LOAD GUIDE EDITION 4.2

WARNINGS

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

DISCLAIMER

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

POWDER WARNINGS

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

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

COMPONENT WARNINGS

Primers

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

QUALITY CONTROL

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

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

NOTE:

THIS DATA SUPERSEDES ALL PREVIOUS RAMSHOT LOAD DATA.

Always use the latest load data

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

For loads not listed in this guide and the latest updates, visit our website at:

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RAMSHOT POWDERS

COMPANY ABBREVIATIONS

BAR	Barnes	LC	Laser Cast	REM	Remington
BRG	Berger	MCB	Montana Cast Bullets	RSH	Rushmore
BRY	Berry's	MTG	Montana Gold	SIE	Sierra
CP	Cast Performance	NOS	Nosler	TS	True Shot
HDY	Hornady	OT	Oregon Trail	WIN	Winchester

PRIMER ABBREVIATIONS

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

BULLET ABBREVIATIONS

A-BOND	Accubond	JHC	Jacketed Hollow Cavity	SSP	Single Shot Pistol
BB	Broad Base	JHP	Jacketed Hollow Point	SPT	Spitzer
BK	Blitz King	JRN	Jacketed Round Nose	SST	Super Shock Tipped
BS	Ballistic Siver Tip	JSP	Jacketed Soft Point	SWC	Semi Wadcutter
B-TIP	Ballistic Tip	JSWC	Jacketed Semi Wadcutter	TC	Truncated Cone
BTSP	Boat Tail Spire Point	LFNPB	Long Flat Nose Plain Base	TCBB	Truncated Cone Beveled Base
CT	Combined Technologies	(L)	Lead	TSX	Triple Shock
CL-SIL	Crimp Lock Silhouette	LTB	Length Tolerant Bullet	VAR	Varminator
DEWC	Double End Wadcutter	(M)	Moly Coated	VG	Varmint Grenade
FMC	Full Metal Case	MK	Match King	WBFPGC	Wide Base Flat Point Gas Check
FMJ	Full Metal Jacket	MRX	Maximum Range X Bullet	WFNGC	Wide Flat Nose Gas Check
FN	Flat Nose	PART	Partition	WFNPB	Wide Flat Nose Plain Base
FP	Flat Point	PRO-H	Pro-Hunter	WLNGC	Wide Long Nose Gas Check
FPJ	Full Profile Jacket	RN	Round Nose	WNFPGC	Wide Nose Flat Point Gas Check
FS	Fail Safe	RNFP	Round Nose Flat Point	WNGC	Wide Nose Gas Check
GK	Game King	RNSWC	Round Nose Semi Wadcutter	X	X Bullet
HB	Hollow Base	SBT	Spitzer Boat Tail	XBT	X Boat Tail
HP	Hollow Point	SMP	Semi Point	XFB	X Flat Base
HPBT	Hollow Point Boat Tail	SP	Spire Point	XPB	X Pistol Bullet
HSP	Hollow Soft Point	SPH	Soft Point Hornet	XTP	Extreme Terminal Performance
INTK	Interlock	SPSX	Spire Point Super Explosive		

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

- Barnes Bullets, Inc.
- Berger Bullets
- Berry's Manufacturing
- Cast Performance Bullet Company
- Hornady
- Montana Cast Bullets
- Montana Gold
- Nosler
- Oregon Trail Bullet Company
- Remington
- Sierra Bullets
- Winchester

SPECIAL NOTE ON CARTRIDGE OVERALL LENGTH "COL"

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

The individual reloader is free to adjust this dimension to suit their particular firearm-component-weapon combination. This parameter is determined by various dimensions such as 1) magazine length (space), 2) freebore-lead dimensions of the barrel, 3) ogive or profile of the projectile and 4) position of cannelure or crimp groove.

- **Always begin loading at the minimum "Start Load".**
- **Increase in 2% increments towards the Maximum Load.**
- **Watch for signs of excessive pressure.**
- **Never exceed the Maximum Load.**

RAMSHOT POWDERS

HANDGUN

5.7 x 28 FN

Barrel: 5", Twist 1-10" Primer: WIN WSR or WSP

	Bullet Weight (Grains)	Bullet Make	Bullet Type	Start Load (Grains)	Start Velocity (fps)	Max Load (Grains)	Max Load Velocity (fps)	Max Load Pressure (psi)	COL (inch)
True Blue	35	HDY	V-MAX	5.7	1,923	6.4	2,007	45,500	1.491
True Blue	40	SIE	SPH	5.6	1,813	6.3	1,961	45,300	1.456
True Blue	45	SIE	SPH	5.4	1,700	6.1	1,858	45,600	1.490

Special Note on the 5.7 x 28 FN

1) This is an extremely sensitive caliber. Please adhere closely to indicated loads and COL guidelines.
2) Always begin loading at the MINUMUM start load and increase only in increments of **0.1** grains.
3) We strongly recommend using ONLY FLATBASE BULLETS, especially in the handgun.
4) When Small Pistol primers are used, a slightly lower performance can be expected.
5) Add 18% to the above published velocities for the 10" barrel of the FN P90 PDW weapon.

380 Auto (ACP)

Barrel: 3.75", Twist 1-16" Primer: WIN WSP

ZIP	90	HDY	HP XTP	2.7	800	3.4	980	18,500	0.965
ZIP	115	SIE	JHP	2.4	720	2.9	840	19,300	0.980
True Blue	90	HDY	HP XTP	3.7	800	4.5	960	18,700	0.965
True Blue	115	NOS	JHP	3.3	725	3.8	830	18,600	0.980

9mm Luger

Barrel: 4", Twist 1-10" Primer: FED 100

ZIP	115	LC	RN (L)	4.3	1,062	4.8	1,180	31,280	1.128
ZIP	122	MCB	TC BB (L)	3.9	959	4.3	1,065	32,500	1.128
ZIP	147	LC	FP BB (L)	3.3	842	3.7	935	34,500	1.140
Silhouette	115	NOS	JHP	5.3	1,055	6.0	1,155	32,100	1.169
Silhouette	124	HDY	HP XTP	4.9	1,005	5.6	1,105	33,300	1.169
Silhouette	147	HDY	HP XTP	4.1	870	4.5	930	33,300	1.169
True Blue	115	LC	RN (L)	5.8	1,068	6.4	1,187	31,940	1.128
True Blue	124	LC	RN (L)	5.6	1,019	6.2	1,132	32,250	1.122
True Blue	147	LC	FP BB (L)	4.5	872	5.0	969	32,270	1.135
True Blue	115	SIE	FMJ	5.8	1,067	6.4	1,185	32,500	1.110
True Blue	125	SIE	FMJ	5.4	1,004	6.0	1,115	32,500	1.130
True Blue	147	HDY	HP XTP	4.5	833	5.0	926	34,000	1.125

.38 Special

Barrel: 7.75", Twist 1-18.75" Primer: FED 100

ZIP	125	LC	FP BB (L)	4.1	801	4.5	890	15,900	1.440
ZIP	158	MCB	SWC BB (L)	3.4	684	3.8	760	16,000	1.430
ZIP	110	HDY	HP XTP	4.9	918	5.4	1,020	15,480	1.435
ZIP	158	SIE	JSP	3.4	680	3.8	756	15,660	1.440
True Blue	125	LC	FP BB (L)	5.6	999	6.2	1,110	16,450	1.440
True Blue	148	RSH	DEWC (L)	3.6	751	4.0	834	14,760	1.240
True Blue	158	LC	SWC (L)	4.6	833	5.1	925	15,760	1.465
True Blue	110	HDY	HP XTP	5.7	928	6.3	1,031	15,690	1.435
True Blue	125	SIE	JHC	5.5	918	6.1	1,020	16,100	1.435
True Blue	140	SIE	JHC	5.0	851	5.5	945	16,300	1.445
True Blue	158	NOS	JHP	4.7	842	5.2	935	16,700	1.450

.38 Super

Barrel: 5", Twist 1-16" Primer: WIN WSP

ZIP	115	LC	RN (L)	5.3	1,177	5.9	1,308	30,980	1.265
ZIP	124	LC	RN BB (L)	5.4	1,136	6.0	1,262	34,930	1.280
ZIP	115	NOS	JHP	5.1	1,139	5.7	1,266	33,430	1.280
ZIP	124	BRY	FP	5.0	1,100	5.6	1,222	34,170	1.280
ZIP	147	HDY	HP XTP	4.1	923	4.6	1,025	32,680	1.245
Silhouette	115	NOS	JHP	6.6	1,190	7.8	1,340	34,300	1.280
Silhouette	124	HDY	FMJ	6.2	1,150	7.3	1,270	34,300	1.280
Silhouette	130	SIE	FMJ	6.3	1,120	7.3	1,250	34,600	1.280
Silhouette	147	HDY	HP XTP	5.5	990	6.3	1,110	34,600	1.280
True Blue	115	LC	RN (L)	7.2	1,272	8.0	1,413	32,950	1.270
True Blue	122	MCB	RN BB (L)	6.8	1,150	7.6	1,278	31,160	1.280
True Blue	145	LC	RN (L)	5.9	1,039	6.6	1,154	31,630	1.280
True Blue	115	NOS	JHP	7.4	1,228	8.2	1,364	34,000	1.230
True Blue	125	SIE	HP	6.8	1,164	7.6	1,293	35,910	1.215
True Blue	147	MTG	FMJ	6.5	1,055	7.2	1,172	35,820	1.280

HANDGUN

.357 SIG

Barrel: 4", Twist 1-16" Primer: WIN WSP

ZIP	115	NOS	JHP	6.1	1,189	6.8	1,321	38,890	1.140
ZIP	125	SIE	JHP	5.8	1,098	6.4	1,220	37,180	1.140
ZIP	147	HDY	HP XTP	4.7	950	5.2	1,056	38,320	1.140
Silhouette	115	NOS	JHP	8.4	1,343	8.8	1,389	35,380	1.140
Silhouette	125	SIE	JHP	7.9	1,261	8.3	1,320	36,760	1.140
Silhouette	147	HDY	HP XTP	6.5	1,082	6.9	1,128	35,500	1.140
True Blue	115	NOS	JHP	8.2	1,217	9.1	1,352	35,370	1.140
True Blue	125	SIE	JHP	7.9	1,164	8.8	1,293	36,850	1.140
True Blue	147	HDY	HP XTP	6.8	1,022	7.6	1,135	36,720	1.140

.357 Magnum

Barrel: 6", Twist 1-18.75" Primer: FED 200

ZIP	158	MCB	RN BB (L)	6.3	1,176	7.0	1,307	30,560	1.590
ZIP	180	CP	WFNGC (L)	5.6	1,042	6.2	1,158	32,670	1.565
ZIP	110	HDY	HP XTP	7.7	1,373	8.6	1,525	32,080	1.578
ZIP	125	SIE	JHP	7.1	1,276	7.9	1,418	30,680	1.578
ZIP	158	NOS	JHP	6.0	1,105	6.7	1,228	31,680	1.580
True Blue	158	LC	SWC (L)	8.8	1,176	9.8	1,307	32,210	1.590
True Blue	180	CP	WFNGC (L)	7.6	1,046	8.4	1,162	33,000	1.550
True Blue	110	HDY	HP XTP	11.3	1,475	12.5	1,639	33,160	1.570
True Blue	125	HDY	HP XTP	10.4	1,325	11.5	1,472	30,750	1.580
True Blue	140	SIE	JHC	9.3	1,250	10.3	1,389	33,580	1.575
Enforcer	125	HDY	HP XTP	16.2	1,500	18.0	1,667	32,570	1.580
Enforcer	140	SIE	JHC	14.4	1,311	16.0	1,457	34,200	1.580
Enforcer	158	HDY	HP XTP	12.5	1,206	14.0	1,320	34,000	1.590

.40 S&W

Barrel: 4", Twist 1-16" Primer: WIN WSP

ZIP	140	LC	TC BB (L)	5.8	1,113	6.4	1,237	33,830	1.120
ZIP	155	MCB	SWC BB (L)	5.1	1,005	5.7	1,117	31,720	1.120
ZIP	180	LC	TC (L)	4.1	857	4.5	952	31,720	1.120
ZIP	155	HDY	HP XTP	5.4	1,008	6.0	1,120	32,500	1.130
ZIP	165	SIE	JHP	5.1	925	5.7	1,028	29,070	1.124
Silhouette	150	SIE	JHP	7.0	1,110	7.5	1,190	32,800	1.135
Silhouette	155	HDY	HP XTP	6.9	1,100	7.4	1,170	33,500	1.135
Silhouette	170	WIN	FMJ	6.2	1,020	6.7	1,085	33,500	1.135
Silhouette	180	SIE	JHP	5.5	920	6.2	1,020	33,200	1.135
Silhouette	200	HDY	HP XTP	4.8	800	5.6	920	32,600	1.135
True Blue	140	LC	TCBB (L)	7.7	1,125	8.5	1,250	33,400	1.130
True Blue	155	LC	RNSWC (L)	6.5	963	7.2	1,070	33,500	1.095
True Blue	170	LC	SWC (L)	5.9	878	6.6	975	32,500	1.130
True Blue	135	NOS	JHP	8.3	1,149	9.2	1,277	32,200	1.120
True Blue	150	NOS	JHP	7.3	1,052	8.1	1,169	32,500	1.125
True Blue	165	SIE	JHP	6.9	1,014	7.7	1,127	34,500	1.135
True Blue	180	NOS	JHP	6.3	935	7.0	1,039	32,390	1.135
True Blue	200	HDY	HP XTP	5.4	802	6.0	891	32,210	1.135

10mm Auto

Barrel: 5", Twist 1-16" Primer: WIN WLP

Silhouette	170	LC	SWC (L)	7.4	1,175	8.2	1,220	34,100	1.260
Silhouette	200	LC	TC (L)	5.8	980	6.7	1,000	34,250	1.260
Silhouette	150	SIE	JHP	8.7	1,290	9.8	1,395	35,500	1.260
Silhouette	155	HDY	HP XTP	8.6	1,255	9.7	1,355	35,400	1.260
Silhouette	170	WIN	JHP	7.9	1,165	9.1	1,285	34,600	1.260
Silhouette	180	SIE	JHP	7.5	1,110	8.4	1,210	34,400	1.260
Silhouette	190	SIE	FPJ	7.4	1,100	8.3	1,185	34,700	1.260
Silhouette	200	HDY	HP XTP	6.9	1,025	7.8	1,115	35,700	1.260

.41 Magnum

Barrel: 10", Twist 1-18.75" Primer: FED 155

True Blue	170	SIE	JHC	10.0	1,150	12.5	1,390	34,200	1.580
True Blue	210	HDY	HP XTP	9.0	1,050	11.0	1,200	32,000	1.580
Enforcer	170	SIE	JHC	18.0	1,340	20.0	1,500	33,500	1.580
Enforcer	210	HDY	HP XTP	16.0	1,200	18.0	1,350	34,500	1.580

RAMSHOT POWDERS

HANDGUN

.44 Special

Barrel: 8.150", Twist 1-20" Primer: WIN WLP

	Bullet Weight (Grains)	Bullet Make	Bullet Type	Start Load (Grains)	Start Velocity (fps)	Max Load (Grains)	Max Load Velocity (fps)	Max Load Pressure (psi)	COL (inch)
ZIP	180	SIE	JHC	5.8	850	6.8	970	14,200	1.480
ZIP	200	NOS	JHP	5.0	760	6.0	870	13,500	1.470
ZIP	240	HDY	HP XTP	4.0	640	5.0	760	13,000	1.480
True Blue	180	SIE	JHC	8.0	900	9.4	1,040	14,400	1.480
True Blue	200	NOS	JHP	7.0	800	8.3	930	14,100	1.470
True Blue	240	HDY	HP XTP	6.0	710	7.0	815	13,700	1.480

.44 Magnum

Barrel: 8.275", Twist 1-20" Primer: FED 155

	Bullet Weight (Grains)	Bullet Make	Bullet Type	Start Load (Grains)	Start Velocity (fps)	Max Load (Grains)	Max Load Velocity (fps)	Max Load Pressure (psi)	COL (inch)
True Blue	255	CP	WFNPB (L)	11.1	1,100	12.3	1,222	35,200	1.605
True Blue	275	CP	WFNPB (L)	10.8	1,076	12.0	1,195	33,200	1.635
True Blue	300	LC	TC (L)	10.1	1,031	11.2	1,145	32,470	1.590
True Blue	320	CP	WNGC (L)	9.7	972	10.8	1,080	32,500	1.695
True Blue	180	SIE	JHC	14.9	1,476	16.5	1,640	33,800	1.590
True Blue	200	HDY	HP XTP	14.0	1,368	15.5	1,520	34,500	1.595
True Blue	240	NOS	JSP	11.9	1,188	13.2	1,320	34,200	1.595
Enforcer	200	MCB	RN FP (L)	22.6	1,500	25.1	1,667	26,040	1.565
Enforcer	255	CP	WFNGC (L)	18.5	1,285	20.6	1,428	26,110	1.610
Enforcer	300	CP	WFNGC (L)	16.7	1,225	18.5	1,361	32,750	1.590
Enforcer	310	OT	WNFP (L)	16.5	1,171	18.3	1,301	28,210	1.635
Enforcer	320	CP	WLNGC (L)	16.4	1,179	18.2	1,310	32,280	1.695
Enforcer	180	SIE	JHC	24.3	1,683	27.0	1,870	32,510	1.581
Enforcer	240	NOS	JSP	19.8	1,368	22.0	1,520	35,600	1.590
Enforcer	300	HDY	HP XTP	16.2	1,170	18.0	1,300	35,500	1.580

.45 Auto (ACP)

Barrel: 5", Twist 1-16" Primer: FED 150

	Bullet Weight (Grains)	Bullet Make	Bullet Type	Start Load (Grains)	Start Velocity (fps)	Max Load (Grains)	Max Load Velocity (fps)	Max Load Pressure (psi)	COL (inch)
ZIP	155	LC	SWC (L)	6.1	1,013	6.8	1,126	18,340	1.235
ZIP	180	LC	SWC (L)	5.6	910	6.2	1,011	18,590	1.225
ZIP	200	MCB	SWC BB (L)	5.4	864	6.0	960	17,900	1.240
ZIP	230	LC	RN (L)	4.8	792	5.4	882	18,600	1.250
ZIP	185	SIE	FPJ	6.0	950	6.7	1,055	19,100	1.235
ZIP	200	HDY	HP XTP	5.4	846	6.0	940	18,900	1.230
ZIP	230	SIE	JHP	4.2	666	4.7	740	19,200	1.240
Silhouette	155	LC	SWC (L)	8.2	1,035	9.0	1,135	19,700	1.275
Silhouette	180	LC	SWC (L)	7.5	940	8.3	1,055	20,000	1.275
Silhouette	200	LC	SWC (L)	6.6	850	7.6	970	19,700	1.275
Silhouette	230	MCB	RN BB (L)	6.3	845	7.3	915	19,600	1.275
Silhouette	185	SIE	FPJ	8.0	940	8.9	1,045	19,900	1.275
Silhouette	200	SIE	FPJ	7.0	855	7.7	965	19,500	1.275
Silhouette	230	NOS	FMJ	6.1	760	7.0	870	20,000	1.275
True Blue	155	LC	SWC (L)	9.1	1,069	10.1	1,188	19,560	1.260
True Blue	185	RSH	SWC (L)	6.9	864	7.7	960	18,360	1.235
True Blue	230	RSH	RN (L)	6.0	767	6.7	852	19,310	1.250
True Blue	185	NOS	JHP	8.3	944	9.2	1,049	18,630	1.215
True Blue	200	HDY	HP XTP	7.4	857	8.2	952	17,120	1.220
True Blue	230	SIE	FMJ	7.0	832	7.8	905	19,400	1.270

.45 Colt

Barrel: 7.26", Twist 1-16" Primer: FED 150

	Bullet Weight (Grains)	Bullet Make	Bullet Type	Start Load (Grains)	Start Velocity (fps)	Max Load (Grains)	Max Load Velocity (fps)	Max Load Pressure (psi)	COL (inch)
ZIP	185	SIE	JHP	6.6	922	7.8	1,085	12,950	1.540
ZIP	200	SIE	FPJ	6.1	833	7.2	980	13,200	1.580
ZIP	250	NOS	JHP	5.5	751	6.5	884	13,100	1.595
ZIP	300	HDY	HP XTP	4.7	652	5.5	767	12,850	1.655
True Blue	185	SIE	JHP	8.9	942	10.5	1,108	13,200	1.540
True Blue	200	SIE	FPJ	8.5	888	10.0	1,045	12,800	1.580
True Blue	250	NOS	JHP	7.7	803	9.0	945	13,400	1.595
True Blue	300	HDY	HP XTP	6.4	689	7.5	811	13,250	1.655

CAUTION!

Reducing the seating depth may dramatically increase pressure in some handgun cartridges. Always use caution when changing seating.

HANDGUN

.454 Casull

Barrel: 7.5", Twist 1-24" Primer: FED 210

	Bullet Weight (Grains)	Bullet Make	Bullet Type	Start Load (Grains)	Start Velocity (fps)	Max Load (Grains)	Max Load Velocity (fps)	Max Load Pressure (psi)	COL (inch)
True Blue	265	CP	WFNGC (L)	18.5	1,409	20.5	1,565	54,000	1.670
True Blue	335	CP	WLNGC (L)	16.2	1,256	18.0	1,395	53,400	1.735
True Blue	240	SIE	JHC	19.8	1,496	22.0	1,662	53,200	1.765
True Blue	300	HDY	XTP	16.7	1,278	18.5	1,420	53,570	1.760
Enforcer	335	CP	WLNGC (L)	23.4	1,377	26.0	1,530	53,350	1.760
Enforcer	370	CP	WLNGC (L)	21.6	1,258	24.0	1,398	48,200	1.770
Enforcer	395	CP	WLNGC (L)	19.8	1,193	22.0	1,325	48,300	1.770
Enforcer	240	SIE	JHC	28.8	1,656	32.0	1,840	43,250	1.735
Enforcer	260	NOS	PART	27.0	1,575	30.0	1,750	53,500	1.735
Enforcer	300	NOS	PART	25.2	1,463	28.0	1,625	51,400	1.750

.460 S&W

Barrel: 8.37", Twist 1-20" Primer: FED 210

	Bullet Weight (Grains)	Bullet Make	Bullet Type	Start Load (Grains)	Start Velocity (fps)	Max Load (Grains)	Max Load Velocity (fps)	Max Load Pressure (psi)	COL (inch)
Enforcer	240	SIE	JHC	31.0	1,750	39.0	2,150	58,000	2.160
Enforcer	300	HDY	HP XTP	29.0	1,650	34.0	1,890	56,000	2.160

.480 Ruger

Barrel: 7.5", Twist 1-18" Primer: WIN WLP

	Bullet Weight (Grains)	Bullet Make	Bullet Type	Start Load (Grains)	Start Velocity (fps)	Max Load (Grains)	Max Load Velocity (fps)	Max Load Pressure (psi)	COL (inch)
Enforcer	355	TS	WNFPGC (L)	21.9	1,299	24.3	1,443	40,140	1.615
Enforcer	370	CP	LFNPB (L)	21.3	1,284	23.7	1,427	42,420	1.660
Enforcer	375	CP	LFNGC (L)	19.7	1,220	21.9	1,356	41,640	1.610
Enforcer	325	HDY	HP XTP	22.9	1,372	25.4	1,524	43,290	1.615

.500 S&W

Barrel: 8.37", Twist 1-18" Primer: WIN WLR

	Bullet Weight (Grains)	Bullet Make	Bullet Type	Start Load (Grains)	Start Velocity (fps)	Max Load (Grains)	Max Load Velocity (fps)	Max Load Pressure (psi)	COL (inch)
Enforcer	440	CP	WFNGC (L)	29.7	1,386	33.0	1,540	47,800	2.025
Enforcer	325	BAR	XPB	38.3	1,654	42.5	1,838	47,700	2.285
Enforcer	350	SIE	JHP	36.0	1,557	40.0	1,730	48,500	2.050
Enforcer	375	BAR	XPB	32.4	1,491	36.0	1,657	49,800	2.285

TRUE BLUE™

PISTOL POWDER

Versatile • Clean • Consistent

The choice for the New FN 5.7 x 28

RAMSHOT POWDERS

RIFLE

.17 Remington

Barrel: 24", Twist 1-10" Primer: FED 205

	Bullet Weight (Grains)	Bullet Make	Bullet Type	Start Load (Grains)	Start Velocity (fps)	Max Load (Grains)	Max Load Velocity (fps)	Max Load Pressure (psi)	COL (inch)
X-Terminator	20	HDY	V-MAX	19.0	3,750	21.5	4,035	59,500	2.150
X-Terminator	25	HDY	HP	18.5	3,550	21.0	3,800	60,000	2.150
TAC	20	HDY	V-MAX	20.0	3,650	23.0	4,050	61,000	2.150
TAC	25	HDY	HP	19.5	3,450	22.3	3,810	61,100	2.150

.204 Ruger

Barrel: 24", Twist 1-12" Primer: WIN WSR

X-Terminator	32	SIE	BK	24.8	3,607	27.5	4,008	56,300	2.250
X-Terminator	40	HDY	V-MAX	23.0	3,241	25.5	3,601	53,000	2.250
TAC	32	SIE	BK	26.0	3,700	28.5	4,100	58,100	2.250
TAC	40	HDY	V-MAX	24.0	3,300	27.0	3,680	56,000	2.250

.20 Tactical

Barrel: 24", Twist 1-12" Primer: WIN WSR

X-Terminator	32	SIE	BK	24.0	3,733	26.6	4,035	63,000	2.200
X-Terminator	40	HDY	V-MAX	22.2	3,427	24.7	3,697	63,000	2.240
TAC	32	SIE	BK	24.3	3,666	27.0	3,997	62,900	2.200
TAC	40	HDY	V-MAX	23.2	3,448	25.7	3,708	63,025	2.240
TAC	50	BGR	LTB	22.1	3,118	24.6	3,374	62,870	2.240

.20 Vartarg

Barrel: 24", Twist 1-12" Primer: WIN WSR

X-Terminator	32	SIE	BK	18.4	3,200	20.4	3,556	51,383	1.855
X-Terminator	40	HDY	V-MAX	17.8	3,021	19.8	3,356	56,000	1.825

.20 Vartarg Turbo

Barrel: 24", Twist 1-12" Primer: WIN WSR

X-Terminator	32	SIE	BK	22.1	3,560	24.6	3,935	58,000	2.000
X-Terminator	40	HDY	V-MAX	21.6	3,401	24.0	3,701	63,000	2.030

.20 PPC @ 59,000 psi (Standard Loads)

Barrel: 26", Twist 1-12" Primer: WIN WSR

TAC	32	SIE	BK	26.3	3,915	29.2	4,143	57,000	1.947
TAC	40	HDY	V-MAX	24.8	3,447	27.5	3,780	57,000	1.955
BIG GAME	50	BGR	LTB	27.3	3,241	30.3	3,547	58,000	1.995

.20 PPC +P @ 63,000 psi

TAC	32	SIE	BK	26.7	3,943	29.7	4,176	63,000	1.947
TAC	40	HDY	V-MAX	25.5	3,532	28.3	3,883	62,900	1.955

.20 BR @ 59,000 psi (Standard Loads)

Barrel: 26", Twist 1-12" Primer: WIN WSR

TAC	32	SIE	BK	28.2	3,827	31.4	4,194	58,000	1.992
TAC	40	HDY	V-MAX	27.2	3,581	30.2	3,901	57,925	2.000
BIG GAME	40	HDY	V-MAX	31.0	3,588	34.4	3,931	58,100	1.992
BIG GAME	50	BGR	LTB	28.3	3,293	31.4	3,550	57,900	2.020

.20 BR +P @ 63,000 psi

TAC	32	SIE	BK	28.9	3,903	32.1	4,285	62,900	1.992
TAC	40	HDY	V-MAX	28.0	3,669	31.2	4,004	62,920	2.000
BIG GAME	50	BGR	LTB	29.4	3,388	32.7	3,664	63,000	2.020

TAC™

RIFLE POWDER

The Ultimate... from Varmint to High Power Competition

RIFLE

.22 Hornet

Barrel: 20", Twist 1-14" Primer: FED 205

Enforcer	40	BAR	VLC	8.1	2,320	9.0	2,578	42,350	1.720
Enforcer	40	HDY	V-MAX	8.1	2,251	9.0	2,501	37,740	1.720
Enforcer	40	NOS	B-TIP	8.1	2,298	9.0	2,553	42,100	1.720
Enforcer	50	HDY	SPSX	7.7	2,138	8.5	2,375	45,500	1.720

.222 Remington

Barrel: 24", Twist 1-14" Primer: WIN WSR

X-Terminator	40	BAR	VLC	22.5	3,105	25.0	3,450	48,500	2.095
X-Terminator	40	HDY	V-MAX	22.8	3,129	25.3	3,477	45,500	2.110
X-Terminator	40	NOS	B-TIP	22.5	3,098	25.0	3,442	44,770	2.110
X-Terminator	50	BAR	VLC	21.1	2,849	23.4	3,166	45,700	2.130
X-Terminator	50	NOS	B-TIP	21.2	2,866	23.5	3,184	48,170	2.130
X-Terminator	52	SIE	HPBT	21.2	2,820	23.5	3,133	48,790	2.130
X-Terminator	55	HDY	V-MAX (M)	20.1	2,652	22.3	2,947	45,290	2.130
X-Terminator	55	NOS	B-TIP	20.3	2,741	22.6	3,046	49,390	2.130
TAC	40	HDY	V-MAX	22.8	3,119	25.3	3,465	49,550	2.095
TAC	45	BAR	XBT	22.1	2,985	24.6	3,317	49,830	2.130
TAC	50	BAR	VLC	21.2	2,806	23.6	3,118	48,520	2.130
TAC	50	NOS	B-TIP	21.1	2,819	23.4	3,132	48,820	2.130
TAC	55	SIE	BK	21.1	2,742	23.4	3,047	48,120	2.135

.223 Remington

Barrel: 24", Twist 1-12" Primer: FED 205

X-Terminator	40	HDY	V-MAX	24.8	3,340	27.5	3,711	52,260	2.240
X-Terminator	40	NOS	B-TIP	25.2	3,389	28.0	3,765	52,990	2.275
X-Terminator	50	BAR	VLC	23.9	3,089	26.5	3,432	52,970	2.255
X-Terminator	50	NOS	B-TIP	22.6	2,995	25.1	3,328	53,000	2.250
X-Terminator	52	HDY	BTHP	23.0	3,030	25.5	3,133	50,820	2.260
X-Terminator	55	SIE	BK	22.8	2,981	25.3	3,312	52,490	2.260
X-Terminator	60	NOS	PART	22.0	2,870	24.5	3,189	54,450	2.260
X-Terminator	63	SIE	SMP	22.1	2,757	24.6	3,063	52,070	2.260
TAC	40	BAR	VLC	25.5	3,348	28.3	3,720	52,270	2.185
TAC	50	BAR	XLC	23.6	3,001	26.2	3,334	51,080	2.210
TAC	50	HDY	V-MAX	24.0	3,059	26.7	3,399	51,870	2.260
TAC	50	NOS	B-TIP	24.8	3,104	27.5	3,449	53,990	2.250
TAC	52	SIE	HPBT	23.6	3,025	26.2	3,361	52,220	2.200
TAC	53	BAR	X	23.8	2,933	26.4	3,259	51,100	2.250
TAC	55	NOS	B-TIP	22.7	2,869	25.2	3,188	50,980	2.260
TAC	55	SIE	SPT	22.7	2,853	25.2	3,170	49,000	2.260
TAC	55	HDY	HP	22.7	2,890	25.3	3,211	53,740	2.225

.223 Remington 1 in 7 or 9 twist barrel

Barrel: 24", Twist 1-7" or 1-9" Primer: FED 205

TAC	68	HDY	BTHP	23.0	2,714	25.5	3,015	52,580	2.260
TAC	69	SIE	HPBT	22.7	2,704	25.2	3,004	51,780	2.260
TAC	75	HDY	BTHP	21.2	2,511	23.6	2,790	50,760	2.260
TAC	77	NOS	HPBT	21.2	2,515	23.5	2,794	52,500	2.260
TAC	80	SIE	HPBT	20.7	2,444	23.0	2,715	53,500	2.260

.22-250 Remington

Barrel: 24", Twist 1-14" Primer: WIN WLR

TAC	40	HDY	V-MAX (M)	33.9	3,753	38.5	4,190	63,200	2.350
TAC	40	NOS	B-TIP	33.8	3,722	38.9	4,186	62,200	2.350
TAC	50	HDY	V-MAX	31.8	3,391	35.3	3,763	60,060	2.350
TAC	55	HDY	V-MAX	29.7	3,223	33.0	3,581	61,950	2.350
TAC	55	NOS	B-TIP	29.5	3,237	32.8	3,597	59,670	2.350
TAC	55	SIE	HPBT	30.4	3,290	33.8	3,655	62,340	2.350
BIG GAME	50	BAR	X	36.6	3,449	40.7	3,832	60,160	2.350
BIG GAME	50	BAR	VLC	36.5	3,422	40.5	3,802	58,820	2.350
BIG GAME	50	NOS	B-TIP	36.4	3,457	40.4	3,841	61,250	2.350
BIG GAME	52	HDY	BTHP	36.0	3,400	40.0	3,778	62,770	2.350
BIG GAME	52	SIE	HPBT	36.5	3,396	40.6	3,773	60,870	2.350
BIG GAME	53	BAR	VLC	35.9	3,365	39.9	3,739	60,710	2.350
BIG GAME	53	SIE	HPBT	36.5	3,361	40.5	3,734	60,350	2.350
BIG GAME	55	HDY	FMJ	35.6	3,323	39.5	3,692	61,360	2.350
BIG GAME	55	HDY	SPSX	35.8	3,323	39.8	3,692	62,450	2.350
BIG GAME	55	NOS	B-TIP	35.6	3,326	39.5	3,695	62,860	2.350
BIG GAME	60	HDY	SP	33.7	3,128	37.4	3,475	60,330	2.350

RAMSHOT POWDERS

RIFLE

.220 Swift

Barrel: 24", Twist 1-14" Primer: FED 210

Bullet	Weight (Grains)	Bullet Make	Bullet Type	Start Load (Grains)	Start Velocity (fps)	Max Load (Grains)	Max Load Velocity (fps)	Max Load Pressure (psi)	COL (inch)
BIG GAME	50	HDY	V-MAX	37.0	3,500	41.0	3,800	60,000	2.680
BIG GAME	55	SIE	BK	36.0	3,450	40.0	3,600	60,000	2.680
BIG GAME	60	HDY	V-MAX	34.0	3,200	38.0	3,450	61,000	2.680
HUNTER	50	NOS	B-TIP	39.4	3,493	43.8	3,881	59,120	2.680
HUNTER	52	SIE	HPBT	39.8	3,394	44.2	3,771	56,990	2.600
HUNTER	53	BAR	X	39.0	3,407	43.3	3,785	62,720	2.680
HUNTER	55	HDY	V-MAX (M)	40.1	3,404	44.6	3,782	62,480	2.680
HUNTER	55	NOS	B-TIP	40.0	3,432	44.4	3,813	61,380	2.680

.223 Winchester Super Short Magnum

Barrel: 24", Twist 1-12" Primer: WIN WLR

BIG GAME	50	NOS	B-TIP	41.4	3,538	46.0	3,931	63,320	2.195
BIG GAME	53	BAR	X	36.5	3,275	40.5	3,639	61,190	2.200
BIG GAME	55	HDY	SP	38.0	3,333	42.2	3,703	62,500	2.200
BIG GAME	55	SIE	BK	39.8	3,382	44.2	3,758	61,060	2.200
HUNTER	50	BAR	VAR	43.7	3,516	48.6	3,907	62,200	2.170
HUNTER	55	NOS	B-TIP	43.3	3,407	48.1	3,786	60,860	2.200
HUNTER	60	SIE	HP	42.8	3,349	47.5	3,721	64,500	2.200
HUNTER	60	HDY	V-MAX	42.8	3,309	47.6	3,677	62,310	2.200
HUNTER	63	SIE	SMP	39.8	3,163	44.2	3,514	59,990	2.200

.243 Winchester

Barrel: 24", Twist 1-10" Primer: WIN WLR

BIG GAME	65	HDY	V-MAX	41.1	3,185	45.7	3,539	52,950	2.600
BIG GAME	90	SIE	FMJ	36.7	2,766	40.8	3,073	57,500	2.600
BIG GAME	95	NOS	B-TIP	35.9	2,669	39.9	2,966	56,980	2.590
BIG GAME	100	SIE	SBT	34.2	2,508	38.0	2,787	55,380	2.600
BIG GAME	105	HDY	A-MAX	33.9	2,561	37.7	2,845	57,350	2.680
HUNTER	72	BAR	VAR	45.1	3,198	50.1	3,553	58,000	2.605
HUNTER	80	NOS	B-TIP	42.9	3,038	47.7	3,376	57,950	2.710
HUNTER	87	HDY	BTHP	41.0	2,921	45.5	3,246	57,920	2.710
HUNTER	90	SIE	GK	40.1	2,851	44.6	3,168	57,250	2.710
HUNTER	95	NOS	CT BS	40.1	2,779	44.5	3,088	58,610	2.710
HUNTER	100	NOS	PART	38.8	2,668	43.1	2,964	57,960	2.710
HUNTER	107	SIE	HPBT	38.7	2,654	43.0	2,949	58,650	2.710
HUNTER	115	BAR	RN	36.7	2,478	40.8	2,753	58,590	2.710

6mm Remington

Barrel: 24", Twist 1-10" Primer: FED 210

BIG GAME	55	NOS	B-TIP	44.8	3,539	49.8	3,932	60,060	2.795
BIG GAME	70	NOS	B-TIP	42.3	3,263	47.0	3,625	62,500	2.810
BIG GAME	75	HDY	V-MAX	41.4	3,062	46.0	3,405	62,720	2.825
BIG GAME	80	SIE	SBT	40.7	3,078	45.2	3,420	61,210	2.825
BIG GAME	87	HDY	BTHP	39.2	2,952	43.5	3,280	62,500	2.825
BIG GAME	100	NOS	PART	37.4	2,696	41.5	2,996	61,780	2.790
HUNTER	55	NOS	B-TIP	46.2	3,317	51.3	3,685	49,170	2.805
HUNTER	60	SIE	HP	46.6	3,306	51.8	3,673	54,090	2.720
HUNTER	70	NOS	B-TIP	46.4	3,203	51.5	3,559	57,910	2.810
HUNTER	75	HDY	V-MAX	45.1	3,180	50.1	3,533	61,370	2.775
HUNTER	80	NOS	B-TIP	42.3	3,011	47.0	3,346	57,390	2.825
HUNTER	85	BAR	XBT	43.3	2,975	48.1	3,306	62,970	2.825
HUNTER	95	Win	CT BS	42.2	2,847	46.9	3,163	62,230	2.825
HUNTER	100	SIE	SPT	40.4	2,745	44.9	3,050	62,370	2.825
MAGNUM	87	HDY	BTHP	48.0	2,862	53.3	3,180	59,500	2.810
MAGNUM	100	HDY	BTSP INTK	47.7	2,756	53.0	3,062	60,610	2.800
MAGNUM	100	NOS	PART	47.7	2,754	53.0	3,060	61,450	2.825

.243 Winchester Super Short Magnum

Barrel: 24", Twist 1-10" Primer: WIN WLR

HUNTER	75	HDY	V-MAX	45.0	3,250	50.0	3,550	62,200	2.300
HUNTER	85	SIE	HPBT	43.0	3,040	48.0	3,350	64,100	2.300
HUNTER	100	SIE	SBT	41.0	2,830	46.0	3,150	63,900	2.310
MAGNUM	85	SIE	HPBT	49.0	2,950	54.0	3,280	62,500	2.295
MAGNUM	100	SIE	SBT	47.0	2,850	52.0	3,150	62,500	2.310

RIFLE

6mm PPC

Barrel: 24", Twist 1-14" Primer: FED 205

X-Terminator	75	SIE	HP	24.8	2,700	27.5	3,000	57,100	2.090
X-Terminator	80	NOS	B-TIP	24.0	2,650	27.0	2,950	57,500	2.110
X-Terminator	100	SIE	SBT	22.5	2,450	25.0	2,700	57,200	2.170
X-Terminator	107	SIE	HPBT	22.0	2,350	24.5	2,600	57,700	2.193
TAC	75	SIE	HP	26.0	2,650	29.5	3,000	58,100	2.090
TAC	80	NOS	B-TIP	25.5	2,600	29.0	2,950	58,500	2.110
TAC	100	SIE	SBT	24.3	2,475	27.0	2,740	57,900	2.170
TAC	107	SIE	HPBT	23.0	2,350	26.0	2,650	56,700	2.193

.257 Roberts

Barrel: 24", Twist 1-10" Primer: FED 210

BIG GAME	75	SIE	HP	42.5	3,140	47.5	3,450	52,500	2.700
BIG GAME	100	NOS	B-TIP	37.5	2,750	42.0	3,020	52,900	2.775
BIG GAME	117	SIE	SBT	35.5	2,530	39.5	2,770	52,100	2.775
HUNTER	75	SIE	HP	44.0	3,000	49.0	3,320	50,300	2.700
HUNTER	100	NOS	B-TIP	40.0	2,690	45.0	3,000	52,200	2.775
HUNTER	117	SIE	SBT	39.0	2,560	43.5	2,840	53,500	2.775

.257 Roberts +P

Barrel: 24", Twist 1-10" Primer: FED 210

HUNTER	75	SIE	HP	47.0	3,150	52.0	3,550	56,800	2.700
HUNTER	100	NOS	B-TIP	42.0	2,800	46.5	3,090	57,300	2.775
HUNTER	117	SIE	SBT	40.0	2,620	44.5	2,890	57,100	2.775
MAGNUM	100	NOS	B-TIP	50.0	2,780	53.5	3,050	57,200	2.775
MAGNUM	117	SIE	SBT	47.0	2,630	51.5	2,900	56,500	2.775

.25-06 Remington

Barrel: 24", Twist 1-10" Primer: FED 210

HUNTER	75	HDY	V-MAX	53.8	3,355	59.8	3,766	60,770	3.160
HUNTER	90	BAR	XBT	49.5	3,028	55.0	3,364	61,250	3.180
HUNTER	100	SIE	HPBT	49.8	2,992	55.3	3,324	62,190	3.215
HUNTER	117	HDY	BTSP	46.9	2,717	52.1	3,019	61,440	3.155
HUNTER	120	NOS	PART	46.1	2,676	51.2	2,973	61,650	3.245
MAGNUM	75	HDY	V-MAX	57.2	3,137	63.6	3,485	53,980	3.140
MAGNUM	90	BAR	SOLID	57.3	2,980	63.7	3,311	58,270	3.250
MAGNUM	100	BAR	X	53.6	2,867	59.5	3,185	57,470	3.165
MAGNUM	100	NOS	PART	55.6	2,937	61.8	3,263	58,020	3.250
MAGNUM	100	SIE	SPT	57.2	2,959	63.5	3,288	58,950	3.200
MAGNUM	115	NOS	PART	54.0	2,792	60.0	3,102	59,190	3.225
MAGNUM	117	HDY	BTSP	54.5	2,811	60.5	3,123	61,300	3.170
MAGNUM	117	SIE	SPT	53.8	2,768	59.8	3,076	60,540	3.200

.25 Winchester Super Short Magnum

Barrel: 24", Twist 1-10" Primer: WIN WLR

BIG GAME	90	SIE	HPBT	44.0	3,170	48.5	3,485	64,100	2.252
BIG GAME	100	NOS	B-TIP	41.0	2,950	46.0	3,280	64,500	2.320
BIG GAME	120	SIE	HPBT	39.0	2,675	43.5	2,980	63,410	2.275
HUNTER	90	SIE	HPBT	46.0	3,150	51.5	3,500	63,320	2.252
HUNTER	100	NOS	B-TIP	44.0	2,980	49.5	3,300	63,110	2.320
HUNTER	120	SIE	HPBT	42.0	2,730	47.0	3,040	64,750	2.275

.260 Remington

Barrel: 24", Twist 1-9" Primer: WIN WLR

BIG GAME	95	HDY	V-MAX	41.4	2,882	46.0	3,202	52,110	2.750
BIG GAME	100	NOS	B-TIP	40.5	2,840	45.0	3,156	57,740	2.800
BIG GAME	107	SIE	HPBT	40.5	2,782	45.0	3,091	56,840	2.800
BIG GAME	120	BAR	X	36.2	2,469	40.2	2,743	57,570	2.800
BIG GAME	129	HDY	SP INTK	36.9	2,458	41.0	2,731	57,860	2.800
BIG GAME	140	BAR	VLC	34.0	2,255	37.8	2,505	54,590	2.800
HUNTER	107	SIE	HPBT	44.6	2,777	49.6	3,086	54,580	2.800
HUNTER	120	NOS	B-TIP	41.2	2,581	45.8	2,868	57,080	2.795
HUNTER	129	HDY	SP INTK	39.2	2,422	43.5	2,691	53,420	2.800
HUNTER	140	BAR	X	36.7	2,272	40.8	2,524	53,640	2.800
HUNTER	140	HDY	SP INTK	39.2	2,354	43.6	2,615	54,790	2.795
HUNTER	160	SIE	SMP	36.5	2,205	40.5	2,450	52,480	2.615

RAMSHOT POWDERS

RIFLE

6.5 x 55 Swedish Mauser

Barrel: 24", Twist 1-9" Primer: WIN WLR

	Bullet Weight (Grains)	Bullet Make	Bullet Type	Start Load (Grains)	Start Velocity (fps)	Max Load (Grains)	Max Load Velocity (fps)	Max Load Pressure (psi)	COL (inch)
HUNTER	107	SIE	HPBT	43.2	2,747	48.0	3,052	54,130	2.945
HUNTER	120	NOS	B-TIP	40.1	2,481	44.5	2,757	50,630	2.930
HUNTER	130	BAR	X	37.8	2,331	42.0	2,590	53,500	2.975
HUNTER	140	BAR	XLC	38.7	2,300	43.0	2,555	51,850	2.980
HUNTER	140	SIE	HPBT	39.2	2,406	43.0	2,673	54,920	2.990
HUNTER	142	SIE	HPBT	38.4	2,345	42.7	2,605	52,830	3.000
MAGNUM	125	NOS	PART	47.1	2,539	52.3	2,821	55,040	2.925
MAGNUM	129	HDY	SP INTK	47.2	2,500	52.4	2,778	54,590	2.925
MAGNUM	140	HDY	SP INTK	46.4	2,441	50.6	2,712	54,490	2.990
MAGNUM	140	NOS	PART	46.4	2,500	49.8	2,778	55,010	2.990
MAGNUM	140	SIE	SBT	46.4	2,455	51.6	2,728	55,090	2.915

6.5 x 284 Winchester

Barrel: 24", Twist 1-9" Primer: WIN WLR

HUNTER	100	NOS	B-TIP	51.3	3,085	57.0	3,428	60,740	2.965
HUNTER	120	SIE	HPBT	48.6	2,858	54.0	3,176	61,880	2.995
HUNTER	129	HDY	SP INTK	45.2	2,666	50.2	2,962	59,220	2.945
HUNTER	140	NOS	PART	43.7	2,570	48.5	2,855	62,140	2.995
MAGNUM	120	SIE	HPBT	57.6	2,980	64.0	3,245	62,200	2.987
MAGNUM	140	SIE	SBT	55.8	2,800	62.0	3,070	64,000	3.060
MAGNUM	142	SIE	HPBT	53.0	2,650	59.0	2,900	63,500	3.200

6.5 Grendel

Barrel: 24", Twist 1-9" Primer: WIN WLR

X-Terminator	85	SIE	HP	28.9	2,809	32.1	3,108	52,000	2.150
X-Terminator	95	HDY	V-MAX	27.5	2,691	30.8	2,943	51,980	2.190
X-Terminator	100	NOS	B-TIP	26.7	2,562	29.7	2,815	51,920	2.230
X-Terminator	107	SIE	HPBT	26.3	2,484	29.2	2,754	51,000	2.260
X-Terminator	120	SIE	HPBT	25.1	2,322	27.9	2,564	51,970	2.260

6.8 SPC

Barrel: 24", Twist 1-10" Primer: FED 210

X-Terminator	90	SIE	HP	30.0	2,680	32.5	2,970	55,400	2.260
X-Terminator	110	HDY	V-MAX	26.0	2,450	29.5	2,650	54,000	2.260
X-Terminator	130	SIE	SBT	25.0	2,200	27.5	2,430	56,200	2.260

.270 Winchester

Barrel: 24", Twist 1-10" Primer: WIN WLR

HUNTER	110	SIE	SPT	51.5	2,764	60.3	3,375	59,900	3.103
HUNTER	140	BAR	XBT	49.5	2,653	56.5	3,039	62,000	3.200
HUNTER	150	SIE	SBT	50.0	2,599	55.3	2,914	61,110	3.275
HUNTER	160	NOS	PART	48.6	2,518	53.0	2,820	61,330	3.275
MAGNUM	130	BAR	X	57.8	2,682	64.2	3,042	58,780	3.310
MAGNUM	130	SIE	GK	57.7	2,793	64.1	3,103	60,680	3.290
MAGNUM	140	NOS	B-TIP	57.0	2,662	63.3	2,958	58,610	3.300
MAGNUM	150	BAR	X	55.1	2,520	61.2	2,800	59,990	3.225
MAGNUM	150	HDY	SP	56.4	2,572	62.7	2,858	60,880	3.170
MAGNUM	150	NOS	PART	56.3	2,588	62.6	2,875	61,310	3.280

.270 Winchester Short Magnum

Barrel: 24", Twist 1-10" Primer: WIN WLRM

HUNTER	90	SIE	HP	64.8	3,353	72.0	3,726	61,590	2.800
HUNTER	110	HDY	V-MAX	60.5	3,118	67.2	3,464	61,250	2.800
HUNTER	130	BAR	XBT	56.9	2,811	63.2	3,123	57,930	2.850
HUNTER	140	NOS	B-TIP	54.6	2,700	60.7	3,000	57,680	2.830
HUNTER	150	SIE	SBT	53.9	2,642	59.9	2,935	59,390	2.845
MAGNUM	110	HDY	V-MAX	68.2	3,045	75.8	3,383	57,190	2.740
MAGNUM	120	BAR	X	67.9	2,984	75.4	3,316	63,020	2.795
MAGNUM	130	HDY	SP INTK	68.5	2,994	76.1	3,327	64,990	2.790
MAGNUM	130	NOS	PART	67.4	2,918	74.9	3,242	63,210	2.800
MAGNUM	130	SIE	SBT	68.0	2,977	75.5	3,308	62,250	2.835
MAGNUM	135	NOS	PART	67.5	2,920	75.0	3,244	63,190	2.785
MAGNUM	140	HDY	SP INTK	66.2	2,815	73.5	3,128	62,690	2.800
MAGNUM	140	NOS	B-TIP	66.6	2,877	74.0	3,197	63,860	2.815
MAGNUM	150	BAR	XFB	62.8	2,707	69.8	3,008	62,790	2.850
MAGNUM	150	HDY	SP INTK	64.7	2,726	71.9	3,029	63,770	2.773
MAGNUM	150	NOS	PART	64.9	2,793	72.1	3,103	63,330	2.835
MAGNUM	160	NOS	PART	64.0	2,688	71.1	2,987	62,250	2.800

RIFLE

7mm-08 Remington

Barrel: 24", Twist 1-9" Primer: FED 210

BIG GAME	100	HDY	HP	45.7	2,875	50.9	3,194	50,320	2.710
BIG GAME	120	BAR	XBT	44.2	2,756	49.1	3,062	57,850	2.835
BIG GAME	139	HDY	SP	43.2	2,558	48.0	2,842	56,560	2.800
BIG GAME	140	BAR	XBT	41.9	2,528	46.5	2,809	56,550	2.800
BIG GAME	150	NOS	PART	40.1	2,409	44.5	2,677	57,600	2.740
BIG GAME	160	BAR	X	37.3	2,219	41.4	2,465	56,830	2.800
BIG GAME	160	SIE	HPBT	39.2	2,321	43.5	2,579	57,860	2.780
BIG GAME	175	HDY	SP	38.3	2,185	42.5	2,428	57,790	2.750
HUNTER	160	SIE	HPBT	44.0	2,550	48.0	2,750	58,500	2.800
HUNTER	175	SIE	SBT	42.0	2,450	46.0	2,650	58,500	2.800

.280 Remington

Barrel: 24", Twist 1-9" Primer: WIN WLR

HUNTER	130	SIE	HPBT	49.3	2,699	54.8	2,999	55,460	3.315
HUNTER	139	HDY	SP	49.7	2,649	55.2	2,943	57,490	3.285
HUNTER	140	BAR	XBT	48.2	2,596	53.5	2,884	56,540	3.330
HUNTER	150	NOS	PART	49.0	2,560	54.5	2,850	57,500	3.330
HUNTER	160	BAR	X	45.5	2,383	50.5	2,648	56,080	3.310
HUNTER	175	SIE	SBT	44.6	2,319	49.5	2,577	55,320	3.330
MAGNUM	160	SIE	SBT	52.6	2,457	58.4	2,730	54,530	3.255
MAGNUM	162	HDY	BTSP	54.3	2,517	60.3	2,797	58,590	3.255
MAGNUM	175	HDY	SP	53.0	2,395	58.9	2,661	59,640	3.245
MAGNUM	175	NOS	PART	50.9	2,353	56.5	2,614	58,780	3.285
MAGNUM	175	SIE	SBT	53.0	2,408	58.9	2,676	56,820	3.260

7mm Remington Magnum

Barrel: 24", Twist 1-9" Primer: FED 215

HUNTER	120	HDY	SP	60.4	2,970	67.1	3,300	58,290	3.200
HUNTER	140	NOS	B-TIP	55.8	2,787	64.0	3,144	60,300	3.240
HUNTER	160	BAR	X	54.0	2,525	60.0	2,806	55,450	3.280
HUNTER	160	SIE	SBT	53.7	2,641	59.7	2,934	58,590	3.290
MAGNUM	120	NOS	B-TIP	71.1	3,021	79.0	3,357	56,430	3.285
MAGNUM	140	BAR	XBT	68.4	2,823	76.0	3,137	58,330	3.235
MAGNUM	150	NOS	CT BS	67.5	2,773	75.0	3,081	59,050	3.265
MAGNUM	160	BAR	X	64.1	2,652	71.2	2,947	60,200	3.270
MAGNUM	162	HDY	A-MAX	65.3	2,652	72.6	2,947	58,280	3.290
MAGNUM	175	NOS	PART	63.1	2,567	70.1	2,852	58,540	3.270

7mm Remington Short Action Ultra Magnum

Barrel: 24", Twist 1-9.5" Primer: FED 215

HUNTER	120	NOS	B-TIP	57.0	2,950	63.0	3,250	63,200	2.589
HUNTER	140	NOS	B-TIP	55.0	2,800	61.0	3,050	63,400	2.800
HUNTER	160	SIE	SBT	52.0	2,620	58.0	2,900	63,500	2.800
MAGNUM	160	SIE	SBT	63.0	2,750	68.0	3,020	64,070	2.800
MAGNUM	175	SIE	HPBT	59.0	2,540	66.0	2,850	64,120	2.800

7mm Winchester Short Magnum

Barrel: 24", Twist 1-9" Primer: WIN WLRM

HUNTER	100	HDY	HP	64.3	3,255	71.4	3,617	58,670	2.790
HUNTER	130	BAR	XBT	56.7	2,850	63.0	3,150	63,000	2.860
HUNTER	140	NOS	B-TIP	58.1	2,808	64.5	3,120	58,410	2.860
HUNTER	150	NOS	PART	56.0	2,712	62.2	3,013	59,290	2.840
HUNTER	162	HDY	BTSP	54.3	2,600	60.3	2,889	58,900	2.860
HUNTER	175	NOS	PART	52.7	2,498	58.6	2,776	60,760	2.855
MAGNUM	130	SIE	HPBT	69.4	2,923	77.1	3,248	55,420	2.845
MAGNUM	139	HDY	SST	69.0	2,921	76.7	3,245	58,960	2.850
MAGNUM	140	BAR	XBT	70.1	2,890	77.9	3,211	59,440	2.850
MAGNUM	150	NOS	CT BS	68.8	2,847	76.4	3,163	62,160	2.845
MAGNUM	160	SIE	SBT	66.5	2,776	73.9	3,084	64,010	2.840
MAGNUM	162	HDY	BTSP	67.5	2,777	75.0	3,085	63,710	2.860
MAGNUM	175	NOS	PART	65.0	2,633	72.2	2,925	63,380	2.850

7mm STW (Shooting Times Western)

Barrel: 24", Twist 1-9" Primer: FED 215

MAGNUM	130	SIE	HPBT (M)	78.5	3,138	87.2	3,487	59,990	3.550
MAGNUM	139	HDY	SST INTK	77.4	3,092	86.0	3,435	61,600	3.590
MAGNUM	140	NOS	B-TIP	75.6	2,972	84.0	3,302	61,660	3.540
MAGNUM	150	BAR	X	74.7	2,927	83.0	3,252	62,530	3.550
MAGNUM	160	NOS	PART	72.9	2,854	81.0	3,171	61,070	3.600

RAMSHOT POWDERS

RIFLE

.30-30 Winchester

Barrel: 24", Twist 1-12" Primer: WIN WLR

	Bullet Weight (Grains)	Bullet Make	Bullet Type	Start Load (Grains)	Start Velocity (fps)	Max Load (Grains)	Max Load Velocity (fps)	Max Load Pressure (psi)	COL (inch)
TAC	170	TS	RNFPGC (L)	25.1	1,859	27.9	2,065	29,460	2.520
TAC	125	SIE	HPFN	32.2	2,363	35.8	2,625	39,760	2.410
TAC	150	HDY	RN	29.7	2,125	33.0	2,361	39,610	2.520
TAC	170	SIE	HPFN	27.5	1,962	30.5	2,180	37,010	2.515
BIG GAME	170	TS	RNFPGC (L)	28.6	1,799	31.8	1,999	22,600	2.520
BIG GAME	125	SIE	HPFN	34.9	2,179	38.8	2,421	26,780	2.435
BIG GAME	150	SIE	HPFN	33.5	2,070	37.2	2,300	29,420	2.530

.308 Winchester

Barrel: 24", Twist 1-10" Primer: FED 210

	Bullet Weight (Grains)	Bullet Make	Bullet Type	Start Load (Grains)	Start Velocity (fps)	Max Load (Grains)	Max Load Velocity (fps)	Max Load Pressure (psi)	COL (inch)
TAC	125	NOS	B-TIP	44.4	2,840	49.3	3,177	56,110	2.780
TAC	150	HDY	SP	41.9	2,598	46.5	2,887	57,500	2.720
TAC	150	SIE	HPBT	42.3	2,613	47.0	2,903	58,900	2.800
TAC	155	SIE	PALMA	41.7	2,593	46.3	2,881	58,440	2.810
TAC	165	HDY	SP	39.9	2,417	44.3	2,685	56,370	2.750
TAC	165	NOS	B-TIP	40.1	2,436	44.5	2,707	57,080	2.800
TAC	165	SIE	HPBT	40.1	2,449	44.5	2,721	57,100	2.770
BIG GAME	168	SIE	SBT	46.0	2,640	49.0	2,790	57,000	2.800
BIG GAME	180	SIE	SBT	44.0	2,500	47.0	2,650	58,000	2.800

.30-06 Springfield

Barrel: 24", Twist 1-10" Primer: WIN WLR

	Bullet Weight (Grains)	Bullet Make	Bullet Type	Start Load (Grains)	Start Velocity (fps)	Max Load (Grains)	Max Load Velocity (fps)	Max Load Pressure (psi)	COL (inch)
BIG GAME	130	HDY	SP	54.3	2,829	60.3	3,143	56,610	3.200
BIG GAME	150	NOS	B-TIP	51.8	2,639	57.5	2,932	54,600	3.240
BIG GAME	150	NOS	PART	52.2	2,651	58.0	2,945	54,700	3.235
BIG GAME	165	NOS	B-TIP	49.5	2,507	55.0	2,786	56,710	3.215
BIG GAME	165	SIE	SBT	50.4	2,552	56.0	2,836	57,230	3.155
BIG GAME	168	SIE	HPBT (M)	49.7	2,525	55.2	2,806	56,750	3.260
BIG GAME	178	HDY	A-MAX	45.9	2,361	51.0	2,623	55,580	3.235
HUNTER	150	HDY	SST INTK	55.2	2,616	62.5	2,950	57,500	3.210
HUNTER	165	SIE	HPBT	54.9	2,572	61.0	2,858	55,670	3.230
HUNTER	180	BAR	X	52.2	2,405	58.0	2,672	55,600	3.255
HUNTER	180	HDY	BTSP INTK	54.0	2,492	60.0	2,769	57,230	3.320
HUNTER	200	BAR	X	48.8	2,266	54.2	2,518	57,190	3.240
HUNTER	220	SIE	HPBT	47.3	2,280	52.5	2,500	57,000	3.240

.300 Winchester Short Magnum

Barrel: 24", Twist 1-10" Primer: WIN WLRM

	Bullet Weight (Grains)	Bullet Make	Bullet Type	Start Load (Grains)	Start Velocity (fps)	Max Load (Grains)	Max Load Velocity (fps)	Max Load Pressure (psi)	COL (inch)
BIG GAME	150	HDY	SST INTK	58.6	2,827	65.1	3,141	59,540	2.830
BIG GAME	165	BAR	X	57.2	2,679	63.5	2,977	61,500	2.825
BIG GAME	165	NOS	B-TIP	56.8	2,662	63.1	2,958	57,890	2.830
BIG GAME	168	SIE	HPBT	57.3	2,692	63.7	2,991	60,470	2.800
BIG GAME	180	HDY	BTSP INTK	55.0	2,553	61.1	2,837	58,700	2.825
BIG GAME	180	SIE	SBT	56.2	2,604	62.4	2,893	61,000	2.860
BIG GAME	200	BAR	X	51.5	2,335	57.2	2,594	58,870	2.815
HUNTER	150	BAR	X	63.0	2,882	70.0	3,202	64,100	2.850
HUNTER	150	SIE	SBT	64.8	2,952	72.0	3,280	63,500	2.821
HUNTER	165	NOS	PART	62.1	2,810	69.0	3,122	63,900	2.860
HUNTER	165	SIE	SBT	63.0	2,855	70.0	3,172	64,500	2.835
HUNTER	180	BAR	X	57.6	2,664	64.0	2,960	64,000	2.860
HUNTER	180	HDY	BTSP INTK	59.0	2,707	65.5	3,008	64,200	2.825

RIFLE

.300 Remington Short Action Ultra Magnum

Barrel: 24", Twist 1-10" Primer: FED 210

	Bullet Weight (Grains)	Bullet Make	Bullet Type	Start Load (Grains)	Start Velocity (fps)	Max Load (Grains)	Max Load Velocity (fps)	Max Load Pressure (psi)	COL (inch)
HUNTER	150	NOS	B-TIP	61.0	2,840	67.0	3,100	61,200	2.820
HUNTER	168	SIE	HPBT	58.0	2,700	64.5	3,000	63,500	2.825
HUNTER	180	NOS	B-TIP	56.3	2,620	62.5	2,890	63,800	2.820
HUNTER	200	SIE	HPBT	54.0	2,500	60.0	2,650	64,100	2.820

.300 Winchester Magnum

Barrel: 24", Twist 1-10" Primer: FED 215

	Bullet Weight (Grains)	Bullet Make	Bullet Type	Start Load (Grains)	Start Velocity (fps)	Max Load (Grains)	Max Load Velocity (fps)	Max Load Pressure (psi)	COL (inch)
HUNTER	125	SIE	SPT	71.1	3,155	79.0	3,505	60,160	3.265
HUNTER	150	NOS	B-TIP	66.3	2,937	73.7	3,263	61,450	3.340
HUNTER	165	SIE	SBT	67.3	2,820	74.8	3,133	60,920	3.340
HUNTER	180	SIE	HPBT	65.3	2,700	72.5	3,000	61,500	3.340
MAGNUM	150	HDY	SST INTK	77.7	2,919	86.3	3,243	58,900	3.340
MAGNUM	150	SIE	SPT	77.4	2,884	86.0	3,204	56,450	3.335
MAGNUM	165	BAR	X	77.0	2,834	85.5	3,149	62,550	3.340
MAGNUM	165	NOS	PART	77.2	2,846	85.8	3,162	62,100	3.340
MAGNUM	165	SIE	HPBT	77.4	2,834	86.0	3,149	60,560	3.340
MAGNUM	168	NOS	CT BS	77.7	2,792	86.3	3,102	57,440	3.340
MAGNUM	175	SIE	HPBT	76.5	2,782	85.0	3,091	60,310	3.340
MAGNUM	180	BAR	XLC	72.9	2,674	81.0	2,971	56,480	3.340
MAGNUM	180	HDY	BTSP	73.8	2,718	82.0	3,020	61,160	3.340
MAGNUM	200	NOS	PART	73.5	2,578	81.7	2,864	63,290	3.335
MAGNUM	220	SIE	MK	69.3	2,430	77.0	2,700	62,080	3.340

.300 Weatherby Magnum

Barrel: 24", Twist 1-10" Primer: FED 215

	Bullet Weight (Grains)	Bullet Make	Bullet Type	Start Load (Grains)	Start Velocity (fps)	Max Load (Grains)	Max Load Velocity (fps)	Max Load Pressure (psi)	COL (inch)
MAGNUM	155	SIE	PALMA	81.5	2,948	90.5	3,275	58,220	3.495
MAGNUM	165	NOS	PART	80.1	2,912	89.0	3,235	62,940	3.555
MAGNUM	180	BAR	X	77.9	2,759	86.5	3,066	60,410	3.560
MAGNUM	180	NOS	B-TIP	79.0	2,750	88.0	3,080	61,200	3.560
MAGNUM	200	SIE	HPBT	78.0	2,650	86.5	3,000	62,500	3.560
MAGNUM	220	SIE	HPBT	75.0	2,550	83.0	2,840	62,500	3.530

.300 Remington Ultra Magnum

Barrel: 24", Twist 1-10" Primer: FED 215

	Bullet Weight (Grains)	Bullet Make	Bullet Type	Start Load (Grains)	Start Velocity (fps)	Max Load (Grains)	Max Load Velocity (fps)	Max Load Pressure (psi)	COL (inch)
MAGNUM	150	BAR	X	92.1	3,108	102.3	3,453	62,630	3.600
MAGNUM	150	HDY	SST INTK	91.4	3,076	101.5	3,418	59,580	3.585
MAGNUM	150	SIE	SBT	91.8	3,094	102.0	3,438	61,120	3.500
MAGNUM	165	NOS	PART	90.0	2,967	100.0	3,297	59,880	3.600
MAGNUM	168	HDY	A-MAX	90.3	2,991	100.3	3,323	63,710	3.590
MAGNUM	168	SIE	HPBT	92.5	3,120	102.8	3,467	62,180	3.535
MAGNUM	180	BAR	X	85.3	2,835	94.8	3,150	62,300	3.600
MAGNUM	180	HDY	BTSP INTK	87.8	2,903	97.5	3,226	62,480	3.565
MAGNUM	180	NOS	PART	86.4	2,894	96.0	3,216	62,400	3.575
MAGNUM	200	SIE	SBT	85.7	2,732	95.2	3,035	62,910	3.600
MAGNUM	220	SIE	HPBT	81.9	2,583	91.0	2,870	62,940	3.600

.30-378 Weatherby Magnum

Barrel: 26", Twist 1-10" Primer: FED 215

	Bullet Weight (Grains)	Bullet Make	Bullet Type	Start Load (Grains)	Start Velocity (fps)	Max Load (Grains)	Max Load Velocity (fps)	Max Load Pressure (psi)	COL (inch)
MAGNUM	150	HDY	SST INTK	100.9	3,350	112.1	3,722	59,760	3.645
MAGNUM	165	HDY	SST INTK	98.5	3,224	109.4	3,582	60,650	3.645
MAGNUM	165	NOS	CT FS	97.2	3,182	108.0	3,535	60,020	3.645
MAGNUM	168	SIE	HPBT (M)	98.8	3,186	109.8	3,540	59,840	3.645
MAGNUM	180	BAR	X	95.0	3,038	105.5	3,375	57,660	3.620
MAGNUM	180	NOS	PART	95.8	3,068	106.4	3,409	58,880	3.600
MAGNUM	200	SIE	HPBT	90.9	2,914	101.0	3,238	57,760	3.645
MAGNUM	220	NOS	PART	88.5	2,779	98.3	3,088	59,060	3.645
MAGNUM	250	BAR	RNSP	83.0	2,570	92.2	2,856	59,920	3.645

.303 British

Barrel: 24", Twist 1-9.5" Primer: FED 210

	Bullet Weight (Grains)	Bullet Make	Bullet Type	Start Load (Grains)	Start Velocity (fps)	Max Load (Grains)	Max Load Velocity (fps)	Max Load Pressure (psi)	COL (inch)
TAC	150	SIE	SBT	40.0	2,450	44.0	2,680	46,900	3.075
TAC	174	SIE	HPBT	37.0	2,250	41.5	2,500	48,100	3.075
BIG GAME	150	SIE	SBT	43.6	2,450	48.5	2,740	47,100	3.075
BIG GAME	174	SIE	HPBT	41.0	2,320	45.0	2,550	47,200	3.075

7.5 Swiss

Barrel: 24", Twist 1-9.5" Primer: FED 210

	Bullet Weight (Grains)	Bullet Make	Bullet Type	Start Load (Grains)	Start Velocity (fps)	Max Load (Grains)	Max Load Velocity (fps)	Max Load Pressure (psi)	COL (inch)
TAC	150	HDY	BTSP	44.0	2,620	48.0	2,800	53,100	2.891
TAC	180	HDY	BTSP	41.0	2,350	45.0	2,600	53,900	2.910
BIG GAME	150	HDY	BTSP	48.0	2,640	53.0	2,870	52,500	2.875
BIG GAME	180	HDY	BTSP	45.0	2,450	50.0	2,700	54,000	2.910

RAMSHOT POWDERS

RIFLE

8 x 57 Mauser

Barrel: 24", Twist 1-10" Primer: FED 210

	Bullet Weight (Grains)	Bullet Make	Bullet Type	Start Load (Grains)	Start Velocity (fps)	Max Load (Grains)	Max Load Velocity (fps)	Max Load Pressure (psi)	COL (inch)
TAC	150	HDY	SP	46.0	2,610	51.5	2,890	54,100	2.975
TAC	175	SIE	SPT	45.0	2,475	49.0	2,675	53,500	3.100
TAC	200	SIE	HPBT	41.0	2,275	45.5	2,500	54,200	3.115
BIG GAME	150	HDY	SP	51.0	2,690	56.0	2,910	53,800	2.975
BIG GAME	175	SIE	SPT	49.0	2,500	54.0	2,750	54,200	3.100
BIG GAME	200	NOS	A-BOND	45.0	2,330	50.0	2,550	54,000	3.115

8mm Remington Magnum

Barrel: 24", Twist 1-10" Primer: FED 215

MAGNUM	200	NOS	SPT	82.0	2,700	91.0	3,050	63,000	3.600
MAGNUM	220	SIE	SBT	81.0	2,680	89.0	2,950	64,800	3.600

.325 Winchester Short Magnum

Barrel: 24", Twist 1-10" Primer: WIN WLRM

BIG GAME	180	NOS	B-TIP	58.0	2,750	64.0	2,990	62,400	2.916
BIG GAME	220	SIE	SBT	53.0	2,450	59.0	2,670	62,500	2.876
HUNTER	180	NOS	B-TIP	62.0	2,740	70.0	3,030	62,000	2.916
HUNTER	220	SIE	SBT	60.0	2,590	67.0	2,780	63,800	2.876

.338 Federal

Barrel: 24", Twist 1-10" Primer: FED 215

X-Terminator	185	BAR	TSX	43.0	2,520	47.8	2,757	60,000	2.783
X-Terminator	200	HDY	SP INTK	42.4	2,476	47.1	2,656	59,250	2.814
X-Terminator	215	SIE	SBT	39.9	2,349	44.3	2,532	59,875	2.800
X-Terminator	225	NOS	A-BOND	38.8	2,197	43.1	2,436	57,500	2.814
TAC	185	BAR	TSX	43.4	2,485	48.3	2,708	57,000	2.783
TAC	200	HDY	SP INTK	43.8	2,467	48.7	2,664	60,000	2.814
TAC	215	SIE	SBT	42.0	2,371	46.7	2,564	59,500	2.800
TAC	225	NOS	A-BOND	39.7	2,135	44.1	2,384	59,750	2.814

.338 Winchester Magnum

Barrel: 24", Twist 1-10" Primer: FED 215

HUNTER	215	SIE	SBT	65.0	2,580	72.0	2,850	60,500	3.278
HUNTER	250	SIE	HPBT	61.0	2,420	67.0	2,640	61,000	3.340

.338 Remington Ultra Magnum

Barrel: 24", Twist 1-10" Primer: FED 215

MAGNUM	215	SIE	SBT	94.0	2,920	104.0	3,200	63,400	3.580
MAGNUM	250	SIE	HPBT	86.0	2,600	96.0	2,970	62,500	3.580
MAGNUM	300	SIE	HPBT	80.0	2,400	89.0	2,700	62,700	3.580

.338 Lapua

Barrel: 26", Twist 1-10" Primer: WIN WLRM

MAGNUM	250	SIE	HPBT	90.0	2,740	97.0	2,980	66,900	3.680
MAGNUM	300	SIE	HPBT	83.0	2,500	90.0	2,700	67,000	3.680

.35 Remington

Barrel: 24", Twist 1-9.5" Primer: FED 210

X-Terminator	200	SIE	RNSP	33.0	1,940	37.0	2,150	37,700	2.475
TAC	200	SIE	RNSP	36.0	1,960	40.0	2,150	38,500	2.475

.375 H & H

Barrel: 24", Twist 1-12" Primer: FED 215

TAC	200	SIE	HPFN	65.7	2,766	73.0	3,073	54,060	3.420
TAC	220	HDY	FP INTK	63.9	2,660	71.0	2,955	58,740	3.315
TAC	250	BAR	XFB	61.4	2,445	68.2	2,717	57,930	3.560
TAC	300	CT	FS	57.9	2,212	64.3	2,458	59,810	3.560
BIG GAME	250	SIE	SBT	71.5	2,561	79.4	2,845	54,970	3.600
BIG GAME	270	BAR	XFB	71.4	2,430	79.3	2,700	57,099	3.580
BIG GAME	270	HDY	SP INTK	69.1	2,432	76.8	2,702	53,080	3.570
BIG GAME	300	BAR	XFB	68.0	2,318	75.6	2,575	57,800	3.575
BIG GAME	300	SIE	SBT	67.5	2,333	75.0	2,592	57,870	3.600

.375 Remington Ultra Magnum

Barrel: 24", Twist 1-12" Primer: WIN WLRM

HUNTER	250	SIE	SBT	89.0	2,800	99.0	3,070	62,900	3.575
HUNTER	300	SIE	SBT	83.0	2,580	92.0	2,820	62,800	3.585
MAGNUM	300	SIE	SBT	98.0	2,690	106.0	2,850	58,000	3.585

RIFLE

.416 Remington Magnum

Barrel: 24", Twist 1-14" Primer: WIN WLRM

TAC	400	HDY	RN	68.0	2,100	76.0	2,400	60,700	3.685
BIG GAME	400	HDY	RN	75.0	2,250	83.0	2,400	61,700	3.685

.444 Marlin

Barrel: 24", Twist 1-38" Primer: WIN WLR

X-Terminator	200	NOS	JHP	50.2	2,182	58.0	2,424	31,360	2.525
X-Terminator	240	HDY	CL-SIL	49.5	2,034	55.0	2,260	36,250	2.530
X-Terminator	240	SIE	JHC	49.5	2,048	55.0	2,275	36,180	2.530
X-Terminator	240	NOS	JHP	49.5	2,060	55.0	2,289	37,060	2.520
X-Terminator	300	HDY	XTP	45.0	1,811	50.0	2,012	39,750	2.530
TAC	240	HDY	CL-SIL	50.4	2,038	56.0	2,264	36,630	2.535
TAC	240	SIE	JHC	50.4	2,062	56.0	2,291	37,610	2.530
TAC	300	HDY	XTP	45.9	1,810	51.0	2,011	39,990	2.530

.45-70 Government STANDARD RIFLES

Barrel: 24", Twist 1-20" Primer: WIN WLR

X-Terminator	300	SIE	HPFN	42.0	1,740	46.0	1,900	27,800	2.550
X-Terminator	350	HDY	RN	40.0	1,600	44.0	1,740	27,520	2.550
X-Terminator	500	HDY	RN	30.0	1,150	35.0	1,320	27,500	2.550

.45-70 Government Ruger Number 1 and 3

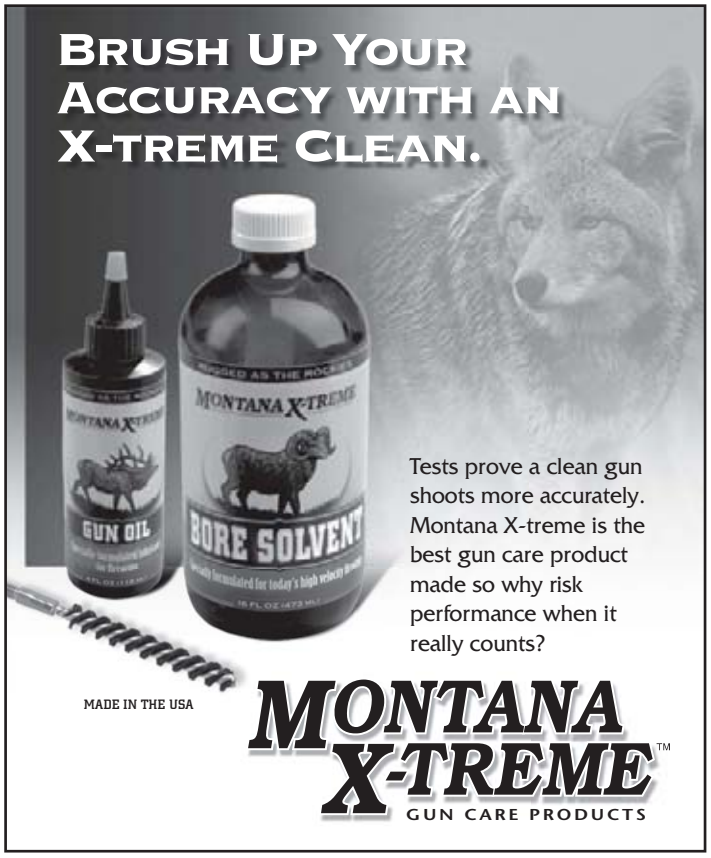
Barrel: 24", Twist 1-20" Primer: WIN WLR

X-Terminator	300	SIE	HPFN	56.0	2,100	62.0	2,250	38,550	2.550
X-Terminator	350	HDY	RN	49.0	1,750	54.0	1,900	39,100	2.550
X-Terminator	500	HDY	RN	40.0	1,450	44.0	1,550	38,500	2.550

.458 Winchester

Barrel: 24", Twist 1-14" Primer: FED 215

X-Terminator	350	HDY	RN	72.0	2,250	80.0	2,550	56,000	
X-Terminator	500	HDY	RN	65.0	1,900	72.0	2,150	57,500	



COWBOY ACTION LOADS

	Bullet Weight & Make	Charge Weight Grains	Powder	OAL inches	Primer	Velocity fps
.45 Long Colt						
7.26" BBL	200 MCB SWCBB	6.8	True Blue	1.560	WLP	667
	200 Laser Cast RNFP	5.2	Competition	1.560	CCI 300	731
	250 Laser Cast RNFP	5.8	Zip	1.580	CCI 300	698
	250 Rushmore RNFP	5.0	Competition	1.580	CCI 300	723
	250 MCB RNFP	7.0	True Blue	1.580	WLP	733
	250 Laser Cast RNFP	5.0	Competition	1.580	CCI 300	738
	250 Laser Cast RNFP	6.2	Silhouette	1.580	CCI 300	753
	255 True Shot SWC	4.5	Competition	1.595	CCI 300	753
	255 Hornady Cowboy	7.1	True Blue	1.570	Fed 150	737
.44 Special						
8.275" BBL	200 MCB RNFP	3.8	Competition	1.430	CCI 300	768
	240 Laser Cast RNFP	4.0	Competition	1.430	CCI 300	754
.44-40						
24" BBL	200 MCB RNFP	7.5	True Blue	1.592	Fed 150	1052
	200 MCB RNFP	8.0	Silhouette	1.595	Fed 150	1060
.38 Special						
7.71" BBL	125 Laser Cast FP	2.0	Competition	1.440	CCI 500	803
	125 Laser Cast FP	3.4	Zip	1.440	Fed 100	732
	158 MCB RNBB	3.3	Zip	1.430	CCI 500	711
	158 MCB RNBB	2.6	Competition	1.425	CCI 500	801
	158 Rushmore TCFP	3.7	Zip	1.462	Fed 100	846
	160 Cast Perf. FNPB	2.4	Competition	1.470	CCI 500	698
.38 Special						
4" BBL	125 Laser Cast FP	4.0	True Blue	1.435	WSP	744
	148 Rushmore RNFP	3.7	True Blue	1.455	WSP	744
	158 MCB RNBB	4.0	True Blue	1.425	WSP	772

COWBOY BLEND
LEAD & POWDER SOLVENT

"A Cowboy's Best Friend"

MONTANA X-TREME COWBOY BLEND is specially formulated for Cowboy Action Shooting, but is equally useful in any firearm with lead and powder fouling.

MONTANA X-TREME™

SHOTSHELL LOADS

RAMSHOT COMPETITION

12 GA., 2 3/4", Winchester AA, 8pt crimp, length 2.300"

Shot	Primer	Wad	grains	fps	psi	grains	fps	psi	grains	fps	psi
7/8 oz	W209	WAA12L	20.5	1,325	8,000	22.0	1,400	8,900			
7/8 oz	F209A	WAA12L	20.5	1,325	8,000	22.5	1,400	9,200			
7/8 oz	CCI209	WAA12L	20.5	1,325	7,500	22.5	1,400	8,800			
1 oz	W209	WAA12SL	17.5	1,180	8,200	19.0	1,235	9,500	20.0	1,290	10,100
1 oz	F209A	WAA12SL	18.0	1,180	8,100	19.0	1,235	8,700	20.5	1,290	10,600
1 oz	CCI209	WAA12SL	17.5	1,180	8,000	18.5	1,235	9,000	20.0	1,290	10,000
1 1/8 oz	W209	WAA 12	17.5	1,145	9,300	19.0	1,200	10,400			
1 1/8 oz	W209	Fed 12S3	17.5	1,145	10,900						
1 1/8 oz	F209A	WAA 12	17.5	1,145	9,300	19.0	1,200	10,300			
1 1/8 oz	F209A	Fed 12S3	17.5	1,145	10,900						
1 1/8 oz	CCI209	WAA 12	17.5	1,145	9,400	19.0	1,200	10,000			
1 1/8 oz	CCI209	Fed 12S3	17.5	1,145	10,900						

12 GA., 2 3/4", Federal Gold Medal, 8 pt crimp, length 2.300"

Shot	Primer	Wad	grains	fps	psi	grains	fps	psi	grains	fps	psi
7/8 oz	W209	WAA12L	21.0	1,325	7,300	22.5	1,400	8,200			
7/8 oz	F209A	WAA12L	21.0	1,325	7,600	22.5	1,400	8,200			
7/8 oz	CCI209	WAA12L	20.5	1,325	7,000	22.5	1,400	8,300			
1 oz	W209	WAA12SL	18.0	1,180	7,200	19.0	1,235	7,800	20.5	1,290	9,000
1 oz	W209	Fed 12S0	18.5	1,180	7,600	19.5	1,235	8,500	20.5	1,290	9,900
1 oz	F209A	WAA12SL	18.0	1,180	7,000	19.5	1,235	8,200	20.5	1,290	8,800
1 oz	F209A	Fed 12S0	18.5	1,180	7,700	19.5	1,235	9,000	20.5	1,290	9,700
1 oz	CCI209	WAA12SL	17.5	1,180	7,000	19.0	1,235	8,400	20.0	1,290	9,400
1 oz	CCI209	Fed 12S0	18.0	1,180	8,300	19.0	1,235	8,900	20.0	1,290	9,900
1 1/8 oz	W209	WAA 12	18.0	1,145	8,100	19.0	1,200	9,000	20.5	1,255	10,400
1 1/8 oz	W209	Fed 12S3	18.0	1,145	8,400	19.0	1,200	9,600	20.5	1,255	11,100
1 1/8 oz	F209A	WAA 12	17.5	1,145	8,100	19.0	1,200	9,200	20.5	1,255	10,400
1 1/8 oz	F209A	Fed 12S3	18.0	1,145	8,700	19.5	1,200	10,000	20.5	1,255	10,900
1 1/8 oz	CCI209	WAA 12	17.5	1,145	8,200	19.0	1,200	9,200	20.0	1,255	10,200
1 1/8 oz	CCI209	Fed 12S3	17.5	1,145	8,300	19.0	1,200	10,100	20.0	1,255	10,600

12 GA., 2 3/4", Remington STS, 8 pt crimp, length 2.300"

Shot	Primer	Wad	grains	fps	psi	grains	fps	psi	grains	fps	psi
1 oz	W209	WAA12SL	17.5	1,180	8,200	19.0	1,235	9,300	20.5	1,290	10,200
1 oz	W209	R TGT 12	17.5	1,180	8,300	19.0	1,235	9,100	20.0	1,290	10,100
1 oz	F209A	WAA12SL	17.5	1,180	9,000	18.5	1,235	9,800	19.5	1,290	10,300
1 oz	F209A	R TGT 12	17.0	1,180	8,600	18.5	1,235	9,500			
1 oz	CCI209	WAA12SL	17.5	1,180	8,600	18.5	1,235	9,600	20.0	1,290	10,500
1 oz	CCI209	R TGT 12	17.5	1,180	7,800	19.0	1,235	9,400			
1 oz	Rem 209P	WAA12SL	17.5	1,180	7,400	19.0	1,235	8,900	20.5	1,290	9,500
1 oz	Rem 209P	R TGT 12	17.5	1,180	8,000	19.0	1,235	8,900	20.0	1,290	9,400
1 1/8 oz	W209	WAA 12	17.5	1,145	9,100	19.0	1,200	10,700			
1 1/8 oz	W209	R RXP 12	17.5	1,145	9,900	18.5	1,200	10,500			
1 1/8 oz	F209A	WAA 12	17.5	1,145	10,500						
1 1/8 oz	F209A	R RXP 12	17.0	1,145	10,100						
1 1/8 oz	CCI209	WAA 12	17.5	1,145	9,800						
1 1/8 oz	CCI209	R RXP 12	17.0	1,145	10,800						
1 1/8 oz	Rem 209P	WAA 12	17.5	1,145	9,300	19.0	1,200	10,200			
1 1/8 oz	Rem 209P	R RXP 12	17.5	1,145	9,900	19.0	1,200	10,700			

Bushing data for Ramshot Competition

Hornady	
Bushing	Grains
420	17.8
432	18.0
435	18.3
438	18.6
441	18.9
444	19.0
450	19.6
453	19.8
456	20.0
459	20.0
462	20.6
466	21.0
467	21.2
471	21.4
474	21.7
477	22.0
480	22.3
483	22.6
486	22.9
489	23.1
492	24.0
495	24.4
498	24.8
501	25.0
503	25.3
507	25.7
510	26.0
513	26.2

MEC	
Bushing	Grains
30	18.3
31	18.9
32	19.7
33	20.3
34	21.1
35	21.6
36	22.5
37	23.9
38	24.9
39	25.8

Ponsness Warren	
Bushing	Grains
H	17.8
I	18.6
J	19.9
K	21.0
L	22.0
M	24.2
N	24.5
O	25.0
P	25.5
Q	25.5