



RAMSHOT®

Load guide for Ramshot Powders

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 in the ballistics lab at 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 reloader 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 in the Western Powders' ballistics laboratory under strictly controlled conditions and is applicable for Ramshot powders exclusively. Western Powders performs all ballistics tests in accordance with SAAMI specifications utilizing the Piezo method for pressure testing. 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 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 these manners can lead to mass detonation if one of the primers ignite;
4. Do not decap live or new primers - fire them in the appropriate gun and then decap;
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).



Handgun

Rifle

Table of handgun specifications including .45 Auto (ACP), .45 Colt, .454 Casull, and .460 S&W. Columns include Bullet Wgt Grains, Bullet Make, Bullet Type, Start Load Grains, Start Velocity fps, Max Load Grains, Max Load Velocity fps, Max Load Pressure psi, and COI, inch.

Table of rifle specifications including .17 Remington, .204 Ruger, .20 Tactical, .22 Hornet, .222 Remington, and .223 Remington. Columns include Bullet Wgt Grains, Bullet Make, Bullet Type, Start Load Grains, Start Velocity fps, Max Load Grains, Max Load Velocity fps, Max Load Pressure psi, and COI, inch.

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

For maximum protection of your weapons, use MONTANA EXTREME cleaning products



Rifle



Rifle

Bullet Wgt Grains, Bullet Make, Bullet Type, Start Load Grains, Start Velocity fps, Max Load Grains, Max Load Velocity fps, Max Load Pressure psi, COL inch

Bullet Wgt Grains, Bullet Make, Bullet Type, Start Load Grains, Start Velocity fps, Max Load Grains, Max Load Velocity fps, Max Load Pressure psi, COL inch

7mm Winchester Short Magnum

Table with columns for bullet type, weight, velocity, and pressure for 7mm Winchester Short Magnum.

7mm Shooting Times Western

Table with columns for bullet type, weight, velocity, and pressure for 7mm Shooting Times Western.

.30-30 Winchester

Table with columns for bullet type, weight, velocity, and pressure for .30-30 Winchester.

.308 Winchester

Table with columns for bullet type, weight, velocity, and pressure for .308 Winchester.

30-06 Springfield

Table with columns for bullet type, weight, velocity, and pressure for 30-06 Springfield.

300 Winchester Short Magnum

Table with columns for bullet type, weight, velocity, and pressure for 300 Winchester Short Magnum.

300 Remington Short Action Ultra Magnum

Table with columns for bullet type, weight, velocity, and pressure for 300 Remington Short Action Ultra Magnum.

300 Winchester Magnum

Table with columns for bullet type, weight, velocity, and pressure for 300 Winchester Magnum.

300 Weatherby Magnum

Table with columns for bullet type, weight, velocity, and pressure for 300 Weatherby Magnum.

300 Remington Ultra Magnum

Table with columns for bullet type, weight, velocity, and pressure for 300 Remington Ultra Magnum.

30-378 Weatherby Magnum

Table with columns for bullet type, weight, velocity, and pressure for 30-378 Weatherby Magnum.

.303 British

Table with columns for bullet type, weight, velocity, and pressure for .303 British.

7.5 Swiss

Table with columns for bullet type, weight, velocity, and pressure for 7.5 Swiss.

Rifle



Rifle

Bullet Wgt Grains	Bullet Make	Bullet Type	Start Load Grains	Start Velocity fps	Max Load Grains	Max Load Velocity fps	Max Load Pressure psi	COL inch
8x57 Mauser								
Barrel: 24", Twist 1-10" Primer: FED 210								
TAC	150	HDY SP	46.0	2,610	51.5	2,890	54,000	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	54,000	2,975
BIG GAME	175	SIE SPT	49.0	2,500	54.0	2,750	54,200	3,100
BIG GAME	200	SIE HPBT	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	SIE HPBT	82.0	2,700	91.0	3,050	63,000	3,600
MAGNUM	220	SIE SPBT	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	62,500	2,916
BIG GAME	220	HDY SPBT	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	HDY SPBT	60.0	2,590	67.0	2,780	63,800	2,876
.338 Winchester Magnum								
Barrel: 24", Twist 1-10" Primer: FED 215								
HUNTER	215	SIE SPBT	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 SPBT	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	67,000	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 Magnum								
Barrel: 24", Twist 1-12" Primer: FED 215								
TAC	210	BAR XFB	67.1	2,750	74.5	3,055	56,950	3,475
TAC	235	BAR XFB	67.1	2,635	74.5	2,928	59,250	3,595
TAC	250	BAR XFB	61.4	2,445	68.2	2,717	57,930	3,560
TAC	200	SIE HPFN	65.7	2,766	73.0	3,073	54,060	3,420
TAC	220	HDY FP-Intlk	63.9	2,660	71.0	2,955	58,740	3,315
TAC	300	CT FS	57.9	2,212	64.3	2,458	59,810	3,560
BIG GAME	270	BAR XFB	71.4	2,430	79.3	2,700	57,099	3,580
BIG GAME	300	BAR XFB	68.0	2,318	75.6	2,575	57,800	3,575
BIG GAME	250	SIE SPBT	71.5	2,561	79.4	2,845	54,970	3,600
BIG GAME	270	HDY SP-Intlk	69.1	2,432	76.8	2,702	53,080	3,570
BIG GAME	300	SIE SPTBT	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 SPBT	89.0	2,800	99.0	3,070	62,900	3,575
HUNTER	300	SIE SPBT	83.0	2,580	92.0	2,820	62,800	3,585
MAGNUM	300	SIE SPBT	98.0	2,690	106.0	2,850	58,000	3,585
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 WLRM								
X-Terminator	200	NOS JHP	50.2	2,182	58.0	2,424	31,361	2,525
X-Terminator	240	HDY CL-SIL	49.5	2,034	55.0	2,260	36,251	2,530
X-Terminator	240	HDY XTP	49.5	2,048	55.0	2,275	36,181	2,530
X-Terminator	240	NOS JHP	49.5	2,060	55.0	2,289	37,061	2,520
X-Terminator	300	HDY XTP	45.0	1,811	50.0	2,012	39,751	2,530
TAC	240	HDY CL-SIL	50.4	2,038	56.0	2,264	36,631	2,535
TAC	240	HDY XTP	50.4	2,062	56.0	2,291	37,611	2,530
TAC	300	HDY XTP	45.9	1,810	51.0	2,011	39,991	2,530

Bullet Wgt Grains	Bullet Make	Bullet Type	Start Load Grains	Start Velocity fps	Max Load Grains	Max Load Velocity fps	Max Load Pressure psi	COL inch
45-70 Government Standard Rifles								
Barrel: 24", Twist 1-20" Primer: WIN WLR								
X-Terminator	300	HDY HP	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	27,500	2,550
X-Terminator	500	HDY RN	30.0	1,150	35.0	1,320	27,500	2,550
45-70 Government Ruger No. 1 and 3								
Barrel: 24", Twist 1-20" Primer: WIN WLR								
X-Terminator	300	HDY HP	56.0	2,100	62.0	2,250	38,500	2,550
X-Terminator	350	HDY RN	49.0	1,750	54.0	1,900	39,000	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	2,950
X-Terminator	500	HDY RN	65.0	1,900	72.0	2,150	57,500	3,310

Primer Abbreviations:

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

Bullet Abbreviations:

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

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

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