



# Handloader's Guide

## For Smokeless Powders



**Shotshell • Rifle • Handgun**

Before using any of the loading data contained in this guide, please be sure to read all of the safety information.

## SAFETY INFORMATION

This IMR *Handloader's Guide* presents revised and updated information on the use of IMR powders to reload shotshell, handgun and rifle ammunition. This *Guide* is not intended to be a "how to" manual for reloading, and we strongly recommend that all handloaders carefully read one or more of the reloading manuals which cover the subject in detail. This *Guide* is offered to be used at your own discretion and risk. Since we have no control over the circumstances of use, we assume no liability for the results obtained. And we guarantee only that our powders meet our manufacturing standards.

It is possible that changes in components which could affect ballistic performance could occur without our knowledge. The components used and specified in all our data were those that were commercially available to the handloader at the time our tests were conducted. It is the responsibility of the handloader to check each of his components to insure that they are the same as specified in our data.

Improper modifications and/or alterations can render any type of firearm unsafe. All work should be conducted by the manufacturer or a qualified gunsmith. It is highly recommended that a shooter have his guns checked periodically by a qualified gunsmith to insure that they are in safe operating condition. Treat all guns as being loaded and read and practice all the rules of safe gun handling and shooting.

The future of handloading is dependent upon the safe handling and storage of powder and primers and the safe use of all ammunition. In this regard, read and follow the recommendations of the Sporting Arms and Ammunition Manufacturers' Institute, Inc. as published in "Properties and Storage of Smokeless Powder." A copy of this pamphlet is bound into this *Handloader's Guide*.

## SHOTSHELL

The shotshell data section offers a wide selection of target and field loads. There have been a number of changes and modifications in shotshell components which make it increasingly important that the handloader carefully check all of the components being used to insure that they are the same as shown. If you have reason to question any of your components, contact the manufacturer.

Our goal in developing this shotshell data was to offer a selection of "factory duplication" loads, specifying the average velocity and chamber pressure of the rounds tested. However, not all factory loads can be duplicated because the components utilized are not available to the handloader. All of the ballistics data specified were obtained using once-fired cases and components available to the handloaders at the time our tests were performed.

All of the shotshell data presented were developed using **lead** shot. Do not attempt to reload any of the loads listed using **steel** shot. Substituting steel shot in any load developed for lead shot could be very dangerous.

**To obtain a reasonable duplication of the ballistic results listed, you must reload exactly as shown. Substitution of components especially primers and/or alteration in powder charge or type of powder could result in extremely dangerous reloads.**

Good, uniform, efficient reloads result only from careful reloading procedures. Always check powder and shot weights on a reliable scale, use the exact components specified, seat wads properly and use only cases that are in good condition. Never leave to chance the

powder type and/or weight and the lead shot weight that you are loading in a shell. Inspect all reloaded shells to insure that crimp closely duplicates that of factory loads.

Unfortunately, time and space do not permit publication of loads utilizing all of the many components available. Loading data utilizing IMR powders for wads not listed in this *Guide* may be obtained by contacting the wad manufacturer.

## RIFLE

The rifle data section contains data for most of the popular cartridges. The components specified were those that were commercially available to the handloader at the time the tests were performed.

The powder charge weights specified represent loads that developed **Maximum Allowable Chamber Pressures** with the test barrels used and components specified, with the exception of loads that are specified as (C) compressed charges which may represent case capacity rather than maximum chamber pressure. All tests were conducted utilizing commercial barrels in a Universal Receiver.

It is not unusual for reloads assembled with particular components and fired in the individual reloader's gun to give ballistic results (particularly chamber pressures) that vary in either direction from the published data. To compensate for any component and/or gun combination that would tend to yield pressures in excess of the published data, it is recommended that the powder charge be reduced 10% initially. (This reduction in powder charge weight should also be made each time that any of the components in the load are changed.) After firing several loads at the lower powder charge weight—without ANY evidence of excessive chamber pressure—the powder charge weight may then be increased in 0.5 grain increments as accuracy needs and pressure indications permit. The subject of excessive pressure along with illustrations is included in most reloading manuals, and should be read before attempting any reloading.

Always make certain that you use the correct ammunition in your rifle.

This data must be used only with IMR Smokeless Powders. **Never use this data for powders that may have similar numerical designations!**

## HANDGUN

The handgun section contains loads for the more popular handgun cartridges utilizing the handloading components commercially available at the time our tests were conducted. We have also included a section of handgun data for the T/C Contender in cartridge and component combinations of particular interest to the metallic silhouette shooter. Test components used are specified and these exact components must be used to achieve a reasonable duplication of the ballistic data shown.

The powder charge weights specified represent loads that developed **Maximum Allowable Chamber Pressures** with the test barrels and components used, with the exception of loads that are specified as (C) compressed charges and therefore may represent case capacity rather than maximum chamber pressure, and loads that duplicate factory velocity. All tests were conducted utilizing commercial barrels in a Universal Receiver.

Always practice all of the principals of SAFE RELOADING and enjoy good shooting.

# RIFLE

**IMPORTANT:** Recommended uses of IMR powder relate only to the appropriate IMR powder and not to those available from other firms. Although the four digit numerical designations of other manufacturers' products may be identical to those preceded by the IMR prefix, the powders are different. To avoid potential confusion, gun damage and personal injury, therefore, handloaders should be careful to note the prefix of recommended powder designations.

## KEY TO ABBREVIATIONS FOR RIFLE DATA

BP	Bronze Point	IMR	Improved Military Rifle	PTD	Pointed
BR	Bench Rest	M	Magnum	RN	Round Nose
BT	Boat Tail	PL	"Power-Lokt"	SP	Soft Point
C	Compressed Charge	PR	Primer	SPCL	Soft Point "Core-Lokt"
C.O.L.	Cartridge Overall Length	PSP	Pointed Soft Point		
HP	Hollow Point	PSPCL	Pointed Soft Point "Core-Lokt"		

IMR	CHARGE	VELOCITY	CHAMBER	IMR	CHARGE	VELOCITY	CHAMBER	IMR	CHARGE	VELOCITY	CHAMBER	IMR	CHARGE	VELOCITY	CHAMBER
POWDER	(grains)	(ft/sec)	PRESS. (cup)	POWDER	(grains)	(ft/sec)	PRESS. (cup)	POWDER	(grains)	(ft/sec)	PRESS. (cup)	POWDER	(grains)	(ft/sec)	PRESS. (cup)

### .17 REMINGTON

REM. CASE; REM. 7 1/2 PR  
REM. 25 GR. PL HP  
.1722" DIA.; 24" BBL.; 2.100" C.O.L.

IMR 3031	22.5	4015	51700
IMR 4064	24.0C	4005	50700
IMR 4895	23.5	3995	51400
IMR 4350	24.5C	3470	39000
IMR 4831	25.0C	3330	33500

### .22 HORNET

REM. CASE; REM. 6 1/2 PR  
HORNADY 45 GR.  
.224" DIA.; 25" BBL.; 1.720" C.O.L.

SR 4759	8.0C	2000	24700
IMR 4227	11.5C	2515	38900
IMR 4198	10.5C	2010	20100
IMR 3031	11.0C	1675	14100
IMR 4064	11.0C	1545	13100
IMR 4895	12.0C	1735	15500
IMR 4320	12.0C	1650	14900
IMR 4350	11.5C	1280	11700
IMR 4831	11.5C	1085	10700

### .220 SWIFT

REM. CASE; REM. 9 1/2 PR  
SIERRA 50 GR. SPITZER  
.224" DIA.; 24" BBL.; 2.680" C.O.L.

SR 4759	25.5	3345	53000
IMR 4227	24.5	3295	52500
IMR 4198	32.0	3685	53000
IMR 3031	37.5	3845	51400
IMR 4064	39.5	3895	52500
IMR 4895	38.5	3805	52100
IMR 4320	40.0	3790	53000
IMR 4350	43.5C	3740	49100
IMR 4831	43.5C	3560	41700

### .220 SWIFT

REM. CASE; REM. 9 1/2 PR  
HORNADY 60 GR. SPIRE PT.  
.224" DIA.; 24" BBL.; 2.680" C.O.L.

SR 4759	23.5	2980	52500
IMR 4227	23.5	3000	53000
IMR 4198	28.5	3265	52200
IMR 3031	34.0	3470	52300
IMR 4064	35.5	3505	52300
IMR 4895	34.5	3470	53000
IMR 4320	36.5	3480	52800
IMR 4350	39.5	3500	53000
IMR 4831	42.5C	3555	53000

### .222 REMINGTON

REM. CASE; REM. 7 1/2 PR  
HORNADY 45 GR.  
.224" DIA.; 25" BBL.; 2.130" C.O.L.

SR 4759	16.5	2925	44000
IMR 4227	17.5	3055	44000
IMR 4198	21.5	3315	45000
IMR 3031	24.0C	3065	33100
IMR 4064	24.0C	2910	31700
IMR 4895	25.5C	3165	39500
IMR 4320	26.0C	3115	39700
IMR 4350	25.0C	2545	24700
IMR 4831	25.0C	2375	22300

### .222 REMINGTON

REM. CASE; REM. 7 1/2 PR  
HORNADY 50 GR. SPIRE PT. SX  
.224" DIA.; 25" BBL.; 2.130" C.O.L.

SR 4759	16.5	2845	45000
IMR 4227	17.5	2965	45500
IMR 4198	20.5	3130	44500
IMR 3031	23.5C	3045	38400
IMR 4064	23.5C	2875	34200
IMR 4895	25.0C	3085	43100
IMR 4320	26.0C	3065	40800
IMR 4350	24.5C	2495	23400
IMR 4831	24.5C	2320	21500

### .222 REMINGTON

REM. CASE; REM. 7 1/2 PR  
REM. 55 GR. PTD. SP  
.224" DIA.; 25" BBL.; 2.130" C.O.L.

SR 4759	15.5	2665	44200
IMR 4227	17.0	2835	45800
IMR 4198	20.0	2990	42600
IMR 3031	23.0C	2945	38300
IMR 4064	23.5C	2825	34100
IMR 4895	25.0C	3085	45900
IMR 4320	25.5C	2985	43500
IMR 4350	24.5C	2475	26800
IMR 4831	24.5C	2300	24100

### .22-250 REMINGTON

REM. CASE; REM. 9 1/2 PR  
SIERRA 50 GR. SPITZER  
.224" DIA.; 24" BBL.; 2.350" C.O.L.

SR 4759	23.0	3205	52500
IMR 4227	21.5	3140	49300
IMR 4198	28.5	3565	53000
IMR 3031	35.0	3785	52700
IMR 4064	35.0	3745	52100
IMR 4895	36.0	3755	52700
IMR 4320	37.0	3700	53000
IMR 4350	40.0C	3565	47000
IMR 4831	40.0C	3390	41600

### .22-250 REMINGTON

REM. CASE; REM. 9 1/2 PR  
REM. 55 GR. PTD. SP  
.224" DIA.; 24" BBL.; 2.350" C.O.L.

SR 4759	22.0	3100	53000
IMR 4227	21.5	3030	42300
IMR 4198	27.5	3375	52200
IMR 3031	34.0	3640	53000
IMR 4064	35.5	3625	52500
IMR 4895	35.5	3645	53000
IMR 4320	36.0	3540	51500
IMR 4350	39.5C	3495	47700
IMR 4831	39.5C	3320	42500

### .223 REMINGTON

REM. CASE; REM. 7 1/2 PR  
SIERRA 45 GR. SPITZER  
.224" DIA.; 24" BBL.; 2.190" C.O.L.

SR 4759	17.5	3040	51000
IMR 4227	17.5	3085	51400
IMR 4198	22.0	3360	50300
IMR 3031	25.5C	3300	42200
IMR 4064	25.5C	3180	42500
IMR 4895	26.5C	3280	45900
IMR 4320	27.5C	3200	45100

### .223 REMINGTON

REM. CASE; REM. 7 1/2 PR  
SIERRA 50 GR. SPITZER  
.224" DIA.; 24" BBL.; 2.260" C.O.L.

IMR 3031	25.5C	3225	45300
IMR 4064	25.5C	3150	44200
IMR 4895	26.5C	3270	48800
IMR 4320	27.5C	3200	48300

### .223 REMINGTON

REM. CASE; REM. 7 1/2 PR  
HORNADY 55 GR. SPIRE PT. SX  
.224" DIA.; 24" BBL.; 2.260" C.O.L.

IMR 3031	25.0C	3165	50900
IMR 4064	25.5C	3090	49200
IMR 4895	26.0	3120	51100
IMR 4320	27.0C	3075	50300

### 6 MM REMINGTON

REM. CASE; REM. 9 1/2 PR  
REM. 80 GR. PTD. SP  
.243" DIA.; 22" BBL.; 2.790" C.O.L.

SR 4759	24.5	2640	50600
IMR 4227	24.5	2650	50200
IMR 4198	31.5	3015	51500
IMR 3031	39.5	3275	52000
IMR 4064	41.0	3295	52000
IMR 4895	36.5	3105	51300
IMR 4320	40.0	3180	52000
IMR 4350	46.0	3310	52000
IMR 4831	48.0	3300	51900

### 6 MM REMINGTON

REM. CASE; REM. 9 1/2 PR  
REM. 100 GR. PTD. SPCL  
.243" DIA.; 22" BBL.; 2.735" C.O.L.

SR 4759	23.5	2400	51600
IMR 4227	23.5	2395	51500
IMR 4198	29.0	2660	52000
IMR 3031	36.5	2925	52000
IMR 4064	38.0	2945	51000
IMR 4895	35.5	2880	51600
IMR 4320	37.0	2875	51300
IMR 4350	43.5	3055	52000
IMR 4831	45.5	3095	52000
IMR 7828	48.0C	3040	48000

### .25-06 REMINGTON

REM. CASE; REM. 9 1/2 PR  
SIERRA 120 GR. HOLLOW PT. BT  
.257" DIA.; 24" BBL.; 3.100" C.O.L.

SR 4759	27.5	2315	52000
IMR 4227	28.0	2370	53000
IMR 4198	34.0	2615	51400
IMR 3031	40.5	2800	52000
IMR 4064	43.5	2885	52300
IMR 4895	40.5	2805	52600
IMR 4320	43.0	2850	51700
IMR 4350	48.5	2950	51500
IMR 4831	50.0	2945	52000
IMR 7828	55.0	3105	52800

*Velocity and pressure readings represent average values obtained under controlled conditions. The values shown may vary substantially with the components and the reloading techniques employed. We suggest the charge weights shown be reduced initially by 10% to compensate for possible variations from the published data. The loads may then be increased as pressure indications permit.*



# RIFLE

Downloading, printing and use of the information on this page signifies acceptance of and compliance with all IMR Handloader's Guide cautions and safety recommendations.

IMR POWDER	CHARGE (grains)	VELOCITY (ft/sec)	CHAMBER PRESS. (cup)	IMR POWDER	CHARGE (grains)	VELOCITY (ft/sec)	CHAMBER PRESS. (cup)	IMR POWDER	CHARGE (grains)	VELOCITY (ft/sec)	CHAMBER PRESS. (cup)	IMR POWDER	CHARGE (grains)	VELOCITY (ft/sec)	CHAMBER PRESS. (cup)
<b>.300 SAVAGE</b>				<b>.30-06</b>				<b>.300 H &amp; H MAG.</b>				<b>8 x 57 MM MAUSER</b>			
REM. CASE; REM. 9 1/2 PR SPEER 180 GR. RN				REM. CASE; REM. 9 1/2 PR HORNADY 110 GR. SPIRE PT.				REM. CASE; REM. 9 1/2 M PR REM. 180 GR. PTD. SPCL				WIN. CASE; WIN 8 1/2-120 PR HORNADY 170 GR. RN			
<b>.308" DIA.; 24" BBL.; 2.600" C.O.L.</b>				<b>.308" DIA.; 23" BBL.; 3.130" C.O.L.</b>				<b>.308" DIA.; 24" BBL.; 3.520" C.O.L.</b>				<b>.323" DIA.; 25" BBL.; 2.840" C.O.L.</b>			
SR 4759	22.5	1910	45500	SR 4759	35.0	2820	49700	SR 4759	38.0	2330	54000	SR 4759	20.5	1855	37000
IMR 4227	23.0	1965	44800	IMR 4227	32.0	2730	49400	IMR 4227	36.0	2300	54000	IMR 4227	21.5	1860	36600
IMR 4198	29.5	2190	45200	IMR 4198	39.5	2980	49400	IMR 4198	43.0	2515	53000	IMR 4198	27.54	2075	37000
IMR 3031	37.0	2390	45900	IMR 3031	56.0	3365	49300	IMR 3031	57.0	2815	53400	IMR 3031	32.5	2105	36100
IMR 4064	38.5	2395	45900	IMR 4064	58.0C	3320	49400	IMR 4064	60.0	2875	53400	IMR 4064	35.0	2175	36900
IMR 4895	38.5	2390	45700	IMR 4895	54.5	3265	49300	IMR 4895	54.5	2760	53800	IMR 4895	33.5	2145	37000
IMR 4320	40.0	2390	46000	IMR 4320	57.5	3255	49100	IMR 4320	57.5	2795	53800	IMR 4320	34.5	2105	36200
IMR 4350	44.0C	2350	41900	IMR 4350	59.0C	2960	36900	IMR 4350	69.0	2990	54000	IMR 4350	42.0	2180	37000
IMR 4831	44.0C	2240	39300	IMR 4831	59.0C	2780	32500	IMR 4831	73.0C	3035	53500	IMR 4831	46.0	2255	37000
<b>.308 WINCHESTER</b>				<b>.30-06</b>				<b>.300 H &amp; H MAG.</b>				<b>.338 WINCHESTER MAG.</b>			
REM. CASE; REM. 9 1/2 PR HORNADY 110 GR. SPIRE PT.				REM. CASE; REM. 9 1/2 PR REM. 150 GR. PTD. SPCL				REM. CASE; REM. 9 1/2 M PR REM. 220 GR. SPCL				WIN. CASE; WIN 8 1/2-120 PR WIN. 200 GR. POWDER PT. SP			
<b>.308" DIA.; 23" BBL.; 2.600" C.O.L.</b>				<b>.308" DIA.; 23" BBL.; 3.200" C.O.L.</b>				<b>.308" DIA.; 24" BBL.; 3.575" C.O.L.</b>				<b>.338" DIA.; 25" BBL.; 3.330" C.O.L.</b>			
SR 4759	31.0	2710	51600	SR 4759	31.0	2365	49700	SR 4759	36.5	2030	54000	SR 4759	39.5	2335	54000
IMR 4227	32.0	2835	51900	IMR 4227	30.0	2310	50000	IMR 4227	35.5	2015	53600	IMR 4227	38.0	2300	53500
IMR 4198	38.5	3015	51100	IMR 4198	38.0	2600	50000	IMR 4198	42.0	2240	52600	IMR 4198	47.5	2565	53500
IMR 3031	45.0C	2990	42200	IMR 3031	49.5	2850	49800	IMR 3031	52.5	2485	53300	IMR 3031	61.0	2860	54000
IMR 4064	47.0C	2955	43300	IMR 4064	52.0	2885	50000	IMR 4064	56.5	2565	53300	IMR 4064	64.0	2920	54000
IMR 4895	49.0C	3130	49200	IMR 4895	49.5	2845	50000	IMR 4895	51.5	2465	53300	IMR 4895	61.0	2880	53700
IMR 4320	49.0C	3010	49200	IMR 4320	51.0	2825	50000	IMR 4320	54.0	2495	53000	IMR 4320	63.0	2875	54000
IMR 4350	47.0C	2500	32000	IMR 4350	59.0C	2825	47800	IMR 4350	65.0	2695	54000	IMR 4350	73.0	3030	53900
IMR 4831	47.0C	2330	29200	IMR 4831	59.0C	2715	42900	IMR 4831	67.0	2710	54000	IMR 4831	76.0C	3020	51000
<b>.308 WINCHESTER</b>				<b>.30-06</b>				<b>.300 WINCHESTER MAG.</b>				<b>.338 WINCHESTER MAG.</b>			
REM. CASE; REM. 9 1/2 PR REM. 180 GR. PTD. SPCL				REM. CASE; REM. 9 1/2 PR SIERRA 200 GR. MATCH KING HP				REM. CASE; REM. 9 1/2 M PR REM. 150 GR. PTD. SPCL				REM. CASE; REM. 9 1/2 M PR NOSLER 250 GR. SPITZER			
<b>.308" DIA.; 23" BBL.; 2.725" C.O.L.</b>				<b>.308" DIA.; 23" BBL.; 3.340" C.O.L.</b>				<b>.308" DIA.; 24" BBL.; 3.340" C.O.L.</b>				<b>.338" DIA.; 24" BBL.; 3.340" C.O.L.</b>			
SR 4759	26.5	2085	51200	SR 4759	28.5	2000	49800	SR 4759	41.5	2660	53400	SR 4759	34.5	1795	54000
IMR 4227	27.0	2110	52000	IMR 4227	28.5	2045	50000	IMR 4227	39.5	2590	52400	IMR 4227	34.0	1800	53600
IMR 4198	33.5	2350	51600	IMR 4198	36.0	2285	48400	IMR 4198	49.0	2900	53600	IMR 4198	42.5	2050	53500
IMR 3031	41.5C	2550	51700	IMR 3031	44.5	2450	49700	IMR 3031	65.5	3240	53700	IMR 3031	53.5	2260	53800
IMR 4064	43.5C	2580	51700	IMR 4895	43.0	2445	49700	IMR 4064	65.5	3240	53700	IMR 4064	56.0	2305	53800
IMR 4895	42.5C	2540	50900	IMR 4320	46.0	2445	48800	IMR 4895	64.0	3240	53000	IMR 4895	52.5	2265	54000
IMR 4320	44.5C	2550	52000	IMR 7828	55.0C	2385	44100	IMR 4350	76.0	3335	53900	IMR 4320	54.5	2275	53700
IMR 4350	46.0C	2365	38900					IMR 4831	80.0	3365	54000	IMR 4350	64.5	2410	53800
IMR 4831	46.0C	2225	36900									IMR 7828	71.0C	2430	43400
<b>.30-40 KRAG</b>				<b>.30-06</b>				<b>7.62 MM X 39</b>				<b>.338 WINCHESTER MAG.</b>			
WIN. CASE; WIN. 8 1/2-120 PR SPEER 150 GR. SPITZER				REM. CASE; REM. 9 1/2 PR HORNADY 220 GR. RN				IMI CASE; CCI 200 PR SPEER 125 GR. SP.; .311 DIA. 20" BBL.; 2.180" C.O.L.				WIN. CASE; WIN 8 1/2-120 PR WIN. 300 GR. POWER PT. SP			
<b>.308" DIA.; 25.5" BBL.; 3.00" C.O.L.</b>				<b>.308" DIA.; 23" BBL.; 3.185" C.O.L.</b>				<b>.308" DIA.; 24" BBL.; 3.340" C.O.L.</b>				<b>.338" DIA.; 25" BBL.; 3.330" C.O.L.</b>			
SR 4759	24.5	2080	37300	SR 4759	27.0	1835	50000	SR 4759	18.5	1995	44100	SR 4759	34.5	1795	54000
IMR 4227	23.5	2090	37700	IMR 4227	27.0	1850	50000	IMR 4198	24.0	2250	42500	IMR 4227	34.0	1800	53600
IMR 4198	30.0	2355	38100	IMR 4198	33.0	2055	48800					IMR 4198	42.5	2050	53500
IMR 3031	42.0	2695	39500	IMR 3031	42.5	2300	49000					IMR 3031	53.5	2260	53800
IMR 4064	44.0	2695	39000	IMR 4064	46.0	2370	50000					IMR 4064	56.0	2305	53800
IMR 4895	36.0	2435	39700	IMR 4895	40.5	2230	50000					IMR 4895	52.5	2265	54000
IMR 4320	37.0	2420	39700	IMR 4320	44.0	2295	49500					IMR 4320	54.5	2275	53700
IMR 4350	48.5C	2615	36300	IMR 4350	53.5C	2470	50000					IMR 4350	64.5	2410	53800
IMR 4831	48.5C	2430	29800	IMR 7828	55.0C	2285	41900					IMR 4831	68.5C	2480	54000
<b>.30-40 KRAG</b>				<b>.300 H &amp; H MAG.</b>				<b>8 X 57 MM MAUSER</b>				<b>.357 MAGNUM (RIFLE)</b>			
WIN. CASE; WIN. 8 1/2-120 PR REM. 180 GR. SPCL				REM. CASE; REM. 9 1/2 M PR REM. 150 GR. PTD. SPCL				WIN. CASE; WIN. 8 1/2-120 PR SPEER 150 GR. SPITZER				REM. CASE; REM. 5 1/2 PR HORNADY 125 GR. HP			
<b>.308" DIA.; 25.5" BBL.; 3.00" C.O.L.</b>				<b>.308" DIA.; 24" BBL.; 3.550" C.O.L.</b>				<b>.323" DIA.; 25" BBL.; 2.945" C.O.L.</b>				<b>.357" DIA.; 18.5" BBL.; 1.590" C.O.L.</b>			
SR 4759	24.0	1940	39100	SR 4759	40.0	2455	53600	SR 4759	21.5	1960	37000	"Hi-Skor"			
IMR 4227	23.0	1900	37800	IMR 4227	37.0	2515	54000	IMR 4227	22.5	2015	36700	700-X	6.7	1455	35700
IMR 4198	29.5	2150	39800	IMR 4198	44.0	2715	53500	IMR 4198	28.5	2225	37000	PB	7.2	1435	34600
IMR 3031	38.0	2375	39300	IMR 3031	60.0	3100	51000	IMR 3031	34.5	2335	37000	SR 7625	7.4	1460	35300
IMR 4064	41.0	2435	39000	IMR 4064	64.0	3170	53800	IMR 4064	36.0	2305	37000	SR 4756	9.2	1615	35800
IMR 4895	35.5	2270	38800	IMR 4895	55.0	2960	54000	IMR 4895	36.0	2310	37000	IMR 4227	20.0X	1935	34100
IMR 4320	35.5	2210	38100	IMR 4320	58.0	2970	53700	IMR 4320	36.0	2270	36900				
IMR 4350	46.0C	2445	38700	IMR 4350	73.0	3215	53600	IMR 4350	43.0	2315	36800				
IMR 4831	49.0C	2425	35900	IMR 4831	75.5C	3200	53100	IMR 4831	47.0	2325	36800				

Velocity and pressure readings represent average values obtained under controlled conditions. The values shown may vary substantially with the components and the reloading techniques employed. We suggest the charge weights shown be reduced initially by 10% to compensate for possible variations from the published data. The loads may then be increased as pressure indications permit.

# RIFLE

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IMR POWDER	CHARGE (grains)	VELOCITY (ft/sec)	CHAMBER PRESS. (cup)	IMR POWDER	CHARGE (grains)	VELOCITY (ft/sec)	CHAMBER PRESS. (cup)	IMR POWDER	CHARGE (grains)	VELOCITY (ft/sec)	CHAMBER PRESS. (cup)
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## .357 MAGNUM (RIFLE)

REM. CASE; REM. 5 1/2 PR

HORNADY 158 GR. HP

.357" DIA.; 18.5" BBL.; 1.590" C.O.L.

"Hi-Skor"			
700-X	5.7	1185	35200
PB	6.0	1160	35600
SR 7625	6.5	1215	36000
SR 4756	8.0	1340	36000
IMR 4227	16.3C	1605	34900

## .35 REMINGTON

REM. CASE; REM. 9 1/2 PR

REM. 150 GR. PTD. SPCL

.358" DIA.; 23" BBL.; 2.500" C.O.L.

SR 4759	23.0	1985	35000
IMR 4227	22.0	1935	33600
IMR 4198	29.0	2190	35000
IMR 3031	42.0C	2390	34200
IMR 4064	43.0C	2390	34200
IMR 4895	43.0C	2340	34600
IMR 4320	42.5	2295	34700
IMR 4350	43.5C	1985	24100
IMR 4831	43.5C	1850	21300

## .35 REMINGTON

REM. CASE; REM. 9 1/2 PR

HORNADY 200 GR. RN

.358" DIA.; 23" BBL.; 2.500" C.O.L.

SR 4759	20.5	1770	35000
IMR 4227	21.0	1760	35000
IMR 4198	27.0	1915	33500
IMR 3031	37.5	2110	34700
IMR 4064	39.5C	2080	34200
IMR 4895	36.5	2030	3490
IMR 4320	38.5	2020	35000
IMR 4350	43.0C	1915	29200
IMR 4831	43.0C	1780	25900

## .358 WINCHESTER

WIN. CASE; WIN. 8 1/2-120 PR

WEST. 200 GR. SILVER TIP

.358" DIA.; 25" BBL.; 2.765" C.O.L.

SR 4759	29.5	2170	52000
IMR 4227	28.5	2130	50800
IMR 4198	40.0	2495	52000
IMR 3031	49.0C	2630	51800
IMR 4064	49.0C	2525	46200
IMR 4895	49.0C	2565	50800
IMR 4320	51.0C	3656	62800
IMR 4350	51.0C	2270	37600
IMR 4831	51.0C	2115	32300

## .358 WINCHESTER

WIN. CASE; WIN. 8 1/2-120 PR

WEST. 250 GR. SILVER TIP

.358" DIA.; 25" BBL.; 2.780" C.O.L.

SR 4759	26.0	1845	51400
IMR 4227	26.5	1860	52000
IMR 4198	32.5	2045	51700
IMR 3031	42.0	2260	50800
IMR 4064	44.0C	2270	52000
IMR 4895	43.0	2235	51200
IMR 4320	44.5	2210	51400
IMR 4350	47.0C	2115	41700
IMR 4831	47.0C	1975	37100

## .375 H & H MAG.

WIN. CASE; WIN. 8 1/2-120 PR

REM. 270 GR. SP

.375" DIA.; 25" BBL.; 3.600" C.O.L.

SR 4759	41.5	2085	53000
IMR 4227	39.5	2070	53000
IMR 4198	49.0	2300	53000
IMR 3031	65.5	2610	53000
IMR 4064	69.0	2655	52500
IMR 4895	65.0	2565	53000
IMR 4320	66.5	2545	52000
IMR 4350	78.5C	2710	53000
IMR 4831	82.5C	2690	50700

## .375 H & H MAG.

WIN. CASE; WIN. 8 1/2-120 PR

WIN. 300 GR. SILVER TIP

.375" DIA.; 25" BBL.; 3.600" C.O.L.

SR 4759	39.0	1925	53000
IMR 4227	38.05	1935	52600
IMR 4198	47.0	2145	53000
IMR 3031	63.0	2465	52500
IMR 4064	67.0	2525	52500
IMR 4895	61.0	2400	52800
IMR 4320	63.0	2405	53000
IMR 4350	78.0C	2620	52700
IMR 4831	80.0C	2560	48300

## .416 REMINGTON MAGNUM

REM. CASE; REM. 9 1/2 M PR

SWIFT 350 GR SSSP,

.416" DIA.; 24" BBL.; 3.545" C.O.L.

IMR 3031	76.5	2450	53000
IMR 4064	81.0	2485	51600
IMR 4895	77.0	2425	53700

## .416 REMINGTON MAGNUM

REM. CASE; REM. 9 1/2 M PR

HORNADY 400 GR, FMJ,

.416" DIA.; 24" BBL.; 3.555" C.O.L.

IMR 3031	75.0	2315	52100
IMR 4064	78.0	2335	52000
IMR 4895	76.5	2325	53800

## .44 REMINGTON MAG.

REM. CASE; REM. 2 1/2 PR

REM. 240 GR. SP

.430" DIA.; 22" BBL.; 1.610" C.O.L.

SR 4759	21.0C	1630	38500
IMR 4227	23.5C	1680	39500
IMR 4198	25.5C	1515	26400
IMR 3031	27.0C	1190	18900
IMR 4064	27.5C	1145	16600
IMR 4895	28.0C	1225	18300
IMR 4320	28.5C	1200	20900
IMR 4350	27.0C	850	13900
IMR 4831	27.0C	720	12500

## .444 MARLIN

REM. CASE; REM. 9 1/2 PR

REM. 240 GR. SP

.430" DIA.; 25" BBL.; 2.570" C.O.L.

SR 4759	33.0	2055	43600
IMR 4227	32.5	2030	44000
IMR 4198	47.0	2335	44000
IMR 3031	54.5C	2175	35900
IMR 4064	54.5C	2055	32200
IMR 4895	56.0C	2200	38600
IMR 4320	56.0C	2125	37500
IMR 4350	55.5C	1775	24200

## .45-70 GOVT.

WIN. CASE; WIN. 8 1/2-120 PR

WIN. 405 GR. SP

.457" DIA.; 25" BBL.; 2.550" C.O.L.

SR 4759	29.0	1500	26900
IMR 4227	30.0	1465	26500
IMR 4198	38.0	1620	27400
IMR 3031	51.45	1795	27000
IMR 4064	55.0C	1780	26700
IMR 4895	52.5	1785	26900
IMR 4320	53.5	1720	27300
IMR 4350	56.0C	1555	20000
IMR 4831	56.0C	1390	17800

\*Note - These loads must not be used in any trapdoor single shot rifle.

## .458 WINCHESTER MAG.

WIN. CASE; WIN. 8 1/2-120 PR

WIN. 510 GR. SP

.457" DIA.; 25" BBL.; 3.340" C.O.L.

SR 4759	44.5	1645	52400
IMR 4227	45.0	1665	52700
IMR 4198	58.0	1925	52500
IMR 3031	69.0C	2030	43900
IMR 4064	71.0C	2020	41300
IMR 4895	72.5	2100	53000
IMR 4320	74.0C	2070	51500
IMR 4350	72.0C	1810	30300
IMR 4831	72.0C	1680	24900

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## IMR 7828

### WEATHERBY CARTRIDGES RELOADING DATA

CALIBER	PRIMER	BULLET	CARTRIDGE OVERALL LENGTH (IN.)	IMR POWDER	POWDER CHARGE GRAINS	VELOCITY FT/SEC	CHAMBER PRESSURE (CUP)
.240 Weatherby Magnum	Fed. 210	Nosler 100 gr. Spitzer	3.063	<b>IMR-7828</b>	53.5C	3240	52000
7mm Weatherby Magnum	Fed. 215	Hornady 139 gr. Flat Spire Point	3.068	<b>IMR-7828</b>	76.0C	3335	51500
		Nosler 140 gr. Spitzer	3.250	<b>IMR-7828</b>	76.5C	3390	53300
		Hornady 154 gr. Spire Point	3.337	<b>IMR-7828</b>	74.5	3250	53400
		Nosler 160 gr. Spitzer	3.337	<b>IMR-7828</b>	73.5	3210	53500
		Hornady 175 gr. Spire Point	3.360	<b>IMR-7828</b>	70.5	2975	53000
.300 Weatherby Magnum	Fed. 215	Nosler 150 gr. Spitzer	3.560	<b>IMR-7828</b>	89.0C	3425	49900
		Nosler 180 gr. Spitzer	3.560	<b>IMR-7828</b>	86.0C	3240	52500
		Nosler 200 gr. Spitzer	3.560	<b>IMR-7828</b>	83.0C	3065	50600
.340 Weatherby Magnum	Fed. 215	Nosler 210 gr. Spitzer	3.608	<b>IMR-7828</b>	90.5C	3070	51600
		Hornady 225 gr. Spire Point	3.645	<b>IMR-7828</b>	89.0C	2965	51000
		Hornady 250 gr. Round Nose	3.658	<b>IMR-7828</b>	87.5C	2860	53100

**Notes:**

- Brass—Weatherby Factory Shells
- C = Compressed Load
- Barrel Length—26 inch
- All Nosler bullets used were partition type
- Recommended using only primer shown for each load

### RIFLE DATA SHOWING CHAMBER PRESSURE IN PSI

IMR POWDER	CHARGE (grains)	VELOCITY (ft/sec)	CHAMBER PRESS. (psi)	IMR POWDER	CHARGE (grains)	VELOCITY (ft/sec)	CHAMBER PRESS. (psi)	IMR POWDER	CHARGE (grains)	VELOCITY (ft/sec)	CHAMBER PRESS. (psi)	IMR POWDER	CHARGE (grains)	VELOCITY (ft/sec)	CHAMBER PRESS. (psi)
<b>243 WINCHESTER</b>				<b>260 REMINGTON</b>				<b>260 REMINGTON</b>				<b>270 WINCHESTER</b>			
WIN. CASE; FED. 210 PR				REM. CASE; WIN. WLR PR				REM. CASE; WIN. WLR PR				REM. CASE; FED. 210 PR			
NOSLER 55 GR. BALLISTIC TIP				SIERRA 100 GR. HOLLOW PT.				REM. 140 GR. PSPCL				SIERRA 140 GR. HPBT			
.243" DIA.; 24" BBL.; 2.580" C.O.L.				.264" DIA.; 24" BBL.; 2.700" C.O.L.				.264" DIA.; 24" BBL.; 2.780" C.O.L.				.277" DIA.; 24" BBL.; 3.252" C.O.L.			
IMR 4064	44.0	3900	56000	IMR 3031	35.5	2995	57100	SR 4759	18.0	1735	39800	IMR 4831	55.0	2980	62000
				IMR 4064	39.5	3095	57000	SR 4759	23.0	2135	56500	IMR 7828	56.5	2860	55000
				IMR 4895	38.0	3045	57300	IMR 3031	32.5	2505	56200				
				IMR 4320	39.0	3040	57300	IMR 4064	36.0	2615	56900				
				IMR 4350	45.0	3120	57500	IMR 4895	35.5	2605	57600				
				IMR 4831	46.5	3130	58300	IMR 4320	36.0	2600	57600				
				IMR 7828	49.0C	3025	53300	IMR 4350	43.0	2715	57000				
								IMR 4831	44.0	2715	57000				
								IMR 7828	47.0C	2755	57200				
<b>243 WINCHESTER</b>				<b>260 REMINGTON</b>				<b>260 REMINGTON</b>				<b>7MM REM SAUM</b>			
WIN. CASE; FED. 210 PR				REM. CASE; WIN. WLR PR				REM. CASE; WIN. WLR PR				REM. CASE; REM. 9 1/2 M			
BARNES 85 GR. XBTLC				SIERRA 120 GR. SPITZER				HORNADY 160 GR. RN				NOSLER 140 GR. PARTITION			
.243" DIA.; 24" BBL.; 2.670" C.O.L.				.264" DIA.; 24" BBL.; 2.780" C.O.L.				.264" DIA.; 24" BBL.; 2.800" C.O.L.				.284" DIA.; 24" BBL.; 2.815" C.O.L.			
IMR 4895	38.0	3100	55600	SR 4759	17.0	1755	37500	IMR 4350	40.5	2520	57400	IMR 4350	61.2	3174	62000
IMR 4320	38.5	3100	57000	SR 4759	23.5	2280	57600	IMR 4831	41.5	2520	57200	IMR 4831	62.3	3173	62700
IMR 4350	45.0	3170	55000	IMR 3031	34.0	2720	57600	IMR 7828	45.0	2580	58100	IMR 7828	65.0c	3104	58600
IMR 4831	46.0	3170	54000	IMR 4064	37.0	2805	57700								
				IMR 4895	36.0	2770	57100								
				IMR 4320	37.5	2805	58400								
				IMR 4350	43.0	2885	58000								
				IMR 4831	44.0	2885	58400								
				IMR 7828	47.0C	2895	57800								
<b>243 WINCHESTER</b>				<b>260 REMINGTON</b>				<b>270 WIN SHORT MAG</b>				<b>7MM REM SAUM</b>			
WIN. CASE; FED. 210 PR				REM. CASE; WIN. WLR PR				WIN. CASE; REM. 9 1/2 M				REM. CASE; REM. 9 1/2 M			
HORNADY 100 GR. SP				SIERRA 120 GR. SPITZER				NOSLER 130 GR. BALLISTIC TIP				SWIFT 150 GR. SCIROCCO			
.243" DIA.; 24" BBL.; 2.670" C.O.L.				.264" DIA.; 24" BBL.; 2.780" C.O.L.				.277" DIA.; 24" BBL.; 2.800" C.O.L.				.284" DIA.; 24" BBL.; 2.815" C.O.L.			
IMR 4895	34.0	2790	56000	SR 4759	17.0	1755	37500	IMR 4350	62.5	3244	63100	IMR 4350	57.8	3023	63000
IMR 4350	38.2	2850	56000	SR 4759	23.5	2280	57600	IMR 4831	63.8	3234	62900	IMR 4831	59.3	3022	63200
IMR 4831	39.5	2880	57000	IMR 3031	34.0	2720	57600	IMR 7828	68.0	3244	61500	IMR 7828	63.5c	3028	61700
				IMR 4064	37.0	2805	57700								
				IMR 4895	36.0	2770	57100								
				IMR 4320	37.5	2805	58400								
				IMR 4350	43.0	2885	58000								
				IMR 4831	44.0	2885	58400								
				IMR 7828	47.0C	2895	57800								
<b>25-06 REMINGTON</b>				<b>260 REMINGTON</b>				<b>270 WIN SHORT MAG</b>				<b>7MM REM SAUM</b>			
REM. CASE; FED. 210 PR				REM. CASE; WIN. WLR PR				WIN. CASE; REM. 9 1/2 M				REM. CASE; REM. 9 1/2 M			
BARNES 115 GR. X				HORNADY 129 GR. SPIRE PT.				SWIFT 140 GR. A-FRAME				HORNADY 154 GR. SP			
.257" DIA.; 24" BBL.; 3.175" C.O.L.				.264" DIA.; 24" BBL.; 2.780" C.O.L.				.277" DIA.; 24" BBL.; 2.800" C.O.L.				.284" DIA.; 24" BBL.; 2.815" C.O.L.			
IMR 4350	45.3	2860	60000	IMR 3031	33.0	2590	56800	IMR 4350	58.3	3074	62700	IMR 4350	57.3	2964	62400
IMR 4831	46.2	2830	60000	IMR 4064	36.5	2690	58300	IMR 4831	60.3	3096	62900	IMR 4831	58.7	2963	62200
IMR 7828	51.5	2900	57000	IMR 4895	36.5	2725	58100	IMR 7828	65.2	3135	62000	IMR 7828	63.4	3016	63400
				IMR 4320	36.5	2685	58600								
				IMR 4350	41.5	2765	57300								
				IMR 4831	43.0	2785	58300								
				IMR 7828	45.0	2775	57200								
<b>25-06 REMINGTON</b>				<b>270 WIN SHORT MAG</b>				<b>270 WIN SHORT MAG</b>				<b>7MM REM SAUM</b>			
REM. CASE; FED. 210 PR				WIN. CASE; REM. 9 1/2 M				WIN. CASE; REM. 9 1/2 M				REM. CASE; REM. 9 1/2 M			
NOSLER 115 GR. BALLISTIC TIP				NOSLER 150 GR. BALLISTIC TIP				NOSLER 150 GR. BALLISTIC TIP				NOSLER 160 GR. PARTITION			
.257" DIA.; 24" BBL.; 3.175" C.O.L.				.277" DIA.; 24" BBL.; 2.800" C.O.L.				.277" DIA.; 24" BBL.; 2.800" C.O.L.				.284" DIA.; 24" BBL.; 2.815" C.O.L.			
IMR 4350	48.7	3000	59000	IMR 4350	60.0	3016	62600	IMR 4350	60.0	3016	62600	IMR 4350	56.9	2929	63000
IMR 4831	50.7	3030	60000	IMR 4831	61.6	3021	62900	IMR 4831	61.6	3021	62900	IMR 4831	58.6	2928	62400
IMR 7828	55.5	3040	57000	IMR 7828	66.5c	3059	60800	IMR 7828	66.5c	3059	60800	IMR 7828	63.3	2996	63600

# RIFLE

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IMR POWDER	CHARGE (grains)	VELOCITY (ft/sec)	CHAMBER PRESS. (psi)	IMR POWDER	CHARGE (grains)	VELOCITY (ft/sec)	CHAMBER PRESS. (psi)	IMR POWDER	CHARGE (grains)	VELOCITY (ft/sec)	CHAMBER PRESS. (psi)	IMR POWDER	CHARGE (grains)	VELOCITY (ft/sec)	CHAMBER PRESS. (psi)
<b>7MM WIN SHORT MAG</b>				<b>7 MM SHOOTING TIMES WESTERNER</b>				<b>7MM REM ULTRA MAG</b>				<b>30-06 SPRG</b>			
WIN. CASE; REM. 9 1/2 M BARNES 140 GR. XBT				REM. CASE; FED. 215 PR BARNES 120 GR. XFB				REM. CASE; FED. 215 PR HORNADY 175 GR. SP				REM. CASE; FED. 210 PR SIERRA 165 GR. HPBT			
.284" DIA.; 24" BBL.; 2.830" C.O.L.				.284" DIA.; 24" BBL.; 3.580" C.O.L.				.284" DIA.; 24" BBL.; 3.600" C.O.L.				.308" DIA.; 24" BBL.; 3.215" C.O.L.			
IMR 4350	63.2	3155	63200	IMR 4350	73.0	3460	63000	IMR 4831	73.3	2870	61000	IMR 4064	47.5	2740	57000
IMR 4831	64.3	3130	63000	IMR 4831	74.0	3445	63400	IMR 7828	80.5	2950	61000	IMR 4895	46.0	2700	57000
IMR 7828	68.0c	3104	59600	IMR 7828	80.0	3495	62900					IMR 4350	54.0	2760	55000
												IMR 4831	57.4	2830	57000
<b>7MM WIN SHORT MAG</b>				<b>7 MM SHOOTING TIMES WESTERNER</b>				<b>30-30 WINCHESTER</b>				<b>30-06 SPRG</b>			
WIN. CASE; REM. 9 1/2 M NOSLER 150 GR. BALLISTIC TIP				REM. CASE; FED. 215 PR NOSLER 140 GR. BALLISTIC TIP				REM. CASE; REM. 9" PR SIERRA 150 GR. FN				REM. CASE; FED. 210 PR SWIFT 165 GR. A-FRAME			
.284" DIA.; 24" BBL.; 2.830" C.O.L.				.284" DIA.; 24" BBL.; 3.580" C.O.L.				.308" DIA.; 24" BBL.; 2.550" C.O.L.				.308" DIA.; 24" BBL.; 3.205" C.O.L.			
IMR 4350	62.0	3072	62800	IMR 4350	71.5	3285	62700	IMR 4198	24.6	2190	40000	IMR 4895	48.5	2710	56000
IMR 4831	63.5	3068	63000	IMR 4831	74.0	3285	62500	IMR 3031	31.1	2300	39000	IMR 4350	56.0	2790	55000
IMR 7828	68.0c	3089	61900	IMR 7828	79.5	3335	62100	IMR 4895	33.3	2310	40000	IMR 4831	59.0c	2770	54000
								IMR 4320	33.0	2250	38000				
<b>7MM WIN SHORT MAG</b>				<b>7 MM SHOOTING TIMES WESTERNER</b>				<b>30-30 WINCHESTER</b>				<b>30-06 SPRG</b>			
WIN. CASE; REM. 9 1/2 M NOSLER 160 GR. PARTITION				REM. CASE; FED. 215 PR NOSLER 150 GR. BALLISTIC TIP				REM. CASE; REM. 9" PR HORNADY 170 GR. FP				REM. CASE; FED. 210 PR SWIFT 180 GR. SCIROCCO			
.284" DIA.; 24" BBL.; 2.830" C.O.L.				.284" DIA.; 24" BBL.; 3.580" C.O.L.				.308" DIA.; 24" BBL.; 2.545" C.O.L.				.308" DIA.; 24" BBL.; 3.340" C.O.L.			
IMR 4350	58.3	2925	62800	IMR 4350	67.5	3110	62300	IMR 4198	23.6	2020	40000	IMR 4064	44.7	2460	55000
IMR 4831	59.3	2922	62700	IMR 4831	69.5	3110	61700	IMR 3031	29.7	2110	39000	IMR 4350	53.0	2590	57000
IMR 7828	65.5	3004	62900	IMR 7828	77.0	3190	61600	IMR 4064	31.6	2120	40000	IMR 4831	54.3c	2580	56000
								IMR 4895	31.5	2130	40000				
								IMR 4320	32.0	2090	39000				
<b>7MM WIN SHORT MAG</b>				<b>7 MM SHOOTING TIMES WESTERNER</b>				<b>308 WINCHESTER</b>				<b>30-06 SPRG</b>			
WIN. CASE; REM. 9 1/2 M HORNADY 175 GR. SP				REM. CASE; FED. 215 PR SWIFT 160 GR. A-FRAME				REM. CASE; FED. 210 PR NOSLER 150 GR. BALLISTIC TIP				REM. CASE; FED. 210 PR NOSLER 180 GR. PARTITION			
.284" DIA.; 24" BBL.; 2.830" C.O.L.				.284" DIA.; 24" BBL.; 3.600" C.O.L.				.308" DIA.; 24" BBL.; 2.755" C.O.L.				.308" DIA.; 24" BBL.; 3.290" C.O.L.			
IMR 4350	56.5	2760	62800	IMR 4350	66.5	2995	62000	IMR 3031	42.5	2750	57000	IMR 4064	45.5	2530	56000
IMR 4831	57.0	2753	63400	IMR 4831	68.5	3010	62400	IMR 4064	45.0c	2840	58000	IMR 4350	53.5	2630	56000
IMR 7828	62.1	2811	62600	IMR 7828	76.0	3110	62300	IMR 4895	45.5	2880	59000	IMR 4831	54.0	2600	55000
								IMR 4320	45.8	2830	59000				
<b>7MM REMINGTON MAG</b>				<b>7MM REM ULTRA MAG</b>				<b>308 WINCHESTER</b>				<b>30-06 SPRG</b>			
REM. CASE; FED. 215 PR BARNES 140 GR. XBTL				REM. CASE; FED. 215 PR NOSLER 140 GR. PARTITION				REM. CASE; FED. 210 PR BARNES 165 GR. X				REM. CASE; FED. 210 PR SIERRA 180 GR. SPITZER BT			
.284" DIA.; 24" BBL.; 3.270" C.O.L.				.284" DIA.; 24" BBL.; 3.600" C.O.L.				.308" DIA.; 24" BBL.; 2.800" C.O.L.				.308" DIA.; 24" BBL.; 3.325" C.O.L.			
IMR 4350	65.3	3060	58000	IMR 4350	60.6	2940	56000	IMR 4064	42.5	2600	58000	IMR 4064	46.0	2600	55000
IMR 4831	66.5	3040	56000	IMR 4831	63.2	2960	57000	IMR 4895	43.7	2650	59000	IMR 4350	54.3	2670	55000
IMR 7828	72.3c	3100	58000	IMR 7828	68.2	3000	57000	IMR 4320	43.0	2600	58000	IMR 4831	55.8	2700	57000
												IMR 4831	55.3	2670	56000
<b>7MM REMINGTON MAG</b>				<b>7MM REM ULTRA MAG</b>				<b>308 WINCHESTER</b>				<b>300 REM SAUM</b>			
REM. CASE; FED. 215 PR NOSLER 150 GR. BALLISTIC TIP				REM. CASE; FED. 215 PR BARNES 140 GR. XBT				REM. CASE; FED. 210 PR NOSLER 165 GR. BALLISTIC TIP				REM. CASE; REM. 9 1/2 M NOSLER 150 GR. BALLISTIC TIP			
.284" DIA.; 24" BBL.; 3.290" C.O.L.				.284" DIA.; 24" BBL.; 3.600" C.O.L.				.308" DIA.; 24" BBL.; 2.755" C.O.L.				.308" DIA.; 24" BBL.; 2.815" C.O.L.			
IMR 4350	60.6	2940	56000	IMR 4350	60.6	2940	56000	IMR 4064	42.5	2600	58000	IMR 3031	53.5	3085	62400
IMR 4831	63.2	2960	57000	IMR 4831	63.2	2960	57000	IMR 4895	43.7	2650	59000	IMR 4064	57.5	3148	62100
IMR 7828	68.2	3000	57000	IMR 7828	68.2	3000	57000	IMR 4320	43.0	2600	58000	IMR 4350	65.0c	3140	60100
												IMR 4831	65.0c	3050	55700
<b>7MM REMINGTON MAG</b>				<b>7MM REM ULTRA MAG</b>				<b>308 WINCHESTER</b>				<b>300 REM SAUM</b>			
REM. CASE; FED. 215 PR SWIFT 150 GR. SCIROCCO				REM. CASE; FED. 215 PR BARNES 140 GR. XLC				REM. CASE; FED. 210 PR SIERRA 165 GR. HPBT				REM. CASE; REM. 9 1/2 M HORNADY 150 GR. SP			
.284" DIA.; 24" BBL.; 3.270" C.O.L.				.284" DIA.; 24" BBL.; 3.600" C.O.L.				.308" DIA.; 24" BBL.; 2.755" C.O.L.				.308" DIA.; 24" BBL.; 2.760" C.O.L.			
IMR 4350	58.8	2930	56000	IMR 4350	81.2	3230	62000	IMR 4064	42.5	2640	57000	IMR 4064	58.1	3138	62500
IMR 4831	62.0	2940	57000	IMR 4831	88.6	3300	61000	IMR 4895	43.3	2680	59000	IMR 4350	65.5c	3131	60500
IMR 7828	67.1	2980	56000	IMR 7828	88.6	3300	61000					IMR 4831	65.5c	3028	54800
<b>7MM REMINGTON MAG</b>				<b>7MM REM ULTRA MAG</b>				<b>30-06 SPRG</b>				<b>300 REM SAUM</b>			
REM. CASE; FED. 215 PR NOSLER 160 GR. PARTITION				REM. CASE; FED. 215 PR SWIFT 150 GR. SCIROCCO				REM. CASE; REM. 9" PR NOSLER 150 GR. BALLISTIC TIP				REM. CASE; REM. 9 1/2 M SPEER 165 GR. GS-SP			
.284" DIA.; 24" BBL.; 3.290" C.O.L.				.284" DIA.; 24" BBL.; 3.600" C.O.L.				.308" DIA.; 24" BBL.; 3.300" C.O.L.				.308" DIA.; 24" BBL.; 2.690" C.O.L.			
IMR 4350	58.7	2880	57000	IMR 4350	76.8	3150	62000	IMR 4064	51.3	2940	57000	IMR 4064	56.6	2989	63100
IMR 4831	60.2	2860	56000	IMR 4831	86.0	3230	61000	IMR 4895	49.0	2880	57000	IMR 4350	64.0c	3029	62600
IMR 7828	66.0	2940	57000	IMR 7828	86.0	3230	61000	IMR 4350	59.0c	2960	57000				
<b>7MM REMINGTON MAG</b>				<b>7MM REM ULTRA MAG</b>				<b>30-06 SPRG</b>				<b>300 REM SAUM</b>			
REM. CASE; FED. 215 PR SWIFT 160 GR. A-FRAME				REM. CASE; FED. 215 PR NOSLER 160 GR. PARTITION				REM. CASE; FED. 210 PR NOSLER 165 GR. BALLISTIC TIP				REM. CASE; REM. 9 1/2 M NOSLER 165 GR. BALLISTIC TIP			
.284" DIA.; 24" BBL.; 3.250" C.O.L.				.284" DIA.; 24" BBL.; 3.600" C.O.L.				.308" DIA.; 24" BBL.; 3.335" C.O.L.				.308" DIA.; 24" BBL.; 2.815" C.O.L.			
IMR 7828	66.5	2940	59000	IMR 4831	76.5	3050	61000	IMR 4064	48.7	2750	57000	IMR 4064	56.0	2968	61800
				IMR 7828	84.5	3140	62000	IMR 4895	47.0	2710	57000	IMR 4350	63.5c	3015	61800
								IMR 4320	56.0	2760	56000				

# RIFLE

IMR POWDER	CHARGE (grains)	VELOCITY (ft/sec)	CHAMBER PRESS. (psi)	IMR POWDER	CHARGE (grains)	VELOCITY (ft/sec)	CHAMBER PRESS. (psi)	IMR POWDER	CHARGE (grains)	VELOCITY (ft/sec)	CHAMBER PRESS. (psi)	IMR POWDER	CHARGE (grains)	VELOCITY (ft/sec)	CHAMBER PRESS. (psi)
<b>300 REM SAUM</b>				<b>300 WINCHESTER MAG</b>				<b>300 REM ULTRA MAG</b>				<b>338 REM ULTRA MAG</b>			
REM. CASE; REM. 9 1/2 M SPEER 180 GR. GS-SP .308" DIA.; 24" BBL.; 2.695" C.O.L.				WIN. CASE; FED. 215 PR SWIFT 180 GR. A-FRAME .308" DIA.; 24" BBL.; 3.310" C.O.L.				REM. CASE; FED. 215 PR SWIFT 180 GR. SCIROCCO .308" DIA.; 24" BBL.; 3.600" C.O.L.				REM. CASE; FED. 215 PR NOSLER 225 GR. PARTITION .338" DIA.; 26" BBL.; 3.595" C.O.L.			
IMR 4064	54.8	2822	62400	IMR 4350	70.0	2970	58000	IMR 4350	79.0	3070	62000	IMR 4350	81.4	2940	62000
IMR 4350	62.7	2902	62800	IMR 4831	71.5	2950	59000	IMR 4831	82.9	3060	60000	IMR 4831	84.2	2940	61000
IMR 4831	63.0c	2836	58500	IMR 7828	77.0c	2930	56000	IMR 7828	88.6	3100	59000	IMR 7828	92.0	3000	61000
<b>300 REM SAUM</b>				<b>300 WINCHESTER MAG</b>				<b>300 REM ULTRA MAG</b>				<b>338 REM ULTRA MAG</b>			
REM. CASE; REM. 9 1/2 M BARNES 180 GR. XBT .308" DIA.; 24" BBL.; 2.815" C.O.L.				WIN. CASE; FED. 215 PR SWIFT 180 GR. SCIROCCO .308" DIA.; 24" BBL.; 3.340" C.O.L.				REM. CASE; FED. 215 PR NOSLER 180 GR. PARTITION .308" DIA.; 24" BBL.; 3.600" C.O.L.				REM. CASE; FED. 215 PR SWIFT 250 GR. A-FRAME .338" DIA.; 26" BBL.; 3.525" C.O.L.			
IMR 4064	53.3	2807	62200	IMR 4350	67.8	2930	60000	IMR 4350	80.5	3110	62000	IMR 4350	79.5	2750	61000
IMR 4350	60.9c	2859	63400	IMR 4831	69.7	2930	60000	IMR 4831	81.4	3070	60000	IMR 4831	81.8	2770	61000
IMR 4831	60.9c	2763	56000	IMR 7828	74.5	2880	56000	IMR 7828	87.0	3140	61000	IMR 7828	88.3	2820	61000
<b>300 REM SAUM</b>				<b>300 WEATHERBY</b>				<b>300 REM ULTRA MAG</b>				<b>338 REM ULTRA MAG</b>			
REM. CASE; REM. 9 1/2 M SPEER 200 GR. GS-SP .308" DIA.; 24" BBL.; 2.695" C.O.L.				REM. CASE; FED. 215 NOSLER 165 GR. BALLISTIC TIP .308" DIA.; 24" BBL.; 3.560" C.O.L.				REM. CASE; FED. 215 PR NOSLER 200 GR. PARTITION .308" DIA.; 24" BBL.; 3.600" C.O.L.				REM. CASE; FED. 215 PR SPEER 250 GR. GRAND SLAM .338" DIA.; 26" BBL.; 3.580" C.O.L.			
IMR 4064	52.5	2663	63100	IMR 4350	75.0	3142	60300	IMR 4350	78.0	2940	62000	IMR 7828	87.0	2810	61000
IMR 4350	59.5c	2732	61800	IMR 4831	76.5	3187	62300	IMR 4831	80.2	2920	61000				
IMR 4831	59.5c	2649	56300	IMR 7828	81.5	3155	61000	IMR 7828	85.8	2990	61000				
<b>300 WIN SHORT MAG</b>				<b>300 WEATHERBY</b>				<b>303 BRITISH</b>				<b>45-70 GOVT</b>			
WIN. CASE; FED. 215 PR NOSLER 150 GR. PARTITION .308" DIA.; 24" BBL.; 2.860" C.O.L.				REM. CASE; FED. 215 SWIFT 165 GR. A-FRAME .308" DIA.; 24" BBL.; 3.520" C.O.L.				WIN. CASE; REM. 9 1/2 SPEER 150 GR. SPITZER .311" DIA.; 24" BBL.; 3.035" C.O.L.				FED. CASE; FED. 210 PR HORNADY 300 GR. HP .458" DIA.; 2.540" C.O.L.			
IMR 4350	68.8	3240	62000	IMR 4350	74.5	3139	61100	IMR 3031	41.0	2632	46100	IMR 4198	41.2	1900	27000
IMR 4831	70.0c	3230	62000	IMR 4831	78.5	3192	62400	IMR 4064	44.7	2699	46400	IMR 3031	54.0	1960	28000
				IMR 7828	82.0	3173	62000	IMR 4895	44.2	2689	46600				
<b>300 WIN SHORT MAG</b>				<b>300 WEATHERBY</b>				<b>303 BRITISH</b>				<b>45-70 GOVT</b>			
WIN. CASE; FED. 215 PR NOSLER 165 GR. PARTITION .308" DIA.; 24" BBL.; 2.860" C.O.L.				REM. CASE; FED. 215 BARNES 165 GR. XBT .308" DIA.; 24" BBL.; 3.560" C.O.L.				WIN. CASE; REM. 9 1/2 SIERRA 180 GR. SPITZER .311" DIA.; 24" BBL.; 3.035" C.O.L.				FED. CASE; FED. 210 PR NOSLER 300 GR. FN PARTITION .458" DIA.; 2.500" C.O.L.			
IMR 4350	65.5	3080	62000	IMR 4350	75.0	3127	61600	IMR 3031	38.3	2341	46500	IMR 4198	41.2	1880	28000
IMR 4831	67.0	3070	62000	IMR 4831	77.0	3120	60600	IMR 4064	41.1	2400	45700	IMR 3031	51.5	1890	27000
				IMR 7828	81.7	3146	61300	IMR 4895	41.0	2399	46100				
<b>300 WIN SHORT MAG</b>				<b>300 WEATHERBY</b>				<b>338 WINCHESTER MAG</b>				<b>45-70 GOVT</b>			
WIN. CASE; FED. 215 PR NOSLER 180 GR. BALLISTIC TIP .308" DIA.; 24" BBL.; 2.860" C.O.L.				REM. CASE; FED. 215 NOSLER 180 GR. PARTITION .308" DIA.; 24" BBL.; 3.560" C.O.L.				WIN. CASE; FED. 215 PR NOSLER 210 GR. PARTITION .338" DIA.; 24" BBL.; 3.300" C.O.L.				FED. CASE; FED. 210 PR SIERRA 300 GR. FN HP .458" DIA.; 2.530" C.O.L.			
IMR 4350	65.0	2970	62000	IMR 4350	71.5	3000	61700	IMR 4350	68.7	2830	60000	IMR 4198	43.0	1940	26000
IMR 4831	65.6c	2940	62000	IMR 4831	76.0	3036	60600	IMR 4831	72.0	2860	60000	IMR 3031	55.2	2010	28000
				IMR 7828	80.3	3079	61400	IMR 7828	75.0c	2790	56000				
<b>300 WIN SHORT MAG</b>				<b>300 WEATHERBY</b>				<b>338 WINCHESTER MAG</b>				<b>450 MARLIN</b>			
WIN. CASE; FED. 215 PR SPEER 200 GR. GRAND SLAM .308" DIA.; 24" BBL.; 2.860" C.O.L.				REM. CASE; WIN. WLR SPEER 200 GR. GRAND SLAM .308" DIA.; 24" BBL.; 3.500" C.O.L.				WIN. CASE; FED. 215 PR NOSLER 250 GR. PARTITION .338" DIA.; 24" BBL.; 3.325" C.O.L.				HORNADY CASE; FED. 210 PR BARNES 300 GR. XFN .458" DIA.; 24" BBL.; 2.512" C.O.L.			
IMR 4350	60.0	2740	62000	IMR 7828	80.0	2912	60900	IMR 4350	65.2	2560	60000	IMR 4198	44.2	2000	39000
IMR 4831	61.1	2722	62000					IMR 4831	67.0	2570	61000	IMR 3031	52.5c	1870	35000
								IMR 7828	71.0c	2590	59000				
<b>300 WINCHESTER MAG</b>				<b>300 REM ULTRA MAG</b>				<b>338 WINCHESTER MAG</b>				<b>450 MARLIN</b>			
WIN. CASE; FED. 215 PR NOSLER 165 GR. PARTITION .308" DIA.; 24" BBL.; 3.330" C.O.L.				REM. CASE; FED. 215 PR BARNES 165 GR. XSP .308" DIA.; 24" BBL.; 3.600" C.O.L.				WIN. CASE; FED. 215 PR SWIFT 250 GR. A-FRAME .338" DIA.; 24" BBL.; 3.300" C.O.L.				HORNADY CASE; FED. 210 PR NOSLER 300 GR. PARTITION .458" DIA.; 24" BBL.; 2.505" C.O.L.			
IMR 4350	71.5	3110	61000	IMR 4350	81.7	3170	61000	IMR 4350	65.0	2560	60000	IMR 4198	45.0	2050	40000
IMR 4831	73.0	3100	61000	IMR 4831	82.5	3150	61000	IMR 4831	66.8	2550	60000	IMR 3031	57.0c	2100	35000
IMR 7828	79.3	3110	60000	IMR 7828	89.0	3200	61000	IMR 7828	71.5c	2590	59000				
<b>300 WINCHESTER MAG</b>				<b>300 REM ULTRA MAG</b>				<b>338 REM ULTRA MAG</b>				<b>450 MARLIN</b>			
WIN. CASE; FED. 215 PR SIERRA 165 GR. HPBT .308" DIA.; 24" BBL.; 3.330" C.O.L.				REM. CASE; FED. 215 PR SWIFT 165 GR. A-FRAME .308" DIA.; 24" BBL.; 3.550" C.O.L.				REM. CASE; FED. 215 PR NOSLER 200 GR. BALLISTIC TIP .338" DIA.; 24" BBL.; 3.600" C.O.L.				HORNADY CASE; FED. 210 PR HORNADY 350 GR. FP .458" DIA.; 24" BBL.; 2.550" C.O.L.			
IMR 4350	70.5	3080	59000	IMR 4350	83.0	3250	62000	IMR 4350	85.6	3150	62000	IMR 4198	45.0	2050	40000
IMR 4831	73.2	3100	61000	IMR 4831	85.5	3240	62000	IMR 4831	88.7	3160	62000	IMR 3031	56.0c	2030	38000
IMR 7828	78.8	3110	60000	IMR 7828	91.2	3260	60000	IMR 7828	94.2	3180	62000				
<b>300 WINCHESTER MAG</b>				<b>300 REM ULTRA MAG</b>				<b>338 REM ULTRA MAG</b>				<b>450 MARLIN</b>			
WIN. CASE; FED. 215 PR NOSLER 180 GR. PARTITION .308" DIA.; 24" BBL.; 3.330" C.O.L.				REM. CASE; FED. 215 PR SWIFT 180 GR. A-FRAME .308" DIA.; 24" BBL.; 3.565" C.O.L.				REM. CASE; FED. 215 PR NOSLER 200 GR. BALLISTIC TIP .338" DIA.; 24" BBL.; 3.600" C.O.L.				HORNADY CASE; FED. 210 PR BARNES 400 GR. FN .458" DIA.; 24" BBL.; 2.512" C.O.L.			
IMR 4350	69.0	2970	61000	IMR 4350	81.2	3120	62000	IMR 4350	85.6	3150	62000	IMR 4198	40.0	1820	40000
IMR 4831	71.5	2950	59000	IMR 4831	82.8	3090	61000	IMR 4831	88.7	3160	62000	IMR 3031	50.8c	1860	40000
IMR 7828	77.0c	2930	56000	IMR 7828	89.0	3140	61000	IMR 7828	94.2	3180	62000				

\*Note - These loads must not be used in any trapdoor single shot rifle.

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