

GES • RIFLE CARTRIDGE
SHOT SHELLS • PISTOL CARTRIDGES • RIFLE CARTRIDGES
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LYMAN

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HANDBOOK

NO. 40

RELOAD YOUR OWN
AMMUNITION

RELOADING DATA and INFORMATION

POWDER LISTINGS: All readily available powders are listed for each cartridge. However, only those which are appropriate for use with that cartridge have charges listed under them. Further information about each of the powders is given in Section One of this handbook.

BULLET LISTINGS: In the extreme left hand column of each chart are listed the cast and jacketed bullets which should be used with the cartridge listed. The cast bullet designs are also illustrated. It is impossible to list data for all of the many different bullet weights for each cartridge. Where no specific data is listed for a particular bullet weight, we suggest using the data for the next heavier bullet as a starting point in developing a load.

POWDER CHARGES: Under appropriate powder headings are given the grains weight of powder which is recommended for the bullet listed in the left hand column. In most cases both a maximum (max.), and a suggested (sug.) grain weight (grs.) load are given. We recommend that these charges be accepted as reliable starting points from which one or more "best" loads can be developed for your particular gun by experimenting with charges slightly lighter or heavier than those given. It is very handy to use the blank squares in the chart for recording experimental loads for permanent record.

VELOCITY LISTINGS: Velocities in feet per second are listed both for maximum loads (max. vel.), and for suggested loads (sug. vel.). In some cases these listings are estimated and therefore, are not necessarily correct to the last foot. However, they are close enough to make satisfactory calculations of any ordinary type.

RIFLE DATA: Begins on page 43.

PISTOL DATA: Begins on page 82.

UNDERSIZE BULLET MOULDS AVAILABLE

Approximately two-thousandths undersize

U224450
U225438
U225415
U257418
U257388
U257312
U280412
U280468-Short
U280468-Long
U285346
U31118

U311467
U311316
U308334
U311359
U308329
U308291
U311299
U308278
U308241
U311413 E.S.
(Extra Small)

U311413
U311466
U308284
U321297
U356402
U357446
U357445
U356406
U358432
U358429
U358311

U360271-Short
U358242
U358246
U358250
U375449
U42498
U429215
U452460
U452374
U454190
U457124

RIFLE CARTRIDGES,

.218 Bee



Length, case with bullet: 1.680" Diameter of rim: .408" Diameter at shoulder: .331"
Length, case only: 1.345" Diameter at base: .349" Diameter at neck: .240"

	Powder:	2400	4227	4759	4198	Hi-Vel	4895	3031	4064	4320	4350	Unique
43 Grain Cast Gas Check	max. grs.	12.5	13.0	11.0	14.0							4.0
	max. vel.	2900	2850	2590	2480							1450
	sug. grs.	10.0	11.0	9.0	12.0							
	sug. vel.	2400	2375	2200	2000							
47.5 Grain Cast Gas Check	max. grs.	12.5	12.5	11.0	14.0							
	max. vel.	2830	2700	2450	2525							
	sug. grs.	10.5	11.0	9.5	12.0							
	sug. vel.	2475	2435	2380	2040							
48 Grain Cast Gas Check	max. grs.	12.5	12.5	11.0	14.0							
	max. vel.	2830	2700	2450	2525							
	sug. grs.	10.5	11.0	9.5	12.0							
	sug. vel.	2475	2435	2380	2040							
55 Grain Cast Gas Check	max. grs.	11.5	12.0	11.0	14.0							
	max. vel.	2640	2600	2460	2630							
	sug. grs.	10.0	11.0	9.5	12.0							
	sug. vel.	2380	2325	2350	2150							
40 Grain Jacketed	max. grs.	12.0	13.0	12.5	14.5							
	max. vel.	2900	2910	2785	2800							
	sug. grs.	11.0	12.0	11.0	14.0							
	sug. vel.	2790	2760	2550	2720							
45 Grain Jacketed	max. grs.	11.5	12.5	12.0	14.5							
	max. vel.	2850	2855	2700	2750							
	sug. grs.	10.5	11.5	10.5	14.0							
	sug. vel.	2665	2615	2435	2675							
50 Grain Jacketed	max. grs.	11.0	12.0	11.5	14.0							
	max. vel.	2630	2635	2620	2690							
	sug. grs.	10.5	11.0	10.5	13.5							
	sug. vel.	2585	2500	2490	2550							
55 Grain Jacketed	max. grs.			11.0	13.5	15.5	15.5	15.5				
	max. vel.			2520	2470	2380	2375					
	sug. grs.			9.0	12.5	15.0	15.0	15.0				
	sug. vel.			2400	2325	2360	2290	2220				

	Powder:	2400	4227	4759	4198	Hi-Vel	4895	3031	4064	4320	4350	Unique Pistol
50 Grain Jacketed	max. grs.				28.0		33.0	33.0	33.0	34.0		
	max. vel.				3360		3875	4080	3990	3906		
	sug. grs.				28.0		29.0	29.0	30.0	31.0		
	sug. vel.				3360		3175	3210	3190	3100		
55 Grain Jacketed	max. grs.						33.0	32.0	32.0	33.0		
	max. vel.						3840	3815	3710	3880		
	sug. grs.						29.0	30.0	30.0			
	sug. vel.						3300	3410	3310	3250		
60 Grain Jacketed	max. grs.						32.0					
	max. vel.						3660					
	sug. grs.											
	sug. vel.											

.22 Hornet

Length, case with bullet: 1.72"

Diameter of rim: .347"

Diameter at shoulder: .274"

Length, case only: 1.40"

Diameter at base: .294"

Diameter at shoulder: .274"

	Powder:	2400	4227	4759	4198	Hi-Vel	4895	3031	4064	4320	4350	Unique Pistol
43 Grain Cast Gas Check	max. grs.	11.0	11.5	8.6								3.5
	max. vel.	2700	2695	2000								1400
	sug. grs.	10.0	10.5	8.0								
	sug. vel.	2460	2450	1850								
47.5 Grain Cast Gas Check	max. grs.	10.5	11.0	8.2								3.5
	max. vel.	2610	2530	1930								1380
	sug. grs.	9.5	10.0	7.0								
	sug. vel.	2380	2350	1800								
48 Grain Cast Gas Check	max. grs.	10.0	10.5	8.8								3.5
	max. vel.	2520	2410	1900								1380
	sug. grs.	9.0	9.5	7.8								
	sug. vel.	2335	2245	1800								
55 Grain Cast Gas Check	max. grs.	9.0	10.0	8.2								4.3
	max. vel.	2390	2380	1790								1575
	sug. grs.	8.0	9.0	7.0								3.0
	sug. vel.	2230	2220	1350								1000
35 Grain Jacketed	max. grs.	11.6	11.0	8.2								
	max. vel.	3820	2860	2200								
	sug. grs.	8.0	9.0	7.0								
	sug. vel.	2500	2475	2000								
40 Grain Jacketed	max. grs.	10.5	11.0	8.2								
	max. vel.	2775	2665	1975								
	sug. grs.	8.5	9.5	7.7								
	sug. vel.	2520	2410	1825								
45 Grain Jacketed	max. grs.	10.0	11.0	8.2								
	max. vel.	2675	2560	1900								
	sug. grs.	8.0	10.0	7.5								
	sug. vel.	2380	2300	1620								

	Powder:	2400	4227	4759	4198	Hi-Vel	4895	3031	4064	4320	4350	Unique
55 Grain Jacketed	max. grs.	9.0	10.0	8.2								
	max. vel.	2390	2375	1940								
	sug. grs.	7.0	8.0	7.0								
	sug. vel.	2010	1875	1400								

.22 Hornet

Powder: 2400 4227 4759 4198 Hi-Vel 4895 3031 4064 4320 4350 Unique

Note: Use any Cast Bullet loads listed for Standard Hornet cartridges.

40 Grain Jacketed	max. grs.	12.0	12.5									
	max. vel.	3311	3185									
	sug. grs.	11.0	11.5									
	sug. vel.	3080	3040									
45 Grain Jacketed	max. grs.	11.5	12.0									
	max. vel.	3000	2972									
	sug. grs.	10.0	11.0									
	sug. vel.	2800	2844									
50 Grain Jacketed	max. grs.		10.5		12.0							
	max. vel.		2500		2600							
	sug. grs.		10.0		12.0							
	sug. vel.		2400		2600							

.22/250 Varminter

Length, case with bullet: Optional

Diameter of rim: .470"

Diameter at shoulder: .405"

Length, case only: 1.90"

Diameter at base: .469"

Diameter at neck: .260"

	Powder:	2400	4227	4759	4198	Hi-Vel	4895	3031	4064	4320	4350	Unique
43 Grain Cast Gas Check	max. grs.											
	max. vel.											
	sug. grs.	10.5	8.5	9.0	12.0							
	sug. vel.	1900	1800	1700	1650							
47.5 and 48 Grain Cast Gas Check	max. grs.											
	max. vel.											
	sug. grs.	11.7	9.5	12.0	15.4							8.0
	sug. vel.	1900	1800	2000	1900							2200
55 Grain Cast Gas Check	max. grs.											
	max. vel.											
	sug. grs.	13.4	10.9	13.7	17.6							
	sug. vel.	1900	1800	2000	1900							
45 Grain Jacketed	max. grs.						36.0	37.0				
	max. vel.						3975	4065				
	sug. grs.			18.0	22.0		35.0	35.0	33.0	32.0		
	sug. vel.			2970	3200		3850	3840	3200	3800		

	Powder:	2400	4227	4759	4198	Hi-Vel	4895	3031	4064	4320	4350	Unique Pistol
50 Grain Jacketed	max. grs.						34.0	35.0	38.0	39.0		
	max. vel.						3800	3980	4000	4170		
	sug. grs.			18.0	23.0		33.0	27.5	36.0	35.0		
	sug. vel.			2675	3380		3700	3320	3790	3720		
55 Grain Jacketed	max. grs.						32.0	33.0	37.0	38.0		
	max. vel.						3700	3800	3800	3975		
	sug. grs.			18.0	23.5		31.0	30.0	35.0	36.0		
	sug. vel.			2651	3300		3600	3450	3600	3800		

.22 Lovell 2R

Length, case with bullet: 2.09" Diameter of rim: .376" Diameter at shoulder: .293"
 Length, case only: 1.62" Diameter at base: .314" Diameter at neck: .245"

	Powder:	2400	4227	4759	4198	Hi-Vel	4895	3031	4064	4320	4350	Unique Pistol
43 Grain Cast Gas Check	max. grs.	11.8	10.0	10.3								
	max. vel.	2350	2350	2380								
	sug. grs.	10.0	8.0	8.0								3.0
	sug. vel.	1950	1750	1850								1300
47.5 and 48 Grain Cast Gas Check	max. grs.	12.2	11.0	11.5								
	max. vel.	2300	2400	2450								
	sug. grs.	10.0	9.0	8.5								
	sug. vel.	1875	2000	1900								
55 Grain Cast Gas Check	max. grs.	14.0	14.5	12.3	16.0							
	max. vel.	2300	2300	2300	2400							
	sug. grs.	11.0	12.0	12.0	14.0							
	sug. vel.	1870	1900	2150	2100							
40 Grain Jacketed	max. grs.	14.0	16.0		17.0							
	max. vel.	3100	3400		3300							
	sug. grs.	12.0	13.0		14.0							
	sug. vel.	2650	2760		2700							
45 Grain Jacketed	max. grs.	13.5	15.5		16.8							
	max. vel.	3000	3225		3100							
	sug. grs.	11.0	12.4	12.5	14.0							
	sug. vel.	2450	2660	2600	2750							
50 Grain Jacketed	max. grs.	13.2	15.0		16.5							
	max. vel.	2850	3103		2950							
	sug. grs.	11.0	13.0	12.5	14.0							
	sug. vel.	2370	2685	2485	2675							
55 Grain Jacketed	max. grs.	13.0	14.5		16.0	14.0						
	max. vel.	2800	2900		2875	2800						
	sug. grs.	11.0	12.5		14.0	13.0						
	sug. vel.	2600	2700		2600	2600						

The following was taken from sheets sent us by
 The A. W. Peterson Gun Shop, Route 1, Mt. Dora, Florida.

"Below is a list of obsolete cartridges that you can make ammo for by reforming available brass.

.22 WCF	.40-60 Maynard	.40-90-370 Sharps Straight
.32 Ideal	.40-70 Maynard	.43 Spanish
.32-40 Bullard	.40-70 Sharps Necked	.44 Evans New Model
.32-40 Remington	.40-70 Sharps Straight	.44-60 Sharps Necked
.35 WCF	.40-50-265 Sharps Necked	.44-60 Maynard Model 1882
.38-40 Remington	.40-60 Win.	.44-70 Maynard " "
.38-50 Maynard	.40-60 Marlin	.44-77
.38-50 Remington	.40-65 Win.	.45-60 Win.
.38-56 WCF	.40-70 Win.	.45-75 Win.
.38-70 WCF	.40-72 Winchester	.45-75 Sharps
.38-72 WCF	.40-82 Win.	.45-85 Bullard
.40-45 Sharps Straight	.40-70 Ballard	.45-90-500 Sharps Straight
.40-40 Maynard	.40-90 Ballard	.50-100-450
	.40-90 Sharps Necked	.50-110 Win. Express

You can see that securing ammo for your rifle is not hopeless after all. The cartridge cases that you must use to reform are mostly of the following calibers: .30-40, .303 British, .348, .405 WCF, .45-70, 11.7mm Dane and 9.3 x74R m/m."

If interested in this subject, we recommend Mr. Peterson's new book from which this data was taken. It is published by Samworth, and titled *Single Shot Conversions*.

.22 Savage Hi-Power

Length, case with bullet: 2.505" Diameter of rim: .500" Diameter at shoulder: .360"
 Length, case only: 2.050" Diameter at base: .416" Diameter at neck: .252"

	Powder:	2400	4227	4759	4198	Hi-Vel	4895	3031	4064	4320	4350	Unique
60 Grain Cast Gas Check	max. grs.											
	max. vel.											
	sug. grs.	12.0	13.0	13.0	15.0		17.4	17.4				6.5
	sug. vel.	1950	1950	2000	2300		2000	2000				1650
40 Grain Jacketed	max. grs.	18.0										
	max. vel.	3149										
	sug. grs.	13.0										
	sug. vel.	2780										
45 Grain Jacketed	max. grs.	17.0										
	max. vel.	3100										
	sug. grs.	13.0										
	sug. vel.	2480										
55 Grain Jacketed	max. grs.	16.8			24.0	28.5	29.5					
	max. vel.	2750			2794	3100	3200					
	sug. grs.	15.5			22.0	25.0	25.0					
	sug. vel.	2634			2560	2800	2859					
70 Grain Jacketed	max. grs.	16.2			21.0	24.0	26.0	27.0		30.0		10.7
	max. vel.	2600			2705	2900	2690	2990		2930		2270
	sug. grs.	15.0			15.0	22.0	25.0	24.0		24.0	30.0	7.0
	sug. vel.	2485			1990	2658	2575	2660		2450	2750	1620

Note: MAX. Load for #4895-3031. 4320 for Bolt action only. Reduce 2 grain for Lever action.

**Load all your cases
with one Powder Funnel!**

This transparent Powder Funnel is designed to fill cases ranging from .22 Hornet through the .45-70. No inserts and no adjustments with this one full-range funnel. Fine when using a powder scale. Ideal No. 55 Powder Measure has a built-in funnel drop tube for this purpose.



.220 Swift



Length, case with bullet: 2.68"	Diameter of rim .472"	Diameter at shoulder: .392"
Length, case only: 2.20"	Diameter at base: .443"	Diameter at neck: .260"

Powder:	2400	4227	4759	4198	Hi-Vel	4895	3031	4064	4320	4350	Unique
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[illegible] **Swift**

Powder:	2400	4227	4759	4198	Hi-Vel	4895	3031	4064	4320	4350	Unique
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Note: Use same loads and cast bullets as .220 Swift.

50 Grain Jacketed	max. grs.					42.0		41.0	
	max. vel.					4335		4150	
	sug. grs.								
	sug. vel.								
55 Grain Jacketed	max. grs.					40.0		41.0	
	max. vel.					4000		4045	
	sug. grs.								
	sug. vel.								

.222 Remington



Length, case with bullet: 2.15"	Diameter of rim: .375"	Diameter at shoulder: .355"
Length, case only: 1.70"	Diameter at base: .375"	Diameter at neck: .248"

Powder:	2400	4227	4759	4198	Hi-Vel	4895	3031	4064	4320	4350	Unique
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[illegible]

Note: #2400 Canister Powder not adapted to this cartridge — especially MAX. loads with Jacketed Bullets.

K-.222 Remington

Powder: 2400 4227 4759 4198 Hi-Vel 4895 3031 4064 4320 4350 Unique

Note: Same Cast Bullet loads as .222 Remington.

45 Grain Jacketed	max. grs.	19.0	22.0							
	max. vel.	3416	3420							
	sug. grs.	18.0	20.0							
	sug. vel.	3310	3040							
50 Grain Jacketed	max. grs.	19.0	22.5	24.0	24.0	26.0				
	max. vel.	3275	3451	3410	3410	3300				
	sug. grs.	18.0	20.5	22.5	22.5	25.0				
	sug. vel.	3170	3210	3068	3068	3140				
55 Grain	max. grs.				24.0	25.5				
	max. vel.				3209	2960				
	sug. grs.				22.0	24.5				
	sug. vel.				3010	2870				

.25-20 W. C. F.

Length, case with bullet: 1.60" Diameter of rim: .405" Diameter at shoulder: .329"
 Length, case only: 1.35" Diameter at base: .344" Diameter at neck: .274"

Powder: 2400 4227 4759 4198 Hi-Vel 4895 3031 4064 4320 4350 Unique

65 Grain Cast Gas Check	max. grs.	12.0								
	max. vel.	2100								
	sug. grs.	8.0	9.0	9.0						4.5
	sug. vel.	1620	1700	1560						1500
85 Grain Cast Plain Base	max. grs.		10.0	10.0						
	max. vel.		1745	1770						
	sug. grs.	8.0	8.6	6.3						5.0
	sug. vel.	1575	1500	1307						1300
85 Grain Cast Gas Check	max. grs.	9.2	10.7	10.0						
	max. vel.	1765	1750	1750						
	sug. grs.	8.0	8.7	9.0						
	sug. vel.	1575	1410	1450						
60 Grain Jacketed	max. grs.	11.5	12.7	8.6						
	max. vel.	2200	2195	2000						
	sug. grs.	9.0	9.7							4.9
	sug. vel.	1765	1785							1355
86 and 87 Grain Jacketed	max. grs.	9.5	10.7	10.0						
	max. vel.	1740	1745	1620						
	sug. grs.	8.0	8.7	7.5						5.5
	sug. vel.	1475	1410	1425						1795



257420



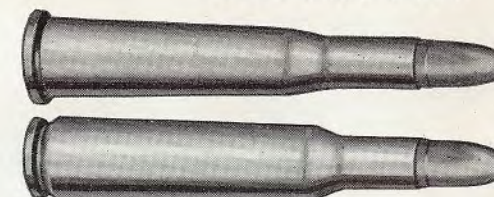
257283



257312

.25-35 W. C. F.

and

Rem. Rimless

Length, case with bullet: 2.53"

Diameter of rim: .500"

Diameter at shoulder: .355"

Length, case only: 2.04"

Diameter at base: .420"

Diameter at neck: .280"

Powder: 2400 4227 4759 4198 Hi-Vel 4895 3031 4064 4320 4350 Unique

88 Grain Cast Plain Base	max. grs.	11.0	11.0	10.0						
	max. vel.	1650	1600	1500						
	sug. grs.	10.0	10.0	8.0						7.0
	sug. vel.	1500	1450	1375						1660
111 Grain Cast Plain Base	max. grs.	10.0	10.0	10.0						
	max. vel.	1530	1500	1500						
	sug. grs.	7.0	8.0	9.3						
	sug. vel.	1160	1200	1425						
111 Grain Cast Gas Check	max. grs.	14.8			22.0					8.3
	max. vel.	2045			2240					1630
	sug. grs.	13.4	10.0		15.5	18.0				5.0
	sug. vel.	1920	1500		1800	1880				1170
87 Grain Jacketed	max. grs.				21.5	26.5	29.0	30.0	32.0	
	max. vel.				2560	2700	2700	2795	2730	
	sug. grs.				19.0	24.5	25.0	25.0	27.0	
	sug. vel.				2260	2450	2275	2310	2370	
100 Grain Jacketed	max. grs.				21.0	25.0	26.0	27.0	29.0	
	max. vel.				2365	2450	2400	2450	2465	
	sug. grs.				18.0	22.0	22.0	23.0	24.0	
	sug. vel.				2110	2156	2000	2060	2100	
117 Grain Jacketed	max. grs.				20.5	22.1	25.5	26.5	28.0	
	max. vel.				2210	2100	2300	2350	2295	
	sug. grs.				17.5	18.0	20.0	21.0	23.0	
	sug. vel.				1930	1740	1900	1930	1950	



257231



257231



257325

.250/3000 Savage

Length, case with bullet: 2.515"

Diameter of rim: .470"

Diameter at shoulder: .405"

Length, case only: 1.91"

Diameter at base: .468"

Diameter at neck: .286"

Powder: 2400 4227 4759 4198 Hi-Vel 4895 3031 4064 4320 4350 Unique

65 Grain Cast Gas Check	max. grs.	16.0								10.0
	max. vel.	2400								2000
	sug. grs.	13.0								8.0
	sug. vel.	2000								1680



257420

Powder: 2400 4227 4759 4198 Hi-Vel 4895 3031 4064 4320 4350 Unique

118 Grain Cast Gas Check	max. grs.								
	max. vel.								
	sug. grs.			20.0					
	sug. vel.			1800				266455	
145 Grain Cast Gas Check	max. grs.			25.0					
	max. vel.			2150					
	sug. grs.			20.0					
	sug. vel.			1721				266469	
120 Grain Jacketed	max. grs.								
	max. vel.								
	sug. grs.			31.0	35.5			36.0	
	sug. vel.			2500	2800			2800	
129 Grain Jacketed	max. grs.								
	max. vel.								
	sug. grs.			35.0					
	sug. vel.			2625					
156 Grain Jacketed	max. grs.								
	max. vel.								
	sug. grs.				33.0			37.5	
	sug. vel.				2400			2550	
162 Grain Jacketed	max. grs.								
	max. vel.								
	sug. grs.			29.2				37.0	
	sug. vel.			2100				2500	

Note: Cases made from .35 Rem. brass using Ideal Full Length Die — Dimensions will differ from original Jap case.

6.5 M/M X .257 Jap.

(Use cast bullets and loads listed for 6.5 m/m Jap.)

Length, case with bullet: Optional Diameter of rim: .470" Diameter at shoulder: .431"
Length, case only: 2.23" Diameter at base: .468" Diameter at neck: .294"

Powder:	2400	4227	4759	4198	Hi-Vel	4895	3031	4064	4320	4350	Unique
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100 Grain Jacketed	max. grs.						38.5	38.5	41.0	41.5	46.0	
	max. vel.						2920	2920	2950	2950	3000	
	sug. grs.						36.5	36.5	36.5	36.5	40.0	
	sug. vel.						2775	2775	2690	2635	2780	
120 Grain Jacketed	max. grs.										45.5	
	max. vel.										3050	
	sug. grs.							37.5	40.0		41.0	
	sug. vel.							2900	2850		2750	
140 Grain Jacketed	max. grs.											
	max. vel.											
	sug. grs.								39			
	sug. vel.								2480			

Powder:	2400	4227	4759	4198	Hi-Vel	4895	3031	4064	4320	4350	Unique
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max. grs.									
max. vei.									
sug. grs.						38.0	38.5		
sug. vel.						2700	2650		

6.5 M/M Mannlicher- Schoenauer



Length, case with bullet: 3.02"

Diameter of rim: .450"

Diameter at shoulder: .425"

Length, case only: 2.09"

Diameter at base: .447"

Diameter at neck: .287"

Powder:	2400	4227	4759	4198	Hi-Vel	4895	3031	4064	4320	4350	Unique
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Powder: 2400 4227 4759 4198 Hi-Vel 4895 3031 4064 4320 4350 Unique

160 Grain Jacketed	max. grs.									37.0	
	max. vel.									2260	
	sug. grs.				32.7					32.0	
	sug. vel.				2177					1990	
162 Grain Jacketed	max. grs.									38.5	
	max. vel.									2600	
	sug. grs.										
	sug. vel.										

.270 Winchester

Length, case with bullet: 3.35" Diameter of rim: .470" Diameter at shoulder: .441"
 Length, case only: 2.54" Diameter at base: .468" Diameter at neck: .308"

Powder: 2400 4227 4759 4198 Hi-Vel 4895 3031 4064 4320 4350 Unique

107 Grain Cast Gas Check	max. grs.										
	max. vel.										
	sug. grs.	13.0	15.0	16.0	19.0		24.0	24.0			
	sug. vel.	1500	1600	1767	1750		2085	2085			
123 Grain Cast Gas Check	max. grs.						30.0	30.0			
	max. vel.						2360	2367			
	sug. grs.			16.0	18.0		25.0	24.0			
	sug. vel.			1750	1545		1850	1814			
138 Grain Cast Gas Check	max. grs.			21.0			30.0	30.0			
	max. vel.			2050			2050	2110			
	sug. grs.	13.5		16.0			25.0	25.0			
	sug. vel.	1445		1575			1700	1758			
100 Grain Jacketed	max. grs.					50.0	50.0	54.0	54.0		
	max. vel.					3250	3250	3250	3280		
	sug. grs.										
	sug. vel.										
130 Grain Jacketed	max. grs.				47.8	48.0	48.0	49.5	52.0	57.0	
	max. vel.				3020	3051	3051	3090	3110	3141	
	sug. grs.				36.0	45.0	45.0	46.0	42.0		
	sug. vel.				2310	2825	2860	2850	2645		
140 Grain Jacketed	max. grs.							51.5	56.0		
	max. vel.							3100	3050		
	sug. grs.										
	sug. vel.										
150 Grain Jacketed	max. grs.								52.5		
	max. vel.								2850		
	sug. grs.										
	sug. vel.										

Powder: 2400 4227 4759 4198 Hi-Vel 4895 3031 4064 4320 4350 Unique

160 Grain Jacketed	max. grs.										52.0
	max. vel.										2800
	sug. grs.										
	sug. vel.										

7 M/M Mauser (7 x 57)

Length, case with bullet: 3.00" Diameter of rim: .474" Diameter at shoulder: .420"
 Length, case only: 2.235" Diameter at base: .471" Diameter at neck: .320"

Powder: 2400 4227 4759 4198 Hi-Vel 4895 3031 4064 4320 4350 Unique

84 Grain Cast Plain Base	max. grs.										
	max. vel.										
	sug. grs.			6.0							
	sug. vel.			1200							
120 Grain Cast Plain Base	max. grs.										
	max. vel.										
	sug. grs.	14.0		10.0	17.5						
	sug. vel.	1700		1300	1700						
125 Grain Cast Gas Check	max. grs.										
	max. vel.										
	sug. grs.	15.0	14.5		17.5						
	sug. vel.	1700	1700		1700						
138 Grain Cast Gas Check	max. grs.										
	max. vel.										
	sug. grs.	19.0		16.6		30.0					
	sug. vel.	1800		1775		2185					
105 Grain Jacketed	max. grs.								50.0		
	max. vel.								3280		
	sug. grs.								46.0		
	sug. vel.								2988		
139 Grain Jacketed	max. grs.					42.0	41.5	42.5	46.0	46.0	
	max. vel.					2840	2820	2920	3000	3015	
	sug. grs.					31.0	37.0	37.0	40.0	39.0	
	sug. vel.					2160	2600	2590	2625	2600	
160 Grain Jacketed	max. grs.									49.0	
	max. vel.									2725	
	sug. grs.										
	sug. vel.										
175 Grain Jacketed	max. grs.					39.0	40.0	42.0	42.0	47.5	
	max. vel.					2475	2530	2575	2580	2550	
	sug. grs.					37.0	37.0	36.0	35.0		
	sug. vel.					2350	2350	2255	2230		

Note: MAX. loads must be reduced at least 2. grain when used in Spanish Mauser Model 1893.

**.300
H. & H.
Mag.**



Length, case with bullet: 3.60"	Diameter of rim: .532"	Diameter at shoulder: .430"
Length, case only: 2.85"	Diameter at base: .513"	Diameter at neck: .338"

Powder: 2400 4227 4759 4198 Hi-Vel 4895 3031 4064 4320 4350 Unique

125 Grain Cast Gas Check	max. grs.						 311465		
	max. vel.								
	sug. grs.	25.0		19.0	25.0				
	sug. vel.	1900		1400	2050				
153 Grain Cast Gas Check	max. grs.						 311466		
	max. vel.								
	sug. grs.			23.0	25.0			25.0	21.0
	sug. vel.			1800	1990			1700	2070
169 Grain Cast Gas Check	max. grs.						 311413		
	max. vel.								
	sug. grs.			23.0	25.0			35.0	
	sug. vel.			1700	1802			2000	
180 Grain Cast Gas Check	max. grs.						 311467		
	max. vel.								
	sug. grs.			25.0	30.0	35.0		32.0	
	sug. vel.			1700	1650	1800		1800	
207 Grain Cast Gas Check	max. grs.						 308284		
	max. vel.								
	sug. grs.					39.0		38.0	
	sug. vel.					1900		1900	

Note: For better ignition and cleaner burning use for 5 grain of pistol powder with above loads.
Experimentation for accuracy may be necessary.

110 Grain Jacketed	max. grs.			58.0		67.5	68.0
	max. vel.			3600		3600	3650
	sug. grs.			56.0		55.0	
	sug. vel.			3035		3035	
125 Grain Jacketed	max. grs.				62.0		
	max. vel.				3500		
	sug. grs.				60.0		
	sug. vel.				3300		
150 and 153 Grain Jacketed	max. grs.			61.0	59.0		68.0
	max. vel.			3210	2950		3300
	sug. grs.			57.0			67.0
	sug. vel.			3000			3200
173 and 180 Grain Jacketed	max. grs.			56.5		57.5	67.0
	max. vel.			2854		2925	2950
	sug. grs.					45.0	66.0
	sug. vel.					2485	2850

Powder:	2400	4227	4759	4198	Hi-Vel	4895	3031	4064	4320	4350	Unique
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220 Grain Jacketed	max. grs.				56.0			55.6		65.0	
	max. vel.				2625			2635		2700	
	sug. grs.				55.0			44.5			
	sug. vel.				2575			2215			
250 Grain Jacketed	max. grs.							55.5		60.0	
	max. vel.							2550		2417	
	sug. grs.							44.5			
	sug. vel.							2150			

Note: Do not start with MAX. loads as listed but work up to them from 3 or 4 grain under.

7.62 M/M Russian



Length, case with bullet: 3.025"	Diameter of rim: .564"	Diameter at shoulder: .453"
Length, case only: 2.110"	Diameter at base: .484"	Diameter at neck: .332"

Powder:	2400	4227	4759	4198	Hi-Vel	4895	3031	4064	4320	4350	Unique
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Note: Use same cast Bullets and charges as .30-06.

110 Grain Jacketed	max. grs.							50.0	51.0	55.0		
	max. vel.							2975	2800	3050		
	sug. grs.							46.0	48.0	48.0		
	sug. vel.							2715	2585	2700		
150 and 153 Grain Jacketed	max. grs.					43.6		49.0	50.0	52.0		16.0
	max. vel.					2520		2800	2760	2800		1740
	sug. grs.	25.6				36.0	44.0	45.0	47.0	47.0		12.0
	sug. vel.	2100				2100	2500	2550	2525	2515		1400
173 and 180 Grain Jacketed	max. grs.					42.0		45.0	47.0	47.5		
	max. vel.					2250		2450	2490	2600		
	sug. grs.					32.0		40.5	42.0	41.0		
	sug. vel.					1800		2190	2265	2210		
220 Grain Jacketed	max. grs.					39.0		41.0	44.0	44.0	46.0	14.7
	max. vel.					2000		2100	2100	2170	2400	1200
	sug. grs.	23.0				30.0		36.0	39.0	37.0		
	sug. vel.	1615				1500		1900	1915	1895		

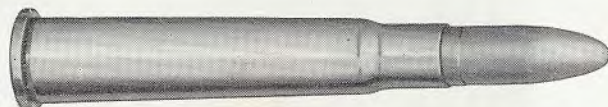
.303 Savage

Length, case with bullet: 2.52" Diameter of rim: .501" Diameter at shoulder: .408"
 Length, case only: 2.00" Diameter at base: .439" Diameter at neck: .334"

Powder: 2400 4227 4759 4198 Hi-Vel 4895 3031 4064 4320 4350 Unique

Note: Use any cast Bullets and charges listed for 30-30 Winchester.

80 Grain Jacketed	max. grs.	27.0			38.0	38.0			15.2
	max. vel.	3000			3100	2500			2590
	sug. grs.	24.4			31.0	33.0			11.0
	sug. vel.	2840			2445	2175			2120
110 Grain Jacketed	max. grs.	22.0			34.0	36.0			
	max. vel.	2350			2540	2330			
	sug. grs.	17.0			26.0	30.0			
	sug. vel.	1940			1990	1940			
150 Grain Jacketed	max. grs.				31.5	31.0			
	max. vel.				2300	2400			
	sug. grs.					29.0			
	sug. vel.					2050			
170 Grain Jacketed	max. grs.					30.0			
	max. vel.					2200			
	sug. grs.					28.0			
	sug. vel.					1940			
180 Grain Jacketed	max. grs.				30.5	32.0			
	max. vel.				2150	2200			
	sug. grs.				25.0	29.0			
	sug. vel.				1950	2000			
190 Grain Jacketed	max. grs.	19.0			27.5	30.0	33.0	36.5	11.3
	max. vel.	1800			2000	2000	2040	2145	1390
	sug. grs.	17.9			20.0	25.0	30.0	32.0	8.0
	sug. vel.	1660			1498	1720	1840	1850	1012

.303 British and Canadian Ross

Length, case with bullet: 3.05" Diameter of rim: .530" Diameter at shoulder: .402"
 Length, case only: 2.21" Diameter at base: .458" Diameter at neck: .337"

Powder: 2400 4227 4759 4198 Hi-Vel 4895 3031 4064 4320 4350 Unique

Note: Use bullets and charges listed for 30/40 Krag. Also Standard Bullet #311299.

80 Grain Jacketed	max. grs.	25.6			43.8	45.5			16.4
	max. vel.	2735			3040	2700			2460
	sug. grs.	21.0			36.0	40.0			12.0
	sug. vel.	2350			2500	2345			2000

Powder: 2400 4227 4759 4198 Hi-Vel 4895 3031 4064 4320 4350 Unique

115 Grain Jacketed	max. grs.	22.7				36.7		43.0		
	max. vel.	2220				2550		2545		
	sug. grs.	17.0				28.0		38.0		
	sug. vel.	1820				1900		2220		
150 Grain Jacketed	max. grs.	23.2				39.0	42.5	42.5		
	max. vel.	2040				2435	2515	2515		
	sug. grs.	21.2				26.0	38.5	38.5		
	sug. vel.	1880				1700	2375	2375		
174 Grain Jacketed	max. grs.					32.7		41.0	41.5	44.0
	max. vel.					2110		2400	2450	2486
	sug. grs.							37.0	38.0	39.0
	sug. vel.							2200	2100	2155
215 Grain Jacketed	max. grs.							40.0	41.0	42.0
	max. vel.							2265	2200	2300
	sug. grs.					30.8		36.0	38.5	39.0
	sug. vel.					1950		2070	2065	2135

7.7 M/M Jap (.31 Cal.)

Length, case with bullet: 3.125" Diameter of rim: .474" Diameter at shoulder: .431"
 Length, case only: 2.281" Diameter at base: .472" Diameter at neck: .338"

Powder: 2400 4227 4759 4198 Hi-Vel 4895 3031 4064 4320 4350 Unique

125 Grain Cast Gas Check	max. grs.									
	max. vel.									
	sug. grs.	18.0		14.0	18.0					
	sug. vel.	1650		1425	1750					
153 Grain Cast Gas Check	max. grs.	24.0			26.0					
	max. vel.	2200			2060					
	sug. grs.	20.0		12.0	21.0		35.0	35.0		
	sug. vel.	1850		1200	1900		2100	2100		
169 Grain Cast Gas Check	max. grs.				26.0					
	max. vel.				1900					
	sug. grs.				18.0	22.0				
	sug. vel.				1650	1700				
180 Grain Cast Gas Check	max. grs.									
	max. vel.									
	sug. grs.				20.0	26.0		23.0	25.0	
	sug. vel.				1700	1800		1700	1800	
207 Grain Cast Gas Check	max. grs.					28.0				
	max. vel.					2000				
	sug. grs.					308284		40.0	40.0	42.0
	sug. vel.							2100	2100	2050

		Powder:	2400	4227	4759	4198	Hi-Vel	4895	3031	4064	4320	4350	Unique
140 Grain Cast Gas Check	max. grs.												
	max. vel.												
	sug. grs.	19.0											
	sug. vel.	1900											
154 Grain Cast Gas Check	max. grs.												
	max. vel.												
	sug. grs.	18.7		10.0	18.0			27.0	28.0			9.0	
	sug. vel.	1800		4759	1650			1800	1850			1300	
165 Grain Cast Gas Check	max. grs.	18.7			30.0	31.4	32.0	33.5			36.5		
	max. vel.	1850			2250	2100	2200	2250			2200		
	sug. grs.	17.3	323470		23.0	30.0	28.0	28.0			32.0	12.0	
	sug. vel.	1700			1850	2000	1800	1875			1950	1600	
181 Grain Cast Gas Check	max. grs.	20.0		17.0				29.0					
	max. vel.	1700		1725				2050					
	sug. grs.							27.0					
	sug. vel.							1750					
110 Grain Jacketed	max. grs.	20.0			36.0	35.4	36.0	37.0			39.0		
	max. vel.	2210			2775	2525	2300	2350			2300		
	sug. grs.	18.4			29.0	29.0	32.0	32.0			35.0	14.0	
	sug. vel.	2080			2350	2100	2000	2050			2140	2060	
165 and 170 Grain Jacketed	max. grs.	18.7			30.0	32.0	32.0	33.5			36.5		
	max. vel.	1785			2210	2120	2100	2330			2180		
	sug. grs.	17.3			23.0	29.0	28.0	28.0			32.0	11.2	
	sug. vel.	1600			1820	2000	1800	1860			1915	1460	

Note: For .32 Remington reduce MAX. charges 1 or 2 grains.

8 M/M/Mauser (7.92 x 57 or 8 x 57)



Length, case with bullet: 3.17" Diameter of rim: .468" Diameter at shoulder: .443"
Length, case only: 2.24" Diameter at base: .468" Diameter at neck: .353"

		Powder:	2400	4227	4759	4198	Hi-Vel	4895	3031	4064	4320	4350	Unique
140 Grain Cast Gas Check	max. grs.	24.0											
	max. vel.	2000											
	sug. grs.	16.0											
	sug. vel.	1500											
165 Grain Cast Gas Check	max. grs.				25.0	33.0							
	max. vel.				1950	1950							
	sug. grs.	18.0		18.0	22.0			25.0				14.0	
	sug. vel.	1600		1700	1750			1700				1650	
176 Grain Cast Gas Check	max. grs.												
	max. vel.												
	sug. grs.				25.0	28.0		28.0					
	sug. vel.				1700	1700		1700					

		Powder:	2400	4227	4759	4198	Hi-Vel	4895	3031	4064	4320	4350	Unique
181 Grain Cast Gas Check	max. grs.				20.0								
	max. vel.				2000								
	sug. grs.	22.4			18.0	23.0		25.0	25.0				
	sug. vel.	1900			1649	1700		1700	1700				
215 Grain Cast Gas Check	max. grs.												
	max. vel.												
	sug. grs.				28.0	30.0		35.0	35.0	40.0			
	sug. vel.				1950	1700		2000	2000	2100			
125 Grain Jacketed	max. grs.							49.0	49.0		53.0		
	max. vel.							2875	2875		2884		
	sug. grs.												
	sug. vel.												
154 Grain Jacketed	max. grs.							48.0	48.0		52.0		
	max. vel.							2776	2776		2830		
	sug. grs.							45.0	45.0		51.0		
	sug. vel.							2665	2660		2777		
170 Grain Jacketed	max. grs.							46.0	47.0		52.0	53.0	
	max. vel.							2600	2726		2689	2450	
	sug. grs.							43.5	44.0				
	sug. vel.							2436	2500				
227 Grain Jacketed	max. grs.							45.0	46.0	48.0	48.0		
	max. vel.							2350	2400	2450	2455		
	sug. grs.							39.0	39.0	44.0	39.0		
	sug. vel.							2125	2125	2240	2100		
236 Grain Jacketed	max. grs.							44.0	45.0	47.0	46.0		
	max. vel.							2300	2350	2375	2350		
	sug. grs.							35.0	34.0	41.0	38.0		
	sug. vel.							1950	1920	2125	1935		

Note: Do not use MAX. Jacketed Loads in 1888 MAUSER.

CAUTION: Use only in recent Rifles in excellent condition with groove diameter not less than .321 inches.

Reduce 2 grain if 30/06 Brass is used.

.33 Winchester



Length, case with bullet: 2.795" Diameter of rim: .610" Diameter at shoulder: .443"
Length, case only: 2.105" Diameter at base: .508" Diameter at neck: .365"

		Powder:	2400	4227	4759	4198	Hi-Vel	4895	3031	4064	4320	4350	Unique
195 Grain Cast Plain Base	max. grs.				17.0								
	max. vel.				1597								
	sug. grs.				12.0							5.0	
	sug. vel.				1161							1100	

		Powder:	2400	4227	4759	4198	Hi-Vel	4895	3031	4064	4320	4350	Unique
195 Grain Cast Gas Check	max. grs.	25.2			32.0	44.0		42.0					16.8
	max. vel.	2100			2200	2455		2300					1885
	sug. grs.	18.0		18.0	24.0	32.0		37.0					11.0
	sug. vel.	1640		1650	1700	1940		2100					1440
200 Grain Jacketed	max. grs.				32.0	43.0	40.0	42.0	44.0	44.5			
	max. vel.				2140	2445	2160	2260	2160	2225			
	sug. grs.	26.4			24.0	35.0	38.0	37.0	41.0	38.0			15.8
	sug. vel.	2115			1640	2000	2000	2050	2010	2000			1585



.348 Winchester



Length, case with bullet: 2.795" Diameter of rim: .610" Diameter at shoulder: .485"
 Length, case only: 2.255" Diameter at base: .553" Diameter at neck: .375"

		Powder:	2400	4227	4759	4198	Hi-Vel	4895	3031	4064	4320	4350	Unique
190 Grain Cast Gas Check	max. grs.				26.0								
	max. vel.				1700								
	sug. grs.				20.0	33.0		42.0	42.0				
	sug. vel.				1400	2000		2150	2150				
150 Grain Jacketed	max. grs.							54.2	58.5	58.0			
	max. vel.							2775	2835	2795			
	sug. grs.							50.0	55.5	54.0			
	sug. vel.							2600	2700	2640			
200 Grain Jacketed	max. grs.						48.0	49.0	53.6	52.0	59.0		
	max. vel.						2400	2450	2535	2470	2359		
	sug. grs.						43.0	43.0	48.5	46.0			
	sug. vel.						2200	2200	2315	2235			
250 Grain Jacketed	max. grs.						47.0		50.0				
	max. vel.						2160		2270				
	sug. vel.										55.0		2221



.35 Remington

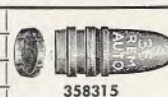


Length, case with bullet: 2.52" Diameter of rim: .457" Diameter at shoulder: 4.19"
 Length, case only: 1.92" Diameter at base: .454" Diameter at neck: .4045"

		Powder:	2400	4227	4759	4198	Hi-Vel	4895	3031	4064	4320	4350	Unique
158 Grain Cast Plain Base	max. grs.	22.0											
	max. vel.	1950											
	sug. grs.	15.0		15.0									10.0
	sug. vel.	1600		1600									1500



		Powder:	2400	4227	4759	4198	Hi-Vel	4895	3031	4064	4320	4350	Unique
200 Grain Cast Gas Check	max. grs.	28.0				32.0		38.0	38.0				
	max. vel.	2150				2050		2100	2100				
	sug. grs.	19.9		22.0	24.0			31.8	31.8				12.3
	sug. vel.	1820		1852	1700			1700	1700				1580
159 Grain Jacketed	max. grs.	30.0				36.0		39.0	40.0				
	max. vel.	2400				2400		2150	2200				
	sug. grs.	26.0				28.0	38.5	37.0	35.0				13.9
	sug. vel.	2196				2050	2358	2000	1970				1870
200 Grain Jacketed	max. grs.	28.0				32.0		38.0	39.0				
	max. vel.	2135				2045		2100	2130				
	sug. grs.	24.0				24.0		34.0	34.0				12.5
	sug. vel.	1910				1700		1800	1870				1530



.35 Winchester



Length, case with bullet: 3.156" Diameter of rim: .539" Diameter at shoulder: .412"
 Length, case only: 2.406" Diameter at base: .457" Diameter at neck: .378"

		Powder:	2400	4227	4759	4198	Hi-Vel	4895	3031	4064	4320	4350	Unique
165 Grain Cast Plain Base	max. grs.												
	max. vel.												
	sug. grs.				13.0								7.0
	sug. vel.				1186								1206
220 Grain Cast Plain Base	max. grs.												
	max. vel.												
	sug. grs.				17.5		30.0						
	sug. vel.				1395		1600						
249 Grain Cast Gas Check	max. grs.				37.0			40.0	42.0	44.0			
	max. vel.				2150			1950	2050	1975			
	sug. grs.	26.4				25.0			34.0				17.7
	sug. vel.	1700				1500			1680				1560
200 Grain Jacketed	max. grs.						48.0		50.0				
	max. vel.						2480		2400				
	sug. grs.	28.3					36.0		45.0				
	sug. vel.	2070					1900		2195				
250 Grain Jacketed	max. grs.					37.0	46.0		49.0	50.0	51.5		
	max. vel.					2105	2300		2320	2190	2250		
	sug. grs.	26.4				30.0	40.0		42.0	44.0	43.0		
	sug. vel.	1740				1825	2000		2025	1940	1920		



Powder: 2400 4227 4759 4198 Hi-Vel 4895 3031 4064 4320 4350 Unique												
140 Grain H. P. Jacketed	max. grs.	33.3										14.4
	max. vel.	2730										2035
	sug. grs.	30.0										12.0
	sug. vel.	2425										1775
200 Grain Jacketed	max. grs.	27.5	29.0	18.0								
	max. vel.	2100	1890	1625								
	sug. grs.	25.4										11.3
	sug. vel.	1870										1520

Note: All above loads for Rifles only. Do not use in Revolver.
Factory high velocity ammunition not to be used in 1873 Win.

.45-70

Length, case with bullet: 2.70" Diameter of rim: .600" Diameter at shoulder: Straight
with 500 grain
Length, case only: 2.10" Diameter at base: .500" Diameter at neck: .475"

Powder: 2400 4227 4759 4198 Hi-Vel 4895 3031 4064 4320 4350 Unique												
144 Grain Cast Plain Base	max. grs.											
	max. vel.											
	sug. grs.											5.0
	sug. vel.											900
210 Grain Cast Plain Base	max. grs.											
	max. vel.											
	sug. grs.											7.0
	sug. vel.											
300 Grain Cast Plain Base	max. grs.	25.0										17.5
	max. vel.	1600										1600
	sug. grs.	20.0	25.0	42.0								
	sug. vel.	1325	1565	1500								
340 Grain Cast Plain Base	max. grs.											18.0
	max. vel.											1500
	sug. grs.	20.0										
	sug. vel.	1300										
405 Grain Cast Gas Check	max. grs.	25.0										15.0
	max. vel.	1465										1545
	sug. grs.	20.0										
	sug. vel.	1175										
300 Grain Jacketed	max. grs.	29.0				*	48.0					
	max. vel.	1825					1675					
	sug. grs.		25.0	42.0								
	sug. vel.		1565	1500								

Powder: 2400 4227 4759 4198 Hi-Vel 4895 3031 4064 4320 4350 Unique												
405 Grain Jacketed	max. grs.	25.0				*	53.0					14.0
	max. vel.	1465					1827					1175
	sug. grs.	20.0		36.0								
	sug. vel.	1175		1417								

Note: Loads marked by * for 1886 Winchester Rifles only. Suggest using Fg Black Powder whenever possible.
Fill case to base of Bullet.
Duplex load of 7 or 8 grains #4759 in bottom of case and fill rest with Black powder to bullet base.
This is accurate and requires no cleaning during shooting period.

.45-90

Length, case with bullet: 2.718" Diameter of rim: .597" Diameter at shoulder: Straight
Length, case only: 2.406" Diameter at base: .501" Diameter at neck: .477"

Powder: 2400 4227 4759 4198 Hi-Vel 4895 3031 4064 4320 4350 Unique												
300 Grain Cast Plain Base	max. grs.	31.5										19.7
	max. vel.	1685										1660
	sug. grs.	26.0	27.4	42.0		50.0	50.0					15.0
	sug. vel.	1440	1539	1600		1550	1600					1370
340 Grain Cast Plain Base	max. grs.	28.0										18.4
	max. vel.	1700										1485
	sug. grs.	25.0	27.4	42.0		50.0	50.0					14.0
	sug. vel.	1500	1357	1400		1365	1410					1285
405 Grain Cast Plain Base	max. grs.	30.0				53.0	53.0					18.2
	max. vel.	1575				1700	1700					1360
	sug. grs.	26.0				50.0	50.0					14.0
	sug. vel.	1410				1600	1600					1140
390 Grain Jacketed	max. grs.	31.5	29.5	*57.0		*62.0	*64.0					19.7
	max. vel.	1685	1618	2215		1975	2040					1660
	sug. grs.	26.0	27.0	42.0		50.0	50.0					15.0
	sug. vel.	1440	1494	1600		1550	1600					1370
495 Grain Jacketed	max. grs.	30.2		*53.0		*58.0	*60.0					18.2
	max. vel.	1595		1980		1875	1950					1360
	sug. grs.	26.0				56.0	59.0					14.0
	sug. vel.	1410				1700	1890					1140

Note: See Footnote for 45-70. Use Duplex load as explained with additional Black Powder to base of bullet.

Use Top Loads marked * in Nickel Steel Barrels only.

PISTOL CARTRIDGES,

7.65 M/M (30 Luger)



	Powder:	Bullseye	No. 6	5066	Unique	2400 Rifle
89 Grain Cast Plain	max. grs.	3.5	3.4	3.5	5.0	
	max. vel.	1150	1025	1000	1300	
	sug. grs.					
	sug. vel.					308244
93 Grain Jacketed	max. grs.	4.0	3.4	4.3	5.0	
	max. vel.	1173	1065	1170	1244	
	sug. grs.					
	sug. vel.					

.32 A.C.P.



	Powder:	Bullseye	No. 6	5066	Unique	2400 Rifle
77 Grain Cast Plain Base	max. grs.	2.2	2.2	2.5	3.3	
	max. vel.	970	965	950	990	
	sug. grs.					
	sug. vel.					308252
71 and 74 Grain Jacketed	max. grs.	2.2	2.1	2.5	3.3	
	max. vel.	925	880	950	975	
	sug. grs.					
	sug. vel.					

.32 S. & W.



	Powder:	Bullseye	No. 6	5066	Unique	2400 Rifle
87 Grain Cast Plain Base	max. grs.	1.4	1.3	1.3	2.0	
	max. vel.	725	710	700	830	
	sug. grs.					
	sug. vel.					313249

.32 S. & W. Long Colt N. P.



	Powder:	Bullseye	No. 6	5066	Unique	2400 Rifle
98 Grain Cast Plain Base	max. grs.	2.7	2.5	2.5	4.3	
	max. vel.	910	840	700	1010	
	sug. grs.					
	sug. vel.					313226

	Powder:	Bullseye	No. 6	5066	Unique	2400 Rifle
100 Grain H.P. Cast Plain Base	max. grs.	2.1	2.4	2.4	4.0	
	max. vel.	745	830	680	980	
	sug. grs.					
	sug. vel.					31133

.32-20 Revolver

	Powder:	Bullseye	No. 6	5066	Unique	2400 Rifle
87 Grain Cast Plain Base	max. grs.	3.6	3.9	4.5	5.8	
	max. vel.	1060	1040	1000	1160	
	sug. grs.					
	sug. vel.					308245
100 Grain H.P. Cast Plain Base	max. grs.	3.4	3.6	4.8	5.5	
	max. vel.	970	970	1000	1065	
	sug. grs.					
	sug. vel.					31133
115 Grain Cast Plain Base	max. grs.	3.1	3.2	4.6	4.5	
	max. vel.	850	805	900	925	
	sug. grs.					
	sug. vel.					3118
80 Grain H.P. Jacketed	max. grs.	4.2	4.2	6.4	5.9	
	max. vel.	1180	1090	1250	1220	
	sug. grs.					
	sug. vel.					
115 Grain Jacketed	max. grs.	3.1	3.2	4.8	4.5	
	max. vel.	850	805	850	925	
	sug. grs.					
	sug. vel.					

.357 S. & W. Mag. Moderate Loads only



Length, case with bullet: 1.616" Diameter of rim: .429" to .436" Diameter at shoulder:

Length, case on y: 1.278" to 1.291" Diameter at base: .375" to .378" Diameter at neck: .373" to .375"

	Powder:	Bullseye	No. 6	5066	Unique	2400 Rifle
148 Grain Cast Hollow Base	max. grs.	4.1	5.0		6.2	12.0
	max. vel.	1050	1185		1265	1340
	sug. grs.	3.0		4.0	4.5	
	sug. vel.	890		1001	1000	
150 Grain Cast Hollow Point Thompson Gas Check	max. grs.	4.0				
	max. vel.	1000				
	sug. grs.				7.0	
	sug. vel.			358156	1297	

	Powder:	Bullseye	No. 6	5066	Unique	2400 Rifle	
156 Grain Cast and 158 Grain Cast Solid Pt. Thompson Gas Check*	max. grs.		3.8	5.3	6.0		
	max. vel.		1025	1092	1210		
	sug. grs.	Note: Also for target					
	sug. vel.	357446	load use 5. gr. Red Dot at 1045 f.s.				358156
160 Grain Cast Hollow Point	max. grs.	4.5	4.0	5.5	6.5		
	max. vel.	1185	1025	1160	1290		
	sug. grs.						
	sug. vel.						358439
173 Grain Cast Plain Base	max. grs.	3.7			5.9		
	max. vel.	965			1165		
	sug. grs.						
	sug. vel.						358429
Note: All loads above are 22,000 to 23,000 lb. class.			*Use 3.9 grs. Bullseye maximum.				

Note: All loads above are 22,000 to 23,000 lb. class.

*Use 3.9 grs. Bullseye maximum.

.357 S. & W. Mag. - High Power Loads

	Powder:	Bullseye	No. 6	5066	Unique	2400 Rifle
150 Grain Hollow Pt. Thompson Gas Check	max. grs.				8.5	16.0
	max. vel.				1506	1617
	sug. grs.					
	sug. vel.	358156	Note: Also 13. gr. #4759 at 1315 vel. Also 15. gr. #4227 at 1401 vel.			
158 Grain Solid Pt. Thompson Gas Check	max. grs.				8.0	15.5
	max. vel.				1398	1538
	sug. grs.					
	sug. vel.	358156				
156 Grain Cast Plain Base	max. grs.				8.5	15.0
	max. vel.				1400	1550
	sug. grs.					
	sug. vel.	357446				
160 Grain Cast Keith Hollow Pt. and Hollow Base	max. grs.				7.0	15.0
	max. vel.				1315	1556
	sug. grs.					
	sug. vel.	358439	358431			

Note: These loads above 25,000 lb. and for use in large Frame Revolvers in good condition only.

9 M/M Luger

	Powder:	Bullseye	No. 6	5066	Unique	2400 Rifle
123 Grain Cast Plain Base	max. grs.					
	max. vel.					
	sug. grs.	4.8	3.4	5.5	6.0	
	sug. vel.	1120	1010	1100	1300	

	Powder:	Bullseye	No. 6	5066	Unique	2400 Rifle
125 Grain Cast Plain Base	max. grs.					
	max. vel.					
	sug. grs.		4.4			
	sug. vel.		1040		358242	

.38 Colt Automatic

	Powder:	Bullseye	No. 6	5066	Unique	2400 Rifle
125 Grain Cast Plain Base	max. grs.	4.7	4.4	4.7	7.0	
	max. vel.	1145	1040	1000	1270	
	sug. grs.	4.0			4.6	
	sug. vel.	1000			915	
130 Grain Jacketed	max. grs.	5.0	4.6	5.0	7.7	
	max. vel.	1275	1080	1050	1310	
	sug. grs.	4.6			4.7	
	sug. vel.	1200			880	

.38 Special Standard Loads

Length, case with bullet: 1.55"

Diameter of rim: .433"

Diameter at shoulder: Straight

Length, case only: 1.16"

Diameter at base: .377"

Diameter at neck: .377"

	Powder:	Bullseye	No. 6		5066	Unique	2400 Rifle	
148 and 150 Grain Cast Hollow and Plain Base	max. grs.	3.5	4.0		5.0	5.0		
	max. vel.	960	960		960	995		
	sug. grs.	2.7	2.8	358395	3.2	3.5	360271-S	
	sug. vel.	765	780		768	720		
155 Grain Wadcutter and 158 Grain Cast Plain Base	max. grs.	3.2	3.8		4.8	5.2		
	max. vel.	865	915		920	1006		
	sug. grs.	2.7	2.8	358432	3.8	4.5	358311	
	sug. vel.	745	745		750	855		
158 Grain Thompson Cast Gas Check	max. grs.	3.3	4.0		4.8	5.2		
	max. vel.	825	900		945	972		
	sug. grs.							358156
	sug. vel.							
160 Grain, Keith Hollow Point or Hollow Base	max. grs.	3.0	3.7		5.0	4.5		
	max. vel.	840	785		950	850		
	sug. grs.			358439			358431	
	sug. vel.							
173 Grain, Keith Cast Plain Base	max. grs.	3.5	4.0		5.0	4.3		
	max. vel.	890	890		890	990		
	sug. grs.							358429
	sug. vel.							

.38 Special High Vel. for Heavy Frame Guns Only

	Powder:	Bullseye	No. 6	5066	Unique	2400 Rifle
150 Grain. Thompson H.P. Gas Check or 150 Grain Wadcutter	max. grs.				6.4	13.5
	max. vel.				1154	1227
	sug. grs.					
	sug. vel.	358156	360344-5			
148 Grain Cast Hollow Base	max. grs.				6.0	13.5
	max. vel.				1285	1380
	sug. grs.					
	sug. vel.	358395				
160 Grain. Keith Hollow Point and Hollow Base	max. grs.					12.0
	max. vel.					1228
	sug. grs.					
	sug. vel.	358439	358431			
158 Grain. Thompson Cast Plain Base	max. grs.					13.5
	max. vel.					1220
	sug. grs.					
	sug. vel.	358156				

.380 A. C. P.

	Powder:	Bullseye	No. 6	5066	Unique	2400 Rifle
107 Grain Cast Plain Base	max. grs.	2.7	3.0	3.3	4.5	
	max. vel.	895	850	910	970	
	sug. grs.					
	sug. vel.					358242*
95 Grain Jacketed	max. grs.	2.9	2.9	3.0	4.8	
	max. vel.	930	900	910	1010	
	sug. grs.					
	sug. vel.					

Note: Bullet #358242 only Ideal bullet suitable for .380 Auto. Order 107 grain 1 band shorter than pictured.
*107 gr. version

.38-40 Revolver

	Powder:	Bullseye	No. 6	5066	Unique	2400 Rifle
158 Grain. H.P. Cast Plain Base #40090	max. grs.	5.9	7.8	8.8	10.0	
	max. vel.	1030	1105	1100	1250	
	sug. grs.					
	sug. vel.					40090H.P.

	Powder:	Bullseye	No. 6	5066	Unique	2400 Rifle
174 Grain Cast Plain Base	max. grs.	5.9	7.0	8.0	10.0	
	max. vel.	980	940	1000	1105	
	sug. grs.	4.0	6.0		7.0	
	sug. vel.	735	800		825	40388
180 Grain Cast Plain Base	max. grs.	5.9	7.0	8.0	10.0	
	max. vel.	980	940	1000	1105	
	sug. grs.	4.0	6.0		7.0	
	sug. vel.	735	800		825	40043
130 Grain Jacketed	max. grs.	7.4	8.0	10.5	12.0	
	max. vel.	1175	1140	1300	1320	
	sug. grs.	5.5	7.0		8.0	
	sug. vel.	930	1060		935	

Note: Cast bullets should be sized .401 diameter.

.41 Colt (long)



	Powder:	Bullseye	No. 6	5066	Unique	2400 Rifle
196 Grain Cast Heel Base	max. grs.	3.0	4.0	4.1	5.0	
	max. vel.	700	800	730	890	
	sug. grs.					
	sug. vel.					386177
200 Grain Cast Hollow Base	max. grs.	3.0	4.0	4.1	5.0	
	max. vel.	700	790	720	880	
	sug. grs.					
	sug. vel.					386178

Note: #386177 — 196 grain Heel Bullet. Bullet and Case diameter about same dimension.

#386178 — 200 grain Hollow Base depend on expansion to fill and seal barrel diameter.

.44 S. & W. Russian

	Powder:	Bullseye	No. 6	5066	Unique	2400 Rifle
175 Grain Cast Plain Base	max. grs.	3.0	5.3	6.0	7.0	
	max. vel.	800	855	1000	1100	
	sug. grs.					
	sug. vel.					429106
205 Grain Cast Plain Base	max. grs.	3.0	5.0	5.4	7.0	
	max. vel.	750	785	700	990	
	sug. grs.					
	sug. vel.					429215
253 Grain Cast Plain Base	max. grs.	3.0	4.2	5.2	6.0	
	max. vel.	630	645	750	800	
	sug. grs.					
	sug. vel.					429251

Note: Other bullets such as #429352 - 429336 - 429421 may also be used with proper charges.

.44 Special

	Powder:	Bullseye	No. 6	5066	Unique	2400 Rifle
173 Grain Cast Wadcutter	max. grs.	6.8	6.8	7.0	10.3	
	max. vel.	1055	880	1087	1170	
	sug. grs.					
	sug. vel.					
231 Grain Gordon Baser Cast Plain Base	max. grs.	5.3	6.3	6.9	8.1	
	max. vel.	875	940	900	1005	
	sug. grs.					
	sug. vel.					
245 Grain Cast Wadcutter	max. grs.	5.1	5.6	6.8	7.8	
	max. vel.	810	785	880	930	
	sug. grs.					
	sug. vel.					
250 Grain. Keith Cast Plain Base	max. grs.	4.9	5.6	6.8	7.8	
	max. vel.	805	785	800	970	
	sug. grs.					
	sug. vel.					

Note: Load marked * for use in heaviest frame guns. Use hard crimp — size bullet not over .001 larger than groove diameter.

.44-40 Revolver

	Powder:	Bullseye	No. 6	5066	Unique	2400 Rifle
175 Grain Cast Plain Base	max. grs.	8.0			11.9	
	max. vel.	1100			1200	
	sug. grs.	6.0			9.0	
	sug. vel.	900			950	
205 Grain Cast Plain Base	max. grs.	6.6			10.9	
	max. vel.	935			1100	
	sug. grs.	5.0			8.0	
	sug. vel.	780			885	
210 Grain Cast Plain Base Standard	max. grs.	6.5	7.2	8.0	10.7	
	max. vel.	930	880	1000	1050	
	sug. grs.	5.0	6.6	7.0	8.0	
	sug. vel.	775	840	875	880	
244 Grain Cast Plain Base	max. grs.	6.3			9.3	
	max. vel.	835			935	
	sug. grs.	5.0			7.0	
	sug. vel.	720			760	
250 Grain Cast Plain Base	max. grs.	6.2			9.1	
	max. vel.	850			940	
	sug. grs.	4.5			7.0	
	sug. vel.	690			780	

Powder: Bullseye No. 6 5066 Unique 2400 Rifle

Note: Some 44 Spec. bullets can be used if seating depth is flexible enough for cylinder function

140 Grain Jacketed	max. grs.	9.0	10.2	10.5	14.0	
	max. vel.	1200	1025	1050	1400	
	sug. grs.	8.0	9.0	9.0	10.0	
	sug. vel.	1130	925	875	1030	

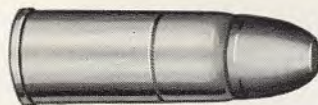
.45 Auto. Rim. Colt New Service Revolver

	Powder:	Bullseye	No. 6	5066	Unique	2400 Rifle
237 Grain Cast Wadcutter	max. grs.	4.4	4.9	4.9	7.0	
	max. vel.	850	905	757	915	
	sug. grs.	4.0	3.9	4.0	6.0	
	sug. vel.	790	785	600	805	
240 Grain. Keith Cast Plain Base	max. grs.	4.5	4.6	4.5	7.0	
	max. vel.	845	860	725	905	
	sug. grs.	4.0	3.6	4.0	6.0	
	sug. vel.	785	735	575	800	
230 Grain Jacketed	max. grs.	4.9	5.1	6.0	7.5	
	max. vel.	821	870	825	880	
	sug. grs.	4.0	4.7	5.4	6.5	
	sug. vel.	690	820	800	760	

Note: Bullet #454424 can also be used with charges for the 240 grain Keith bullet. Also #452374 Rd. Nose Automatic bullet may be used.

.45 A. C. P.

	Powder:	Bullseye	No. 6	5066	Unique	2400 Rifle
200 Grain Cast Wadcutter	max. grs.	4.7	5.1	6.6	7.6	
	max. vel.	900	970	905	980	
	sug. grs.					
	sug. vel.					
230 Grain Cast. Standard Auto. Design	max. grs.	4.5	4.7	5.4	7.2	
	max. vel.	870	880	825	940	
	sug. grs.					
	sug. vel.					
230 Grain Jacketed	max. grs.	4.9	5.1	6.0	7.7	
	max. vel.	821	870	825	880	
	sug. grs.	4.0	4.7	5.4	6.5	
	sug. vel.	690	820	800	760	

.45 Colt

	Powder:	Bullseye	No. 6	5066	Unique	2400 Rifle
180 Grain Cast Hollow Base	max. grs.	7.8	8.0	8.5	11.8	 45468
	max. vel.	1100	1040	1020	1200	
	sug. grs.	6.0	7.0	7.0	9.0	
	sug. vel.	900	945	845	925	
237 Grain Cast Plain Base	max. grs.	6.8	7.2	9.0	10.7	 454309
	max. vel.	950	915	900	1050	
	sug. grs.	5.0	6.3	7.0	8.0	
	sug. vel.	780	785	770	860	
250 Grain, Keith Cast Plain Base	max. grs.	7.7	6.6	8.5	10.3	 454424
	max. vel.	900	900	925	1030	
	sug. grs.	6.7	6.0	7.2	8.0	
	sug. vel.	840	850	825	850	
255 Grain Cast Plain Base Standard	max. grs.	7.0	7.0	7.9	9.7	 454190
	max. vel.	855	855	850	985	
	sug. grs.	5.5	5.5	7.0	7.0	
	sug. vel.	750	750	810	780	
255 Grain Cast Plain Base Standard	max. grs.					
	max. vel.					
	sug. grs.					
	sug. vel.					

Note: Original load — 40 grains ffg. Black Powder.

.455 Colt or S. & W.

	Powder:	Bullseye	No. 6	5066	Unique	2400 Rifle
193 Grain Cast Plain Base # 456401	max. grs.	3.8	4.0	5.5	6.5	 456401
	max. vel.	770	775	785	800	
	sug. grs.			5.0		
	sug. vel.			635		
210 Grain Cast Plain Base #457127	max. grs.	3.5	4.0	5.2	6.2	 457127
	max. vel.	700	700	775	750	
	sug. grs.					
	sug. vel.					
225 Grain Cast Hollow Base	max. grs.	3.2	3.8	4.8	6.0	 457195
	max. vel.	675	675	700	725	
	sug. grs.					
	sug. vel.					
290 Grain Cast Hollow Base	max. grs.	3.0	3.5	4.2	5.0	 457196
	max. vel.	625	625	650	700	
	sug. grs.					
	sug. vel.					

Note: These are estimated loads which are believed to be safe. Other bullets of 45 caliber may be used. Probably as cast, if not over 457 diameter.
For use in Colt & S. & W. as made for Canadian and British Government.

Pet Loads

The loads appearing on the next few pages were taken from questionnaires returned to us by readers of the Ideal Handbook. We are very much indebted to them.

The great number of loads sent in, the large percentage of duplication and the close similarity in many other cases made it impossible to list all loads or to credit each load to any one person.

We hope you may find a favorite load among these favorites sent in by so many of your fellow handloaders.

It goes without saying that all handloaders do not have ranges of the same distance at which to shoot. Therefore, you may find some loads listed with x grains of x powder listed for a greater distance than a smaller weight of the same powder. Also, it must be remembered that the use of bullets of different shapes will give somewhat different results.

Again, our sincerest thanks to all who made this section possible. It is our belief that this marks the beginning of greater cooperation and progress among all handloaders.

218 BEE**Jacketed Bullet .224**

Bullet Wt.	Grains	Powder	Gr.	Yards Tried
41		4198	14	200
45		2400	12	100
45		4227	12.8	175
45		4198	13.	175
45		4198	15.	200
225438 (cast)		2400	5.0	50

22 HORNET**Jacketed Bullet .224**

Bullet Wt.	Grains	Powder	Gr.	Yards Tried
40		2400	9.7	50 V
40		4227	11.0	100
45		2400	7.5	100
45		2400	10.	200
50		4227	7.0	100
45		4227	11.5	200
225438 (cast)		2400	6	100
225438 (cast)		4227	9	100

22 K HORNET

Bullet Wt.	Grains	Powder	Gr.	Yards Tried
45		2400	11.3	150
45		4227	11.5	150
45		4227	12.5	250
45		4198	12	300
50		2400	12.	200
50		4227	13.	200
50		4198	12	400
55		4198	12	500
225438 (cast)		4227	7.2	—

220 SWIFT**Jacketed Bullet .224**

Bullet Wt.	Grains	Powder	Gr.	Yards Tried
40		4350	41	200
50		4759	18	100
50		3031	34.5	200
50		3031	37	400
50		4064	38	200
55		3031	33	—
55		4064	35	300
55		4064	37	500
55		4064	38	300
55		4320	36	300
55		4350	42	250
63		4064	35.5	200
63		4350	39	250

222 REM. CAL.**.224 Jacketed Bullet**

Bullet Wt.	Grains	Powder	Gr.	Yards Tried
41		4198	20.0	200
45		4198	20.0	200
50		4198	19.5	200
50		4198	21.5	200
50		3031	22.0	200
50		3031	23	300 meter
50		3031	25	300
55		4198	20.5	200
55		3031	23	250
55		4064	24	250

Cast Bullets

225462	4227	10.0	100
225450	Unique	5.3	100

CAL. 22/250

Jacketed Bullet dia. 224

Bullet Wt. Grains	Powder	Gr.	Yards Tried
50	4895	30	150
50	3031	34.4	250
50	4064	37	250
50	4320	35	200
50	4320	37.	300
55	4895	36	300
55	3031	31	—
55	3031	33	—
55	4320	36	250
63	4350	38	500
63	4350	40	300

6 m/m CAL. .240 DIA. BULLET

Bullet Wt. Grains	Powder	Gr.	Yards Tried
80	4064	41.	275
6 m/m			
120	4350	61	500
140	4350	38.5	—
140	4350	57	700

250/300 .257

Bullet Wt. Grains	Powder	Gr.	Yards Tried
257312 (cast)	2400	15.5	—
257418 (cast) H.P.	4198	15.	—
257420 (cast)	Bullseye	4.5	—
257463 (cast)	4227	15	75
60	HiVel 2	33.2	250
87	4895	36	250
87	3031	34	350

CAL. 257

Jacketed Bullet 257

Bullet Wt. Grains	Powder	Gr.	Yards Tried
87	2400	7	75
87	3031	39	—
87	4064	37	250
87	4320	43	400
87	4350	45	200 V
87	4350	47	200
87	4350	49	300
100	4895	39	—
100	4064	39	350
100	4320	41	500 V
100	4350	45	200 H
100	4350	47.5	400
117	4064	49	300
117	4350	45	600 H

Cast Bullet

Bullet Wt. Grains	Powder	Gr.	Yards Tried
257231	4198	21	200
257231	3031	20	150
257312	4759	12	75
257388	4895	23	100
257464	2400	13.2	300
257464	#6	4.7	100

6.5 X 257

Jacketed Bullets 263

Bullet Wt. Grains	Powder	Gr.	Yards Tried
87	4198	24	125 (6.5 Jap)
87	4064	43	100
120	HiVel 2	28	100
120	4895	38	100
120	4350	43.5	300
130	4895	37	300 (6.5 Jap)
140	4895	36	200 T
154	3031	32	150 (6.5 Jap)

270 CAL.

.277 Jacketed Bullet

Bullet Wt. Grains	Powder	Gr.	Yards Tried
100	4320	50.	200
100	4320	52.5	300
100	4320	54	400
110	HiVel 2	47.5	200
110	3031	49	200
110	4064	49.5	200
110	4320	53.8	250
120	4320	52	200
130	4895	48.5	300
130	3031	44	200
130	4064	46	300
130	4064	49.5	350
130	4320	49.	200
130	4320	52	400
130	4350	46	200
130	4350	56	300
150	4350	50.0	400
150	4350	54	1000

CAL. 7/m/m

Jacketed Bullet dia. 285

Bullet Wt. Grains	Powder	Gr.	Yards Tried
110	4064	48.	—
125	4227	18.	200
140	4350	49	500
140	4350	46	—
154	4350	50.	500
154	3031	43.0	—

Cast Bullet

Bullet Wt. Grains	Powder	Gr.	Yards Tried
285448	4759	11.0	50
285448	Unique	5.0	50

7.7 JAP

Jacketed Bullets .308 *311

Bullet Wt. Grains	Powder	Gr.	Yards Tried
*115	4198	35	—
145	4350	50	400
150	4320	35	100
311466	4895	30	500
311466	Unique	16	200
308291	4759	18	—

300 SAV. CAL.

Jacketed Bullets .308

Bullet Wt. Grains	Powder	Gr.	Yards Tried
125	HiVel 2	40.0	300 H
150	3031	41.5	300 H
152	4895	30.0	100
180	3031	40	350

30/30 CAL.

Bullet Wt. Grains	Powder	Gr.	Yards Tried
150	3031	34	300
180	4064	40	100
3T1413 (cast)	4759	15.	—

30/30 CAL.

Jacketed Bullet .308

Bullet Wt. Grains	Powder	Gr.	Yards Tried
110	4198	32.5	200
125	3031	35.5	—
150	HiVel 2	31.2	200
150	4895	33.	150
150	4895	35.5	150
160	3031	32.0	200
170	4198	27.	175
180	3031	31	175
180	3031	31.5	200 H

Cast Bullets

Bullet Wt. Grains	Powder	Gr.	Yards Tried
308291	4759	20.0	400H.
308291	4198	15.0	100
308291	4198	23.0	175
308334	3031	28.0	300
311413	4895	15.0	100
311466	2400	18.0	100
311466	HiVel 2	28.5	200
3118	#6	4.4	100

308 WINCHESTER

Jacketed Bullet .308

Bullet Wt. Grains	Powder	Gr.	Yards Tried
125	3031	46.0	—
150	4198	39.5	200
150	4895	46.5	200
150	4320	45	500
180	3031	40.0	—

CAL. 30/06

Jacketed .308 dia. bullets

Bullet Wt. Grains	Powder	Gr.	Yards Tried
110	2400	9	100
110	HiVel 2	48	150
110	4895	51	325
110	4895	55	250
110	3031	54.2	100
110	4320	56	100

CAL. 30/06 (Cont.)

Bullet Wt. Grains	Powder	Gr.	Yards Tried
115	4064	40	200
125	HiVel 2	50	—
125	3031	48	500
125	3031	51.	200
125	4064	50	—
125	4320	55	400
125	4350	59.	100
145	Unique	15.5	—
150	HiVel 2	49	1000
150	HiVel 2	31.2	200
150	HiVel 2	48.6	200
150	4895	40	200
150	4895	42.	500
150	4895	47	300
150	4895	48	300
150	4895	53.2	300
150	4895	55	200
150	3031	26	300
150	3031	35	100
150	3031	40	100
150	3031	42	500
150	3031	49	500
150	3031	50	350
150	3031	51	200
150	4064	51.5	200
150	4064	53	200
150	4320	45	500
150	4320	48	300
150	4320	50	200
150	4320	55.	200
150	4350	53.	100
172	4350	57	—
*172	HiVel 2	47	200
*172	4895	45	200
180	4350	55	200
180	HiVel 2	37	—
180	HiVel 2	40	300
180	HiVel 2	45	200
180	3031	45	200
180	3031	48.5	1000
180	4064	48	300
180	4064	50.5	1000
180	4320	49	300
180	4320	53	100
180	4350	46	200
180	4350	56	1000
180	4350	57	300
220	4350	60	500
220	HiVel 2	45	100
220	4064	49.5	300
220	4350	55	250

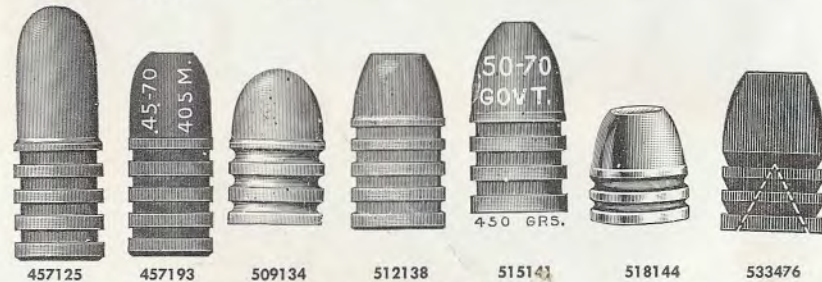
CAST BULLET LOADS 30/06

Dia.	Bullet	Powder	Gr.	Yards Tried
.308	308334	2400	24.3	200
.308	308334	3031	32	300
.309	311413	2400	20	200
.309	308329	4895	26 grs.	—
.309	311467	4895	35	200
.309	308329	4759	16	—
.311	311359	2400	16	200
.311	311413	4227	17	200
.311	308334	4759	16	50
.311	311316 H.P.	4198	18	200
.311	311413	4198	17	100
.311	311413	HiVel 2	25	200
.311	311466	4895	24.5	100
.311	311466	4895	25	200
.311	311413	3031	33	250
.311	311316	Unique	11	100

NEW BULLET DESIGNS



POPULAR BULLETS NOT LISTED



For complete bullet listings, Ideal Bullet Chart sent on request.

Section IV

BENCH REST SHOOTING

