 |
| 6,2 | 95 | Speer | TMJ | 25,0 | 0.984 | N310 | 0,15 | 2.3 | 249 | 817 | 0,17 | 2.6 | 282 | 925 |
| | | | | | | N320 | 0,21 | 3.2 | 265 | 869 | 0,23 | 3.5 | 309 | 1014 |
| | | | | | | N330 | 0,24 | 3.7 | 265 | 869 | 0,27 | 4.2 | 315 | 1033 |
| 6,5 | 100 | Berry's | HBRN | 25,0 | 0.984 | N310 | 0,14 | 2.2 | 218 | 715 | 0,16 | 2.5 | 251 | 823 |
| | | | | | | N320 | 0,19 | 2.9 | 250 | 820 | 0,22 | 3.4 | 298 | 978 |
| | | | | | | N330 | 0,22 | 3.4 | 257 | 843 | 0,25 | 3.9 | 295 | 968 |
| 6,5 | 100 | Berry's | Hybrid Hollow Point | 25,0 | 0.984 | N310 | 0,14 | 2.2 | 209 | 686 | 0,17 | 2.6 | 257 | 843 |
| | | | | | | N320 | 0,19 | 2.9 | 241 | 791 | 0,22 | 3.4 | 292 | 958 |
| | | | | | | N330 | 0,23 | 3.5 | 254 | 833 | 0,26 | 4.0 | 296 | 971 |
| 6,5 | 100 | H&N | HP HS | 25,0 | 0.984 | N310 | 0,13 | 2.0 | 232 | 761 | 0,15 | 2.2 | 267 | 876 |
| | | | | | | N320 | 0,18 | 2.8 | 253 | 830 | 0,21 | 3.2 | 300 | 984 |
| 6,5 | 100 | Hornady | FMJ | 25,0 | 0.984 | N310 | 0,13 | 2.0 | 232 | 761 | 0,16 | 2.4 | 270 | 886 |
| | | | | | | N320 | 0,18 | 2.7 | 243 | 797 | 0,21 | 3.2 | 296 | 971 |
| | | | | | | N330 | 0,21 | 3.2 | 243 | 797 | 0,25 | 3.9 | 306 | 1004 |

| 9 mm Browning court / .380 Auto | | | | | | cont. | | | | | | | | |
|---------------------------------|-------|--------------------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 6,5 | 100 | X-Treme Bullets | RNFP | 24,3 | 0.957 | N310 | 0,14 | 2.2 | 247 | 810 | 0,17 | 2.6 | 273 | 896 |
| | | | | | | N320 | 0,18 | 2.8 | 248 | 814 | 0,22 | 3.3 | 297 | 974 |
| | | | | | | N32C | 0,18 | 2.7 | 239 | 784 | 0,22 | 3.4 | 280 | 919 |

| 9 mm Luger / 9x19 mm | | | | | | Test barrel: 100 mm (4"), 1 in 10" twist | | | | | | | | |
|----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | Primers: Small Pistol | | | | | | | | |
| | | | | | | Cases: Lapua, trim-to length 19,00 mm (0.748") | | | | | | | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|------------|-----------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 5,8 | 90 | Hornady | HP-XTP | 27,0 | 1.063 | N310 | 0,26 | 3.9 | 369 | 1212 | 0,27 | 4.2 | 384 | 1260 |
| | | | | | | N320 | 0,31 | 4.8 | 401 | 1316 | 0,34 | 5.3 | 421 | 1380 |
| | | | | | | N330 | 0,36 | 5.6 | 420 | 1379 | 0,39 | 6.1 | 439 | 1440 |
| | | | | | | N340 | 0,36 | 5.5 | 423 | 1387 | 0,40 | 6.2 | 452 | 1483 |
| | | | | | | N350 | 0,42 | 6.4 | 424 | 1391 | 0,47 | 7.2 | 456 | 1496 |
| | | H&N | HP HS | 28,0 | 1.102 | 3N37 | 0,42 | 6.4 | 437 | 1434 | 0,47 | 7.2 | 461 | 1512 |
| 6,5 | 100 | | | | | N310 | 0,21 | 3.2 | 325 | 1066 | 0,25 | 3.9 | 373 | 1224 |
| | | | | | | N320 | 0,27 | 4.2 | 355 | 1165 | 0,31 | 4.8 | 401 | 1316 |
| | | | | | | N330 | 0,32 | 4.9 | 370 | 1214 | 0,37 | 5.6 | 421 | 1381 |
| | | | | | | N340 | 0,31 | 4.8 | 372 | 1220 | 0,37 | 5.7 | 426 | 1398 |
| 6,5 | 100 | Speer | HP | 27,5 | 1.083 | N320 | 0,30 | 4.7 | 373 | 1222 | 0,33 | 5.1 | 398 | 1307 |
| | | | | | | N330 | 0,35 | 5.4 | 393 | 1290 | 0,38 | 5.9 | 416 | 1365 |
| | | | | | | N340 | 0,37 | 5.7 | 393 | 1290 | 0,42 | 6.4 | 429 | 1407 |
| | | | | | | 3N37 | 0,42 | 6.4 | 398 | 1306 | 0,47 | 7.3 | 434 | 1423 |
| 7,5 | 115 | | | | | N320 | 0,18 | 2.8 | 264 | 866 | 0,22 | 3.4 | 308 | 1010 |
| | | Barnes | TAC-XP | 28,6 | 1.126 | N340 | 0,22 | 3.5 | 279 | 915 | 0,27 | 4.1 | 327 | 1073 |
| | | | | | | 3N37 | 0,27 | 4.2 | 291 | 955 | 0,31 | 4.8 | 333 | 1093 |
| | | | | | | 3N38 | 0,32 | 4.9 | 284 | 932 | 0,41C | 6.3C | 343 | 1125 |
| 7,5 | 115 | | | 29,0 | 1.142 | N320 | 0,27 | 4.1 | 319 | 1047 | 0,30 | 4.7 | 361 | 1184 |
| | | | | | | N330 | 0,31 | 4.8 | 334 | 1096 | 0,37 | 5.7 | 384 | 1260 |
| | | Berry´s | HB RN TP | | | N340 | 0,32 | 5.0 | 279 | 915 | 0,37 | 5.8 | 388 | 1273 |
| | | | | | | 3N37 | 0,36 | 5.6 | 341 | 1119 | 0,44 | 6.7 | 396 | 1299 |
| | | | | | | 3N38 | 0,47 | 7.2 | 360 | 1181 | 0,56C | 8.7C | 427 | 1401 |
| 7,5 | 115 | | | 29,0 | 1.142 | N320 | 0,26 | 4.0 | 341 | 1118 | 0,29 | 4.5 | 362 | 1188 |
| | | | | | | N330 | 0,31 | 4.8 | 356 | 1166 | 0,35 | 5.4 | 381 | 1251 |
| | | Hornady | HP-XTP | | | N340 | 0,34 | 5.2 | 365 | 1198 | 0,38 | 5.9 | 397 | 1301 |
| | | | | | | N350 | 0,38 | 5.9 | 373 | 1225 | 0,42 | 6.4 | 396 | 1299 |
| | | | | | | 3N37 | 0,39 | 6.0 | 370 | 1214 | 0,44 | 6.7 | 398 | 1305 |
| 7,5 | 115 | | | 29,0 | 1.142 | N320 | 0,25 | 3.9 | 304 | 997 | 0,29 | 4.5 | 341 | 1119 |
| | | | | | | N330 | 0,29 | 4.5 | 328 | 1076 | 0,35 | 5.4 | 374 | 1227 |
| | | Lapua | FMJ-RN | 29,0 | 1.142 | N340 | 0,31 | 4.8 | 344 | 1129 | 0,35 | 5.4 | 372 | 1220 |
| | | | | | | N350 | 0,35 | 5.4 | 344 | 1129 | 0,42 | 6.5 | 394 | 1293 |
| | | | | | | 3N37 | 0,36 | 5.6 | 344 | 1129 | 0,42 | 6.5 | 393 | 1289 |
| 7,5 | 115 | | | 26,3 | 1.035 | N320 | 0,22 | 3.4 | 280 | 919 | 0,26 | 4.0 | 326 | 1070 |
| | | | | | | N330 | 0,26 | 4.0 | 300 | 984 | 0,32 | 4.9 | 359 | 1178 |
| | | Sierra | JHP | | | N340 | 0,26 | 4.0 | 298 | 978 | 0,32 | 4.9 | 360 | 1181 |
| | | | | | | 3N37 | 0,32 | 4.9 | 312 | 1024 | 0,37 | 5.7 | 362 | 1188 |
| 7,5 | 115 | | | 27,6 | 1.087 | N320 | 0,20 | 3.1 | 238 | 781 | 0,24 | 3.7 | 295 | 968 |
| | | | | | | N330 | 0,24 | 3.7 | 253 | 830 | 0,28 | 4.3 | 312 | 1024 |
| | | | | | | N340 | 0,25 | 3.9 | 263 | 863 | 0,29 | 4.5 | 311 | 1020 |
| | | UP Bullets | Brass Solid PCC | | | N350 | 0,27 | 4.2 | 274 | 899 | 0,31 | 4.8 | 316 | 1037 |
| | | | | | | 3N37 | 0,30 | 4.6 | 261 | 856 | 0,36 | 5.6 | 321 | 1053 |

| 9 mm Luger / 9x19 mm | | | | | | cont. | | | | | | | | |
|----------------------|-------|--------------------|---------------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | 3N38 | 0,36 | 5.6 | 287 | 942 | 0,45 | 6.9 | 340 | 1115 |
| 7,5 | 115 | X-Treme Bullets | RN HPCB | 29,0 | 1.142 | N320 | 0,25 | 3.9 | 298 | 978 | 0,30 | 4.6 | 346 | 1135 |
| | | | | | | N330 | 0,30 | 4.6 | 316 | 1037 | 0,35 | 5.4 | 364 | 1194 |
| | | | | | | N340 | 0,30 | 4.6 | 315 | 1033 | 0,36 | 5.6 | 370 | 1214 |
| | | | | | | N350 | 0,33 | 5.1 | 320 | 1050 | 0,40 | 6.2 | 378 | 1240 |
| | | | | | | 3N37 | 0,35 | 5.4 | 321 | 1053 | 0,42 | 6.5 | 378 | 1240 |
| | | | | | | 3N38 | 0,42 | 6.5 | 335 | 1099 | 0,51 | 7.9 | 396 | 1299 |
| 7,8 | 120 | Lapua | CEPP | 28,7 | 1.130 | N320 | 0,24 | 3.7 | 298 | 978 | 0,28 | 4.3 | 330 | 1083 |
| | | | | | | N330 | 0,29 | 4.5 | 326 | 1070 | 0,33 | 5.1 | 360 | 1181 |
| | | | | | | N340 | 0,29 | 4.5 | 326 | 1070 | 0,34 | 5.2 | 369 | 1211 |
| | | | | | | N350 | 0,34 | 5.2 | 340 | 1115 | 0,38 | 5.9 | 381 | 1250 |
| | | | | | | 3N37 | 0,37 | 5.7 | 346 | 1135 | 0,42 | 6.5 | 390 | 1280 |
| 8,0 | 124 | Alsa Pro | FMJ | 29,0 | 1.142 | N310 | 0,19 | 2.9 | 249 | 817 | 0,22 | 3.4 | 287 | 942 |
| | | | | | | N320 | 0,25 | 3.9 | 291 | 955 | 0,29 | 4.5 | 328 | 1076 |
| | | | | | | N330 | 0,29 | 4.5 | 304 | 997 | 0,34 | 5.2 | 348 | 1142 |
| | | | | | | N340 | 0,30 | 4.6 | 299 | 981 | 0,35 | 5.4 | 353 | 1158 |
| | | | | | | N350 | 0,31 | 4.8 | 301 | 988 | 0,38 | 5.9 | 362 | 1188 |
| | | | | | | 3N37 | 0,36 | 5.6 | 311 | 1020 | 0,42 | 6.5 | 361 | 1184 |
| | | | | | | 3N38 | 0,41 | 6.3 | 320 | 1050 | 0,50 | 7.7 | 379 | 1243 |
| 8,0 | 124 | Berry's | Hybrid Hollow Point | 28,6 | 1.126 | N320 | 0,23 | 3.5 | 278 | 912 | 0,28 | 4.3 | 329 | 1079 |
| | | | | | | N330 | 0,27 | 4.2 | 288 | 945 | 0,32 | 4.9 | 338 | 1109 |
| | | | | | | N340 | 0,27 | 4.2 | 297 | 974 | 0,32 | 4.9 | 340 | 1115 |
| | | | | | | 3N37 | 0,32 | 4.9 | 293 | 961 | 0,38 | 5.9 | 347 | 1138 |
| | | | | | | 3N38 | 0,38 | 5.9 | 311 | 1020 | 0,46 | 7.1 | 363 | 1191 |
| 8,0 | 124 | Hornady | FMJ/FP | 29,0 | 1.142 | N320 | 0,25 | 3.9 | 310 | 1017 | 0,28 | 4.3 | 334 | 1096 |
| | | | | | | N330 | 0,31 | 4.8 | 338 | 1108 | 0,34 | 5.2 | 359 | 1178 |
| | | | | | | N340 | 0,34 | 5.3 | 347 | 1139 | 0,37 | 5.7 | 370 | 1214 |
| | | | | | | N350 | 0,35 | 5.4 | 349 | 1144 | 0,39 | 6.0 | 370 | 1214 |
| | | | | | | 3N37 | 0,39 | 6.1 | 357 | 1172 | 0,42 | 6.5 | 377 | 1236 |
| 8,0 | 124 | Lapua | FMJ-RN | 29,0 | 1.142 | N320 | 0,22 | 3.4 | 290 | 951 | 0,26 | 4.0 | 326 | 1070 |
| | | | | | | N330 | 0,28 | 4.3 | 315 | 1033 | 0,32 | 4.9 | 359 | 1178 |
| | | | | | | N340 | 0,29 | 4.5 | 331 | 1086 | 0,33 | 5.1 | 360 | 1181 |
| | | | | | | N350 | 0,32 | 4.9 | 341 | 1119 | 0,37 | 5.7 | 377 | 1237 |
| | | | | | | 3N37 | 0,34 | 5.2 | 336 | 1102 | 0,40 | 6.2 | 379 | 1243 |
| 8,0 | 124 | X-Treme Bullets | RN HPCB | 29,0 | 1.142 | N320 | 0,24 | 3.7 | 279 | 915 | 0,28 | 4.3 | 325 | 1066 |
| | | | | | | N330 | 0,28 | 4.3 | 299 | 981 | 0,33 | 5.1 | 345 | 1132 |
| | | | | | | N340 | 0,28 | 4.3 | 296 | 971 | 0,33 | 5.1 | 346 | 1135 |
| | | | | | | N350 | 0,31 | 4.8 | 305 | 1001 | 0,36 | 5.6 | 356 | 1168 |
| | | | | | | 3N37 | 0,33 | 5.1 | 307 | 1007 | 0,39 | 6.0 | 359 | 1178 |
| | | | | | | 3N38 | 0,38 | 5.9 | 308 | 1010 | 0,48 | 7.4 | 372 | 1220 |
| 8,1 | 124 | Berry's | HB RN TP | 29,0 | 1.142 | N320 | 0,22 | 3.4 | 270 | 886 | 0,26 | 4.1 | 326 | 1070 |
| | | | | | | N340 | 0,27 | 4.1 | 300 | 984 | 0,32 | 4.9 | 352 | 1155 |
| | | | | | | N350 | 0,29 | 4.5 | 311 | 1020 | 0,34 | 5.2 | 358 | 1175 |
| | | | | | | 3N37 | 0,30 | 4.7 | 309 | 1014 | 0,36 | 5.5 | 361 | 1184 |
| | | | | | | 3N38 | 0,37 | 5.8 | 328 | 1076 | 0,44 | 6.7 | 381 | 1250 |
| 8,1 | 125 | Hornady | HAP | 28,0 | 1.102 | N310 | 0,17 | 2.5 | 236 | 774 | 0,20 | 3.0 | 277 | 909 |
| | | | | | | N320 | 0,21 | 3.2 | 261 | 856 | 0,25 | 3.9 | 312 | 1024 |
| | | | | | | N330 | 0,25 | 3.9 | 283 | 928 | 0,29 | 4.5 | 327 | 1073 |
| | | | | | | N340 | 0,25 | 3.9 | 282 | 925 | 0,30 | 4.6 | 332 | 1089 |
| | | | | | | 3N37 | 0,30 | 4.6 | 289 | 948 | 0,35 | 5.5 | 335 | 1099 |
| 8,1 | 125 | Sierra | JHP | 26,3 | 1.035 | N320 | 0,21 | 3.2 | 273 | 896 | 0,25 | 3.8 | 316 | 1037 |
| | | | | | | N330 | 0,25 | 3.9 | 288 | 945 | 0,29 | 4.5 | 331 | 1086 |
| | | | | | | N340 | 0,24 | 3.7 | 281 | 922 | 0,29 | 4.4 | 324 | 1063 |
| | | | | | | 3N37 | 0,28 | 4.3 | 272 | 892 | 0,34 | 5.2 | 328 | 1076 |

| 9 mm Luger / 9x19 mm | | | | | | cont. | | | | | | | | |
|----------------------|-------|--------------------|---------------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 8,4 | 130 | Sierra | FMJ | 29,0 | 1.142 | N320 | 0,23 | 3.6 | 299 | 981 | 0,26 | 4.0 | 319 | 1046 |
| | | | | | | N330 | 0,26 | 4.0 | 314 | 1031 | 0,29 | 4.5 | 333 | 1094 |
| | | | | | | N340 | 0,28 | 4.4 | 325 | 1066 | 0,31 | 4.8 | 341 | 1119 |
| | | | | | | N350 | 0,33 | 5.2 | 330 | 1083 | 0,36 | 5.5 | 346 | 1135 |
| | | | | | | 3N37 | 0,32 | 4.9 | 325 | 1067 | 0,36 | 5.5 | 344 | 1130 |
| | | | | | | N105 | 0,45 | 7.0 | 351 | 1151 | 0,48 | 7.4 | 375 | 1232 |
| 8,8 | 135 | X-Treme Bullets | RNFP Copper Plated | 28,5 | 1.122 | N320 | 0,19 | 3.0 | 246 | 807 | 0,24 | 3.7 | 298 | 978 |
| | | | | | | N330 | 0,23 | 3.5 | 270 | 886 | 0,28 | 4.3 | 320 | 1050 |
| | | | | | | N340 | 0,24 | 3.7 | 277 | 909 | 0,29 | 4.4 | 329 | 1079 |
| | | | | | | 3N37 | 0,28 | 4.3 | 286 | 938 | 0,34 | 5.2 | 338 | 1109 |
| | | | | | | 3N38 | 0,33 | 5.1 | 295 | 968 | 0,40 | 6.1 | 351 | 1152 |
| 9,1 | 140 | Alsa Pro | RN | 29,0 | 1.142 | N310 | 0,15 | 2.3 | 223 | 732 | 0,18 | 2.7 | 253 | 830 |
| | | | | | | N320 | 0,19 | 2.9 | 247 | 810 | 0,23 | 3.5 | 287 | 942 |
| | | | | | | N330 | 0,23 | 3.5 | 267 | 876 | 0,27 | 4.2 | 308 | 1010 |
| | | | | | | N340 | 0,23 | 3.5 | 274 | 899 | 0,26 | 4.0 | 301 | 988 |
| | | | | | | N350 | 0,25 | 3.9 | 272 | 892 | 0,30 | 4.6 | 316 | 1037 |
| | | | | | | 3N37 | 0,27 | 4.2 | 271 | 889 | 0,32 | 4.9 | 317 | 1040 |
| 9,4 | 145 | H&N | RN | 29,0 | 1.142 | N310 | 0,17 | 2.6 | 242 | 794 | 0,21 | 3.3 | 279 | 915 |
| | | | | | | N320 | 0,20 | 3.1 | 253 | 830 | 0,24 | 3.8 | 295 | 968 |
| | | | | | | N330 | 0,26 | 4.0 | 283 | 928 | 0,30 | 4.6 | 322 | 1056 |
| | | | | | | N340 | 0,27 | 4.1 | 288 | 945 | 0,31 | 4.7 | 322 | 1056 |
| 9,5 | 147 | Berry's | Hybrid Hollow Point | 27,5 | 1.083 | N320 | 0,18 | 2.8 | 235 | 771 | 0,22 | 3.4 | 276 | 906 |
| | | | | | | N330 | 0,22 | 3.4 | 253 | 830 | 0,26 | 4.0 | 292 | 958 |
| | | | | | | N340 | 0,22 | 3.4 | 256 | 840 | 0,26 | 4.0 | 293 | 961 |
| | | | | | | 3N37 | 0,26 | 4.0 | 252 | 827 | 0,32 | 4.9 | 305 | 1001 |
| 9,5 | 147 | Hornady | HP/XTP | 29,0 | 1.142 | N320 | 0,20 | 3.1 | 239 | 784 | 0,25 | 3.9 | 298 | 978 |
| | | | | | | N330 | 0,25 | 3.9 | 294 | 964 | 0,28 | 4.3 | 315 | 1032 |
| | | | | | | N340 | 0,25 | 3.9 | 289 | 948 | 0,28 | 4.3 | 309 | 1015 |
| | | | | | | N350 | 0,29 | 4.5 | 302 | 991 | 0,32 | 5.0 | 326 | 1070 |
| | | | | | | 3N37 | 0,30 | 4.7 | 298 | 979 | 0,33 | 5.1 | 321 | 1052 |
| | | | | | | N105 | 0,40 | 6.1 | 317 | 1039 | 0,41 | 6.4 | 338 | 1108 |
| 9,5 | 147 | X-Treme Bullets | RN Heavy Plate | 29,4 | 1.157 | N310 | 0,15 | 2.3 | 209 | 686 | 0,18 | 2.8 | 249 | 817 |
| | | | | | | N320 | 0,20 | 3.1 | 247 | 810 | 0,24 | 3.7 | 289 | 948 |
| | | | | | | N330 | 0,24 | 3.6 | 262 | 860 | 0,28 | 4.4 | 308 | 1010 |
| | | | | | | N340 | 0,25 | 3.8 | 263 | 863 | 0,29 | 4.5 | 309 | 1014 |
| 9,7 | 150 | Lapua | CEPP | 28,7 | 1.130 | N330 | 0,23 | 3.5 | 264 | 867 | 0,24 | 3.8 | 283 | 929 |
| | | | | | | N340 | 0,24 | 3.8 | 275 | 903 | 0,27 | 4.1 | 294 | 966 |
| | | | | | | N350 | 0,27 | 4.2 | 285 | 936 | 0,30 | 4.6 | 304 | 997 |
| | | | | | | 3N37 | 0,27 | 4.2 | 275 | 904 | 0,30 | 4.7 | 298 | 976 |
| 10,7 | 165 | X-Treme Bullets | RN Copper Plated HP | 28,7 | 1.130 | N320 | 0,17 | 2.6 | 211 | 692 | 0,20 | 3.1 | 250 | 820 |
| | | | | | | N330 | 0,19 | 3.0 | 224 | 735 | 0,23 | 3.5 | 264 | 866 |
| | | | | | | N340 | 0,20 | 3.0 | 227 | 745 | 0,23 | 3.6 | 265 | 869 |
| | | | | | | N350 | 0,22 | 3.4 | 233 | 764 | 0,26 | 4.0 | 275 | 902 |
| | | | | | | 3N37 | 0,23 | 3.5 | 234 | 768 | 0,28 | 4.3 | 277 | 909 |
| | | | | | | 3N38 | 0,28 | 4.4 | 246 | 807 | 0,35 | 5.4 | 299 | 981 |
| | | | | | | N105 | 0,33 | 5.1 | 272 | 892 | 0,39 | 6.0 | 311 | 1020 |

C = Compressed load

| 9 x 23 Winchester | |
|-------------------|--|
| Test barrel: | 130 mm (5"), 1 in 16" twist |
| Primers: | Small Pistol |
| Cases: | Winchester, trim-to length 22,75 mm (0.896") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|--------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 7,5 | 115 | Sierra | FMJ | 32,5 | 1.280 | N340 | 0,41 | 6.3 | 425 | 1395 | 0,46 | 7.2 | 449 | 1474 |
| | | | | | | N350 | 0,48 | 7.4 | 419 | 1374 | 0,57 | 8.8 | 456 | 1496 |
| | | | | | | 3N37 | 0,47 | 7.3 | 424 | 1392 | 0,54 | 8.3 | 462 | 1517 |
| 8,0 | 123 | Lapua | FMJ | 32,5 | 1.280 | N340 | 0,38 | 5.9 | 384 | 1261 | 0,45 | 6.9 | 422 | 1385 |
| | | | | | | N350 | 0,45 | 6.9 | 388 | 1272 | 0,50 | 7.8 | 425 | 1394 |
| | | | | | | 3N37 | 0,43 | 6.6 | 397 | 1302 | 0,48 | 7.5 | 427 | 1400 |

NOTE: This cartridge is not supported by CIP or SAAMI. The maximum loads do not exceed 300 MPa.

| .357 SIG | |
|--------------|--|
| Test barrel: | 130 mm (5"), 1 in 16" twist |
| Primers: | Small Pistol |
| Cases: | Starline, trim-to length 21,80 mm (0.858") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|--------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 6,2 | 95 | Sierra | FMJ | 28,9 | 1.140 | N340 | 0,51 | 7.8 | 461 | 1512 | 0,58 | 8.9 | 504 | 1652 |
| | | | | | | N350 | 0,57 | 8.8 | 469 | 1537 | 0,66 | 10.1 | 518 | 1699 |
| | | | | | | 3N37 | 0,56 | 8.7 | 469 | 1539 | 0,65 | 10.0 | 514 | 1686 |
| 7,5 | 115 | Sierra | FMJ | 28,9 | 1.140 | N340 | 0,41 | 6.3 | 404 | 1325 | 0,50 | 7.7 | 449 | 1473 |
| | | | | | | N350 | 0,47 | 7.3 | 411 | 1347 | 0,56 | 8.6 | 460 | 1509 |
| | | | | | | 3N37 | 0,49 | 7.5 | 416 | 1365 | 0,56 | 8.6 | 458 | 1502 |
| 8,0 | 123 | Lapua | FMJ-RN | 28,9 | 1.140 | N340 | 0,39 | 6.0 | 381 | 1250 | 0,48 | 7.4 | 426 | 1398 |
| | | | | | | N350 | 0,47 | 7.2 | 394 | 1293 | 0,54 | 8.3 | 439 | 1440 |
| | | | | | | 3N37 | 0,47 | 7.2 | 392 | 1287 | 0,54 | 8.3 | 436 | 1431 |

| .38 Super Auto | |
|----------------|--|
| Test barrel: | 140 mm (5½"), 1 in 16" twist |
| Primers: | Small Pistol |
| Cases: | Remington +P, trim-to length 22,70 mm (0.893") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|---------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 7,5 | 115 | Hornady | HP-XTP | 31,5 | 1.240 | N320 | 0,33 | 5.1 | 362 | 1188 | 0,36 | 5.5 | 382 | 1253 |
| | | | | | | N340 | 0,39 | 6.0 | 381 | 1250 | 0,42 | 6.5 | 404 | 1324 |
| | | | | | | N350 | 0,36 | 5.6 | 357 | 1171 | 0,41 | 6.3 | 386 | 1266 |
| | | | | | | 3N37 | 0,42 | 6.5 | 385 | 1263 | 0,47 | 7.2 | 411 | 1347 |
| 7,5 | 115 | Lapua | FMJ | 31,5 | 1.240 | N330 | 0,34 | 5.2 | 350 | 1148 | 0,39 | 6.1 | 394 | 1294 |
| 7,5 | 115 | Sierra | FMJ | 32,4 | 1.276 | N350 | 0,51 | 7.9 | 414 | 1358 | 0,55 | 8.5 | 439 | 1439 |
| | | | | | | 3N37 | 0,48 | 7.4 | 395 | 1296 | 0,51 | 7.9 | 419 | 1375 |
| 8,0 | 123 | Lapua | FMJ | 31,5 | 1.240 | N330 | 0,32 | 4.9 | 362 | 1188 | 0,37 | 5.8 | 382 | 1254 |
| 8,0 | 124 | Hornady | FMJ-FP | 32,0 | 1.260 | N320 | 0,30 | 4.6 | 330 | 1083 | 0,33 | 5.0 | 348 | 1142 |
| | | | | | | N330 | 0,36 | 5.6 | 363 | 1191 | 0,42 | 6.4 | 409 | 1340 |
| | | | | | | N340 | 0,39 | 6.0 | 368 | 1207 | 0,43 | 6.6 | 391 | 1281 |
| | | | | | | N350 | 0,41 | 6.3 | 366 | 1201 | 0,45 | 6.9 | 389 | 1275 |
| | | | | | | 3N37 | 0,46 | 7.1 | 374 | 1227 | 0,48 | 7.4 | 388 | 1271 |
| | | | | | | N105 | 0,64 | 9.9 | 429 | 1407 | 0,67 | 10.4 | 458 | 1501 |
| 8,4 | 130 | Sierra | FMJ | 32,0 | 1.260 | N320 | 0,27 | 4.2 | 317 | 1040 | 0,30 | 4.6 | 336 | 1101 |

| .38 Super Auto | | | | | | cont. | | | | | | | | |
|----------------|-------|---------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N330 | 0,32 | 4.9 | 323 | 1060 | 0,37 | 5.6 | 359 | 1178 |
| | | | | | | N340 | 0,36 | 5.6 | 349 | 1145 | 0,39 | 5.9 | 367 | 1202 |
| | | | | | | 3N37 | 0,41 | 6.3 | 360 | 1181 | 0,44 | 6.8 | 380 | 1245 |
| | | | | | | N105 | 0,60 | 9.3 | 402 | 1319 | 0,63 | 9.6 | 423 | 1388 |
| 9,5 | 147 | Hornady | HP/XTP | 32,0 | 1.260 | N340 | 0,33 | 5.1 | 315 | 1033 | 0,36 | 5.5 | 335 | 1097 |
| | | | | | | N350 | 0,37 | 5.7 | 327 | 1073 | 0,40 | 6.1 | 346 | 1134 |
| | | | | | | 3N37 | 0,38 | 5.9 | 334 | 1096 | 0,41 | 6.3 | 353 | 1158 |
| | | | | | | N105 | 0,51 | 7.9 | 360 | 1181 | 0,53 | 8.2 | 377 | 1237 |

| .38 Special | | | | | | Test barrel: | 170 mm (6½"), 1 in 18" twist |
|-------------|--|--|--|--|--|--------------|--|
| | | | | | | Primers: | Small Pistol |
| | | | | | | Cases: | Starline, trim-to length 29,10 mm (1.146") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|---------|---------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 5,5 | 85 | H&N | WC H-HB | 29,5 | 1.161 | N310 | 0,22 | 3.4 | 277 | 909 | 0,30 | 4.6 | 351 | 1152 |
| | | | | | | N320 | 0,30 | 4.6 | 283 | 928 | 0,36 | 5.6 | 357 | 1171 |
| | | | | | | N32C | 0,29 | 4.5 | 281 | 922 | 0,38 | 5.9 | 324 | 1063 |
| 7,1 | 110 | Hornady | HP/XTP | 36,5 | 1.437 | N320 | 0,35 | 5.4 | 342 | 1120 | 0,40 | 6.1 | 388 | 1272 |
| | | | | | | N340 | 0,40 | 6.2 | 345 | 1130 | 0,45 | 6.9 | 386 | 1267 |
| | | | | | | N350 | 0,43 | 6.6 | 355 | 1165 | 0,50 | 7.7 | 398 | 1305 |
| | | | | | | 3N37 | 0,48 | 7.3 | 353 | 1156 | 0,53 | 8.2 | 399 | 1308 |
| 8,1 | 125 | Berry´s | Flat Point | 38,0 | 1.496 | N310 | 0,31 | 4.7 | 283 | 928 | 0,36 | 5.5 | 345 | 1132 |
| | | | | | | N320 | 0,35 | 5.4 | 317 | 1040 | 0,41 | 6.3 | 375 | 1230 |
| | | | | | | N32C | 0,51 | 7.8 | 333 | 1093 | 0,53 | 8.2 | 343 | 1125 |
| | | | | | | N340 | 0,42 | 6.5 | 344 | 1129 | 0,47 | 7.2 | 393 | 1289 |
| 8,1 | 125 | Hornady | FP/XTP | 36,5 | 1.437 | N320 | 0,32 | 4.9 | 299 | 981 | 0,37 | 5.6 | 342 | 1121 |
| | | | | | | N340 | 0,38 | 5.8 | 318 | 1042 | 0,43 | 6.7 | 359 | 1178 |
| | | | | | | N350 | 0,42 | 6.5 | 323 | 1058 | 0,49 | 7.5 | 373 | 1224 |
| | | | | | | 3N37 | 0,44 | 6.8 | 319 | 1045 | 0,49 | 7.5 | 367 | 1204 |
| 9,1 | 140 | Speer | HP | 36,5 | 1.437 | N320 | 0,30 | 4.6 | 268 | 878 | 0,35 | 5.3 | 320 | 1051 |
| | | | | | | N340 | 0,36 | 5.6 | 275 | 902 | 0,41 | 6.2 | 329 | 1079 |
| | | | | | | N350 | 0,40 | 6.2 | 282 | 925 | 0,45 | 6.9 | 336 | 1102 |
| | | | | | | 3N37 | 0,41 | 6.2 | 282 | 925 | 0,46 | 7.1 | 341 | 1117 |
| 9,5 | 146 | Speer | JHP | 35,0 | 1.378 | N340 | 0,30 | 4.6 | 261 | 856 | 0,35 | 5.4 | 306 | 1004 |
| | | | | | | N350 | 0,34 | 5.2 | 265 | 869 | 0,39 | 5.9 | 308 | 1010 |
| | | | | | | 3N37 | 0,35 | 5.4 | 263 | 863 | 0,40 | 6.1 | 310 | 1018 |
| 9,6 | 148 | Berry´s | Double End WC | 29,5 | 1.161 | N310 | 0,19 | 2.9 | 172 | 564 | 0,22 | 3.4 | 233 | 764 |
| | | | | | | N320 | 0,24 | 3.7 | 230 | 755 | 0,27 | 4.2 | 284 | 932 |
| | | | | | | N32C | 0,28 | 4.3 | 242 | 794 | 0,31 | 4.7 | 274 | 899 |
| | | | | | | N340 | 0,29 | 4.5 | 258 | 846 | 0,32 | 4.9 | 305 | 1001 |
| 9,6 | 148 | Sako | LWC | 30,0 | 1.181 | N320 | 0,20 | 3.0 | 237 | 776 | 0,23 | 3.5 | 267 | 876 |
| | | | | | | N330 | 0,22 | 3.3 | 239 | 784 | 0,25 | 3.8 | 277 | 910 |
| | | | | | | N340 | 0,24 | 3.6 | 248 | 812 | 0,27 | 4.1 | 282 | 926 |
| | | | | | | N350 | 0,27 | 4.1 | 255 | 835 | 0,30 | 4.6 | 294 | 964 |
| 10,2 | 158 | Berry´s | Flat Point | 39,0 | 1.535 | N310 | 0,25 | 3.9 | 213 | 699 | 0,29 | 4.4 | 272 | 892 |
| | | | | | | N320 | 0,35 | 5.4 | 273 | 896 | 0,38 | 5.8 | 317 | 1040 |
| | | | | | | N340 | 0,39 | 6.0 | 289 | 948 | 0,44 | 6.8 | 332 | 1089 |
| 10,2 | 158 | H&N | HP HS | 38,6 | 1.520 | N320 | 0,28 | 4.3 | 264 | 866 | 0,32 | 4.9 | 296 | 971 |
| | | | | | | N330 | 0,34 | 5.2 | 290 | 951 | 0,38 | 5.9 | 322 | 1056 |
| | | | | | | N340 | 0,35 | 5.4 | 291 | 955 | 0,39 | 6.0 | 329 | 1079 |
| 10,2 | 158 | H&N | SWC | 36,5 | 1.437 | N310 | 0,22 | 3.3 | 239 | 784 | 0,25 | 3.8 | 269 | 883 |

LIGHT GREY TEXT BOX INDICATES MAXIMUM LOAD - USE WITH CAUTION!
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED

| .38 Special | | | | | | cont. | | | | | | | | |
|-------------|-------|--------------------|------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N320 | 0,30 | 4.6 | 270 | 886 | 0,33 | 5.0 | 309 | 1014 |
| | | | | | | N340 | 0,34 | 5.3 | 289 | 948 | 0,39 | 6.0 | 333 | 1093 |
| 10,2 | 158 | Hornady | HP/XTP | 36,6 | 1.441 | N310 | 0,24 | 3.7 | 210 | 689 | 0,26 | 4.1 | 244 | 801 |
| | | | | | | N320 | 0,29 | 4.5 | 244 | 801 | 0,33 | 5.1 | 293 | 961 |
| | | | | | | N340 | 0,34 | 5.2 | 261 | 856 | 0,38 | 5.8 | 310 | 1017 |
| | | | | | | 3N37 | 0,40 | 6.1 | 267 | 876 | 0,43 | 6.7 | 320 | 1050 |
| 10,2 | 158 | LOS | Flat Point | 39,3 | 1.547 | N310 | 0,28 | 4.4 | 187 | 614 | 0,32 | 4.9 | 254 | 833 |
| | | | | | | N320 | 0,34 | 5.2 | 264 | 866 | 0,39 | 6.0 | 313 | 1027 |
| | | | | | | N330 | 0,38 | 5.8 | 279 | 915 | 0,42 | 6.5 | 325 | 1066 |
| | | | | | | N340 | 0,39 | 6.0 | 282 | 925 | 0,43 | 6.7 | 329 | 1079 |
| | | | | | | 3N37 | 0,47 | 7.2 | 275 | 902 | 0,50 | 7.8 | 340 | 1115 |
| 10,2 | 158 | Speer | HP | 36,5 | 1.437 | N320 | 0,25 | 3.9 | 218 | 715 | 0,30 | 4.6 | 272 | 892 |
| | | | | | | N340 | 0,32 | 4.9 | 241 | 791 | 0,37 | 5.6 | 300 | 983 |
| | | | | | | N350 | 0,36 | 5.5 | 261 | 855 | 0,41 | 6.3 | 309 | 1013 |
| | | | | | | 3N37 | 0,38 | 5.9 | 259 | 848 | 0,43 | 6.6 | 305 | 999 |
| 10,2 | 158 | X-Treme Bullets | SWC CP | 36,5 | 1.437 | N310 | 0,22 | 3.4 | 206 | 676 | 0,25 | 3.9 | 265 | 869 |
| | | | | | | N320 | 0,29 | 4.4 | 263 | 863 | 0,33 | 5.2 | 304 | 997 |
| | | | | | | N32C | 0,35 | 5.4 | 266 | 873 | 0,39 | 6.0 | 303 | 994 |
| | | | | | | N340 | 0,36 | 5.6 | 287 | 942 | 0,39 | 6.0 | 325 | 1066 |
| | | | | | | 3N37 | 0,42 | 6.5 | 302 | 991 | 0,45 | 6.9 | 334 | 1096 |
| 10,3 | 158 | | LSWC/HP | 36,5 | 1.437 | N320*) | 0,21 | 3.3 | 230 | 755 | 0,25 | 3.8 | 256 | 840 |
| | | | | | | N330*) | 0,23 | 3.6 | 240 | 787 | 0,27 | 4.1 | 269 | 883 |
| 11,7 | 180 | H&N | HP HS | 39,3 | 1.547 | N310 | 0,24 | 3.7 | 221 | 725 | 0,27 | 4.2 | 247 | 810 |
| | | | | | | N320 | 0,30 | 4.6 | 251 | 823 | 0,34 | 5.2 | 284 | 932 |
| | | | | | | N340 | 0,34 | 5.3 | 261 | 856 | 0,38 | 5.9 | 301 | 988 |
| | | | | | | N350 | 0,37 | 5.7 | 269 | 883 | 0,42 | 6.4 | 310 | 1017 |
| | | | | | | 3N37 | 0,38 | 5.9 | 268 | 879 | 0,41 | 6.3 | 308 | 1010 |
| 11,7 | 180 | LOS | Flat Point | 39,3 | 1.547 | N310 | 0,24 | 3.8 | 125 | 410 | 0,27 | 4.2 | 203 | 666 |
| | | | | | | N320 | 0,29 | 4.5 | 222 | 728 | 0,33 | 5.1 | 265 | 869 |
| | | | | | | N340 | 0,33 | 5.2 | 231 | 758 | 0,38 | 5.8 | 285 | 935 |
| | | | | | | N350 | 0,36 | 5.6 | 246 | 807 | 0,40 | 6.2 | 298 | 978 |
| | | | | | | 3N37 | 0,38 | 5.9 | 240 | 787 | 0,43 | 6.7 | 293 | 961 |

*) Cowboy Action Shooting load

| .357 Magnum | | | | | | Test barrel: | 175 mm (7"), 1 in 18½" twist |
|-------------|--|--|--|--|--|--------------|---|
| | | | | | | Primers: | Small Pistol Magnum |
| | | | | | | Cases: | Remington, trim-to length 32,60 mm (1.283") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|---------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 7,1 | 110 | Hornady | HP/XTP | 40,0 | 1.575 | N310 | 0,43 | 6.6 | 413 | 1355 | 0,45 | 7.0 | 427 | 1402 |
| | | | | | | N320 | 0,51 | 7.9 | 445 | 1460 | 0,54 | 8.3 | 462 | 1516 |
| | | | | | | N340 | 0,60 | 9.3 | 475 | 1558 | 0,64 | 9.8 | 500 | 1639 |
| | | | | | | N350 | 0,69 | 10.6 | 497 | 1631 | 0,73 | 11.2 | 517 | 1697 |
| | | | | | | 3N37 | 0,68 | 10.5 | 496 | 1627 | 0,73 | 11.3 | 518 | 1701 |
| | | | | | | N110 | 1,20 | 18.5 | 523 | 1716 | 1,35F | 20.8F | 612 | 2006 |
| 7,1 | 110 | Sierra | JHP | 40,0 | 1.575 | N320 | 0,48 | 7.4 | 434 | 1424 | 0,57 | 8.8 | 489 | 1604 |
| | | | | | | N340 | 0,56 | 8.6 | 459 | 1506 | 0,67 | 10.3 | 522 | 1713 |
| | | | | | | 3N37 | 0,62 | 9.6 | 474 | 1555 | 0,77 | 11.8 | 541 | 1775 |
| | | | | | | N105 | 0,80 | 12.3 | 516 | 1693 | 1,08 | 16.7 | 608 | 1995 |
| | | | | | | N110 | 1,18 | 18.2 | 538 | 1765 | 1,23C | 19.0C | 565 | 1854 |
| 8,1 | 125 | Hornady | FP/XTP | 40,0 | 1.575 | N310 | 0,39 | 6.0 | 371 | 1217 | 0,42 | 6.4 | 391 | 1284 |

| .357 Magnum | | | | | | cont. | | | | | | | | |
|-------------|-------|--------------------|--------------------|--------------------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N320 | 0,45 | 6.9 | 400 | 1312 | 0,49 | 7.5 | 420 | 1379 |
| | | | | | | N340 | 0,56 | 8.6 | 440 | 1444 | 0,60 | 9.3 | 462 | 1517 |
| | | | | | | N350 | 0,62 | 9.6 | 456 | 1496 | 0,66 | 10.2 | 476 | 1561 |
| | | | | | | N110 | 1,09 | 16.8 | 488 | 1601 | 1,19F | 18.4F | 540 | 1772 |
| 8,1 | 125 | Sierra | JHP | 40,0 | 1.575 | N320 | 0,48 | 7.3 | 405 | 1329 | 0,57 | 8.8 | 448 | 1470 |
| | | | | | | N340 | 0,54 | 8.3 | 427 | 1401 | 0,63 | 9.7 | 475 | 1558 |
| | | | | | | N350 | 0,58 | 9.0 | 442 | 1450 | 0,69 | 10.7 | 492 | 1614 |
| | | | | | | N105 | 0,78 | 12.1 | 485 | 1591 | 0,96 | 14.8 | 547 | 1795 |
| | | | | | | N110 | 1,12 | 17.3 | 513 | 1683 | 1,20C | 18.5C | 552 | 1811 |
| 9,1 | 140 | Speer | HP | 40,0 | 1.575 | N340 | 0,53 | 8.2 | 404 | 1325 | 0,56 | 8.7 | 422 | 1385 |
| | | | | | | N350 | 0,58 | 8.9 | 416 | 1365 | 0,62 | 9.5 | 437 | 1433 |
| | | | | | | 3N37 | 0,59 | 9.1 | 417 | 1368 | 0,63 | 9.8 | 439 | 1440 |
| | | | | | | N110 | 1,02 | 15.7 | 457 | 1499 | 1,11F | 17.1F | 502 | 1647 |
| 9,6 | 148 | X-Treme Bullets | WC (copper plated) | 34,8 ¹⁾ | 1.370 | N310 | 0,27 | 4.2 | 284 | 932 | 0,30A | 4.6A | 302 | 991 |
| | | | | | | N320 | 0,28 | 4.3 | 243 | 797 | 0,35A | 5.4A | 328 | 1076 |
| | | | | | | N330 | 0,33 | 5.1 | 238 | 781 | 0,39 | 6.0 | 320 | 1050 |
| | | | | | | N340 | 0,32 | 4.9 | 244 | 801 | 0,38 | 5.9 | 322 | 1056 |
| 10,2 | 158 | Berry's | Flat Point | 40,0 | 1.575 | N340 | 0,46 | 7.1 | 362 | 1188 | 0,50 | 7.7 | 378 | 1240 |
| | | | | | | 3N37 | 0,46 | 7.1 | 350 | 1148 | 0,52 | 8.0 | 385 | 1263 |
| | | | | | | N105 | 0,55 | 8.5 | 328 | 1076 | 0,60 | 9.3 | 382 | 1253 |
| | | | | | | N110 | 0,75 | 11.6 | 358 | 1175 | 0,80 | 12.3 | 383 | 1257 |
| 10,2 | 158 | CBC | SJSP | 40,0 | 1.575 | N320 | 0,38 | 5.9 | 337 | 1106 | 0,48 | 7.3 | 381 | 1250 |
| | | | | | | N340 | 0,45 | 6.9 | 359 | 1178 | 0,56 | 8.6 | 414 | 1358 |
| | | | | | | N350 | 0,48 | 7.4 | 367 | 1204 | 0,61 | 9.4 | 428 | 1404 |
| | | | | | | 3N37 | 0,51 | 7.9 | 380 | 1247 | 0,62 | 9.6 | 433 | 1421 |
| | | | | | | N105 | 0,64 | 9.8 | 406 | 1332 | 0,81 | 12.4 | 472 | 1549 |
| | | | | | | N110 | 0,91 | 14.1 | 436 | 1430 | 1,11 | 17.2 | 508 | 1667 |
| 10,2 | 158 | Hornady | FP/XTP | 40,0 | 1.575 | N105 | 0,76 | 11.7 | 427 | 1401 | 0,80 | 12.4 | 447 | 1466 |
| 10,2 | 158 | Hornady | HP/XTP | 40,0 | 1.575 | N340 | 0,46 | 7.1 | 359 | 1178 | 0,56 | 8.6 | 416 | 1365 |
| | | | | | | 3N38 | 0,57 | 8.8 | 380 | 1247 | 0,72 | 11.1 | 455 | 1493 |
| | | | | | | N110 | 0,88 | 13.5 | 426 | 1398 | 1,06 | 16.3 | 499 | 1637 |
| 10,2 | 158 | Speer | HP | 40,0 | 1.575 | N320 | 0,40 | 6.2 | 335 | 1099 | 0,43 | 6.6 | 354 | 1160 |
| | | | | | | N340 | 0,47 | 7.3 | 361 | 1184 | 0,50 | 7.7 | 378 | 1239 |
| | | | | | | N350 | 0,54 | 8.3 | 385 | 1263 | 0,58 | 8.9 | 400 | 1314 |
| | | | | | | 3N37 | 0,53 | 8.2 | 377 | 1237 | 0,57 | 8.8 | 398 | 1305 |
| | | | | | | N110 | 0,98 | 15.1 | 451 | 1480 | 1,03 | 15.9 | 478 | 1569 |
| 10,3 | 158 | | LSWC/HP | 40,0 | 1.575 | N330*) | 0,25 | 3.9 | 241 | 791 | 0,32 | 5.0 | 304 | 997 |
| | | | | | | N340*) | 0,29 | 4.5 | 245 | 804 | 0,38 | 5.9 | 320 | 1050 |
| 11,7 | 180 | LOS | Copper Plated HP | 40,0 | 1.575 | N340 | 0,41 | 6.3 | 321 | 1053 | 0,49 | 7.6 | 363 | 1191 |
| | | | | | | N350 | 0,44 | 6.8 | 328 | 1076 | 0,53 | 8.2 | 378 | 1240 |
| | | | | | | 3N37 | 0,46 | 7.2 | 340 | 1115 | 0,56 | 8.7 | 388 | 1273 |
| | | | | | | N105 | 0,60 | 9.3 | 370 | 1214 | 0,71 | 10.9 | 420 | 1378 |
| | | | | | | N110 | 0,78 | 12.0 | 384 | 1260 | 0,94 | 14.6 | 452 | 1483 |

A = Accuracy load C = Compressed load F = Case full ¹⁾Target load *) Cowboy Action Shooting load

| | | |
|-------------------------------|--------------|---|
| .357 Remington Maximum | Test barrel: | 300 mm (12"), 1 in 18½" twist |
| | Primers: | Small Rifle |
| | Cases: | Remington, trim-to length 40,60 mm (1.598") |

LIGHT GREY TEXT BOX INDICATES MAXIMUM LOAD - USE WITH CAUTION!
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED

| .357 Remington Maximum | | | | | | cont. | | | | | | | | |
|------------------------|-------|--------|------------|--------------------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N105 | 0,85 | 13.1 | 485 | 1591 | 0,92 | 14.3 | 513 | 1683 |
| | | | | | | N110 | 1,21 | 18.7 | 557 | 1827 | 1,27 | 19.5 | 578 | 1898 |
| 11,7 | 180 | Nosler | Silhouette | 48,1 | 1.894 | N105 | 0,79 | 12.2 | 443 | 1453 | 0,85 | 13.1 | 468 | 1534 |
| | | | | | | N110 | 1,07 | 16.5 | 500 | 1640 | 1,12 | 17.3 | 519 | 1704 |
| | | | | | | N120 | 1,40 | 21.6 | 516 | 1693 | 1,46 | 22.5 | 537 | 1762 |
| 13,0 | 200 | Speer | TMJ | 50,8 ¹⁾ | 2.000 | N110 | 0,99 | 15.3 | 440 | 1444 | 1,04 | 16.1 | 460 | 1508 |
| | | | | | | N120 | 1,30 | 20.1 | 458 | 1503 | 1,36 | 20.9 | 483 | 1584 |

¹⁾The cartridge overall length exceeds the CIP maximum.

| | | |
|--------------------|--------------|---|
| .40 S&W | Test barrel: | 140 mm (5½"), 1 in 16" twist |
| | Primers: | Small Pistol |
| | Cases: | Remington, trim-to length 21,40 mm (0.843") |

| | | |
|-----------------------|--------------|---|
| <div>10 mm AUTO</div> | Test barrel: | 140 mm (5½"), 1 in 16" twist |
| | Primers: | Large Pistol |
| | Cases: | X-Treme Bullets, trim-to length 25,00 mm (0.988") |
| | | |

LIGHT GREY TEXT BOX INDICATES MAXIMUM LOAD - USE WITH CAUTION!
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED

| 10 mm AUTO | | | | | | cont. | | | | | | | | |
|------------|-------|--------------------|---------------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 10,0 | 155 | Hornady | HP-XTP | 32,0 | 1.260 | N320 | 0,38 | 5.9 | 335 | 1099 | 0,44 | 6.8 | 380 | 1247 |
| | | | | | | N340 | 0,44 | 6.8 | 355 | 1165 | 0,50 | 7.0 | 397 | 1302 |
| | | | | | | N350 | 0,47 | 7.3 | 360 | 1181 | 0,55 | 8.5 | 405 | 1329 |
| | | | | | | 3N37 | 0,54 | 8.3 | 364 | 1194 | 0,62 | 9.6 | 414 | 1358 |
| | | | | | | N105 | 0,73 | 11.3 | 396 | 1299 | 0,81 | 12.6 | 446 | 1463 |
| 10,7 | 165 | X-Treme Bullets | RNFP HPCB | 32,0 | 1.260 | N320 | 0,39 | 6.0 | 329 | 1079 | 0,45 | 6.9 | 370 | 1214 |
| | | | | | | N340 | 0,45 | 6.9 | 344 | 1129 | 0,53 | 8.2 | 390 | 1280 |
| | | | | | | N350 | 0,49 | 7.6 | 350 | 1148 | 0,57 | 8.8 | 396 | 1299 |
| | | | | | | 3N37 | 0,54 | 8.3 | 362 | 1188 | 0,62 | 9.6 | 404 | 1325 |
| | | | | | | 3N38 | 0,64 | 9.9 | 379 | 1243 | 0,74 | 11.4 | 429 | 1407 |
| 11,7 | 180 | Berry's | Hybrid Hollow Point | 32,0 | 1.260 | N320 | 0,31 | 4.8 | 285 | 935 | 0,39 | 6.0 | 327 | 1073 |
| | | | | | | N340 | 0,40 | 6.2 | 316 | 1037 | 0,43 | 6.6 | 338 | 1109 |
| 11,7 | 180 | Hornady | HP-XTP | 32,0 | 1.260 | N320 | 0,33 | 5.1 | 300 | 984 | 0,38 | 5.9 | 323 | 1060 |
| | | | | | | N340 | 0,39 | 6.0 | 310 | 1017 | 0,46 | 7.1 | 355 | 1165 |
| | | | | | | N350 | 0,43 | 6.6 | 319 | 1047 | 0,49 | 7.6 | 361 | 1184 |
| | | | | | | 3N37 | 0,48 | 7.4 | 322 | 1056 | 0,55 | 8.5 | 370 | 1214 |
| | | | | | | 3N38 | 0,56 | 8.6 | 338 | 1109 | 0,64 | 9.9 | 393 | 1289 |
| | | | | | | N105 | 0,62 | 9.6 | 351 | 1152 | 0,69C | 10.6C | 392 | 1286 |
| 12,6 | 195 | H&N | TC HS | 32,0 | 1.260 | N320 | 0,29 | 4.5 | 273 | 896 | 0,35 | 5.4 | 307 | 1007 |
| | | | | | | N340 | 0,36 | 5.6 | 294 | 965 | 0,41 | 6.3 | 323 | 1060 |
| | | | | | | N350 | 0,39 | 6.0 | 299 | 981 | 0,45 | 6.9 | 325 | 1066 |
| | | | | | | 3N37 | 0,43 | 6.6 | 303 | 994 | 0,50 | 7.7 | 344 | 1129 |
| | | | | | | 3N38 | 0,50 | 7.7 | 317 | 1040 | 0,56 | 8.6 | 354 | 1161 |
| 13,0 | 200 | Speer | TMJ | 31,7 | 1.248 | N340 | 0,36 | 5.6 | 286 | 938 | 0,42 | 6.5 | 320 | 1050 |
| | | | | | | N350 | 0,39 | 6.0 | 291 | 955 | 0,45 | 6.9 | 320 | 1050 |
| | | | | | | 3N37 | 0,43 | 6.6 | 300 | 984 | 0,49 | 7.6 | 330 | 1083 |
| | | | | | | 3N38 | 0,50 | 7.7 | 312 | 1024 | 0,58 | 9.0 | 359 | 1178 |
| | | | | | | N105 | 0,58 | 9.0 | 326 | 1070 | 0,65 | 10.0 | 366 | 1201 |
| 14,3 | 220 | X-Treme Bullets | RNFP | 32,0 | 1.260 | N340 | 0,33 | 5.1 | 263 | 863 | 0,38 | 5.9 | 284 | 932 |
| | | | | | | N350 | 0,37 | 5.7 | 268 | 879 | 0,42 | 6.5 | 295 | 968 |
| | | | | | | 3N37 | 0,40 | 6.2 | 272 | 892 | 0,47 | 7.3 | 316 | 1037 |
| | | | | | | 3N38 | 0,46 | 7.1 | 287 | 942 | 0,52 | 8.0 | 323 | 1060 |
| | | | | | | N105 | 0,54 | 8.3 | 295 | 968 | 0,59C | 9.1C | 329 | 1079 |

C = Compressed load

| .41 Remington Magnum | | | | | | Test barrel: | 150 mm (6"), 1 in 18¾" twist |
|----------------------|--|--|--|--|--|--------------|---|
| | | | | | | Primers: | Large Pistol |
| | | | | | | Cases: | W-W Super, trim-to length 32,50 mm (1.280") |
| | | | | | | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|---------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 11,0 | 170 | Sierra | JHC | 40,1 | 1.579 | N350 | 0,72 | 11.1 | 415 | 1362 | 0,81 | 12.5 | 451 | 1480 |
| | | | | | | N105 | 0,99 | 15.3 | 465 | 1526 | 1,10 | 16.9 | 500 | 1642 |
| | | | | | | N110 | 1,41 | 21.8 | 500 | 1640 | 1,50 | 23.2 | 532 | 1746 |
| 13,6 | 210 | Hornady | HP/XTP | 40,1 | 1.579 | N350 | 0,67 | 10.3 | 373 | 1224 | 0,74 | 11.4 | 400 | 1312 |
| | | | | | | N105 | 0,84 | 13.0 | 405 | 1329 | 0,95 | 14.6 | 437 | 1435 |
| | | | | | | N110 | 1,20 | 18.5 | 436 | 1430 | 1,28 | 19.8 | 466 | 1529 |

| .44 S&W Special | | | | | | Test barrel: | 150 mm (6"), 1 in 18" twist |
|-----------------|--|--|--|--|--|--------------|---|
| | | | | | | Primers: | Large Pistol |
| | | | | | | Cases: | Remington, trim-to length 29,30 mm (1.153") |
| | | | | | | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|---------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 11,7 | 180 | Hornady | HP-XTP | 37,3 | 1.469 | N320 | 0,44 | 6.8 | 285 | 935 | 0,49 | 7.6 | 315 | 1033 |
| | | | | | | N330 | 0,50 | 7.7 | 308 | 1010 | 0,56 | 8.6 | 338 | 1109 |
| | | | | | | N340 | 0,57 | 8.8 | 319 | 1047 | 0,62 | 9.6 | 349 | 1145 |
| | | | | | | N350 | 0,64 | 9.9 | 318 | 1043 | 0,68 | 10.5 | 350 | 1148 |
| 13,0 | 200 | Hornady | HP-XTP | 37,3 | 1.469 | N320 | 0,41 | 6.3 | 270 | 886 | 0,45 | 6.9 | 294 | 965 |
| | | | | | | N330 | 0,50 | 7.7 | 287 | 942 | 0,55 | 8.5 | 315 | 1033 |
| | | | | | | N340 | 0,54 | 8.3 | 293 | 961 | 0,59 | 9.1 | 325 | 1066 |
| | | | | | | N350 | 0,59 | 9.1 | 296 | 971 | 0,64 | 9.9 | 329 | 1079 |
| 14,3 | 220 | Sierra | FPJ-Match | 37,3 | 1.469 | N320 | 0,34 | 5.2 | 221 | 725 | 0,39 | 6.0 | 255 | 837 |
| | | | | | | N330 | 0,40 | 6.2 | 232 | 761 | 0,46 | 7.1 | 271 | 889 |
| | | | | | | N340 | 0,43 | 6.6 | 248 | 814 | 0,48 | 7.4 | 278 | 912 |
| | | | | | | N350 | 0,50 | 7.7 | 254 | 833 | 0,56 | 8.6 | 289 | 948 |
| 15,6 | 240 | | SWC/HP | 39,1 | 1.539 | N320*) | 0,30 | 4.7 | 214 | 702 | 0,38 | 5.9 | 260 | 853 |
| | | | | | | N330*) | 0,36 | 5.5 | 229 | 751 | 0,41 | 6.3 | 270 | 886 |
| 15,6 | 240 | Hornady | JTC-Sil | 37,6 | 1.480 | N320 | 0,31 | 4.8 | 193 | 633 | 0,36 | 5.6 | 223 | 732 |
| | | | | | | N330 | 0,35 | 5.4 | 206 | 676 | 0,40 | 6.2 | 234 | 768 |
| | | | | | | N340 | 0,41 | 6.3 | 222 | 728 | 0,46 | 7.1 | 252 | 827 |
| | | | | | | N350 | 0,49 | 7.6 | 239 | 784 | 0,53 | 8.2 | 271 | 889 |
| 16,2 | 250 | Sierra | FPJ | 37,3 | 1.469 | N320 | 0,31 | 4.8 | 193 | 633 | 0,36 | 5.6 | 226 | 741 |
| | | | | | | N330 | 0,32 | 4.9 | 191 | 627 | 0,39 | 6.0 | 228 | 748 |
| | | | | | | N340 | 0,36 | 5.6 | 197 | 646 | 0,42 | 6.5 | 237 | 778 |
| | | | | | | N350 | 0,44 | 6.8 | 229 | 751 | 0,49 | 7.6 | 260 | 853 |
| 17,3 | 267 | | LFN | 39,1 | 1.539 | N320*) | 0,25 | 3.8 | 193 | 633 | 0,34 | 5.3 | 242 | 794 |
| | | | | | | N330*) | 0,32 | 4.9 | 216 | 709 | 0,38 | 5.9 | 254 | 833 |
| | | | | | | N340*) | 0,43 | 6.6 | 261 | 856 | 0,47 | 7.3 | 282 | 925 |

*) Cowboy Action Shooting load

| .44 Remington Magnum | | | | | | Test barrel: | 175 mm (7"), 1 in 20" twist |
|----------------------|--|--|--|--|--|--------------|---|
| | | | | | | Primers: | Large Pistol |
| | | | | | | Cases: | Remington, trim-to length 32,40 mm (1.275") |
| | | | | | | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|---------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 11,7 | 180 | Hornady | HP-XTP | 40,7 | 1.602 | N320 | 0,69 | 10.6 | 407 | 1335 | 0,77 | 11.8 | 437 | 1432 |
| | | | | | | N340 | 0,84 | 13.0 | 439 | 1440 | 0,92 | 14.1 | 472 | 1549 |
| | | | | | | N350 | 0,89 | 13.7 | 448 | 1470 | 0,99 | 15.3 | 481 | 1578 |
| | | | | | | N105 | 1,23 | 19.0 | 498 | 1634 | 1,40 | 21.6 | 543 | 1781 |
| | | | | | | N110 | 1,63 | 25.2 | 492 | 1614 | 1,76 | 27.1 | 534 | 1751 |
| 13,0 | 200 | Hornady | HP-XTP | 40,7 | 1.602 | N320 | 0,65 | 10.0 | 381 | 1250 | 0,73 | 11.3 | 408 | 1339 |
| | | | | | | N340 | 0,76 | 11.7 | 410 | 1345 | 0,84 | 13.0 | 437 | 1434 |
| | | | | | | N350 | 0,83 | 12.8 | 416 | 1365 | 0,95 | 14.6 | 453 | 1487 |
| | | | | | | 3N37 | 0,89 | 13.7 | 433 | 1421 | 0,98 | 15.2 | 462 | 1515 |
| | | | | | | N105 | 1,09 | 16.8 | 459 | 1506 | 1,26 | 19.4 | 500 | 1642 |
| | | | | | | N110 | 1,58 | 24.4 | 494 | 1621 | 1,71 | 26.3 | 530 | 1740 |
| 14,3 | 220 | Sierra | FPJ-Match | 40,7 | 1.602 | N320 | 0,59 | 9.1 | 350 | 1148 | 0,67 | 10.4 | 375 | 1232 |
| | | | | | | N340 | 0,72 | 11.1 | 381 | 1250 | 0,80 | 12.3 | 405 | 1328 |
| | | | | | | N350 | 0,83 | 12.8 | 402 | 1319 | 0,96 | 14.8 | 439 | 1441 |
| | | | | | | N105 | 1,08 | 16.7 | 432 | 1417 | 1,22 | 18.8 | 470 | 1542 |
| 15,6 | 240 | Hornady | JTC-Sil | 40,7 | 1.602 | N320 | 0,58 | 8.9 | 331 | 1086 | 0,63 | 9.7 | 354 | 1161 |

| .44 Remington Magnum | | | | | | cont. | | | | | | | | |
|----------------------|-------|---------|-----------|--------------------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N340 | 0,67 | 10.3 | 358 | 1175 | 0,75 | 11.5 | 380 | 1247 |
| | | | | | | N350 | 0,77 | 11.9 | 375 | 1230 | 0,83 | 12.8 | 399 | 1308 |
| | | | | | | 3N37 | 0,78 | 12.0 | 372 | 1220 | 0,86 | 13.3 | 402 | 1318 |
| | | | | | | N105 | 0,95 | 14.7 | 404 | 1325 | 1,08 | 16.6 | 437 | 1434 |
| | | | | | | N110 | 1,32 | 20.4 | 435 | 1427 | 1,43 | 22.1 | 470 | 1541 |
| 16,2 | 250 | Sierra | FPJ-Match | 40,7 | 1.602 | N320 | 0,55 | 8.5 | 314 | 1030 | 0,63 | 9.7 | 344 | 1130 |
| | | | | | | N340 | 0,65 | 10.0 | 341 | 1119 | 0,73 | 11.2 | 370 | 1213 |
| | | | | | | N350 | 0,75 | 11.6 | 366 | 1201 | 0,85 | 13.1 | 395 | 1295 |
| | | | | | | N105 | 0,87 | 13.4 | 382 | 1253 | 1,08 | 16.7 | 429 | 1406 |
| 17,3 | 267 | | LFN | 40,0 | 1.575 | N340*) | 0,38 | 5.9 | 224 | 735 | 0,49 | 7.5 | 288 | 945 |
| 17,3 | 267 | | LSWC | 40,5 | 1.681 | N32C*) | 0,50 | 7.7 | 271 | 889 | 0,60 | 9.3 | 301 | 988 |
| 19,4 | 300 | Hornady | HP-XTP | 43,6 ¹⁾ | 1.717 | N340 | 0,62 | 9.6 | 304 | 997 | 0,68 | 10.5 | 323 | 1061 |
| | | | | | | N350 | 0,68 | 10.5 | 315 | 1033 | 0,76 | 11.7 | 344 | 1128 |
| | | | | | | 3N37 | 0,67 | 10.3 | 308 | 1010 | 0,74 | 11.4 | 336 | 1102 |
| | | | | | | N105 | 0,85 | 13.1 | 349 | 1145 | 0,94 | 14.6 | 375 | 1231 |
| | | | | | | N110 | 1,21 | 18.7 | 384 | 1260 | 1,31 | 20.2 | 419 | 1374 |
| 19,4 | 300 | Sierra | JSP | 43,6 ¹⁾ | 1.717 | N340 | 0,61 | 9.4 | 296 | 971 | 0,66 | 10.2 | 319 | 1046 |
| | | | | | | N350 | 0,64 | 9.9 | 296 | 971 | 0,72 | 11.1 | 326 | 1071 |
| | | | | | | 3N37 | 0,65 | 10.0 | 305 | 1001 | 0,73 | 11.2 | 332 | 1089 |
| | | | | | | N105 | 0,82 | 12.7 | 342 | 1122 | 0,90 | 13.8 | 368 | 1208 |
| | | | | | | N110 | 1,15 | 17.7 | 369 | 1211 | 1,23 | 19.1 | 398 | 1305 |

¹⁾ The cartridge overall length exceeds the CIP maximum. *) Cowboy Action Shooting load

| .45 Auto / .45 ACP | | Test barrel: | 127 mm (5"), 1 in 16" twist |
|--------------------|--|--------------|---|
| | | Primers: | Large Pistol |
| | | Cases: | Remington, trim-to length 22,70 mm (0.893") |
| | | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|---------|---------------------|--------------------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 12,0 | 185 | Berry´s | Flat Point | 28,4 | 1.118 | N310 | 0,27 | 4.2 | 250 | 820 | 0,31 | 4.8 | 286 | 938 |
| | | | | | | N320 | 0,36 | 5.6 | 280 | 919 | 0,41 | 6.3 | 318 | 1043 |
| | | | | | | N330 | 0,42 | 6.5 | 286 | 938 | 0,49 | 7.5 | 336 | 1102 |
| | | | | | | N340 | 0,43 | 6.6 | 288 | 945 | 0,50 | 7.7 | 335 | 1099 |
| 12,0 | 185 | Berry´s | HBRN | 32,1 | 1.264 | N310 | 0,30 | 4.7 | 262 | 860 | 0,36 | 5.5 | 299 | 981 |
| | | | | | | N320 | 0,41 | 6.3 | 288 | 945 | 0,47 | 7.3 | 331 | 1086 |
| | | | | | | N32C | 0,43 | 6.6 | 276 | 906 | 0,53 | 8.2 | 323 | 1060 |
| | | | | | | N330 | 0,49 | 7.5 | 298 | 978 | 0,55 | 8.5 | 346 | 1135 |
| | | | | | | N340 | 0,49 | 7.6 | 298 | 978 | 0,56 | 8.6 | 348 | 1142 |
| 12,0 | 185 | Berry's | Hybrid Hollow Point | 31,0 ³⁾ | 1.220 | N320 | 0,41 | 6.3 | 293 | 961 | 0,47 | 7.3 | 334 | 1096 |
| | | | | | | N340 | 0,49 | 7.6 | 307 | 1007 | 0,53 | 8.2 | 344 | 1129 |
| | | | | | | N350 | 0,53 | 8.2 | 299 | 981 | 0,61 | 9.4 | 362 | 1188 |
| | | | | | | 3N37 | 0,55 | 8.5 | 291 | 955 | 0,66 | 10.2 | 351 | 1152 |
| 12,0 | 185 | H&N | HP | 30,0 | 1.181 | N310 | 0,27 | 4.2 | 263 | 863 | 0,32 | 4.9 | 296 | 971 |
| | | | | | | N320 | 0,37 | 5.7 | 283 | 928 | 0,44 | 6.7 | 328 | 1076 |
| | | | | | | N32C | 0,39 | 6.0 | 279 | 915 | 0,47 | 7.2 | 319 | 1047 |
| | | | | | | N330 | 0,45 | 7.0 | 297 | 974 | 0,51 | 7.9 | 346 | 1135 |
| | | | | | | N340 | 0,45 | 7.0 | 293 | 961 | 0,53 | 8.1 | 346 | 1135 |
| 12,0 | 185 | Hornady | HP/XTP | 31,2 | 1.228 | N310 | 0,29 | 4.4 | 250 | 820 | 0,33 | 5.2 | 285 | 935 |
| | | | | | | N320 | 0,39 | 6.0 | 284 | 932 | 0,45 | 7.0 | 326 | 1070 |
| | | | | | | N340 | 0,46 | 7.1 | 297 | 974 | 0,53 | 8.2 | 345 | 1132 |
| | | | | | | N350 | 0,50 | 7.7 | 292 | 958 | 0,59 | 9.1 | 354 | 1161 |
| | | | | | | N105 | 0,79 | 12.2 | 317 | 1040 | 0,86 | 13.3 | 385 | 1263 |
| 12,7 | 195 | H&N | SWC | 31,0 | 1.220 | N310 | 0,25 | 3.9 | 252 | 827 | 0,30 | 4.6 | 283 | 928 |

LIGHT GREY TEXT BOX INDICATES MAXIMUM LOAD - USE WITH CAUTION!
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED

| .45 Auto / .45 ACP | | | | | | cont. | | | | | | | | |
|--------------------|-------|--------------------|---------------------|--------------------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N320 | 0,36 | 5.5 | 275 | 902 | 0,41 | 6.3 | 313 | 1027 |
| | | | | | | N32C | 0,36 | 5.5 | 266 | 873 | 0,42 | 6.4 | 299 | 981 |
| | | | | | | N330 | 0,41 | 6.3 | 278 | 912 | 0,47 | 7.3 | 325 | 1066 |
| | | | | | | N340 | 0,42 | 6.5 | 284 | 932 | 0,48 | 7.4 | 325 | 1066 |
| 13,0 | 200 | Berry's | HB Flat Point | 29,4 | 1.157 | N310 | 0,25 | 3.9 | 222 | 728 | 0,31 | 4.7 | 264 | 866 |
| | | | | | | N320 | 0,37 | 5.6 | 260 | 853 | 0,41 | 6.4 | 303 | 994 |
| | | | | | | N330 | 0,43 | 6.6 | 272 | 892 | 0,49 | 7.5 | 321 | 1053 |
| | | | | | | N340 | 0,42 | 6.5 | 274 | 899 | 0,49 | 7.6 | 321 | 1053 |
| | | | | | | N350 | 0,46 | 7.1 | 274 | 899 | 0,54 | 8.3 | 325 | 1066 |
| | | | | | | 3N37 | 0,48 | 7.4 | 262 | 860 | 0,58 | 8.9 | 325 | 1066 |
| | | | | | | 3N38 | 0,59 | 9.1 | 274 | 899 | 0,67 | 10.3 | 331 | 1086 |
| 13,0 | 200 | Berry's | Hybrid Hollow Point | 31,0 ²⁾ | 1.220 | N320 | 0,38 | 5.9 | 272 | 892 | 0,44 | 6.8 | 318 | 1043 |
| | | | | | | N340 | 0,43 | 6.6 | 289 | 948 | 0,51 | 7.9 | 329 | 1079 |
| | | | | | | N350 | 0,49 | 7.6 | 286 | 938 | 0,56 | 8.6 | 333 | 1093 |
| | | | | | | 3N37 | 0,51 | 7.9 | 266 | 873 | 0,62 | 9.6 | 334 | 1096 |
| 13,0 | 200 | H&N | RN | 31,0 | 1.220 | N310 | 0,27 | 4.2 | 254 | 833 | 0,32 | 4.9 | 285 | 935 |
| | | | | | | N320 | 0,37 | 5.8 | 274 | 899 | 0,43 | 6.6 | 315 | 1033 |
| | | | | | | N32C | 0,40 | 6.1 | 272 | 892 | 0,47 | 7.3 | 309 | 1014 |
| | | | | | | N330 | 0,43 | 6.7 | 282 | 925 | 0,50 | 7.7 | 328 | 1076 |
| | | | | | | N340 | 0,45 | 6.9 | 286 | 938 | 0,52 | 8.0 | 334 | 1096 |
| | | | | | | N350 | 0,49 | 7.6 | 288 | 945 | 0,56 | 8.7 | 340 | 1115 |
| | | | | | | 3N37 | 0,51 | 7.9 | 282 | 925 | 0,60 | 9.3 | 339 | 1112 |
| | | | | | | 3N38 | 0,62 | 9.5 | 286 | 938 | 0,73 | 11.3 | 353 | 1158 |
| 13,0 | 200 | H&N | SWC | 30,7 | 1.209 | N310 | 0,26 | 4.0 | 251 | 823 | 0,30 | 4.7 | 283 | 928 |
| | | | | | | N320 | 0,35 | 5.5 | 270 | 886 | 0,40 | 6.2 | 311 | 1020 |
| | | | | | | N32C | 0,36 | 5.5 | 260 | 853 | 0,43 | 6.7 | 300 | 984 |
| | | | | | | N330 | 0,40 | 6.2 | 274 | 899 | 0,47 | 7.2 | 321 | 1053 |
| | | | | | | N340 | 0,40 | 6.2 | 276 | 906 | 0,48 | 7.4 | 326 | 1070 |
| | | | | | | N350 | 0,44 | 6.8 | 271 | 889 | 0,51 | 7.9 | 323 | 1060 |
| | | | | | | 3N37 | 0,44 | 6.8 | 261 | 856 | 0,52 | 8.0 | 316 | 1037 |
| | | | | | | 3N38 | 0,57 | 8.7 | 272 | 892 | 0,66 | 10.1 | 334 | 1096 |
| 13,0 | 200 | Hornady | HAP | 31,5 | 1.240 | N310 | 0,25 | 3.9 | 243 | 797 | 0,30 | 4.6 | 276 | 906 |
| | | | | | | N320 | 0,36 | 5.5 | 270 | 886 | 0,41 | 6.3 | 310 | 1017 |
| | | | | | | N32C | 0,36 | 5.5 | 260 | 853 | 0,44 | 6.7 | 300 | 984 |
| | | | | | | N330 | 0,43 | 6.6 | 278 | 912 | 0,50 | 7.7 | 328 | 1076 |
| | | | | | | N340 | 0,42 | 6.5 | 278 | 912 | 0,50 | 7.7 | 327 | 1073 |
| | | | | | | N350 | 0,48 | 7.4 | 283 | 928 | 0,54 | 8.4 | 325 | 1066 |
| | | | | | | 3N37 | 0,49 | 7.5 | 274 | 899 | 0,58 | 9.0 | 335 | 1099 |
| | | | | | | 3N38 | 0,60 | 9.2 | 280 | 919 | 0,70 | 10.8 | 347 | 1138 |
| | | | | | | N105 | 0,68 | 10.4 | 285 | 935 | 0,78 | 12.0 | 359 | 1178 |
| 13,0 | 200 | Sig Sauer | V-Crown JHP | 31,9 | 1.256 | N320 | 0,39 | 6.0 | 279 | 915 | 0,45 | 6.9 | 316 | 1037 |
| | | | | | | N340 | 0,46 | 7.1 | 293 | 961 | 0,52 | 8.0 | 329 | 1079 |
| | | | | | | N350 | 0,51 | 7.9 | 287 | 942 | 0,57 | 8.8 | 335 | 1099 |
| | | | | | | 3N37 | 0,54 | 8.3 | 277 | 909 | 0,62 | 9.6 | 333 | 1093 |
| 14,6 | 225 | X-Treme Bullets | FB | 29,9 | 1.177 | N310 | 0,22 | 3.4 | 191 | 627 | 0,27 | 4.1 | 231 | 758 |
| | | | | | | N320 | 0,31 | 4.7 | 225 | 738 | 0,36 | 5.5 | 269 | 883 |
| | | | | | | N32C | 0,29 | 4.5 | 220 | 722 | 0,34 | 5.3 | 254 | 833 |
| | | | | | | N330 | 0,37 | 5.7 | 246 | 807 | 0,42 | 6.5 | 286 | 938 |
| | | | | | | N340 | 0,37 | 5.7 | 246 | 807 | 0,43 | 6.6 | 287 | 942 |
| | | | | | | N350 | 0,40 | 6.2 | 244 | 801 | 0,47 | 7.3 | 294 | 965 |
| | | | | | | 3N37 | 0,43 | 6.6 | 239 | 784 | 0,50 | 7.8 | 293 | 961 |
| | | | | | | 3N38 | 0,53 | 8.1 | 245 | 804 | 0,61 | 9.4 | 300 | 984 |
| | | | | | | N105 | 0,58 | 9.0 | 249 | 817 | 0,68 | 10.5 | 317 | 1040 |
| 14,9 | 230 | Berry's | Hybrid Hollow Point | 30,4 ¹⁾ | 1.197 | N320 | 0,30 | 4.6 | 228 | 748 | 0,36 | 5.6 | 275 | 902 |

| .45 Auto / .45 ACP | | | | | | cont. | | | | | | | | |
|--------------------|-------|---------|-----------|--------------------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N340 | 0,37 | 5.7 | 248 | 814 | 0,43 | 6.6 | 290 | 951 |
| | | | | | | N350 | 0,41 | 6.3 | 248 | 814 | 0,47 | 7.3 | 293 | 961 |
| | | | | | | 3N37 | 0,43 | 6.6 | 228 | 748 | 0,53 | 8.2 | 295 | 968 |
| 14,9 | 230 | Hornady | HP / XTP | 31,6 ¹⁾ | 1.244 | N320 | 0,30 | 4.6 | 234 | 768 | 0,36 | 5.6 | 270 | 886 |
| | | | | | | N340 | 0,36 | 5.6 | 238 | 781 | 0,42 | 6.5 | 284 | 932 |
| | | | | | | N350 | 0,42 | 6.5 | 252 | 827 | 0,48 | 7.4 | 297 | 974 |
| | | | | | | 3N37 | 0,43 | 6.6 | 237 | 778 | 0,52 | 8.0 | 299 | 981 |
| 14,9 | 230 | LOS | RN | 31,0 | 1.220 | N310 | 0,23 | 3.5 | 217 | 712 | 0,27 | 4.2 | 248 | 814 |
| | | | | | | N320 | 0,32 | 4.9 | 243 | 797 | 0,37 | 5.7 | 282 | 925 |
| | | | | | | N330 | 0,37 | 5.6 | 249 | 817 | 0,43 | 6.6 | 294 | 965 |
| | | | | | | N340 | 0,38 | 5.8 | 250 | 820 | 0,43 | 6.6 | 293 | 961 |
| | | | | | | N350 | 0,42 | 6.5 | 253 | 830 | 0,48 | 7.3 | 297 | 974 |
| | | | | | | 3N37 | 0,42 | 6.5 | 243 | 797 | 0,50 | 7.8 | 295 | 968 |
| | | | | | | 3N38 | 0,51 | 7.9 | 247 | 810 | 0,60 | 9.2 | 304 | 997 |
| 14,9 | 230 | Sierra | FMJ | 32,2 | 1.268 | N310 | 0,24 | 3.7 | 207 | 679 | 0,29 | 4.5 | 245 | 804 |
| | | | | | | N320 | 0,33 | 5.1 | 244 | 801 | 0,38 | 5.9 | 281 | 922 |
| | | | | | | N330 | 0,40 | 6.2 | 258 | 846 | 0,45 | 6.9 | 292 | 958 |
| | | | | | | N340 | 0,40 | 6.2 | 259 | 850 | 0,45 | 6.9 | 293 | 961 |
| | | | | | | 3N37 | 0,46 | 7.1 | 245 | 804 | 0,55 | 8.5 | 301 | 988 |

¹⁾ X-Treme Bullets case ²⁾ X-Treme Bullets case ³⁾ X-Treme Bullets case

| .45 Colt | | | | | | Test barrel: 150 mm (6"), 1 in 16" twist | | | | | | | | |
|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | Primers: Large Pistol | | | | | | | | |
| | | | | | | Cases: Remington, trim-to length 32,50 mm (1.279") | | | | | | | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|---------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 12,0 | 185 | Hornady | HP/XTP | 40,5 | 1.594 | N320 | 0,57 | 8.7 | 334 | 1096 | 0,62 | 9.6 | 360 | 1181 |
| | | | | | | N340 | 0,71 | 10.9 | 342 | 1122 | 0,76 | 11.8 | 377 | 1237 |
| | | | | | | N350 | 0,80 | 12.3 | 346 | 1135 | 0,86 | 13.2 | 382 | 1253 |
| 12,0 | 185 | Rainier | FN | 40,5 | 1.594 | N320 | 0,57 | 8.9 | 328 | 1076 | 0,62 | 9.6 | 358 | 1175 |
| | | | | | | N330 | 0,67 | 10.4 | 333 | 1093 | 0,73 | 11.2 | 367 | 1204 |
| | | | | | | N340 | 0,72 | 11.1 | 343 | 1125 | 0,78 | 12.1 | 383 | 1257 |
| | | | | | | N350 | 0,80 | 12.3 | 346 | 1135 | 0,88 | 13.6 | 389 | 1276 |
| 13,0 | 200 | Hornady | FMJ-CT | 40,5 | 1.594 | N320 | 0,52 | 8.1 | 317 | 1040 | 0,58 | 8.9 | 342 | 1122 |
| 13,0 | 200 | Hornady | LSWC | 40,5 | 1.594 | N320 | 0,56 | 8.7 | 326 | 1070 | 0,61 | 9.4 | 347 | 1138 |
| | | | | | | N340 | 0,70 | 10.9 | 341 | 1119 | 0,75 | 11.6 | 364 | 1194 |
| 14,9 | 230 | Sierra | FMJ-Match | 40,5 | 1.594 | N320 | 0,49 | 7.5 | 286 | 938 | 0,54 | 8.3 | 306 | 1004 |
| | | | | | | N340 | 0,63 | 9.7 | 301 | 988 | 0,68 | 10.4 | 330 | 1083 |
| 16,2 | 250 | Hornady | HP-XTP | 40,5 | 1.594 | N320 | 0,47 | 7.3 | 257 | 843 | 0,51 | 7.8 | 280 | 919 |
| | | | | | | N340 | 0,60 | 9.2 | 281 | 922 | 0,64 | 9.8 | 307 | 1007 |
| | | | | | | N350 | 0,69 | 10.7 | 297 | 974 | 0,72 | 11.2 | 321 | 1053 |
| | | | | | | N105 | 0,91 | 14.1 | 296 | 971 | 0,97 | 15.0 | 344 | 1129 |

| .45 Winchester Magnum | | | | | | Test barrel: 300 mm (12"), 1 in 16" twist | | | | | | | | |
|-----------------------|--|--|--|--|--|---|--|--|--|--|--|--|--|--|
| | | | | | | Primers: Large Pistol | | | | | | | | |
| | | | | | | Cases: Winchester, trim-to length 30,30 mm (1.192") | | | | | | | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|---------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 12,0 | 185 | Hornady | HP/XTP | 38,5 | 1.516 | N350 | 0,81 | 12.5 | 451 | 1478 | 0,99 | 15.3 | 512 | 1678 |
| | | | | | | 3N37 | 0,91 | 14.0 | 507 | 1662 | 1,03 | 15.9 | 534 | 1750 |

LIGHT GREY TEXT BOX INDICATES MAXIMUM LOAD - USE WITH CAUTION!
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED

| .45 Winchester Magnum | | | | | | cont. | | | | | | | | |
|-----------------------|-------|---------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| | | | | | | N105 | 1,13 | 17.4 | 523 | 1714 | 1,33 | 20.5 | 576 | 1888 |
| 13,0 | 200 | Hornady | FMJ-CT | 39,5 | 1.555 | N105 | 1,07 | 16.5 | 483 | 1583 | 1,23 | 19.0 | 532 | 1744 |
| 13,0 | 200 | Speer | TMJ-SWC | 38,5 | 1.516 | 3N37 | 0,91 | 14.0 | 487 | 1598 | 1,00 | 15.4 | 513 | 1683 |
| | | | | | | N110 | 1,49 | 22.9 | 528 | 1731 | 1,64 | 25.2 | 575 | 1885 |
| 14,9 | 230 | Hornady | FMJ-RN | 39,5 | 1.555 | 3N37 | 0,82 | 12.7 | 410 | 1344 | 0,92 | 14.2 | 451 | 1478 |
| | | | | | | N110 | 1,41 | 21.8 | 495 | 1622 | 1,55 | 23.9 | 532 | 1744 |
| 16,2 | 250 | Hornady | HP-XTP | 38,2 | 1.504 | N350 | 0,65 | 10.0 | 309 | 1014 | 0,78 | 12.0 | 373 | 1224 |
| | | | | | | 3N37 | 0,75 | 11.6 | 354 | 1160 | 0,83 | 12.8 | 401 | 1314 |
| | | | | | | N105 | 0,90 | 13.8 | 393 | 1289 | 1,03 | 15.8 | 431 | 1414 |
| | | | | | | N110 | 1,20 | 18.4 | 442 | 1448 | 1,37 | 21.1 | 481 | 1576 |

| .454 Casull | | | | | | Test barrel: 240 mm (9½"), 1 in 24" twist | | | | | | | | |
|-------------|--|--|--|--|--|---|--|--|--|--|--|--|--|--|
| | | | | | | Primers: Small Rifle | | | | | | | | |
| | | | | | | Cases: Freedom Arms, trim-to length 33,30 mm (1.311") | | | | | | | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|---------|----------------------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 12,0 | 185 | Hornady | HP/XTP ¹⁾ | 41,7 | 1.642 | N350 | 1,18 | 18.2 | 537 | 1762 | 1,39 | 21.4 | 593 | 1946 |
| | | | | | | 3N37 | 1,14 | 17.6 | 531 | 1742 | 1,36 | 21.0 | 588 | 1929 |
| | | | | | | N105 | 1,72 | 26.5 | 606 | 1988 | 1,90 | 29.3 | 653 | 2142 |
| 14,6 | 225 | Speer | HP | 42,7 | 1.681 | 3N37 | 1,09 | 16.8 | 474 | 1555 | 1,27 | 19.6 | 523 | 1716 |
| | | | | | | N105 | 1,59 | 24.5 | 536 | 1759 | 1,73 | 26.7 | 580 | 1903 |
| | | | | | | N110 | 2,00 | 30.9 | 566 | 1857 | 2,17 | 33.5 | 614 | 2014 |
| 16,2 | 250 | Hornady | HP/XTP | 42,8 | 1.685 | 3N37 | 1,01 | 15.6 | 437 | 1434 | 1,18 | 18.2 | 487 | 1598 |
| | | | | | | N105 | 1,39 | 21.4 | 481 | 1578 | 1,57 | 24.2 | 536 | 1759 |
| | | | | | | N110 | 1,82 | 28.1 | 523 | 1716 | 1,99 | 30.7 | 569 | 1867 |
| 19,4 | 300 | Speer | Plated HP | 44,5 | 1.752 | 3N37 | 0,99 | 15.3 | 396 | 1299 | 1,10 | 17.0 | 433 | 1421 |
| | | | | | | N105 | 1,28 | 19.8 | 431 | 1414 | 1,49 | 23.0 | 484 | 1588 |
| | | | | | | N110 | 1,71 | 26.4 | 474 | 1555 | 1,86 | 28.7 | 514 | 1686 |

¹⁾ The crimping is done is over the bullet ogive.

| .50 AE | | | | | | Test barrel: 150 mm (6"), 1 in 19" twist | | | | | | | | |
|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | Primers: Large Pistol | | | | | | | | |
| | | | | | | Cases: Speer, trim-to length 32,50 mm (1.280") | | | | | | | | |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|-------|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 19,4 | 300 | IMI | JHP | 40,0 | 1.575 | N105 | 1,26 | 19.4 | 395 | 1296 | 1,38 | 21.3 | 436 | 1430 |
| | | | | | | N110 | 1,64 | 25.3 | 396 | 1299 | 1,86 | 28.7 | 456 | 1496 |
| | | | | | | N120 | 2,11 | 32.6 | 363 | 1191 | 2,33 | 36.0 | 417 | 1368 |
| 21,1 | 325 | Speer | UCHP | 40,0 | 1.575 | N105 | 1,15 | 17.7 | 357 | 1171 | 1,26 | 19.4 | 406 | 1332 |
| | | | | | | N110 | 1,56 | 24.1 | 386 | 1266 | 1,75 | 27.0 | 437 | 1434 |
| | | | | | | N120 | 1,99 | 30.7 | 348 | 1142 | 2,23 | 34.4 | 408 | 1339 |

VIHTAVUORI SMOKELESS LOADS FOR COWBOY ACTION SHOOTING

These loads are developed to give the velocities required for the cowboy action shooting using revolvers with lead bullets. The maximum load is determined by the velocity limit about 300 m/s, or by the maximum pressure limit according to the CIP October 1, 1992 rules. The bold text in the tables indicate the maximum load according to CIP pressure level. The maximum loads must never be exceeded.

All the listed loads are intended to be used in modern fire-arms, which are according to the SAAMI requirements. Please use a competent gunsmith to evaluate that the condition of your gun is adequate to be used with the pressures indicated in the tables. The starting loads are the lowest charges which appeared to give clean burning, i.e. no unburned residues in the barrel or in the case, in our test shooting. This limit may, however vary according to the revolver used.

There are some special features, which must be considered, when using reduced loads like the ones presented in the tables below. The same facts are equally valid always when using any smokeless powder in such loads.

1) Double charges

Some of these loads are so small that throwing the load twice in the same case is possible because of the large case volume. Doubling the charge accidentally causes most probably truly lethal chamber pressures. Therefore, it is a must for everyone using this data to check visually every single load for the double charge before seating the bullet.

2) Free space in the case

When using charges which leave large amount of free space in the case, the shooting characteristics may vary largely depend- ing on where the powder is located in the case. If the powder lies totally in the bottom of the case (i.e. in the end where primer is), the muzzle velocity and especially the maximum pressure become much higher. The maximum pressure may even be doubled when same powder charge is moved from the bullet end to the primer end of the case. This can simply

be demonstrated by shaking the revolver barrel upwards or barrel downwards just before turning it smoothly in horizontal position, aiming and shooting. Also the recoil may transfer the powder in either end of the case. This is sometimes seen as a velocity change between the first shot and the following shots.

The shot to shot deviations in velocity and pressure are normally increased when using load which leaves the cases half empty. For this reason such loads are not recommended for target loads. The data below is tested in a way that the powder is as much as possible in the primer side before firing, and therefore, the pressures and the velocities represent the maximum values which were obtained using our test equipment and cartridge components indicated in the table.

3) Risk for underload detonation

This risk is always present when using highly reduced loads of any smokeless powder. The large free space in the case may generate a pressure wave which can cause, in the worst case, powder to burn as a shock wave, i.e. to detonate, instead of normal fast burning process. The extremely sharp pressure peaks involved in detonation can destroy the weapon and may lead to serious injury.

All these loads given here are extensively pressure tested and no signs of underload detonation were found. We strongly recommend everyone to follow strictly these tables to minimize the risk for underload detonation.

Smokeless powder differs considerably in its burning charac- teristics from common "black powder". Black powder burns essentially at the same rate in the open (unconfined) as when in a gun. The burning rate of smokeless powder increases with increasing pressure. If burning smokeless powder is confined, gas pressure will rise and eventually can cause the container or chamber to burst. A slight increase in smokeless powder charge after maximum load causes sharp increase in maximum pressure in the chamber. **Never exceed the maximum loads.**

| | | | | | |
|------------------------|--|--|--|--------------|---|
| <div>.38 Special</div> | | | | Test barrel: | 125 mm (5"), 1 in 18" twist |
| | | | | Primers: | Small Pistol |
| | | | | Cases: | Remington, trim-to length 29,10 mm (1.146") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|-----|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 9,4 | 145 | | LSWC | 37,5 | 1.476 | N32C | 0,32 | 4.9 | 307 | 1007 | 0,37 | 5.7 | 314 | 1030 |
| 10,3 | 158 | | LSWC/HP | 36,5 | 1.437 | N320 | 0,21 | 3.3 | 230 | 755 | 0,25 | 3.8 | 256 | 840 |
| | | | | | | N330 | 0,23 | 3.6 | 240 | 787 | 0,27 | 4.1 | 269 | 883 |

| | | | | | |
|------------------------|--|--|--|--------------|---|
| <div>.357 Magnum</div> | | | | Test barrel: | 150 mm (6"), 1 in 18½" twist |
| | | | | Primers: | Small Rifle |
| | | | | Cases: | Remington, trim-to length 32,60 mm (1.283") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|-----|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 10,3 | 158 | | LSWC/HP | 40,0 | 1.575 | N330 | 0,25 | 3.9 | 241 | 791 | 0,32 | 5.0 | 304 | 997 |
| | | | | | | N340 | 0,29 | 4.5 | 245 | 804 | 0,38 | 5.9 | 320 | 1050 |

| | | | | | |
|--------------------------------|--|--|--|--------------|---|
| <div>.44 S&W Special</div> | | | | Test barrel: | 165 mm (6½"), 1 in 18" twist |
| | | | | Primers: | Large Pistol |
| | | | | Cases: | Remington, trim-to length 29,30 mm (1.153") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|-----|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 15,6 | 240 | | SWC/HP | 39,1 | 1.539 | N320 | 0,30 | 4.7 | 214 | 702 | 0,38 | 5.9 | 260 | 853 |
| | | | | | | N330 | 0,36 | 5.5 | 229 | 751 | 0,41 | 6.3 | 270 | 886 |
| 17,3 | 267 | | LFN | 39,1 | 1.539 | N320 | 0,25 | 3.8 | 193 | 633 | 0,34 | 5.3 | 242 | 794 |
| | | | | | | N330 | 0,32 | 4.9 | 216 | 709 | 0,38 | 5.9 | 254 | 833 |
| | | | | | | N340 | 0,43 | 6.6 | 261 | 856 | 0,47 | 7.3 | 282 | 925 |

| | | | | | |
|---------------------------------|--|--|--|--------------|---|
| <div>.44 Remington Magnum</div> | | | | Test barrel: | 175 mm (7"), 1 in 20" twist |
| | | | | Primers: | Large Pistol |
| | | | | Cases: | Remington, trim-to length 32,40 mm (1.276") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|-----|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 17,3 | 267 | | LFN | 40,0 | 1.575 | N340 | 0,38 | 5.9 | 224 | 735 | 0,49 | 7.5 | 288 | 945 |
| 17,3 | 267 | | LSWC | 40,5 | 1.681 | N32C | 0,50 | 7.7 | 271 | 889 | 0,60 | 9.3 | 301 | 988 |

| | | | | | |
|---------------------|--|--|--|--------------|---|
| <div>.45 Colt</div> | | | | Test barrel: | 150 mm (6"), 1 in 16" twist |
| | | | | Primers: | Large Pistol |
| | | | | Cases: | Remington, trim-to length 32,50 mm (1.280") |

| Bullet | | | | | | Powder | Starting load | | | | Maximum load | | | |
|--------|-------|-----|-----------|--------|-------|--------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| Weight | | Mfg | Type/Name | C.O.L. | | Type | Weight | | Velocity | | Weight | | Velocity | |
| [g] | [grs] | | | [mm] | [in.] | | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 13,0 | 200 | | LRN | 40,5 | 1.594 | N320 | 0,44 | 6.8 | 259 | 850 | 0,56 | 8.7 | 318 | 1043 |
| | | | | | | N330 | 0,52 | 8.0 | 267 | 876 | 0,56 | 8.6 | 298 | 978 |
| 16,2 | 250 | | LRN | 40,5 | 1.594 | N320 | 0,36 | 5.6 | 229 | 751 | 0,45 | 6.9 | 279 | 915 |
| | | | | | | N330 | 0,41 | 6.3 | 238 | 781 | 0,49 | 7.5 | 293 | 961 |

RELOADING DATA FOR SHOTGUN 12/76 (3")

| | |
|-----------|------------------------------|
| Lead Shot | Shell: Fiocchi Plastic Green |
|-----------|------------------------------|

| Shot Load 36 g / 11/4 oz | | | | | Starting load | | | | Maximum load | | | |
|--------------------------|----------|--------------|---------------|------------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| | | | | | Weight | | Velocity | | Weight | | Velocity | |
| Powder | Primer | Wad | Overshot card | Crimp | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| N320 | Fio. 616 | B&P Z2M H-24 | Paper | Roll Crimp | 1,75 | 27.0 | 401 | 1316 | 1,82 | 28.1 | 411 | 1348 |
| N340 | Fio. 616 | B&P Z2M H-24 | Paper | Roll Crimp | 1,75 | 27.0 | 367 | 1204 | 2,15 | 33.2 | 422 | 1385 |
| 3N37 | Fio. 616 | B&P Z2M H-24 | Paper | Roll Crimp | 2,00 | 30.9 | 372 | 1220 | 2,40 | 37.0 | 436 | 1430 |

| | |
|-----------|------------------------------|
| Lead Shot | Shell: Fiocchi Plastic Green |
|-----------|------------------------------|

| Shot Load 40 g / 13/8 oz | | | | | Starting load | | | | Maximum load | | | |
|--------------------------|----------|--------------|---------------|------------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| | | | | | Weight | | Velocity | | Weight | | Velocity | |
| Powder | Primer | Wad | Overshot card | Crimp | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| N320 | Fio. 616 | B&P Z2M H-21 | Paper | Roll Crimp | 1,60 | 24.7 | 367 | 1204 | 1,74 | 26.9 | 385 | 1263 |
| N340 | Fio. 616 | B&P Z2M H-21 | Paper | Roll Crimp | 1,85 | 28.5 | 378 | 1240 | 2,10 | 32.4 | 416 | 1365 |
| 3N37 | Fio. 616 | B&P Z2M H-24 | Paper | Roll Crimp | 2,00 | 30.9 | 363 | 1191 | 2,55 | 39.4 | 433 | 1421 |
| N105 | Fio. 616 | B&P Z2M H-21 | Paper | Roll Crimp | 2,70 | 41.7 | 360 | 1181 | 4,01 | 61.9 | 521 | 1709 |

| | |
|-----------|------------------------------|
| Lead Shot | Shell: Fiocchi Plastic Green |
|-----------|------------------------------|

| Shot Load 44 g / 11/2 oz | | | | | Starting load | | | | Maximum load | | | |
|--------------------------|----------|--------------|---------------|------------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| | | | | | Weight | | Velocity | | Weight | | Velocity | |
| Powder | Primer | Wad | Overshot card | Crimp | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| N340 | Fio. 616 | B&P Z2M H-24 | Paper | Roll Crimp | 1,73 | 26.7 | 357 | 1171 | 1,90 | 29.3 | 379 | 1243 |
| 3N37 | Fio. 616 | B&P Z2M H-24 | Paper | Roll Crimp | 2,05 | 31.6 | 357 | 1171 | 2,50 | 38.6 | 418 | 1371 |
| N105 | Fio. 616 | B&P Z2M H-24 | Paper | Roll Crimp | 2,70 | 41.7 | 362 | 1188 | 3,35 | 51.7 | 445 | 1460 |

| | |
|-----------|------------------------------|
| Lead Shot | Shell: Fiocchi Plastic Green |
|-----------|------------------------------|

| Shot Load 48 g / 15/8 oz | | | | | Starting load | | | | Maximum load | | | |
|--------------------------|----------|--------------|---------------|------------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| | | | | | Weight | | Velocity | | Weight | | Velocity | |
| Powder | Primer | Wad | Overshot card | Crimp | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 3N37 | Fio. 616 | B&P Z2M H-18 | Paper | Roll Crimp | 1,85 | 28.5 | 357 | 1171 | 2,36 | 36.4 | 397 | 1302 |

| | |
|--------------------------|---------------------------|
| Steel Shot Nickel Plated | Shell: Fiocchi T4 Plastic |
|--------------------------|---------------------------|

| Shot Load 28 g / 1 oz | | | | | Starting load | | | | Maximum load | | | |
|-----------------------|----------|--------------|---------------|------------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| | | | | | Weight | | Velocity | | Weight | | Velocity | |
| Powder | Primer | Wad | Overshot card | Crimp | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| N320 | Fio. 616 | B&P Steel 28 | Paper | Roll Crimp | 1,20 | 18.5 | 358 | 1175 | 1,55 | 23.9 | 414 | 1358 |
| N340 | Fio. 616 | B&P Steel 28 | Paper | Roll Crimp | 1,60 | 24.7 | 366 | 1201 | 1,85 | 28.5 | 410 | 1345 |
| 3N37 | Fio. 616 | B&P Steel 28 | Paper | Roll Crimp | 1,60 | 24.7 | 360 | 1181 | 1,85 | 28.5 | 385 | 1263 |
| N105 | Fio. 616 | B&P Steel 28 | Paper | Roll Crimp | 2,30 | 35.5 | 358 | 1175 | 3,00 | 46.3 | 429 | 1407 |

| | |
|--------------------------|---------------------------|
| Steel Shot Nickel Plated | Shell: Fiocchi T4 Plastic |
|--------------------------|---------------------------|

| Shot Load 32 g / 11/8 oz | | | | | Starting load | | | | Maximum load | | | |
|--------------------------|----------|--------------|---------------|------------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| | | | | | Weight | | Velocity | | Weight | | Velocity | |
| Powder | Primer | Wad | Overshot card | Crimp | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| N320 | Fio. 616 | B&P Steel 32 | Paper | Roll Crimp | 1,30 | 20.1 | 364 | 1194 | 1,45 | 22.4 | 393 | 1289 |
| N340 | Fio. 616 | B&P Steel 32 | Paper | Roll Crimp | 1,50 | 23.1 | 368 | 1207 | 1,65 | 25.5 | 403 | 1322 |
| 3N37 | Fio. 616 | B&P Steel 32 | Paper | Roll Crimp | 1,65 | 25.5 | 355 | 1165 | 1,95 | 30.1 | 416 | 1365 |
| N105 | Fio. 616 | B&P Steel 32 | Paper | Roll Crimp | 2,30 | 35.5 | 362 | 1188 | 2,59 | 40.0 | 415 | 1362 |

| | |
|--------------------------|---------------------------|
| Steel Shot Nickel Plated | Shell: Fiocchi T4 Plastic |
|--------------------------|---------------------------|

| Shot Load 35 g / 11/4 oz | | | | | Starting load | | | | Maximum load | | | |
|--------------------------|----------|--------------|---------------|------------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| | | | | | Weight | | Velocity | | Weight | | Velocity | |
| Powder | Primer | Wad | Overshot card | Crimp | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| N340 | Fio. 616 | B&P Steel 35 | Paper | Roll Crimp | 1,40 | 21.6 | 364 | 1194 | 1,50 | 23.1 | 375 | 1230 |
| 3N37 | Fio. 616 | B&P Steel 35 | Paper | Roll Crimp | 1,65 | 25.5 | 369 | 1211 | 1,71 | 26.4 | 384 | 1260 |
| N105 | Fio. 616 | B&P Steel 35 | Paper | Roll Crimp | 2,20 | 34.0 | 359 | 1178 | 2,61 | 40.3 | 416 | 1365 |

| | |
|--------------------------|---------------------------|
| Steel Shot Nickel Plated | Shell: Fiocchi T4 Plastic |
|--------------------------|---------------------------|

| Shot Load 44 g / 11/2 oz | | | | | Starting load | | | | Maximum load | | | |
|--------------------------|----------|--------------|---------------|------------|---------------|-------|----------|-------|--------------|-------|----------|-------|
| | | | | | Weight | | Velocity | | Weight | | Velocity | |
| Powder | Primer | Wad | Overshot card | Crimp | [g] | [grs] | [m/s] | [fps] | [g] | [grs] | [m/s] | [fps] |
| 3N37 | Fio. 616 | B&P Steel 44 | Paper | Roll Crimp | 1,60 | 24.7 | 358 | 1175 | 1,65 | 25.5 | 362 | 1188 |
| 3N38 | Fio. 616 | B&P Steel 44 | Paper | Roll Crimp | 1,70 | 26.2 | 311 | 1020 | 2,00 | 30.9 | 362 | 1188 |
| N105 | Fio. 616 | B&P Steel 44 | Paper | Roll Crimp | 2,30 | 35.5 | 368 | 1207 | 2,50 | 38.6 | 398 | 1306 |

This data has been obtained using a 28" test barrel.
Velocity has been measured using light gate digital sensors at a distance of 2,5 m from muzzle acc. to C.I.P. method.
All loads have been pressure tested according to the C.I.P. method.
Data has been obtained using 3 mm shots (U.S. size No. 5) with loads measured in [g]. All [oz] weights are indicative.

PERSONAL LOADS

PERSONAL LOADS

#EVERYGRAINCOUNTS



N100 Reloading Powders for Rifles

| | N110 | N120 | N130 | N133 | N135 | N140 | N150 | N160 | N165 | N170 | 24N41 | 20N29 |
|----------------------|------|------|------|------|------|------|------|------|------|------|-------|-------|
| Bulk density (g/l) | 800 | 860 | 870 | 870 | 870 | 910 | 910 | 920 | 920 | 960 | 970 | 960 |
| Energy content (J/g) | 3950 | 3700 | 3750 | 3600 | 3550 | 3700 | 3750 | 3650 | 3500 | 3700 | 3700 | 3600 |

N300 Reloading Powders for Handguns


| | N310 | N320 | N32C | N330 | N340 | N350 | 3N37 | 3N38 | N105 |
|----------------------|------|------|------|------|------|------|------|------|------|
| Bulk density (g/l) | 560 | 550 | 420 | 620 | 620 | 660 | 720 | 730 | 730 |
| Energy content (J/g) | 4100 | 4100 | 3050 | 4100 | 4100 | 4100 | 4100 | 4000 | 3950 |

N500 High Energy Reloading Powders for Rifles

| | N530 | N540 | N550 | N555 | N560 | N565 | N568 | N570 |
|----------------------|------|------|------|------|------|------|------|------|
| Bulk density (g/l) | 930 | 940 | 940 | 900 | 960 | 960 | 907 | 960 |
| Energy content (J/g) | 3950 | 4000 | 3900 | 3700 | 4000 | 4000 | 3850 | 4000 |

Relative burning rate of powder types mentioned above decreases from left to right.

CONSUMER PACKAGE INFORMATION

| | | | |
|---|------------|--------------|---|
| Consumer package, bottle 0,6 ltr (36.6 in³) Measures: sides & height 95 x 75 x 140 mm | net weight | gross weight |  |
| N110, N120, N130, N133, N135, N140, N150, N160, N165, N170 24N41, 20N29 | 1.0 lbs | 1.1 lbs | |
| N530, N540, N550, N555, N560, N565, N568, N570 | 1.0 lbs | 1.1 lbs | |
| Consumer package, bottle 1,2 ltr (73.2 in³) Measures: sides & height 95 x 75 x 226 mm | net weight | gross weight |  |
| N110, N120, N130, N133, N135, N140, N150, N160, N165, N170 | 1,0 kg | 1,1 kg | |
| 24N41, 20N29, N530, N540, N550, N555, N560, N565, N568, N570 | 1,0 kg | 1,1 kg | |
| N310, N320, N32C, N330, N340, N350, 3N37, 3N38, N105 | 0,5 kg | 0,6 kg | |
| N310, N320, N32C, N330, N340, N350, 3N37, 3N38, N105 | 1.0 lbs | 1.2 lbs | |
| Consumer package, canister 4,5 ltr (274.6 in³) Measures: sides & height 135 x 189 x 260 mm | net weight | gross weight |  |
| N110, N140, N150, N160 | 3,5 kg | 3,7 kg | |
| N310, N320, N340, 3N37, 3N38 | 2,0 kg | 2,2 kg | |
| N110, N120, N130, N133, N135, N140, N150, N160, N165, 24N41, 20N29, N530, N540, N550, N555, N560, N565, N568, N570 | 8.0 lbs | 8.4 lbs | |
| N310, N320, N330, N340, N350, 3N37, 3N38 | 4.0 lbs | 4.4 lbs | |

All Vihtavuori reloading powders are packed into bottles and canisters and further in cardboard boxes.

LOT NUMBER

All Vihtavuori powder bottle labels have a white area with specific information shown in number sequences. The lot information is shown after item number (10). For instance, the lot number in the example picture is 180075.

1.0 lb (0.454 kg) 15.02.2019

(90) FI001 (250) 180075AR09768
(11) 190215 (240) T11955 (10)
180075 (3103) 000454 (3303)
000516
(3203) 001001 (3403) 002498



BURNING RATE CHART

Current canister powders in order of *approximate* burning rate.
This list is for reference only and **not** to be used for developing loads.

| | Vihtavuori Norma | RWS | VECTAN | Reload Swiss | IMR | Hodgdon | Accurate | W-W | Alliant | Ramshot |
|--------------|------------------|--------|--------------|--------------|------|--------------------|-------------------|--------|-----------------|--------------|
| Fast Burning | | | | | | Titewad | | | | |
| | | R1 | | | | | Nitro 100 | WST | E ³ | |
| | N310 | | P805 P801 | Ba10 | | Trail Boss | Solo 1000 | 231 | Bullseye | |
| | | | | | | Titegroup Clays | | 452 | | Competition |
| | N320 | | | | RS12 | Hi-Skor700X | No. 2 | WSL | Red Dot | |
| | | | | AS | | PB | Solo 1250 | 473 | American Select | |
| | N32C | | | | | SR7625 | | | Promo | Zip |
| | | | P804 P803 | A1 | | | | | Green Dot | |
| | N330 | | | Ba9 | | Clays Univer. | No. 5 | WSF | Unique | |
| | N340 | | | SP8 | RS20 | SR4756 | | WAP | Power Pistol | Silhouette |
| | 3N37 | | | A0 | | Longshot | | | Herco | |
| | N350 | | | | | Hi-Skor 800X | | | | True Blue |
| | 3N38 | | | SP2 Pract. | RS24 | | | 571 | Blue Dot | |
| | N105 | | | | | HS-7 | No. 7 | | Steel | |
| | | | | | | | | | 2400 | Enforcer |
| | | R-123 | | SP3 | | | No. 9 | | | |
| | | | P806 R910 | | | SR4759 | 4100 | | | |
| | N110 | | | | RS30 | IMR4227 | | 296 | | |
| | | | | Ba6 | | H4198 | | 680 | | |
| | | 200 | R901 | | | H4227 | 5744 | | 410 | |
| | N120 | | | Tubal2000 | | IMR4198 | 1680 | | Reloder 7 | |
| | | | | | | | 2015 | | | |
| | | | R902 | | | IMR3031 | Benchmark | | Reloder 11 | |
| | | | | | | | H322 | | | |
| | N130 | 201 | | SP10 | | | BL(C)-2 | 2460 | 748 | |
| | N133 | 202 | | Tubal3000 | | 8208XBR | CFE 223 | | | X-Terminator |
| | | | R903 | | | | H335 | 2495 | | |
| | | | | SP9 | | IMR4895 | Leverrevolution | 2520 | | |
| | N530 | | | | RS40 | IMR4166 | H4895 | 4064 | Reloder 12 | TAC |
| | N135 | | | | | IMR4064 | | | | |
| | | | | SP7 | | IMR4320 | Varget | | | |
| | N140 | 203B | R907 | | RS50 | | H380 | 2700 | Reloder 15 | Big Game |
| | N540 | | | | RS52 | | H414 | | | |
| | N150 | URP | R904 | Tubal5000 | | | H4350 | 4350 | Reloder 17 | |
| | N550 | | | | RS60 | IMR4350 | HYBRID 100V | | Reloder 19 | |
| | N555 | 204 | | SP11 | RS62 | IMR4451 | H450 | WMR | | Hunter |
| | N160 | | | Tubal7000 | | IMR4831 | H4831SC | 785 | | |
| | N560 | MRP | R905 | | | IMR4955 | H4831 | 3100 | | |
| | N165 | MRP(2) | | Tubal8000 | RS70 | IMR782SSC | Super-Performance | MagPro | WXR | |
| | | | | | | IMR7828 | H1000 | | | Magnum |
| Slow Burning | N170 | | | | | IMR7977 | Retumbo | 8700 | | |
| | N565 | | | SP13 | RS76 | | H870 | | | |
| | N568 | | | | | | | | | |
| | N570 | | | | | | | | | |
| | 24N41 | | | | RS80 | | 50BMG | | Reloder 50 | |
| | 20N29 | | | | | | US869 | | | |

VIHTAVUORI DISTRIBUTORS

AUSTRIA

Rohof Waffenhhandel GmbH
gerhard.rohrbacher@
rohofwaffen.at
www.rohofwaffen.at

BRAZIL

CBC - Companhia
Brasileira de cartuchos
clubes@cbc.com.br
www.cbc.com.br

BRITAIN

Hannam's Reloading Ltd
sales@hannamsreloading.
com
www.hannamsreloading.
com

BULGARIA

SPECIAL TACTICAL
SUPPLIES LTD.
sts@guns.bg

CANADA

Hirsch Precision Inc.
peterdobson@ns.sympatico.
ca
www.hirschprecision.com

DENMARK

Leo Nielsen Trading ApS.
mail@98102909.dk
www.benelli.dk

ESTONIA

UAB Albatros prekyba
deividas@albatros.lt

FINLAND

Nordic Distribution Oy
NorDis
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FRANCE

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mary@bgmwinfield.com
www.bgmwinfield.com

GERMANY

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de

Technischer Großhandel
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NETHERLANDS

Dutch Firearms Trading
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www.firearms.nl

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www.outdoorcentre.com.na

NEW ZEALAND

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info@nzammo.co.nz
www.nzammo.co.nz

NORWAY

Magne Landrø A/S
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www.landro.no

PHILIPPINES

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open@stronghand.ph
www.stronghand.ph

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www.incorsa.pl

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