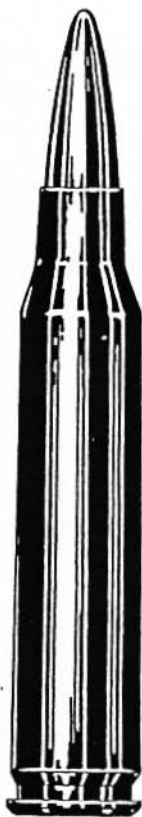


One Book / One Caliber

*The
Complete
Reloading
Manual
for the
.223
Remington*



Containing Unabridged Information
from U.S. Bullet
and Powder Makers

*Accurate * Hercules * Hodgdon * Hornady
IMR * Lyman * Nosler * RCBS * Scot
Sierra * Speer * Winchester*

**2,437 Proven & Tested Loads
78 Various Bullet Designs
47 Different Powders**

RELOADING SAFETY RULES

Reloading is an enjoyable and rewarding hobby that is easily conducted with safety. But, like many other human endeavors, carelessness or negligence can make reloading hazardous.

The essence of reloading safety is proper handling and storage of primers and powder. By observing the following rules, the chance of hazardous occurrence becomes extremely remote.

Store powder and primers beyond the reach of children and away from heat and open flames. Do not smoke when reloading.

Keep no more powder than needed in an open container. Immediately return unused powder to its original factory container.

Don't use any powder unless its identity is positively known. Scrap all mixed powders and those of uncertain or unknown identity.

Do not store primers in bulk. To do so is to create a bomb! Bulk primers will mass detonate. Do not use primers when their identity is lost. Safely dispose of unknown types of primers.

Courtesy of Speer Reloading Manual No. 11

All loading data contained in this book is the result of testing by the various bullet and powder manufacturers. Under carefully controlled conditions and with the components and test equipment specified, this data proved safe in their tests. Since none of the companies, nor the publisher, listed herein has control over the components and equipment which may be used with this published information, no responsibility is implied or assumed for results obtained through its use.

Courtesy of Hornady Manufacturing Company, Inc.

Sierra Bullets cannot and does not accept any liability, either expressed or implied, for results of damage or injury arising from or alleged to have arisen from the use of the data in this manual.

Courtesy of Sierra Bullets

Follow loading recommendations exactly. Don't substitute components for those listed. Start loading with the minimum powder charges. Understand what you are doing and why it must be done in a specific way. Stay alert when reloading. Don't reload when distracted, disturbed or tired.

Courtesy of Nosler Bullets, Inc.

The Complete Reloading Manual for the .223 Remington

The publisher is deeply indebted to the following companies for their permission to reprint their proprietary reloading information found in this manual.

Accurate Arms Company, Inc.
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Hodgdon Powder Co., Inc.
Hornady Manufacturing Company
IMR Powder Company
Lyman Products Corporation
Nosler Bullets, Inc.
RCBS Bullets
Scot Powders
Sierra Bullets, L.P.
Speer Bullets
Winchester

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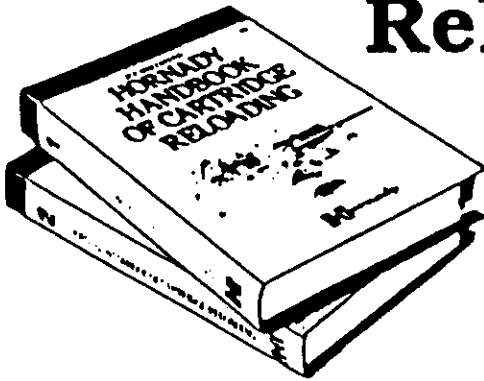
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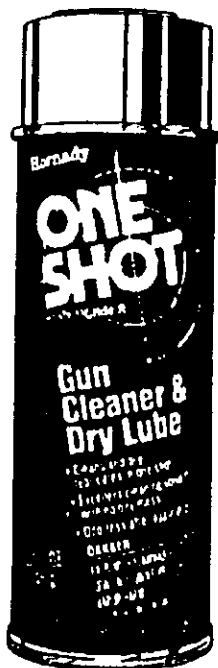
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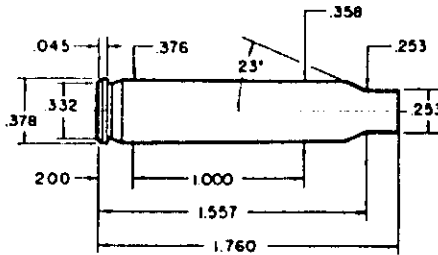
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Hornady Mfg. Co., Box 1848, Grand Island, NE 68802-1848

.223 REMINGTON - HORNADY BULLETS



RIFLE: Remington 700
BARREL: 26", 1 in 12" Twist
CASE: Winchester
PRIMER: Winchester WSR

BULLET DIAMETER: 0.224"
MAXIMUM C.O.L.: 2.260"
MAX. CASE LENGTH: ... 1.760"
CASE TRIM LENGTH: ... 1.750"

The 223 Remington began as a military cartridge in 1957 and was later introduced by Remington as a commercial round. The cartridge is now chambered by numerous manufacturers in a wide variety of firearms. Ready availability of inexpensive military surplus brass contributed greatly to the 223's popularity. It easily surpassed the 222 Magnum's following, and its acceptance is still growing.

When comparing the 222 Magnum and the 223, the case size appears to be nearly identical. However, the 222 Magnum is about one tenth of an inch longer and holds 1/2 to 1 grain more powder. 223 cartridges should not be fired in a 222 Magnum as the case dimensions are different and the cases are likely to rupture, possibly causing injury.

The 223 is an excellent choice for varmint hunters. At the time of his writing, the types of commercial actions chambered for the 223 Remington range from the Ruger Mini-14 semi-automatic to the Remington 40 XB. Couple this wide assortment of firearms with Hornady's superb selection of 22 caliber bullets and the 223 is adequate for any 22 caliber use. Varminters are encouraged to try the new 22 caliber Hornady V-MAX bullets. These polymer-tipped bullets have been designed not only for their explosive performance on impact, they are very efficient ballistically and highly accurate.

.223 REMINGTON - HORNADY BULLETS

40 GRAIN BULLETS

SECTIONAL DENSITY: 0.114
DIAMETER: 0.224"



#22241 V-MAX

B.C.: 0.200 C.O.L.: 2.200"

POWDER	VELOCITY (FPS—feet per second)					
	3300	3400	3500	3600	3700	3800
IMR 4198	19.3 gr.	20.0 gr.	20.7 gr.	21.5 gr.	22.2 gr.	
VIHT N-120	19.5 gr.	20.3 gr.	21.0 gr.			
VIHT N-130	21.6 gr.	22.3 gr.	23.0 gr.	23.8 gr.	24.5 gr.	
AA 2460	24.1 gr.	24.9 gr.	25.6 gr.	26.4 gr.	27.1 gr.	27.8 gr.
H 335	24.3 gr.	25.1 gr.	25.9 gr.	26.6 gr.	27.4 gr.	

45 GRAIN BULLETS

SECTIONAL DENSITY: 0.128
DIAMETER: 0.224"



#2230 HORNET

B.C.: 0.202 C.O.L.: 2.200"

POWDER	VELOCITY (FPS—feet per second)				
	3100	3200	3300	3400	3500
VIHT N-130	20.0 gr.	20.8 gr.	21.6 gr.	22.5 gr.	23.3 gr.
IMR 4198	20.6 gr.	21.3 gr.	22.0 gr.	22.7 gr.	
VIHT N-133	21.1 gr.	21.9 gr.	22.8 gr.	23.7 gr.	24.6 gr.
H 322	23.3 gr.	23.9 gr.	24.5 gr.	25.1 gr.	
VIHT N-135	22.8 gr.	23.6 gr.	24.5 gr.	25.3 gr.	
IMR 3031		23.8 gr.	24.6 gr.	25.5 gr.	
H 335	23.0 gr.	24.0 gr.	25.0 gr.	26.1 gr.	27.1 gr.
AA 2460	23.9 gr.	24.6 gr.	25.4 gr.	26.1 gr.	26.9 gr.
BL-C2	24.9 gr.	25.6 gr.	26.3 gr.	27.0 gr.	27.7 gr.
Win 748	25.5 gr.	26.5 gr.	27.5 gr.	28.6 gr.	

■ indicates maximum load • use with caution

.223 REMINGTON - HORNADY BULLETS

50 GRAIN BULLETS

SECTIONAL DENSITY: 0.142
DIAMETER: 0.224"



#2240 SPSX
B.C.: 0.214 C.O.L.: 2.200"



#22261 V-MAX
B.C.: 0.242 C.O.L.: 2.200"



#2245 SP
B.C.: 0.214 C.O.L.: 2.200"

VELOCITY (FPS—feet per second)

POWDER	2900	3000	3100	3200	3300	3400
VIHT N-130	19.6 gr.	20.4 gr.	21.2 gr.	22.1 gr.	22.9 gr.	
VIHT N-133	19.8 gr.	20.6 gr.	21.4 gr.	22.1 gr.	22.9 gr.	23.7 gr.
IMR 4198	19.5 gr.	20.2 gr.	20.9 gr.	21.6 gr.	22.2 gr.	
H 322	21.9 gr.	22.6 gr.	23.2 gr.	23.9 gr.	24.5 gr.	25.2 gr.
IMR 3031	22.5 gr.	23.2 gr.	23.8 gr.	24.4 gr.	25.1 gr.	25.7 gr.
H 335	21.8 gr.	22.7 gr.	23.7 gr.	24.7 gr.	25.7 gr.	
AA 2460	22.4 gr.	23.3 gr.	24.3 gr.	25.2 gr.	26.2 gr.	27.1 gr.
BL-C2	22.9 gr.	23.9 gr.	24.8 gr.	25.8 gr.	26.7 gr.	
IMR 4895	24.3 gr.	25.0 gr.	25.7 gr.	26.3 gr.	27.0 gr.	
WIN 748	24.5 gr.	25.1 gr.	25.9 gr.	26.7 gr.	27.5 gr.	28.3 gr.
IMR 4320	25.0 gr.	25.7 gr.	26.5 gr.	27.2 gr.	27.9 gr.	
H 380	25.3 gr.	26.2 gr.	27.2 gr.	28.1 gr.	29.0 gr.	

■ indicates maximum load • use with caution

.223 REMINGTON - HORNADY BULLETS

52-53 GRAIN BULLETS

SECTIONAL DENSITY: 0.148-0.151
DIAMETER: 0.224"



#2249 BTHP
B.C.: 0.229 C.O.L.: 2.230"



#22492 A-MAX
B.C.: 0.247 C.O.L.: 2.230"



#2250 HP
B.C.: 0.218 C.O.L.: 2.230"

VELOCITY (FPS—feet per second)

POWDER	2900	3000	3100	3200	3300	3400
IMR 4198	19.2 gr.	20.1 gr.	21.0 gr.	21.9 gr.		
VIHT N-130	19.3 gr.	20.3 gr.	21.3 gr.	22.2 gr.		
VIHT N-133	20.6 gr.	21.4 gr.	22.2 gr.	23.0 gr.		
IMR 3031	22.2 gr.	22.9 gr.	23.5 gr.	24.2 gr.	24.8 gr.	25.5 gr.
H 322	22.2 gr.	22.9 gr.	23.6 gr.	24.3 gr.	25.0 gr.	
VIHT N-135	22.0 gr.	22.9 gr.	23.7 gr.	24.5 gr.		
H 335	22.3 gr.	23.3 gr.	24.3 gr.	25.4 gr.		
AA 2480	22.6 gr.	23.5 gr.	24.5 gr.	25.4 gr.	26.3 gr.	27.3 gr.
BL-C2	22.5 gr.	23.5 gr.	24.5 gr.	25.5 gr.	26.5 gr.	27.4 gr.
VARGET	23.3 gr.	24.2 gr.	25.1 gr.	26.0 gr.		
IMR 4895	24.1 gr.	24.9 gr.	25.6 gr.	26.4 gr.	27.1 gr.	
WIN 748	23.8 gr.	24.8 gr.	25.8 gr.	26.9 gr.	27.9 gr.	28.9 gr.
IMR 4320	24.8 gr.	25.6 gr.	26.4 gr.	27.2 gr.	27.9 gr.	

■ indicates maximum load • use with caution

.223 REMINGTON - HORNADY BULLETS

55 GRAIN BULLETS

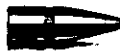
SECTIONAL DENSITY: 0.157
DIAMETER: 0.224"



#2265 SP
B.C.: 0.235 C.O.L.: 2.200"



#22271 V-MAX
B.C.: 0.255 C.O.L.: 2.250"



#2266 SP w/c
B.C.: 0.235 C.O.L.: 2.200"



#2260 SPSX
B.C.: 0.235 C.O.L.: 2.200"



#2267 BT-FMJ w/c
B.C.: 0.243 C.O.L.: 2.200"

VELOCITY (FPS—feet per second)

POWDER	2800	2900	3000	3100	3200	3300
IMR 4198	17.4 gr.	18.2 gr.	19.1 gr.	20.0 gr.		
VIHT N-133	19.8 gr.	20.8 gr.	21.8 gr.	22.7 gr.		
IMR 3031	20.5 gr.	21.2 gr.	22.0 gr.	22.8 gr.		
H 322	19.5 gr.	20.7 gr.	21.9 gr.	23.1 gr.		
H 335	20.8 gr.	21.6 gr.	22.4 gr.	23.2 gr.		
VIHT N-135	20.5 gr.	21.5 gr.	22.4 gr.	23.4 gr.		
AA 2460	21.2 gr.	22.2 gr.	23.2 gr.	24.2 gr.		
IMR 4895	22.7 gr.	23.5 gr.	24.3 gr.	25.1 gr.		
WIN 748	22.7 gr.	23.7 gr.	24.6 gr.	25.5 gr.	26.4 gr.	
VARGET	22.8 gr.	23.7 gr.	24.6 gr.	25.5 gr.	26.4 gr.	
VIHT N-140	22.8 gr.	23.8 gr.	24.7 gr.	25.7 gr.		
BL-C2	24.4 gr.	25.1 gr.	25.9 gr.	26.6 gr.	27.4 gr.	28.1 gr.

■ indicates maximum load • use with caution



The One You've Been Waiting For

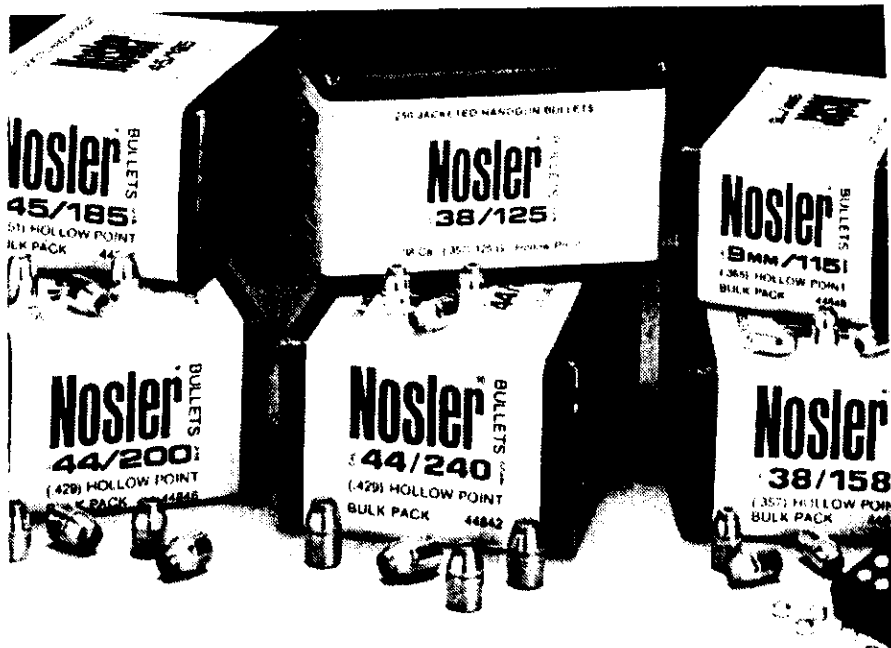
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P.O. Box 671
Bend, Oregon 97709

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Handgun

.223 REMINGTON - NOSLER BULLETS

Hot summer afternoon, accurate varmint rifle, a bucket full of ammo, short prairie grass pocked with dirt mounds as far as the eye can see, with just enough wind to keep you cool and make the shooting a challenge. Every prairie dog shooter's dream.

Load and shoot, load and shoot in a continuous rhythm that lasted long enough to turn that bucket full of ammo into a scattered pile of empty brass.

As I stopped to refill the bucket, and the adrenaline subsided, I could smell charred wood and made the mistake of touching the barrel with my trigger finger. Another "cooked" barrel.

After rebarreling my trusty 22-250 twice, it was designated as a rock chuck rifle where the shooting was not so fast and furious. This created a hole in my varmint rifle arsenal that definitely needed to be filled.

The 22-250 and the "Swift" are great varmint cartridges but are not conducive to long barrel life when subjected to the volume of ammunition pumped down range in a "hot" prairie dog town. It is not unusual to expend five or six hundred rounds of ammo in a day's time.

It didn't take much research to realize that in 1964, Uncle Sam and Robert Hutton of Guns & Ammo, had developed a cartridge (5.56mm) for the military that was the perfect prairie dog medicine. The .223 Rem. fit all the criteria: availability of inexpensive brass, easy to load, accurate, enough velocity to create "red mist" out to 400 yards, low recoil so you don't

develop an afternoon flinch, and more rounds per pound than the 22-250 (43 vs. 29) when you have to fill your pockets and walk over the next hill.

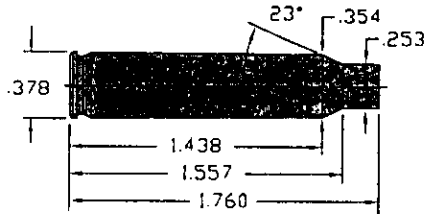
Those who have experienced the "fever" brought on by a steady rest in the middle of an active prairie dog town, can understand the need for the perfect combination. The .223 Rem. with a 40-grain Ballistic Tip® at 3,700 fps in a medium weight 24-inch barrel doesn't miss the perfect combination by much.



Chuck Eastman

Chuck is Sales Vice President of Nosler®, Inc.

.223 REMINGTON - NOSLER BULLETS



RIFLE:	Barrel: Lilja
	Length: 24"
	Twist: 1-12"
CASE:	Winchester
PRIMER:	Rem. 7 $\frac{1}{2}$

Comments from the lab

The loads listed here were developed using standard commercial brass. Military brass has less case capacity because of its heavier construction, which often yields higher pressures. We recommend caution when using military brass, and suggest starting at or below the minimum loads listed.

If you will be loading for a semi-auto and find that crimping is necessary, then we recommend using a taper-crimp since there is no crimping groove on any of our .22 caliber products. Crimping with a standard seating die (roll crimping) can adversely affect accuracy.

For serious varmint work, nothing can rival the Ballistic Tip's ability to be fired at any reasonable velocity! Under strict laboratory conditions, we have tested our .22 caliber Ballistic Tips at over 4900 FPS—without sacrificing integrity, or accuracy!

The industry maximum overall cartridge length (O.A.L.) was established to assure proper feeding in modern sporting firearms. For the .223 Remington, this overall length has been established at 2.260". Optimum accuracy is usually achieved with a slightly longer cartridge

.223 REMINGTON - NOSLER BULLETS

Nosler

40 Grain



40 gr. Solid Base*
Ballistic Tip* (orange)

Ballistic Coefficient .221
Sectional Density .114

*Most Accurate Load Tested

**Compressed Load

Powder	Charge Weight in Grains	Muzzle Velocity (fps)	Load Density
N 120	Max. 23.5	3810 fps	83%
	22.5	3677 fps	80%
	21.5*	3543 fps	76%
IMR 4198	Max. 23.0	3682 fps	82%
	22.0	3492 fps	78%
	21.0*	3302 fps	75%
RL 7	Max. 23.5*	3614 fps	83%
	22.5	3492 fps	80%
	21.5	3370 fps	76%
AA 2015BR	Max. 25.5	3796 fps	91%
	24.5	3627 fps	87%
	23.5*	3458 fps	83%
H 322	Max. 25.0	3567 fps	89%
	24.0	3442 fps	85%
	23.0*	3302 fps	82%
N 133	Max. 27.0	3812 fps	96%
	26.0	3704 fps	92%
	25.0*	3596 fps	89%
RL 12	Max. 28.0	3742 fps	99%
	27.0	3617 fps	96%
	26.0*	3493 fps	92%
H 335	Max. 27.5*	3681 fps	98%
	26.5	3544 fps	94%
	25.5	3406 fps	91%
IMR 4895	Max. 26.5	3515 fps	94%
	25.5	3343 fps	91%
	24.5*	3171 fps	87%
W 748 (Most Accurate Powder Tested)	Max. 28.0*	3547 fps	99%
	27.0	3426 fps	96%
	26.0	3304 fps	92%
VARGET	Max. 27.0	3383 fps	96%
	26.0	3247 fps	92%
	25.0*	3111 fps	89%

Use Maximum Loads with Caution

.223 REMINGTON - NOSLER BULLETS

Nosler

50 Grain



50 gr. Solid Base*
Ballistic Tip* (orange)

*Most Accurate Load Tested

**Compressed Load

Ballistic Coefficient .238

Sectional Density .142

Powder	Charge Weight in Grains	Muzzle Velocity (fps)	Load Density
N 120	Max. 23.0	3323 fps	81%
	22.0	3187 fps	78%
	21.0*	3051 fps	74%
IMR 4198	Max. 22.0*	3230 fps	78%
	21.0	3110 fps	74%
	20.0	2990 fps	71%
N 133	Max. 25.0	3412 fps	88%
	24.0	3301 fps	85%
	23.0*	3190 fps	81%
AA 2460	Max. 28.0	3497 fps	99%
	27.0	3391 fps	95%
	26.0*	3285 fps	92%
BL-C(2)	Max. 25.5*	3298 fps	90%
	24.5	3183 fps	87%
	23.5	3068 fps	83%
H 335	Max. 26.0	3260 fps	92%
	25.0	3170 fps	88%
	24.0*	3080 fps	85%
RL 12	Max. 26.0*	3298 fps	92%
	25.0	3163 fps	88%
	24.0	3028 fps	85%
IMR 4895	Max. 26.0	3260 fps	92%
	25.0	3150 fps	88%
	24.0*	3040 fps	85%
VARGET	Max. 26.0*	3220 fps	92%
	25.0	3092 fps	88%
	24.0	2963 fps	85%
W 748 (Most Accurate Powder Tested)	Max. 26.5*	3260 fps	94%
	25.5	3150 fps	90%
	24.5	3040 fps	87%
IMR 4064	Max. 27.0*	3240 fps	95%
	26.0	3130 fps	92%
	25.0	3020 fps	88%

Use Maximum Loads with Caution

.223 REMINGTON - NOSLER BULLETS

Nosler

55 Grain



55 gr. Solid Base[®]
Ballistic Tip[®] (orange)

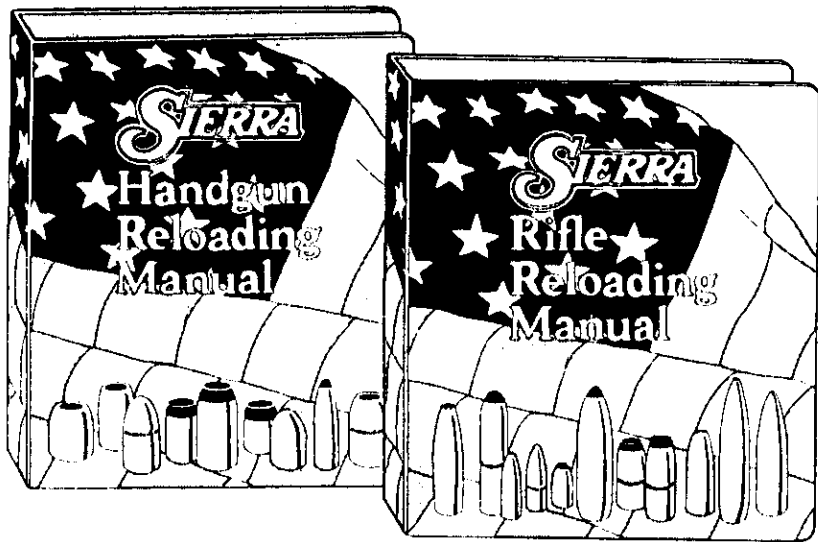
Ballistic Coefficient: .267
Sectional Density: .157

*Most Accurate Load Tested

**Compressed Load

Powder	Charge Weight in Grains	Muzzle Velocity (fps)	Load Density
N 120	Max. 21.0*	3149 fps	74%
	20.0	3020 fps	71%
	19.0	2892 fps	67%
IMR 4198	Max. 21.5*	3170 fps	76%
	20.5	3050 fps	73%
	19.5	2930 fps	69%
IMR 3031	Max. 24.5	3170 fps	87%
	23.5	3040 fps	83%
	22.5*	2910 fps	80%
N 135	Max. 25.0	3195 fps	89%
	24.0	3091 fps	85%
	23.0*	2987 fps	82%
BL-C(2)	Max. 25.0*	3142 fps	89%
	24.0	3037 fps	85%
	23.0	2932 fps	82%
H 335 (Most Accurate Powder Tested)	Max. 25.0*	3140 fps	89%
	24.0	3030 fps	85%
	23.0	2920 fps	82%
IMR 4895	Max. 25.5*	3178 fps	90%
	24.5	3083 fps	87%
	23.5	2988 fps	83%
W 748	Max. 26.0	3140 fps	92%
	25.0	3060 fps	89%
	24.0*	2980 fps	85%
IMR 4064	Max. 26.5*	3180 fps	94%
	25.5	3110 fps	90%
	24.5	3040 fps	87%
VARGET	Max. 25.0	3037 fps	89%
	24.0	2921 fps	85%
	23.0*	2805 fps	82%
RL 15	Max. 26.5	3190 fps	93%
	25.5	3080 fps	89%
	24.5*	2970 fps	86%

Use Maximum Loads with Caution



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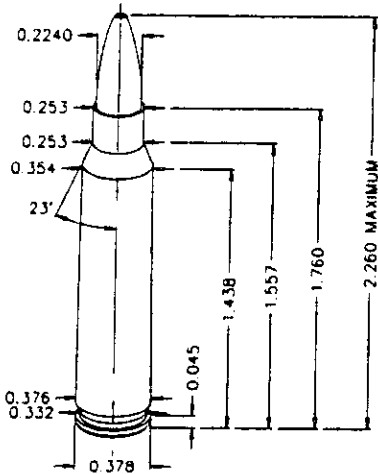
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223 Remington (AR-15)



Test Specifications/ Components

Firearm Used: Colt AR-15A2 HBAR

Barrel Length: 20"

Twist: 1 x 7"

Case: Federal

Trim-to Length: 1.750"

Primer: Rem 7 1/2

Remarks:

Inadequate for military purposes, not as accurate as the 222 Remington, and less powerful than the 222 Magnum. These were just some of the greetings given to Remington's 223, when it was unveiled as the 5.56mm in the AR-15/M16 rifle. In spite of its early critics, the 223 Remington has become

one of the most popular sporting cartridges, and has proven itself in several military conflicts worldwide. Perhaps its greatest compliment as a service round came when the former Soviet Union replaced its 7.62x39mm cartridge with a 22 caliber service round that closely duplicated the 223's performance.

While adoption by the military virtually assures a cartridge's popularity, the 223 is perfectly capable of standing on its own merits. It is an outstanding varmint cartridge out to 250-275 yards, especially when loaded with 50 or 55 grain Blitz bullets. Despite critics' comments, any difference in either accuracy, effective range, or power compared to the 222 Remington or 222 Remington Magnum is insignificant. In fact, Sierra now uses the 223 for accuracy testing in several of our 22 caliber MatchKings. It is an extremely easy cartridge to load for, responding well to a wide variety of components. Hodgdon's H335, Winchester 748 and Reloader 7 are all top choices, generally giving good velocity and excellent accuracy. Surplus military cases add to the popularity of any cartridge, and the 223 has been no exception. If military cases are used, the primer pocket will need to be swaged or reamed to remove the crimp and allow seating of a new primer. Dillon Reloading has a swaging tool specifically for this chore, and it is by far the most satisfactory unit we have used.

In recent years, the 223 Remington has gained acceptance as a target round, being used mostly in the "service rifle" category of the National Match Course. In 1992, Sierra announced an 80 grain MatchKing specifically for the 600-yard stage of this type of competition. As this is a slow-fire stage, the 80 grain HPBT should be seated to approximately 2.550" OAL, and must be single-loaded. This bullet requires the use of a 1x7" or 1x8" twist for proper stability.

.223 REMINGTON - SIERRA BULLETS

223 Remington (AR-15) *continued*

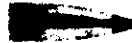
#1200 .224" 40 gr. Hornet
C.O.A.L. 2.125"



#1385 .224" 40 gr. HP
C.O.A.L. 2.175"



#1440 .224" 40 gr. BlitzKing
C.O.A.L. 2.250"



Powder / Velocity ~	3100	3200	3300	3400	3500	3600
Viht N130		23.2	23.7	24.2	24.7	25.2
Viht N133	24.6	25.2	25.8	26.4		
IMR-4198		22.0	22.6	23.2		
XMR-2015	24.5	25.2	25.9	26.6		
Benchmark	24.9	25.6	26.3	27.0		
H322	24.4	25.3				
X-Terminator		25.0	25.7	26.4	27.1	
AA-2230		25.5	26.5	27.5		
748	27.4	28.0				
H335	26.0	26.6	27.2	27.8	28.4	
TAC		25.9	26.9	27.9		
Energy/ft.lbs.	853	909	967	1027	1088	1151

	Powder	Grains	Velocity	Ft. lbs.
Accuracy Load	H322	25.3	3200	909
Hunting Load	IMR-4198	23.2	3400	1027

INDICATES MAXIMUM LOAD - USE CAUTION

LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

.223 REMINGTON - SIERRA BULLETS

223 Remington (AR-15) continued

#1210 .224" 45 gr. Hornet
C.O.A.L. 2.125"



#1310 .224" 45 gr. SPT
C.O.A.L. 2.240"



Powder/Velocity -	3000	3100	3200	3300	3400	3450
Viht N130		22.8	23.4	24.0	24.6	24.9
Viht N133	23.9	24.5	25.1	25.7		
IMR-4198	20.7	21.4	22.1	22.8		
XMR-2015	24.2	24.8	25.4			
RE-7	21.6	22.2	22.8			
IMR-3031	24.7	25.2				
Benchmark	24.7	25.3	25.9	26.5		
H322	24.5	25.1	25.7			
X-Terminator	24.0	24.7	25.4	26.1		
AA-2230	25.2	25.9	26.6	27.3		
748	27.2	27.9				
BL-C(2)	28.1	28.8	29.5			
H335	25.6	26.3	27.0	27.7		
TAC	25.5	26.2	26.9	27.6	28.3	
Viht N135	24.5	25.3	26.1	26.9		
Energy/ft.lbs.	899	960	1023	1088	1155	1189

	Powder	Grains	Velocity	Fl. lbs.
Accuracy Load	X-Terminator	26.1	3300	1088
Hunting Load	Viht N130	24.6	3400	1155

INDICATES MAXIMUM LOAD - USE CAUTION
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

223 Remington (AR-15) continued

#1320 .224" 50 gr. SMP

C.O.A.L. 2.230"



#1330 .224" 50 gr. SPT

C.O.A.L. 2.250"



#1340 .224" 50 gr. Blitz

C.O.A.L. 2.250"



#1450 .224" 50 gr. BlitzKing

C.O.A.L. 2.250"



Powder/Velocity ~	2800	2900	3000	3100	3200	3250	3300
Vih1 N130	22.1	22.6	23.1	23.6	24.1	24.3	24.6
Vih1 N133		23.5	24.2	24.9	25.6	25.9	
IMR-4198	20.1	20.7	21.3	21.9	22.5		
XMR-2015	23.3	23.9	24.5	25.1	25.7		
RE-7	20.2	20.9	21.6	22.3	23.0		
IMR-3031	23.7	24.2	24.7	25.2			
Benchmark	23.3	24.1	24.9	25.7	26.5		
H322	23.1	23.8	24.5	25.2			
X-Terminator		23.5	24.3	25.1	25.9		
AA-2230		24.9	25.6	26.3	27.0		
748		26.6	27.2	27.8			
BL-C(2)	26.5	27.2					
H335	24.3	25.0	25.7	26.4			
TAC		24.3	25.1	25.9	26.7	27.1	27.5
IMR-4895	24.8	25.6	26.4				
Vih1 N135	23.9	24.5	25.1	25.7			
IMR-4320	26.1	26.9					
Energy/ft.lbs.	870	933	999	1067	1137	1172	1209

	Powder	Grains	Velocity	Ft. lbs.
Accuracy Load	Vih1 N135	25.7	3100	1067
Hunting Load	X-Terminator	25.9	3200	1137

INDICATES MAXIMUM LOAD - USE CAUTION
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

.223 REMINGTON - SIERRA BULLETS

223 Remington (AR-15) continued

#1410 .224" 52 gr. HPBT MatchKing

C.O.A.L. 2.250"



#1400 .224" 53 gr. HP MatchKing

C.O.A.L. 2.250"



Powder/Velocity --	2700	2800	2900	3000	3050	3100	3150	3200
Viht N130		21.1	21.9	22.7				
Viht N133	22.3	22.9	23.5	24.1				
IMR-4198	19.6	20.3	21.0					
XMR-2015	22.4	23.1	23.8	24.5	24.9	25.2		
RE-7	19.6	20.4	21.2	22.0	22.4			
IMR-3031	22.7	23.5	24.3	25.1				
Benchmark		23.6	24.3	25.0	25.4	25.7		
H322		23.1	23.8	24.5	24.9	25.2		
X-Terminator		22.7	23.5	24.3	24.7	25.1		
AA-2230		23.6	24.4	25.2	25.6	26.0		
748		24.8	25.7	26.6	27.1	27.5		
BL-C(2)	25.8	26.5						
H335		24.3	25.0	25.7	26.1	26.4	26.7	
TAC		23.5	24.3	25.1	25.5	25.9	26.3	26.7
IMR-4895	24.4	25.1	25.8	26.5				
Viht N135	23.6	24.1	24.6	25.1	25.4	25.6		
Vargel	25.1	25.9	26.7	27.5				
IMR-4064	24.6	25.2	25.3					
IMR-4320	25.4	26.2	27.0					
Energy/ft.lbs.	858	922	989	1059	1095	1131	1168	1205

	Powder	Grains	Velocity	Ft. lbs.
Accuracy Load	Viht N133	23.5	2900	989

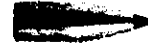
Sierra does not recommend MatchKing bullets for hunting applications.

INDICATES MAXIMUM LOAD - USE CAUTION
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

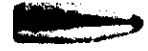
.223 REMINGTON - SIERRA BULLETS

223 Remington (AR-15) continued

#1345 .224" 55 gr. Blitz
C.O.A.L. 2.250"



#1350 .224" 55 gr. SMP
C.O.A.L. 2.230"



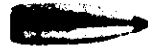
#1355 .224" 55 gr. FMJBT
C.O.A.L. 2.250"



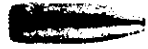
#1360 .224" 55 gr. SPT
C.O.A.L. 2.250"



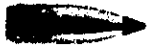
#1365 .224" 55 gr. SBT
C.O.A.L. 2.250"



#1390 .224" 55 gr. HPBT
C.O.A.L. 2.240"



#1455 .224" 55 gr. BlitzKing
C.O.A.L. 2.250"



Powder/Velocity--	2700	2800	2900	3000	3050	3100
Viht N130		21.4	22.0	22.6	22.9	
Viht N133	22.6	23.1	23.6	24.1		
IMR-4198	19.7	20.3	20.9	21.5	21.8	
XMR-2015	22.4	23.1	23.8	24.5	24.9	25.2
RE-7	20.1	20.8	21.5			
IMR-3031	23.1	23.6	24.1	24.3		
Benchmark		23.6	24.4	25.2		
H322	22.5	23.1	23.7	24.3		
X-Terminator		22.7	23.5	24.3	24.7	25.1
AA-2230	23.3	24.0	24.7	25.4	25.8	26.1
748	25.1	25.8	26.5			
H335	23.6	24.3	25.0	25.7		
TAC			24.7	25.5	25.9	26.3
IMR-4895	24.2	24.9	25.6			
Viht N135	23.2	23.8	24.4	25.0	25.3	25.6
Varget	25.1	25.8	26.5	27.2		
IMR-4064	24.8	25.3	25.8			
IMR-4320	25.5	26.1	26.7			
Energy/ft.lbs.	890	957	1027	1099	1136	1173

	Powder	Grains	Velocity	Ft. lbs.
Accuracy Load	RE-7	21.5	2900	1027
Hunting Load	H335	25.7	3000	1099

INDICATES MAXIMUM LOAD - USE CAUTION
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

.223 REMINGTON - SIERRA BULLETS

223 Remington (AR-15) continued

#1375 .224" 60 gr. HP
C.O.A.L. 2.250"



Powder/Velocity --	2600	2700	2800	2900	2950	3000
Vihl N130		20.6	21.3	22.0	22.3	
Vihl N133		22.2	23.0			
IMR-4198		19.4	20.1	20.8	21.1	
XMR-2015	22.0	22.7	23.4	24.1	24.5	24.8
RE-7	19.3	20.0	20.7	21.4		
IMR-3031	22.5	23.1				
Benchmark			23.4	24.2	24.6	25.0
H322	21.7	22.4	23.1	23.8		
X-Terminator	22.2	22.8	23.4	24.0	24.3	24.6
AA-2230		22.9	23.8	24.7	25.1	
748	24.3	25.0	25.7	26.4		
H335	23.5	24.1	24.7	25.3	25.6	
TAC		23.4	24.2	25.0	25.4	25.8
IMR-4895	23.7	24.4	25.1			
Vihl N135		23.1	23.9	24.7		
Vargot	24.3	25.0	25.7	26.4	26.7	27.1
IMR-4064	23.9	24.6				
IMR-4320	24.8	25.5	26.2			
Energy/ft.lbs.	900	971	1044	1120	1159	1199

	Powder	Grains	Velocity	Ft. lbs.
Accuracy Load	Vihl N135	24.7	2900	1120
Hunting Load	Vihl N130	22.3	2950	1159

INDICATES MAXIMUM LOAD - USE CAUTION
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

.223 REMINGTON - SIERRA BULLETS

223 Remington (AR-15) *continued*

#1370 .224" 63 gr. SMP
C.O.A.L. 2.250"



Powder/Velocity -	2600	2700	2800	2850	2900	2950
Viht N130	19.3	20.4	21.5	22.0		
Viht N133	21.4	22.2	23.0			
XMR-2015	22.0	22.8	23.6	24.0	24.4	
RE-7	19.3	20.2	21.1	21.5		
Benchmark	22.8	23.4	24.0	24.3	24.6	
H322	21.9	22.6	23.3			
X-Terminator	21.3	22.3	23.3	23.8	24.3	
AA-2230		23.5	24.2	24.5	24.9	
748	24.3	25.1	25.9			
H335	22.8	23.6	24.4	24.8	25.2	25.6
TAC		23.0	24.0	24.5	25.0	25.5
IMR-4895	23.5	24.3				
Viht N135	22.1	23.0	23.9	24.3		
IMR-4064	23.9	24.7				
IMR-4320	24.9	25.7				
Energy/ft.lbs.	945	1020	1097	1136	1176	1217

	Powder	Grains	Velocity	Ft. lbs.
Accuracy Load	H335	25.2	2900	1176
Hunting Load	TAC	25.5	2950	1217

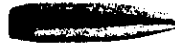
INDICATES MAXIMUM LOAD - USE CAUTION

LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

.223 REMINGTON - SIERRA BULLETS

223 Remington (AR-15) *continued*

#1380 .224" 69 gr. HPBT MatchKing
C.O.A.L. 2.260"



Powder/Velocity -	2500	2600	2700	2750	2800	2850	2900
Viht N133	21.1	21.8	22.5				
IMR-4198	18.8	19.4	20.0	20.3			
X-Terminator		21.9	22.6	22.9	23.3		
AA-2230	21.9	22.7	23.5				
748	23.7	24.4	25.1	25.5	25.8		
AA-2460		22.9	23.7	24.1	24.5		
H335	21.2	22.5	23.8				
TAC	22.1	22.8	23.5	23.8	24.2		
IMR-4895	22.9	23.7	24.5				
Viht N135	21.7	22.5					
Varget	23.3	24.1	24.9	25.3	25.7	26.1	
IMR-4064	23.3	24.1					
AA-2520		23.1	23.8	24.3	24.7	25.1	25.5
IMR-4320	24.0	24.7	25.4				
Viht N140	23.1	23.9	24.7	25.1			
RE-15	23.3	24.1	24.9	25.3	25.7		
Energy/ft.lbs.	957	1035	1117	1158	1201	1244	1288

	Powder	Grains	Velocity	Ft. lbs.
Accuracy Load	Varget	25.3	2750	1158

Sierra does not recommend MatchKing bullets for hunting applications.

INDICATES MAXIMUM LOAD - USE CAUTION
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

.223 REMINGTON - SIERRA BULLETS

223 Remington (AR-15) continued

#9377 .224" 77 gr. HPBT MatchKing
C.O.A.L. 2.260"



Powder! / Velocity --	2400	2500	2550	2600	2650	2700	2750
H322	20.6	21.4	21.8				
AA-2230	20.9	21.9	22.4	22.9	23.4		
748	22.7	23.4					
H335	21.6	22.3	22.6				
TAC		21.8	22.2	22.7	23.1	23.6	24.0
H4895	22.2	22.9	23.2	23.6			
XMR-2495	22.1	23.1	23.6	24.1			
Varget	22.6	23.5	23.9				
AA-2520	21.5	22.4	22.8	23.3	23.8	24.2	
Viht N140	22.3	23.2	23.6	24.1	24.5		
Viht N540	22.9	23.7	24.1	24.5	24.9		
RE-15	22.3	23.2	23.6	24.1			
Energy/ft.lbs.	985	1068	1112	1156	1200	1246	1293

Accuracy Load Powder Grains Velocity Ft. lbs.
Viht N140 24.1 2600 1156

Sierra does not recommend MatchKing bullets for hunting applications.

#9390 .224" 80 gr. HPBT MatchKing
C.O.A.L. 2.550"



Powder! / Velocity --	2300	2400	2500	2550	2600	2650	2700
XMR-2015	19.6	20.7					
748	21.3	22.4	23.5				
AA-2460	20.0	21.1	22.2	22.7			
H335	20.5	21.5	22.5				
TAC		21.4	22.2	22.6	23.0		
H4985	20.7	21.6	22.5	22.9			
XMR-2495	20.8	21.8	22.8				
Varget	21.3	22.2	23.1	23.6	24.0		
IMR-4064	21.4	22.2	23.0	23.4	23.8		
AA-2520	21.2	21.9	22.6	22.9	23.3	23.6	24.0
Viht N140	21.0	22.0	23.0	23.5			
Viht N540	21.8	22.6	23.4	23.8	24.2		
RE-15	20.8	21.8	22.8	23.3	23.8		
Energy/ft.lbs.	939	1023	1110	1155	1201	1247	1295

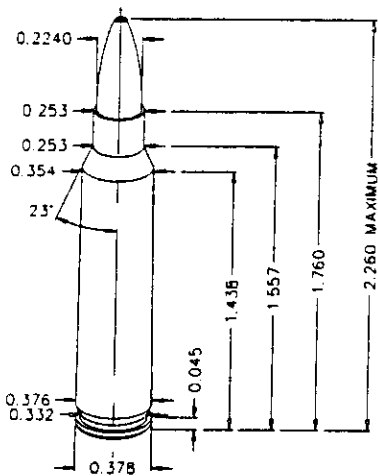
Accuracy Load Powder Grains Velocity Ft. lbs.
Viht N140 23.5 2550 1155

Sierra does not recommend MatchKing bullets for hunting applications.

INDICATES MAXIMUM LOAD - USE CAUTION

LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

223 Remington (Bolt Action)



Test Specifications/ Components

Firearm Used: Remington 600

Barrel Length: 24"

Twist: 1 x 14"

Case: Federal

Trim-to Length: 1.750"

Primer: Rem 7 1/2

Remarks:

Originally designed for use in the military's AR-15/M16 Service Rifle, the 223 Remington has become one of our most popular civilian cartridges. And for good reason. It is accurate, flat-shooting and has a dizzying array of suitable bullets available for the cartridge's every task. Brass is readily

available at bargain prices—always a strong incentive for the handloader. All things considered, it makes an outstanding varmint round. With all this going for it, it comes as no surprise that virtually all major manufacturers offer their respective bolt-action designs in the 223 Remington.

The bolt-action design affords the handloader a bit more latitude in powder selection than a gas-operated system. Despite this, most of the powders used in the semi-autos are also some of the best choices for use in a bolt rifle. Hodgdon's H322, H335 and Varget are all excellent choices, as are Winchester's 748 and Alliant's Reloder 7 and 15. Since they generally use barrels that are somewhat longer than those commonly found on semi-autos, the bolt-actions tend to offer improved velocities. This effectively increases the useful range of the cartridge without resorting to higher pressures. In the varmint fields, a 250-300 yard shot is not unusual for the 223, and we've had reports of hits at twice that range. Freed of the constraints imposed by port pressure limitations, reduced loads for plinking and short-range practice are entirely viable. With some of the heavier bullets, such as the Sierra 63 grain Semi-Point, the cartridge has proven effective on small deer. In short, it is a tremendously versatile cartridge.

Unlike most of the currently available semi-autos, factory bolt-actions generally come equipped with 1x12" twist barrels. As such, they can handle Sierra's line of bullets from 40 to 60 or 63 grains, but not the heavier MatchKing designs. This isn't a problem in custom-built rifles, if the shooter chooses a twist rate appropriate for the bullets used. With this cartridge, we recommend a 1x10" as minimum for the 69 grain MatchKing, and a 1x8" for 77 or 80 grain MatchKings.

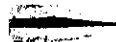
.223 REMINGTON - SIERRA BULLETS

223 Remington (Bolt Action) continued

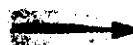
#1200 .224" 40 gr. Hornet
C.O.A.L. 2.125"



#1385 .224" 40 gr. HP
C.O.A.L. 2.175"



#1440 .224" 40 gr. BlitzKing
C.O.A.L. 2.175"



Powder:/Velocity →	3200	3300	3400	3500	3600	3700
Viht N130			23.0	23.7	24.4	25.1
Viht N133			24.5	25.1	25.7	26.3
IMR-4198	21.5	22.0	22.5	23.0	23.5	
AA-2015	23.0	23.6	24.2	24.8	25.1	
RE-7	21.2	21.8	22.4	23.0	23.6	24.2
H322	24.1	24.8	25.5			
AA-2230		24.8	25.6	26.4	27.2	
748	26.5	27.0	27.5			
BLC-(2)	28.2	28.8	29.4			
H335	25.6	26.3	27.0	27.7	28.4	29.1
Viht N135	24.4	25.0	25.6	26.2	26.8	
Varget	26.2	26.7	27.2			
Energy/ft.lbs.	910	968	1027	1088	1151	1216

	Powder	Grains	Velocity	Ft. lbs.
Accuracy Load	IMR-4198	23.0	3500	1088
Hunting Load	H335	29.1	3700	1216

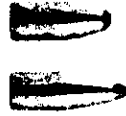
INDICATES MAXIMUM LOAD - USE CAUTION
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

.223 REMINGTON - SIERRA BULLETS

223 Remington (Bolt Action) *continued*

#1210 .224" 45 gr. Hornet
C.O.A.L. 2.125"

#1310 .224" 45 gr. SPT
C.O.A.L. 2.240"



Powder/Velocity—	3100	3200	3300	3400	3500	3600
Vihl N130		22.2	22.9	23.6	24.3	25.0
Vihl N133		23.7	24.3	24.9	25.5	26.1
IMR-4198		21.2	21.7	22.2	22.7	23.2
AA-2015	22.6	23.3	24.0	24.7	25.4	
RE-7		21.4	22.1	22.8	23.5	24.2
H322	22.6	23.5	24.4	25.3		
AA-2230			25.1	25.9	26.7	
748	25.6	26.2	26.8	27.4		
BLC-(2)	27.4	28.2	29.0			
H335	24.8	25.5	26.2	26.9	27.6	28.3
H4895	24.8	25.4	26.0	26.6	27.2	
Vihl N135	23.6	24.3	25.0	25.7	26.4	27.1
Vargel	25.7	26.3	26.9			
Energy/ft.lbs.	961	1024	1088	1155	1224	1295

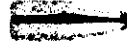
	Powder	Grains	Velocity	Ft. lbs.
Accuracy Load	H335	27.6	3500	1224
Hunting Load	Vihl N135	27.1	3600	1295

INDICATES MAXIMUM LOAD - USE CAUTION
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

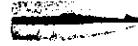
.223 REMINGTON - SIERRA BULLETS

223 Remington (Bolt Action) continued

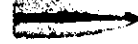
#1320 .224" 50 gr. SMP
C.O.A.L. 2.230"



#1330 .224" 50 gr. SPT
C.O.A.L. 2.250"



#1340 .224" 50 gr. Blitz
C.O.A.L. 2.250"



#1450 .224" 50 gr. BlitzKing
C.O.A.L. 2.250"



Powder/Velocity -	3000	3100	3200	3300	3400	3500
Viht N130		21.9	22.6	23.3	24.0	24.7
Viht N133		23.0	23.7	24.4	25.1	25.8
IMR-4198	20.1	20.8	21.5	22.2	22.9	
AA-2015	21.8	22.6	23.4	24.2	25.0	
RE-7		21.0	22.0	23.0	24.0	
H322	22.8	23.5	24.2	24.9		
AA-2230		24.5	25.2	25.9	26.6	
748	25.1	25.8	26.5	27.2		
BLC-(2)	27.1	27.8	28.5			
H335	24.5	25.2	25.9	26.6	27.3	28.0
H4895	24.4	25.0	25.6	26.2	26.8	
Viht N135	23.3	24.0	24.7	25.4	26.1	26.8
Vargat	25.2	26.0	26.8			
Energy/ft.lbs.	1000	1067	1137	1209	1284	1360

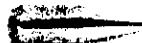
	Powder	Grains	Velocity	Ft. lbs.
Accuracy Load	H335	27.3	3400	1284
Hunting Load	H335	28.0	3500	1360

INDICATES MAXIMUM LOAD - USE CAUTION
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

.223 REMINGTON - SIERRA BULLETS

223 Remington (Bolt Action) *continued*

#1410 .224" 52 gr. HPBT MatchKing
C.O.A.L. 2.250"



#1400 .224" 53 gr. HP MatchKing
C.O.A.L. 2.250"



Powder/Velocity --	2900	3000	3100	3200	3300	3400
Viht N130		20.9	21.8	22.7	23.6	24.5
Viht N133	21.9	22.6	23.3	24.0	24.7	25.4
IMR-4198	19.6	20.3	21.0	21.7	22.4	
AA-2015	21.8	22.5	23.2	23.9	24.6	
RE-7		20.6	21.6	22.6	23.6	
H322		22.5	23.4	24.3		
AA-2230		23.7	24.4	25.1	25.8	
748	25.0	25.5	26.0	26.5		
BLC-(2)	26.6	27.3	28.0	28.7		
H335	24.1	24.8	25.5	26.2	26.9	27.6
H4895	23.8	24.4	25.0	25.6	26.2	26.8
Varget	24.3	25.1	25.9	26.7		
IMR-4064	24.2	24.8	25.4	26.0		
Energy/ft.lbs.	990	1059	1131	1205	1282	1361

	Powder	Grains	Velocity	Ft. lbs.
Accuracy Load	H335	26.9	3300	1282

Sierra does not recommend MatchKing bullets for hunting applications.

INDICATES MAXIMUM LOAD - USE CAUTION
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

.223 REMINGTON - SIERRA BULLETS

223 Remington (Bolt Action) *continued*

#1345 .224" 55 gr. Blitz
C.O.A.L. 2.250"



#1350 .224" 55 gr. SMP
C.O.A.L. 2.230"



#1355 .224" 55 gr. FMJBT
C.O.A.L. 2.250"



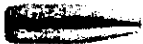
#1360 .224" 55 gr. SPT
C.O.A.L. 2.250"



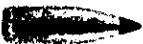
#1365 .224" 55 gr. SBT
C.O.A.L. 2.250"



#1390 .224" 55 gr. HPBT
C.O.A.L. 2.240"



#1455 .224" 55 gr. BlitzKing
C.O.A.L. 2.250"



Powder/Velocity ~	2800	2900	3000	3100	3200	3300
Viht N130	20.5	21.2	21.9	22.6	23.3	24.0
Viht N133	21.4	22.1	22.8	23.5	24.2	24.9
IMR-4198	19.2	19.9	20.6	21.3	22.0	
AA-2015	21.3	22.0	22.7	23.4	24.1	
RE-7		20.1	20.9	21.7	22.5	
H322	22.1	22.7	23.3	23.9		
AA-2230		23.5	24.2	24.9	25.5	
748	23.9	24.6	25.3	26.0		
BLC-(2)	26.0	26.7	27.4	28.1		
H335	23.0	23.9	24.8	25.7	26.6	27.5
H4895	23.1	23.7	24.3	24.9	25.5	26.1
Vargel	23.7	24.5	25.3	26.1	26.9	
IMR-4064	23.6	24.2	24.8	25.4	26.0	
Energy/ft.lbs.	958	1027	1099	1174	1251	1330

	Powder	Grains	Velocity	Ft. lbs.
Accuracy Load	Viht N133	24.2	3200	1251
Hunting Load	H4895	26.1	3300	1330

INDICATES MAXIMUM LOAD - USE CAUTION
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

.223 REMINGTON - SIERRA BULLETS

223 Remington (Bolt Action) *continued*

#1375 .224" 60 gr. HP
C.O.A.L. 2.250"



Powder./Velocity -	2700	2800	2900	3000	3100	3200
Viht N130	19.2	20.1	21.0	21.9	22.8	
Viht N133	20.8	21.6	22.4	23.2	24.0	
IMR-4198	19.0	19.7	20.4	21.1		
AA-2015	20.8	21.6	22.4	23.2		
RE-7	18.8	19.7	20.6	21.5		
H322	21.0	21.8	22.6	23.4		
AA-2230	22.1	22.8	23.5	24.2	24.9	
748	24.2	24.7	25.2	25.7		
BLC-(2)	25.5	26.3	27.1	27.9		
H335	23.1	23.9	24.7	25.5	26.3	27.1
H4895	23.0	23.6	24.2	24.8	25.4	26.0
Varget	23.5	24.3	25.1	25.9	26.7	
IMR-4064	23.6	24.2	24.8	25.4	26.0	
Energy/ft.lbs.	972	1045	1121	1199	1281	1365

	Powder	Grains	Velocity	Ft. lbs.
Accuracy Load	AA-2015	23.2	3000	1199
Hunting Load	Varget	26.7	3100	1281

INDICATES MAXIMUM LOAD - USE CAUTION
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

.223 REMINGTON - SIERRA BULLETS

223 Remington (Bolt Action) continued

#1370 .224" 63 gr. SMP
C.O.A.L. 2.250"



Powder/Velocity -	2600	2700	2800	2900	3000	3100
Viht N130	18.6	19.5	20.4	21.3	22.2	
Viht N133	19.8	20.5	21.2	21.9	22.6	23.3
IMR-4198	18.5	19.0	19.5	20.0	20.5	
AA-2015	19.7	20.6	21.5	22.4	23.3	
RE-7		18.5	19.5	20.5	21.5	
H322	20.3	21.1	21.9	22.7	23.5	
AA-2230		22.0	22.9	23.8	24.7	
748		24.1	24.8	25.5		
BLC-(2)		25.2	26.0	26.8	27.6	
H335		23.2	24.0	24.8	25.6	26.4
H4895	21.8	22.5	23.2	23.9	24.6	25.3
Varget	22.8	23.5	24.2	24.9	25.6	26.3
IMR-4064	22.6	23.3	24.0	24.7	25.4	26.1
Energy/ft.lbs.	945	1020	1097	1177	1259	1345

	Powder	Grains	Velocity	Ft. lbs.
Accuracy Load	RE-7	20.5	2900	1177
Hunting Load	Viht N133	23.3	3100	1345

INDICATES MAXIMUM LOAD - USE CAUTION
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

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MOLTEN 1.5% ANTIMONY LEAD IS POURED INTO JACKET, UNIFYING CORE AND JACKET

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185 GRAIN — .308"
HOT-COR™ BULLET.



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72% RETAINED
WEIGHT, SHOT INTO
BALLISTIC TEST MEDIA

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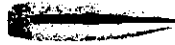
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.223 REMINGTON - SIERRA BULLETS

223 Remington (Bolt Action) *continued*

#1380 .224" 69 gr. HPBT MatchKing
 C.O.A.L. 2.260"
 1 x 8" Twist Remington 600 - 24" barrel



Powder/Velocity -	2600	2700	2800	2900	3000	3100
Viht N130	18.7	19.6	20.5			
Viht N133	19.8	20.8	21.8	22.8		
IMR-4198	18.2	19.1	20.0			
AA-2015	20.0	20.8	21.6	22.4	23.2	
RE-7		19.0	20.1	21.2		
H322	20.0	20.9	21.8	22.7	23.6	
AA-2230		22.2	23.0	23.8	24.6	
748		24.0	24.7	25.4	26.1	
BLC-(2)		25.0	25.8	26.6	27.4	
H335		23.0	23.9	24.8	25.7	
H4895	21.5	22.3	23.1	23.9	24.7	25.5
Varget	19.9	21.2	22.5	23.8	25.1	26.4
IMR-4064	21.9	22.7	23.5	24.3	25.1	25.9
AA-2520	22.0	23.0	24.0	25.0	26.0	
Viht N140	21.4	22.4	23.4	24.4	25.4	26.4
Viht N540	22.5	23.3	24.1	24.9	25.7	26.5
Energy/ft.lbs.	1036	1117	1202	1289	1379	1473

	Powder	Grains	Velocity	Ft. lbs.
Accuracy Load	Viht N540	26.5	3100	1473

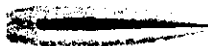
Sierra does not recommend MatchKing bullets for hunting applications.

INDICATES MAXIMUM LOAD - USE CAUTION
 LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

.223 REMINGTON - SIERRA BULLETS

223 Remington (Bolt Action) *continued*

#9390 .224" 80 gr. HPBT MatchKing
 C.O.A.L. 2.550"
 1 x 8" Twist Remington 600 - 24" barrel



Powder/Velocity -	2400	2500	2600	2700	2800	2900
AA-2015	18.8	19.8	20.8	21.8		
H322	18.6	19.6	20.6	21.6	22.6	23.6
AA-2230				22.7	23.6	24.5
748			22.8	23.8	24.8	25.8
BLC-(2)			23.4	24.7	26.0	27.3
AA-2460			22.0	23.0	24.0	25.0
H335				23.4	24.6	25.8
H4895			21.8	22.7	23.6	24.5
AA-2495			21.3	22.5	23.7	24.9
Varget		21.7	22.6	23.5	24.4	25.3
IMR-4064		21.6	22.4	23.2	24.0	24.8
AA-2520			22.8	23.7	24.6	25.5
Viht N540		22.3	23.1	23.9	24.7	25.5
Energy/ft.lbs.	1024	1111	1201	1295	1393	1494

	Powder	Grains	Velocity	Ft. lbs.
Accuracy Load	Varget	24.4	2800	1393

Sierra does not recommend MatchKing bullets for hunting applications.

INDICATES MAXIMUM LOAD - USE CAUTION
 LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

.223 REMINGTON - SPEER BULLETS

The 223 Remington resulted from military development of a new service rifle cartridge. Adopted in February, 1964 as the 5.56mm Ball Cartridge M193, it was introduced as a commercial cartridge by Remington one month earlier.

Based on the 222 Remington case head dimensions, the 223 case is only .060" longer than its parent. However, it has greater powder capacity because the case body was lengthened and the neck shortened. With equivalent bullet weights, the 223 enjoys a 100 to 300 feet/sec velocity advantage. This advantage is due to a combination of the larger case and higher operating pressures.

Almost any military cartridge, once commercialized, is destined to become an immediate success and the 223 was no exception. The ready supply of cases and an excellent selection of 22 caliber bullets has made the 223 one of our most popular cartridges. It has also found wide acceptance as a police cartridge.

Original military and commercial rifles had a 1-in-14 inch rifling twist, later changed to 1-in-12 inches for better long-range stability with the 55 grain service bullet. However, when the military adopted a heavier, 62 grain service round, military rifles were fitted with 1-in-7 inch twist barrels to handle the new bullet. Several commercial makers of semi-automatic rifles followed suit and changed to the faster twist.

Although the fast twist works well with military ammo, handloaders ran into a problem. Most 22 caliber centerfire rifle bullets are of light construction for varmint hunting. When fired at 3200 feet/sec in a 1-in-7 twist rifle, the bullet is rotating at over 300,000 rpm when it leaves the muzzle. This rotation is more than

most varmint bullets can withstand so they are literally ripped apart as they leave the barrel.

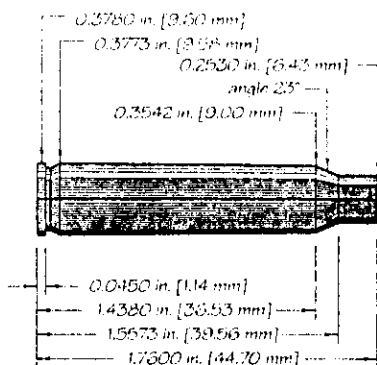
If you have a rifle with the faster 1-in-7 twist, you should limit the muzzle velocity of sporting-type bullets to around 2800 feet/sec. Speer sells a 62 grain FMJ-BT bullet which is a duplicate of the bullet in the new M855 service cartridge. The Speer 70 grain semi-spitzer is also a good bullet in the fast-twist rifles; however, be sure to watch overall length, as the long bullet can stick in the throat if seated too long. Some rifle makers recommend that bullets be crimped if used in their semi-automatic rifles. Three Speer 22 caliber bullets feature a cannelure for easy crimping. The 62 grain FMJ-BT will give mediocre accuracy in 1-in-12 inch barrels, and should be restricted to rifles with 10 inch or faster rifling twists.

The commercial IMI cases used for our tests are built to the same specification as military cases, so load reduction is not required when using surplus military brass with these loads. Remember that military cases have crimped primers. The crimp MUST be removed before repriming.

We have added reduced loads for bullets through 55 grains using Accurate Arms' XMP-5744. This propellant gave exceptionally consistent results at the modest pressures that these loads generate. With the 40 grain bullet, 11 grains of this powder nearly duplicated 22 RF Magnum performance.

The commercial 223 pressure limit is 52,000 cup. These loads do not exceed that limit.

.223 REMINGTON - SPEER BULLETS



Max. Case Length: 1.760" **Test Firearm:** Ruger 77 Mk II
Trim-to Length: 1.750" **Case:** IMI
Max. Cart. Length: 2.260" **Primers:** CCI 400, 450*
RCBS Shellholder: #10
Barrel Length: 22"
Twist: 1-12"



.224" Dia. 40 Grain

Sect. Density .114

	22 Spre-SP					
Ballistic Coefficient	0.144					
C.O.L. Tested At	2.060"					
Speer Part No.	1017					

Powder	Wt. Grs.	Mzl. Vel.	Powder	Wt. Grs.	Mzl. Vel.	Powder	Wt. Grs.	Mzl. Vel.
	30.0C	3557		27.0C	3410		28.0C	3315
748*	28.0	3339	IMR 3031	25.0	3032	BL-C(2)*	26.0	3064
Vht.	25.0C	3486		26.0	3388		25.5C	3297
N133	23.0	3139	H322	24.0	3027	H4895	23.5	2954
AA	25.5	3461		26.0	3361		28.5C	3133
2015BR	23.5	3068	AA 2230	24.0	3062	H335*	26.5	2903
	28.0C	3461		27.0C	3342		20.5	3011
Varget	26.0	3148	Re12	25.0	3030	Re7	18.5	2694
AA	26.5	3445		22.5	3342	Reduced Load	12.0	2134
2460*	24.5	3086	H4198	20.5	2981	XMP 5744	11.0	1990

Notes: Bold print denotes maximum loads. They should be used with caution. C = Compressed Load
* CCI Magnum Primer used with this powder.

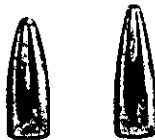
.223 REMINGTON - SPEER BULLETS



**.224" Dia.
45 Grain**

	22 Spitz-SP					
Sect. Density	128					
Ballistic Coefficient	0.167					
C.O.L. Tested At	2.155"					
Speer Part No.	1023					

Powder	Wt. Grs.	Mzl. Vel.	Powder	Wt. Grs.	Mzl. Vel.	Powder	Wt. Grs.	Mzl. Vel.
IMR 4895	27.0C	3404	IMR 3031	27.0C	3337	AA 2230	25.5	3156
	25.0	3098		25.0	3070		23.5	2777
	29.0C	3396		26.0	3275		26.5	3062
748*	27.0	2988	AA 2460*	24.0	2948	Re12	24.5	2817
	28.0C	3387		24.5C	3263		20.0	3059
Varget	26.0	3109	Viht. N133	22.5	2969	Re7	18.0	2814
	23.0	3377		25.0	3260		27.0C	3020
IMR 4198	21.0	3006	AA 2015BR	23.0	2901	H335*	25.0	2688
	26.0	3362		28.0C	3219	Reduced Load XMP	12.0	2091
H322	24.0	2959	BL-C(2)*	26.0	2897	5744	11.0	1949



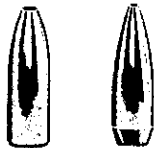
**.224" Dia.
50 Grain**

	22 Spitz-SP	22 TNT-HP				
Sect. Density	142					
Ballistic Coefficient	0.231	0.223				
C.O.L. Tested At	2.185"	2.235"				
Speer Part No.	1029	1030				

Powder	Wt. Grs.	Mzl. Vel.	Powder	Wt. Grs.	Mzl. Vel.	Powder	Wt. Grs.	Mzl. Vel.
	28.5C	3398		26.0C	3284		27.5	3200
748*	26.5	3083	IMR 3031	24.0	2969	BL-C(2)*	25.5	2961
	28.0C	3328		24.5	3266		22.0	3178
AA 2520*	26.0	3178	AA 2015BR	22.5	2951	H4198	20.0	2850
	27.5C	3316		27.0	3262	AA 2230	25.0	3138
Varget	25.5	3034	H335*	25.0	2975		23.0	2847
	27.0C	3313		24.0	3237	IMR 4320	27.0C	3067
IMR 4895	25.0	3028	Viht. N133	22.0	2899		25.0	2796
	26.0	3300		25.5C	3203	Reduced Load XMP	12.0	2047
H322	24.0	3001	H4895	23.5	2871	5744	11.0	1905

Notes: Bold print denotes maximum loads. They should be used with caution. C = Compressed Load
* CCI Magnum Primer used with this powder.

.223 REMINGTON - SPEER BULLETS



**.224" Dia.
52 Grain**

Sect. Density .147	22 HP	22 Match BT-HP				
Ballistic Coefficient	0.225	0.253				
C.O.L. Tested At	2.200"	2.200"				
Speer Part No.	1035	1036				

Powder	Wt. Grs.	Mzl. Vel.	Powder	Wt. Grs.	Mzl. Vel.	Powder	Wt. Grs.	Mzl. Vel.
	28.0C	3448		27.0C	3170		27.0	3062
748*	26.0	3138	Re15	25.0	2790	BL-C(2)*	25.0	2695
	27.0	3276		25.5C	3146	AA	25.0	3056
Varget	25.0	2995	H4895	23.5	2863	2460*	23.0	2750
IMR	26.5C	3202		26.5	3129		20.5	2931
4895	24.5	2850	H335*	24.5	2879	Re7	18.5	2609
IMR	26.0C	3195		24.5	3101	IMR	26.0C	2893
3031	24.0	2876	H322	22.5	2822	4320	24.0	2546
Viht.	24.0	3175	IMR	26.0C	3087	<small>Reduced Load</small> XMP	12.0	2036
N133	22.0	2826	4064	24.0	2840	5744	11.0	1899

Notes: Bold print denotes maximum loads. They should be used with caution. C = Compressed Load
* CCI Magnum Primer used with this powder.

.223 REMINGTON - SPEER BULLETS



**.224" Dia.
55 Grain**

	22 FMJ-BT	22 Spitz-SP	22 SP/Cann			
Sect. Density .157						
Ballistic Coefficient	0.269	0.255	0.241			
C.O.L. Tested At	2.215"	2.175"	2.215"			
Speer Part No.	1044	1047	1049			

Powder	Wt. Grs.	Mzl. Vel.	Powder	Wt. Grs.	Mzl. Vel.	Powder	Wt. Grs.	Mzl. Vel.
	28.0C	3313		27.0C	3187	Viht.	23.5	3091
748*	26.0	2965	AA	25.0	3021	N133	21.5	2775
AA	26.0	3233		24.5	3158	AA	23.5	3026
2230	24.0	3017	H322	22.5	2823	2015BR	21.5	2753
IMR	26.0C	3223	IMR	26.5	3143		21.0	2978
3031	24.0	2976	4064	24.5	2843	H4198	19.0	2693
	27.0	3216		27.0	3138		25.0	2960
Varget	25.0	2969	BL-C(2)*	25.0	2868	Re12	23.0	2711
	25.5C	3194		26.0	3092	<small>Reduced Load</small> XMP	12.0	2022
H4895	23.5	2908	H335*	24.0	2805	5744	11.0	1885

Notes: Bold print denotes maximum loads. They should be used with caution. C = Compressed Load
* CCI Magnum Primer used with this powder.



**.224" Dia.
62 Grain**

Sect. Density .177

**22
FMJ-BT**

NOTE: Recommended only for rifles with 1-in-10 inch or faster twist rates.

Ballistic Coefficient	0.307				
C.O.L. Tested At	2.255"				
Speer Part No.	1050				

Powder	Wt. Grs.	Mzl. Vel.	Powder	Wt. Grs.	Mzl. Vel.	Powder	Wt. Grs.	Mzl. Vel.
AA	26.5C	3025	IMR	25.5C	2942	AA	22.5	2973
2520*	24.5	2875	4064	23.5	2661	2015BR	20.5	2509
AA	24.5	2966		25.5	2945		25.0C	2955
2460*	22.5	2636	748*	23.5	2556	Re15	23.0	2549
Viht.	23.0	2948		25.0	2946	IMR	25.5C	2867
N133	21.0	2646	H335*	23.0	2625	4320	23.5	2568
AA	24.0	2975		24.0	2873		25.0	2907
2230	22.0	2642	H4895	22.0	2539	BL-C(2)*	23.0	2476
IMR	24.5C	2940	Viht.	24.0	2889	IMR	23.5C	2913
4895	22.5	2548	N135	22.0	2590	3031	21.5	2466



**.224" Dia.
70 Grain**

Sect. Density .199

**22 Semi
Spitz-SP**

Ballistic Coefficient	0.214				
C.O.L. Tested At	2.140"				
Speer Part No.	1053				

Powder	Wt. Grs.	Mzl. Vel.	Powder	Wt. Grs.	Mzl. Vel.	Powder	Wt. Grs.	Mzl. Vel.
	27.0	3068	AA	23.5	2778	IMR	24.5	2644
748*	25.0	2824	2460*	21.5	2500	4320	22.5	2450
	28.0	2883	AA	23.0	2715		22.0	2635
H414*	26.0	2658	2230	21.0	2464	Re12	20.0	2476
IMR	24.5C	2826		28.0	2700		23.5	2618
4895	22.5	2628	H380*	26.0	2533	BL-C(2)*	21.5	2450
	24.5	2812	Viht.	22.5	2661	AA	20.0	2555
H335*	22.5	2592	N135	20.5	2425	2015BR	18.0	2328

Notes: Bold print denotes maximum loads. They should be used with caution. C - Compressed Load
* CCI Magnum Primer used with this powder.

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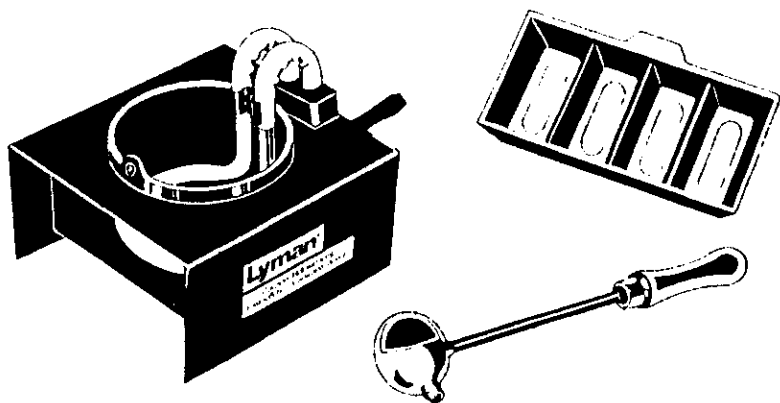
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.223 REMINGTON - LYMAN BULLETS

Reloading Data Introduction:

The data listed in this section have been tested by our technicians and found to be safe when loaded with our test components and fired (under our laboratory controlled conditions) in our testing equipment. Since Lyman Products Corporation has no control over the manufacture of the various components listed, the actual loading, choice or condition of the firearms and components used, no responsibility for use of this data is implied or assumed.

Components:

The reader should bear in mind that the components listed are not of Lyman manufacture. Therefore, it is impossible that production changes affecting ballistic performance can occur at any time without our knowledge. If there is ever a question as to the correctness of the component specified, write to its manufacturer.

Starting Load:

It is essential that the reader begin with the suggested weight of powder listed in this bracket and work up slowly (following load development precautions) to his best performing load. The novice should use only the "starting load" for a period of time until he builds confidence and experience. Never decrease this charge as an increase in pressure could be encountered.

Maximum Load:

All loads which are listed as maximum were tested and classified as maximum by our technicians in accordance with our laboratory standards. Under no circumstances should these loads be exceeded, nor should they be quickly accepted by the reader as a safe working maximum for his particular rifle or pistol.

Many reloaders misinterpret the meaning of the "maximum load." They wrongly assume that if a high pressure load proved safe in a test laboratory then it is equally safe under any and all conditions. This is not true. The reader must start with the "starting load" and work up his load carefully. Working with his particular firearm and component combination, he may encounter signs of excess pressure before he reaches the maximum charge listed.

The technician classifies a load as maximum after carefully considering many aspects of its ballistic performance. The maximum average pressure of the load is not the only criteria. Often a load having an acceptable maximum average pressure will be rejected (or reduced) due to its erratic performance. Accuracy must also be considered, particularly when dealing with cast lead alloy bullets. In all instances, the maximum listing represents what our technicians consider to be the maximum working combination for the bullet, powder and caliber listed. These loads do not exceed SAAMI standards.

Accuracy Loads:

When a load is noted as such in the data tables proper, it means that the given combination of components produced the most uniform internal ballistics of any load tested utilizing that particular bullet design.

.223 REMINGTON - LYMAN BULLETS

Unless noted in "Comments," the accuracy load was not fired at targets. The load, however, does have a high potential—assuming all external factors are optimum—for producing outstanding accuracy since uniform internal ballistics are critical to accuracy on target. You cannot have one without the other.

Test Parameters:

Velocities shown were taken at fifteen feet and not corrected to the muzzle.

Each test string began with a clean dry barrel and consisted of ten shots.

Loads exhibiting erratic internal ballistics were not pursued.

We had no problem with leading in any of our testing.

Bullets:

Bullet numbers are listed in the introductory specifications for each cartridge and in the headline above the appropriate data block—along with an illustration of that particular bullet.

Please note these bullets are artists' rendering. Comparing your bullet against the drawing could reveal minor differences. Furthermore, minor changes are sometimes made to bullets. These drawings, which appear throughout the data sections, are for general reference only and are not intended to be a precise representation.

Bullet alloy is noted as is the exact weight of each tested bullet.

Not all cast bullets within a given caliber are intended to perform equally. We have used them in the most appropriate chamberings.

Powders:

We have limited our testing to those powders which are manufactured in the United States and which are readily available to the consumer. The following brands are listed: Dupont (now IMR), Winchester, Hercules, Alcan, Hodgdon and Gearhart-Owen.

Compressed Loads:

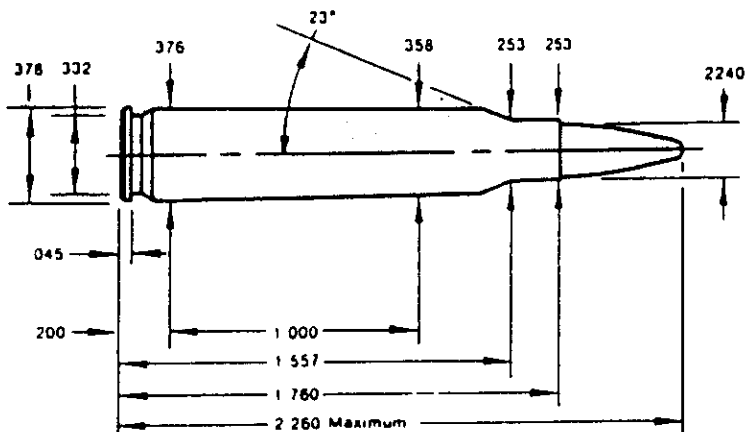
All compressed loads are indicated with a +. Depending upon the volume of the specific cartridge case used by the reader, he may, or may not, have difficulty starting bullets in such loads. If the bullet will not start, reduce the load sufficiently so that 1/10" of space remains in the case neck. Start the bullet into the case and use whatever additional pressure is required to fully seat the bullet. Failure to comply could result in a bulged case.

Filler Wads:

Dacron filler wads in the form of 1/4-inch thick batting were used in conjunction with cast bullet loads, where indicated. This material can be purchased in most yard-goods stores. It should be cut into squares, which seal the case.

When developing a load, if a wad is desired, its should be used from the beginning as the charge weight is increased. It should never be added as an afterthought, once a maximum load has been established, since its presence could result in a pressure increase of 2,000 CUP or more.

.223 REMINGTON - LYMAN BULLETS



COMMENTS:

This is the current official cartridge of our armed forces. It is extremely accurate when fired in a suitable rifle and has a good range capability for varmint hunting.

Propellant choice can include numerous types which all deliver balanced accuracy and velocity. However if forced to suggest the most likely candidate we would pick Hodgdon's H335 with jacketed bullets. Match bullets will be needed to get the very best results.

Always use bullets with a cannelure and crimp the cases to them when assembling ammo to be used in a semi-automatic rifle.

Our favorite load for this cartridge is a 52 grain Sierra boat tail hollow point with 27.0 grains of H335.

Cast bullet accuracy is often best at velocities of 2,000 fps to 2,300 fps. Best of all was bullet #225646 at about 2,100 fps.

Rifles with fast twist rates (1-8") will do best with bullets of 60 grains and heavier while rifles with the standard twist (1-14") will do best with bullets of 60 grains or less.

.223 REMINGTON - LYMAN BULLETS



#225107

37 gr., (#2 Alloy) 1.992" OAL

POWDER	Sugg. Starting Grains	Velocity fps	Pressure C.U.P.	Max. Load Grains	Velocity fps	Pressure C.U.P.
Red Dot	6.0	2060	23,400	9.5	2590	40,700
700X	6.0	2065	24,600	8.5	2460	39,900
Green Dot	6.5	2075	22,200	9.5	2560	36,000
PB	6.5	2005	21,600	9.0	2400	36,400
Unique	7.0	2070	19,200	10.0	2690	33,500
SR-7625	7.0	2060	22,200	9.5	2460	37,700
630	10.0	2195	19,200	12.5	2530	24,600



#225438

41 gr., (#2 Alloy) 2.034" OAL

POWDER	Sugg. Starting Grains	Velocity fps	Pressure C.U.P.	Max. Load Grains	Velocity fps	Pressure C.U.P.
Red Dot	5.7	1870	22,800	9.2	2370	40,700
700X	5.8	1875	24,000	8.2	2245	41,100
Green Dot	6.3	1905	22,800	9.3	2335	37,700
PB	6.5	1860	23,400	9.2	2250	40,300
Unique	7.0	1945	21,000	10.0	2530	36,400
SR-7625	6.8	1895	24,600	9.3	2260	40,300
630	10.0	2120	20,400	12.5	2430	27,000
**SR-4759	12.0	1878	18,100	15.0	2612	31,400
**748	22.0	2578	24,300	26.2	2809	28,400
**IMR-4895	21.0	2337	24,800	23.5	2675	28,200

Note: Loads shown in shaded panels are maximum.

** Signifies Remington cases and CCI 450 primers used.

.223 REMINGTON - LYMAN BULLETS



#225415

45 gr., (#2 Alloy) 2.060" OAL

POWDER	Sugg. Starting Grains	Velocity fps	Pressure C.U.P.	Max. Load Grains	Velocity fps	Pressure C.U.P.
Red Dot	5.6	1795	23,400	9.0	2280	40,700
700X	5.6	1790	23,400	7.7	2080	39,400
Green Dot	6.2	1855	23,400	9.2	2270	39,000
PB	6.3	1775	24,000	8.7	2120	39,400
Unique	6.8	1900	20,400	9.5	2300	35,000
SR-7625	6.6	1820	24,000	8.8	2120	39,900
**SR-4759	12.0	1853	18,200	16.0	2640	35,900



#225462

54 gr., (#2 Alloy) 2.090" OAL

POWDER	Sugg. Starting Grains	Velocity fps	Pressure C.U.P.	Max. Load Grains	Velocity fps	Pressure C.U.P.
Red Dot	5.4	1675	22,800	8.6	2100	40,700
700X	5.4	1680	25,200	7.5	1970	39,000
Green Dot	6.0	1735	23,400	8.8	2110	38,100
PB	6.1	1675	24,000	8.5	1980	40,300
Unique	6.7	1805	22,000	9.0	2110	30,000
SR-7625	6.4	1715	25,800	8.3	1950	39,400
**H110	13.7	2120	23,700	18.0	2699	41,600
**SR-4759	11.3	1762	20,700	17.7	2611	43,600
**748	19.8	1902	21,600	26.0	2697	32,000

Note: Loads shown in shaded panels are maximum.

** Signifies CCI 450 primers used.

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.223 REMINGTON - RCBS BULLETS

Gun: Colt Coltsman
Barrel: 24"
Twist: 1-12
Cases: W-W
Primers: CCI 400, *450

Wt. 57 GR.
Dia. .224"
Lube: Rifle

22-055-FN



POWDER	WT. IN GRAINS	MUZ VEL	POWDER	WT. IN GRAINS	MUZ VEL
748	*19.0	2136	SR	12.0	2052
	*17.0	1927	4759	10.0	1741
BLC2	*15.0	2085	Green Dot	8.6	2090
	*13.0	1797		7.2	1837
IMR 4198	14.0	2132	Unique	8.5	2158
	12.0	1831		7.5	1911
Red Dot	8.6	2089	SR	8.3	1932
	6.6	1847	7625	6.3	1682
PB	8.5	1977	700X	7.5	1992
	6.5	1641		5.5	1711

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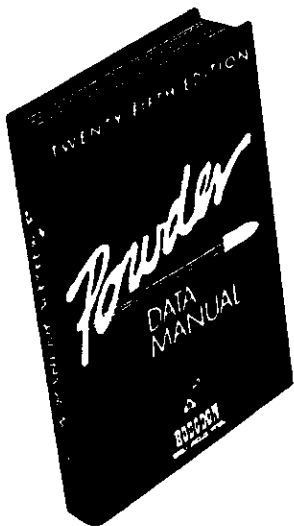
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.223 REMINGTON - HODGDON POWDERS

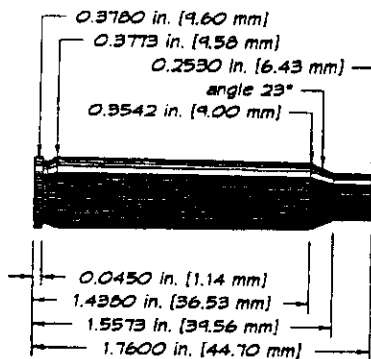
223 REMINGTON

Also known as the 5.56mm NATO, the 223 Remington was also known in various stages of development as the 222 Special, beating out the 224 Winchester and 224 Springfield to become the standard U.S. military cartridge of record.

With all the time and money spent in the development stages, the 223 Remington is one of the few government boondoggles that actually turned out fairly well. In short, the 223 Remington shoots well with just about any reasonable powder charge and bullet the handloader cares to stuff in the case. More recently, with a quicker rifling twist to stabilize heavier (longer) .224 inch bullets, the 223 Remington has made a name for itself at 600 yard competition in Australia and North America, much to the chagrin of a few high-power shooters who thought the 308 Winchester couldn't be beat at its own game.

Because of the variations in case capacity from one brand of brass to the next, it is good practice to choose one brand and stick with it in developing loads. Military brass has a crimped primer, and the primer pocket requires swaging or trimming prior to reloading. As a rule, domestic brass from Remington, Winchester, Speer or Federal is the best choice.

• • •



WINCHESTER
24"

WINCHESTER SR

1:12"
1.750"

.223 REMINGTON - HODGDON POWDERS

Powder	Starting Loads			Maximum Loads		
	Grs.	Vel.	Pressure	Grs.	Vel.	Pressure

223 REMINGTON

Case: WINCHESTER

Twist: 1:12"

Barrel: 24"

Trim: 1.750"

Primer: WINCHESTER SR

Bullet: 40 GR. NOS BT				Dia.: .224" COL: 2.280"		
VARGET	25.0	3310	34,400 CUP	28.0 C	3674	47,200 CUP
BL-C(2)	26.5	3368	35,400 CUP	28.5	3612	45,400 CUP
H335	26.0	3299	34,400 CUP	28.0	3572	44,600 CUP
H4895	25.0	3204	32,100 CUP	27.5 C	3573	44,500 CUP
BENCHMARK	25.3	3404	39,600 CUP	27.3	3666	51,000 CUP
H322	23.5	3376	34,600 CUP	25.5	3574	48,000 CUP
H4198	20.5	3147	29,400 CUP	22.5	3601	49,600 CUP

Bullet: 45 GR. SIE SP				Dia.: .224" COL: 2.240"		
VARGET	25.0	3071	30,200 CUP	28.0 C	3477	43,700 CUP
BL-C(2)	26.5	3266	36,000 CUP	28.5	3559	48,000 CUP
H335	24.0	3280	41,500 CUP	26.2	3456	51,000 CUP
H4895	25.0	3211	33,800 CUP	27.5 C	3454	43,400 CUP
BENCHMARK	25.3	3327	41,100 CUP	27.3	3554	51,100 CUP
H322	23.0	3164	36,000 CUP	25.0	3424	47,400 CUP
H4198	20.0	3009	28,800 CUP	22.0	3472	49,100 CUP

Bullet: 50 GR. SPR SP				Dia.: .224" COL: 2.210"		
VARGET	26.5	3242	40,800 CUP	27.5 C	3383	44,800 CUP
BL-C(2)	26.0	3187	34,200 CUP	28.0	3428	47,100 CUP
H335	24.0	3166	43,000 CUP	26.0	3393	51,700 CUP
H4895	25.0	3200	38,300 CUP	27.5 C	3468	51,300 CUP
BENCHMARK	24.0	3139	38,600 CUP	26.5	3396	50,400 CUP
H322	22.0	3018	36,500 CUP	24.0	3301	49,300 CUP
H4198	19.5	3023	32,400 CUP	21.5	3223	45,900 CUP

Bullet: 53 GR. SIE HP				Dia.: .224" COL: 2.200"		
VARGET	24.0	3026	38,400 CUP	27.0 C	3389	47,900 CUP
BL-C(2)	26.0	3090	36,600 CUP	28.0	3328	47,600 CUP
H335	24.0	3060	44,100 CUP	26.0	3300	52,000 CUP
H4895	25.0	3166	37,400 CUP	27.0 C	3383	48,600 CUP
BENCHMARK	24.0	3102	39,900 CUP	26.0	3308	49,800 CUP
H322	21.5	2912	39,200 CUP	23.5	3183	48,900 CUP
H4198	19.5	2986	34,200 CUP	21.5	3188	46,700 CUP

.223 REMINGTON - HODGDON POWDERS

Powder	Starting Loads			Maximum Loads		
	Gr.	Vel.	Pressure	Gr.	Vel.	Pressure
Bullet: 55 GR. SPR SP				Dia.: .224" COL: 2.200"		
VARGET	25.5	3174	41,300 CUP	27.5 C	3384	49,700 CUP
BL-C(2)	25.5	3069	37,200 CUP	27.5	3313	48,500 CUP
H335	23.0	3018	40,800 CUP	25.3	3203	49,300 CUP
H4895	25.0	3176	39,700 CUP	26.0	3315	49,000 CUP
BENCHMARK	24.0	3113	42,600 CUP	25.6	3264	50,000 CUP
H322	21.0	2841	38,600 CUP	23.0	3106	48,900 CUP
H4198	19.0	2841	34,800 CUP	21.0	3150	47,600 CUP
Bullet: 63 GR. SIE SP				Dia.: .224" COL: 2.200"		
VARGET	24.5	3000	42,400 CUP	26.4	3199	50,700 CUP
BL-C(2)	24.0	2847	36,600 CUP	26.0	3054	46,300 CUP
H335	22.5	2820	41,000 CUP	25.0	3051	50,000 CUP
H4895	23.5	2831	43,300 CUP	25.5	3078	50,000 CUP
BENCHMARK	22.0	2845	41,800 CUP	24.2	3066	50,500 CUP
H322	20.0	2672	38,100 CUP	22.0	2862	48,400 CUP
H4198	18.0	2680	33,600 CUP	20.0	2846	44,600 CUP
Bullet: 70 GR. SPR SP				Dia.: .224" COL: 2.200"		
VARGET	23.5	2827	41,000 CUP	26.0	3024	48,400 CUP
BL-C(2)	24.5	2774	41,700 CUP	26.5	2954	50,800 CUP
H335	21.0	2520	34,500 CUP	23.5	2867	47,900 CUP
H4895	23.0	2782	40,400 CUP	25.0	2997	50,500 CUP
BENCHMARK	20.5	2665	45,200 CUP	22.8	2869	51,000 CUP
H322	19.0	2515	37,500 CUP	23.0	2962	51,200 CUP
Bullet: 75 GR. JLK VLD				Dia.: .224" COL: 2.250"		
VARGET	22.5	2693	40,600 CUP	25.0	2907	48,400 CUP
BL-C(2)	23.0	2646	39,800 CUP	26.0	2858	49,500 CUP
H335	21.0	2624	41,300 CUP	23.0	2814	50,000 CUP
H4895	22.5	2696	39,900 CUP	24.5	2905	50,000 CUP
BENCHMARK	21.5	2610	41,900 CUP	23.5	2829	49,400 CUP
H322	20.0	2594	40,700 CUP	22.0	2785	48,100 CUP

NEVER EXCEED MAXIMUM LOADS.

.223 REMINGTON - HODGDON POWDERS

Powder	Starting Loads			Maximum Loads		
	Gr.	Vel.	Pressure	Gr.	Vel.	Pressure

Bullet: 77 GR. SIE HPBT Dia.: .224" COL: 2.260"

VARGET	21.0	2528	42,700 CUP	23.7 C	2737	50,700 CUP
BL-C(2)	23.0	2640	42,500 CUP	24.9	2804	50,700 CUP
H335	21.0	2582	44,400 CUP	22.6	2738	51,700 CUP
H4895	20.0	2474	40,300 CUP	22.6 C	2727	50,200 CUP
BENCHMARK	20.5	2523	27,400 CUP	22.8	2763	50,000 CUP
H322	20.0	2578	44,900 CUP	21.8	2721	50,900 CUP

Bullet: 80 GR. SIE MK Dia.: .224" COL: 2.550"

VARGET	22.0	2547	40,300 CUP	25.0	2869	51,500 CUP
BL-C(2)	23.0	2576	39,700 CUP	25.5	2768	49,400 CUP
H335	20.0	2453	39,700 CUP	22.5	2744	50,000 CUP
H4895	21.5	2578	40,100 CUP	24.0	2825	50,000 CUP
BENCHMARK	20.5	2525	43,900 CUP	22.5	2700	49,600 CUP
H322	20.0	2546	40,700 CUP	22.0	2744	49,000 CUP

NEVER EXCEED MAXIMUM LOADS.

Introduction

There has been a re-evaluation of the criteria for selecting data for inclusion. This means there will be some disagreement with previous data. The data in this guide takes precedence over all prior publications. *Previous editions of this loading guide should be discarded.*

For instance, we left out load combinations that were 'position sensitive'. This is what occurs when the load density is low. Velocity with the powder at the bullet is different from the velocity with the powder at the primer. More of these were noted with the ball propellants than with the extruded propellants.

In light of the growth of IPSC shooting, 38 Super Auto loads that make the 'major' classification (bullet weight x velocity = 175,000) are identified. While we have tested many combinations of components in 9mm Luger to attempt to meet 'major' requirements, we have not been able to find a load that makes the power floor for 'major' without exceeding SAAMI pressure recommendations. And while we were able to find loads for 38 Super Auto, they were not with lighter bullets. Turn to the data section for specific details.

In the charge tables, the 'START' charge listed for each load is our suggested beginning point with the components listed. There is the possibility that changing the named components could cause the maximum charge to be excessive, thus a reduction of the charge would be necessary. Some batches of military brass may require reducing the maximum charge by 8-12% to keep chamber pressure in line.

If you find signs of excessive pressure while using loads in this loading guide, STOP TESTING and verify all data and loading procedures. If they seem to be in order, check with our lab facility before proceeding.

Charge weights were obtained using industry standard pressure barrels. When time permitted, off-the-shelf weapons were used to obtain velocity figures. The guns used are noted.

In reloading, the prime concern should always be SAFETY. **Always** wear eye protection when reloading, even when working with the 'non-volatile' components. **Always** keep the reloading area clean. **Never** have more than one propellant within easy reach at any given time. Avoid having similar looking bullets of different weights on the bench at the same time. Read the safety notes before loading.

We have not found magnum primers to offer any particular advantage with our handgun powders. But, there are some rifle cartridges where they were used.

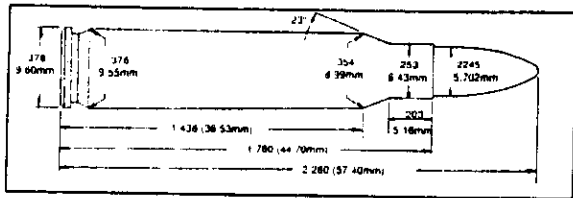
Handgun loads using the slower powders (No.7, No.9, and 1680) require heavy crimp and high bullet pull to insure consistency - particularly with cast bullet loads or in extremely cold weather. Be sure your dies are capable of this, otherwise the consistency of the load will be affected.

In the text, bullet weights for cast bullets - identified by (L) are actual weights, not the nominal weights.

.223 REMINGTON - ACCURATE POWDERS

.223 REMINGTON

In 1964 the .223 Remington was adopted as the 5.56mm Ball Cartridge M193, the new U.S. Military rifle cartridge. The .223 Remington is the commercial version of the 5.56mm. Several variations in chamber dimensions, principally in the chamber throat, have occurred since the 5.56 cartridge was adopted,



the latest version to accommodate the heavier SS109 projectile.

The data presented here was developed in a barrel chambered to commercial .223 Remington specifications and this data may be used in firearms with military specification chambers. SAAMI has cautioned that some 5.56 ammo will produce excessive pressures when fired in rifles chambered for the .223 Remington cartridge.

Adoption as a U.S. military cartridge virtually guarantees commercial acceptance due to the availability of surplus components. However, the .223 Remington is an excellent varmint cartridge on its own merits. The military cases may be substantially heavier than the commercial products, and loads using military brass should be reduced at least 10%.

In the arena of NRA High Power Rifle competition, and particularly in the Service Rifle category, more and more AR-15 rifles are being used. We have included data for the 69 and 80 grain bullets for those shooters.

The .223 Remington was derived from the .222 Remington Magnum and will chamber in firearms of that caliber. The danger of cartridge case rupture due to excessive head space is real, and owners of firearms chambered for both these cartridges are advised to exercise extreme caution.

The SAAMI Maximum Average Pressure for the .223 Remington is 52,000 C.U.P. or 55,000 PSI.

.223 REMINGTON

Gun	WILSON	Max Length	1.760"
Barrel Length	24"	Trim Length	1.740"
Primer	REM 7 $\frac{1}{2}$	OAL Max	2.260"
Case	REM	OAL Min	2.160"

Bullet	START LOADS			MAXIMUM LOADS			C.U.P.	Length	Cartridge Comment
	Powder	Grains	Vel	Powder	Grains	Vel			
44 (L) RNGC	5744	--	--	5744	11.0	1978	14,800**	2.040"	LY 224438
52 (L) RNGC	5744	--	--	5744	12.0	2078	19,500**	2.045"	Lyman

.223 REMINGTON - ACCURATE POWDERS

.223 REMINGTON (continued)

Bullet	START LOADS			Powder	MAXIMUM LOADS			C.U.P.	Length	Cartridge Comment
	Powder	Grains	Vel.		Grains	Vel.				
HDY 35 VMAX	1680	19.3	3235	1680	21.5	3677	51,100**	2.130*		
	5744	20.0	3234	5744	22.0	3675	52,900**			
	2015	23.4	3356	2015	26.0	3814	52,400**			
	2230	26.5	3471	2230	29.5	3945	47,300**			
NOS 40 BT	5744	19.3	3087	5744	21.5	3509	54,000**	2.260*		
	1680	20.2	3199	1680	22.5	3636	49,000			
	2015	23.8	3296	2015	26.5	3746	51,900			
	2230	24.7	3202	2230	27.5	3639	50,800			
	2460	25.2	3234	2460	29.0	3675	51,000			
	2495	23.8	3089	2495	26.5	3511	44,400		Compressed	
	2520	25.6	3106	2520	28.5	3530	41,900		Compressed	
NOS 45 SP	1680	18.5	2906	1680	20.5	3302	48,200	2.115*		
	2015	23.4	3120	2015	26.0	3546	49,100			
	2230	24.3	3041	2230	27.0	3456	50,500			
	2460	24.8	3059	2460	27.5	3476	49,300			
	2495	23.9	3023	2495	26.5	3435	47,000		Compressed	
	2520	25.7	3013	2520	28.5	3424	42,000		Compressed	
SPR 50 HP 'TNT'	5744	18.5	2799	5744	20.5	3181	52,200**	2.235*		
	1680	18.5	2768	1680	20.5	3146	47,900			
	2015	23.0	2981	2015	25.5	3387	46,400			
	2230	23.4	2941	2230	26.0	3342	49,800			
	2460	23.4	2930	2460	26.0	3329	47,100			
	2495	23.9	2888	2495	26.5	3282	44,400		Compressed	
	2520	25.7	2944	2520	28.5	3346	42,200		Compressed	
BRG 52 HP	2015	21.2	2913	2015	23.6	3311	54,500**	2.250*		
	2230	22.0	2951	2230	24.5	3354	55,000**			
	2460	22.8	2933	2460	25.3	3334	55,000**			
	2520	25.2	2960	2520	28.0	3364	50,000**		Compressed	
HDY 53 HP 'Match'	5744	17.5	2680	5744	19.5	3046	53,100**	2.225*		
	1680	18.0	2681	1680	20.0	3047	49,600			
	2015	22.1	2876	2015	24.5	3268	47,800			
	2230	23.4	2862	2230	26.0	3252	49,900			
	2460	23.0	2846	2460	25.5	3234	47,300			
	2495	23.4	2874	2495	26.0	3266	48,800		Compressed	
	2520	24.8	2847	2520	27.5	3235	43,200		Compressed	
NOS 55 SPBT	5744	17.5	2665	5744	19.5	3029	54,300**	2.230*		
	1680	18.5	2691	1680	20.5	3058	50,000			
	2015	22.5	2887	2015	25.0	3281	49,800			
	2230	23.4	2830	2230	26.0	3216	50,300			
	2460	23.9	2843	2460	26.5	3231	49,200			
	2495	23.6	2878	2495	26.2	3271	51,100		Compressed	
	2520	24.8	2837	2520	27.5	3224	43,300		Compressed	
HDY 60 SP	2015	21.6	2752	2015	24.0	3127	49,100	2.235*		
	2230	22.1	2717	2230	24.5	3087	49,200			
	2460	22.7	2706	2460	25.2	3075	49,400			
	2495	22.2	2680	2495	24.7	3046	46,300			
	2520	24.8	2776	2520	27.5	3154	45,600		100% Density Compressed	

.223 REMINGTON - ACCURATE POWDERS

Bullet	START LOADS			Powder	MAXIMUM LOADS			Length	Cartridge Comment
	Powder	Grains	Vel		Grains	Vel	C U P		
BRG 62 HP	2015	20.2	2668	2015	22.5	3032	55,000**	2.250"	Full Case
	2230	21.3	2677	2230	23.7	3043	54,600**		
	2460	21.9	2691	2460	24.3	3058	55,000**		
	2520	23.4	2728	2520	26.0	3101	55,000**		
BRG 64 HP	2015	19.8	2616	2015	22.0	2973	55,000**	2.250"	Full Case
	2230	21.1	2618	2230	23.4	2976	54,300**		
	2460	21.6	2624	2460	24.0	2982	53,100**		
	2520	23.4	2709	2520	26.0	3079	55,000**		
SRA 69 HPBT	2015	20.7	2567	2015	23.0	2917	48,400	2.250"	
	2230	22.1	2578	2230	24.5	2929	51,300		
	2460	22.2	2632	2460	24.7	2991	51,800		
	2495	22.5	2608	2495	25.0	2964	49,800		
	2520	24.3	2679	2520	27.0	3044	48,200		
BRG 70 VLD	2015	18.9	2522	2015	21.0	2867	54,200**	2.250"	Full Case
	2230	20.9	2539	2230	23.2	2886	54,700**		
	2460	22.0	2578	2460	24.5	2930	54,900**		
	2520	23.4	2596	2520	26.0	2951	53,200**		
HDY 75 HPBT	2015	19.3	2438	2015	21.5	2771	51,800	2.255"	
	2230	21.6	2503	2230	24.0	2845	50,800		
	2460	22.0	2507	2460	24.5	2849	49,700		
	2520	22.9	2573	2520	25.5	2924	51,800		
SRA 80 HPBT	2015	19.8	2382	2015	22.0	2707	49,000	2.450"	
	2230	21.2	2424	2230	23.5	2754	49,100		
	2460	21.6	2453	2460	24.0	2788	49,500		
	2495	21.2	2453	2495	23.5	2788	51,600		
	2520	22.5	2460	2520	25.0	2796	49,700		
BRG 80 VLD	2015	18.7	2317	2015	20.8	2633	54,400**	2.340"	
	2230	20.2	2342	2230	22.5	2662	54,600**		
	2460	20.7	2336	2460	23.0	2655	53,600**		
	2520	22.3	2412	2520	24.8	2741	55,000**		
Subsonic Loads***									
IMI 55 FMJ	S1250	--	--	S1250	3.5	1139	13,500**	2.230"	
HDY 60 SP	S1250	--	--	S1250	4.2	1111	19,100**	2.235"	
HDY 75 HPBT	S1250	--	--	S1250	4.5	1052	22,100**	2.255"	

* Over SAAMI Maximum OAL

** Data in P.S.I.

*** Subsonic loads will not operate M-16 or AR-15 rifles.

.223 REMINGTON - ALLIANT POWDERS

ALLIANT

CASE: FEDERAL

BARREL: 24"

PRIMER: FEDERAL 205M

BULLET: 45 GR. SPR SP	DIA. .224"	C.O.L. 2.210"	
RELODER 15	28.5	3635	53,500 PSI
RELODER 12	28.0	3470	52,800 PSI
RELODER 7	21.8	3375	53,200 PSI

BULLET: 50 GR. HDY SP	DIA. .224"	C.O.L. 2.250"	
RELODER 12	27.0	3335	52,300 PSI
RELODER 7	21.5	3195	53,000 PSI

ALLIANT CONTINUED

POWDER	STARTING LOADS			MAXIMUM LOADS		
	GRS.	VEL.	PRESSURE	GRS.	VEL.	PRESSURE
BULLET: 52 GR. SIE HPBT				DIA. .224"		C.O.L. 2.250"
RELODER 15				28.3	3440	53,100 PSI
RELODER 12				27.5	3310	52,700 PSI
RELODER 7				20.9	3165	53,300 PSI
BULLET: 55 GR. HDY MJBT				DIA. .224"		C.O.L. 2.215"
RELODER 15				28.0	3390	53,600 PSI
RELODER 12				27.5	3255	52,200 PSI
RELODER 7				20.5	3080	52,400 PSI
BULLET: 60 GR. HDY SP				DIA. .224"		C.O.L. 2.250"
RELODER 15				26.5	3240	53,000 PSI
RELODER 12				25.5	3070	53,300 PSI
BULLET: 68 GR. HDY BTHP				DIA. .224"		C.O.L. 2.260"
RELODER 15				25.6	3030	52,800 PSI
RELODER 12				24.0	2935	56,600 PSI
BULLET: 75 GR. HDY BTHP				DIA. .224"		C.O.L. 2.260"
RELODER 15				24.9	2895	53,400 PSI
BULLET: 80 GR. SIE HPBT				DIA. .224"		C.O.L. 2.260"
RELODER 15				24.0	2800	53,000 PSI

NEVER EXCEED MAXIMUM LOADS.

.223 REMINGTON - IMR POWDERS

IMR

CASE: REMINGTON

BARREL: 24"

PRIMER: REMINGTON 7 1/2

BULLET: 45 GR. SIE SP

DIA. .224"

C.O.L. 2.190"

IMR 4320	27.5 C	3200	45,100 CUP
IMR 4895	26.5 C	3280	45,900 CUP
IMR 3031	25.5 C	3300	42,200 CUP
IMR 4198	22.0	3360	50,300 CUP

BULLET: 50 GR. SIE SP

DIA. .224"

C.O.L. 2.260"

IMR 4320	27.5 C	3200	48,300 CUP
IMR 4064	25.5 C	3150	44,200 CUP
IMR 4895	25.5 C	3270	48,800 CUP
IMR 3031	25.5 C	3225	45,300 CUP
IMR 4198	22.0	3270	51,900 CUP

IMR CONTINUED

POWDER	STARTING LOADS			MAXIMUM LOADS		
	GRS.	VEL.	PRESSURE	GRS.	VEL.	PRESSURE

BULLET: 55 GR. HDY SP

DIA. .224"

C.O.L. 2.260"

IMR 4320	27.0 C	3075	50,300 CUP
IMR 4064	25.5 C	3090	49,200 CUP
IMR 4895	26.0	3120	51,100 CUP
IMR 3031	25.0 C	3165	50,900 CUP
IMR 4198	21.5	3100	52,000 CUP

NEVER EXCEED MAXIMUM LOADS.

.223 REMINGTON - SCOT POWDERS

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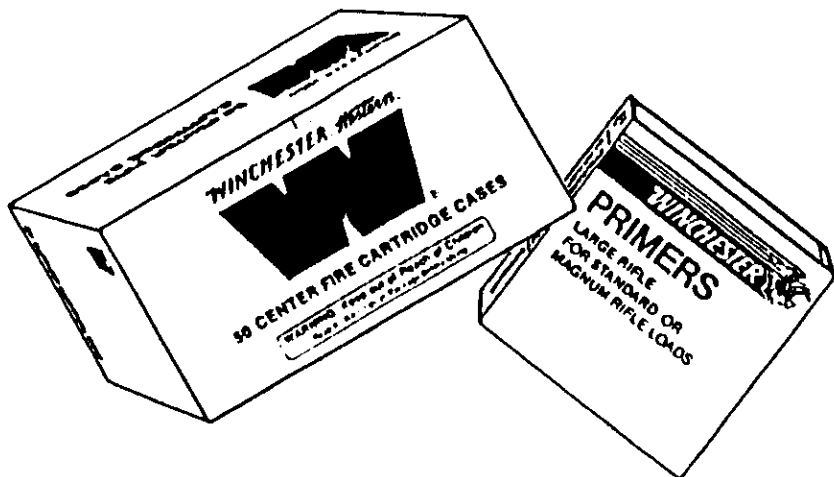
<i>Powder Charge</i>	<i>Bullet Weight & Type</i>	<i>Muzzle Velocity</i>
25.0 grains	45 grain FMJ	3,120 fps
27.0 grains	45 grain FMJ	3,330 fps
24.0 grains	50 grain FMJ	2,853 fps
26.0 grains	50 grain FMJ	3,253 fps
23.5 grains	55 grain FMJ	2,760 fps
25.5 grains	55 grain FMJ	3,140 fps
22.5 grains	63 grain FMJ	2,520 fps
24.5 grains	63 grain FMJ	2,929 fps

4 1 9 7

<i>Powder Charge</i>	<i>Bullet Weight & Type</i>	<i>Muzzle Velocity</i>
22.5 grains	45 grain FMJ	2,880 fps
24.5 grains	45 grain FMJ	3,290 fps
21.5 grains	50 grain FMJ	2,780 fps
23.5 grains	50 grain FMJ	3,178 fps
21.0 grains	55 grain FMJ	2,680 fps
23.0 grains	55 grain FMJ	3,050 fps
20.5 grains	63 grain FMJ	2,480 fps
22.5 grains	63 grain FMJ	2,886 fps

= WARNING =

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Winchester's patented smokeless, clean-burning BALL POWDER propellants are free-flowing for precise metering and chemically stable for consistent muzzle velocity, and reduced flash and barrel erosion.

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When selecting reloading supplies, be sure to look for the following finest quality Winchester components.

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WLR, #8-1/2 - 120, Large Rifle

WLRM, #8-1/2M - 120, Large Rifle Magnum

WSR, #6-1/2 - 116, Small Rifle

BALL POWDER Propellants

680 Powder, 1 Lb. Container

748 Powder, 1 and 8 Lb. Containers

760 Powder, 1 and 8 Lb. Containers

Unprimed Rifle

U218	218 Bee	U300H	300 H&H Mag.
U22H	22 Hornet	U300	300 Savage
U22250	22-250 Rem.	U307	307 Win.
U220S	220 Swift	U308	308 Win.
U223R	223 Rem.	U3220	32-20 Win.
U225	225 Win.	U338	338 Win. Mag.
U243	243 Win.	U348	348 Win
U6MMR	6mm Rem.	U356	356 Win.
U2520	25-20 Win.	U358	358 Win.
U2506	25-06 Rem.	U375H	375 H&H Mag.
U257P	257 Roberts + P	U375W	375 Win.
U264	264 Win. Mag.	U4440	44-40 Win.
U270	270 Win.	U44M	44 Rem. Mag.
U284	284 Win.	U4570	45-70 Govt.
U7MM	7mm Mauser	U458	458 Win. Mag.
U3006	30-06 Springfield		
U3040	30-40 Krag		
U300WM	300 Win. Mag.		



.223 REMINGTON - WINCHESTER POWDERS

WINCHESTER

CASE: WINCHESTER

BARREL: 24"

PRIMER: WINCHESTER SR

BULLET: 50 GR. WIN PSP

DIA. .224"

C.O.L. 2.260" MAX

748

26.0

3200 40,000 CUP

BULLET: 53 GR. WIN HP

DIA. .224"

C.O.L. 2.260" MAX

748

26.0

3200 43,500 CUP

BULLET: 55 GR. WIN PSP

DIA. .224"

C.O.L. 2.260" MAX

748

26.3

3150 39,000 CUP

BULLET: 62 GR. WIN FMJ

DIA. .224"

C.O.L. 2.260" MAX

748

25.5

2985 49,200 CUP

BULLET: 69 GR. HPBT

DIA. .224"

C.O.L. 2.260" MAX

748

24.5

2870 51,500 PSI

NEVER EXCEED MAXIMUM LOADS.

.223 REMINGTON - VIHTAVUORI POWDERS

.223 Remington

TEST COMPONENTS:

Test barrel: 620 mm (25"), 1 in 12" twist, manufactured to meet CIP minimum dimensions.

Primers: Small Rifle

Cases: LAPUA, trim-to length 44.50 mm (1.752")

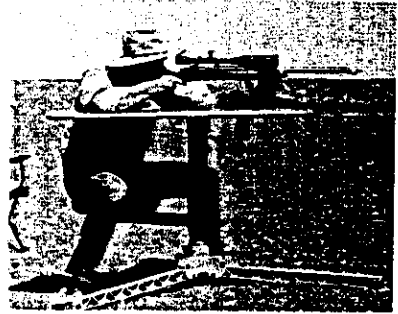
Reloading Data, English Units:

Weight (grs)	Bullet		C.O.L. (in.)	Powder Type	Starting Load		Maximum Load		
	Type	Mfg.			Weight (grs)	Velocity (fps)	Weight (grs)	Velocity (fps)	Pressure (psi)
40	Spire Point	Speer	2.075	N120	22.4	3373	24.0	3640	max.
				N130	24.4	3399	26.3	3685	max.
				N133	25.0	3347	26.8	3615	55100
45	Spitzer	Speer	2.126	N120	21.7	3187	23.5	3463	max.
				N130	23.5	3235	25.6	3511	max.
				N133	24.9	3245	27.0	3565	max.
50	TNT*-HP	Speer	2.244	N135	25.5	3185	26.9	3396	52900
				N120	21.2	3048	23.2	3314	max.
				N130	23.0	3097	24.9	3368	max.
52	HPBT	Sierra	2.244	N133	24.6	3113	26.2	3398	max.
				N135	25.0	3077	26.5	3333	max.
				N130	21.5	2959	24.0	3274	max.
55	FMJBT	Homady	2.244	N133	23.5	3003	25.8	3315	max.
				N135	24.3	3014	27.0	3333	max.
				N120	19.6	2820	22.5	3134	max.
60	HP	Homady	2.244	N130	22.1	2931	24.1	3217	max.
				N133	22.9	2927	25.3	3231	max.
				N135	24.3	2983	26.8	3267	max.
69	HPBT*	Sierra	2.244	N140	25.3	2881	26.9	3081	50000
				N130	21.4	2796	23.7	3063	max.
				N133	22.4	2772	25.0	3076	max.
75	BTHP	Homady*	2.260	N135	23.9	2860	25.9	3075	max.
				N140	24.8	2758	25.5	2954	50000
				N133	20.5	2565	23.0	2828	max.
				N135	22.3	2595	24.7	2890	max.
				N140	23.6	2633	26.4	2922	max.
				N540	24.9	2679	27.3	2984	max.
				N135	20.9	2465	23.5	2728	max.
				N140	22.7	2475	25.3	2774	max.
*) Test barrel twist 1 in 7".				N540	23.5	2515	25.9	2807	max.

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

.223 Remington

My first experience with this excellent round came during my exposure to it in Southeast Asia in 1966. With my first look, it appeared to be more suited for ground squirrels and rockchucks than for a military cartridge. I had immediate plans to take a closer look upon my return to "The World."

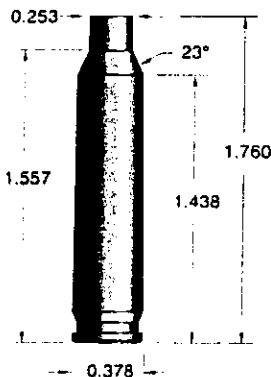


After years of high-volume sniping of distant targets with a .22-250 Remington, it became clear that for a varmint who did not want to rebarrel his pet varmint rifle every other year or so, I must rethink the caliber of choice. Thinking the .222 Remington was not really enough power for what I needed, and that the .22-250 was a trifle much for my needs, the .223 seemed perfect, so I purchased a used Sako L-461 Vixen .223 Remington.

During a recent outing to South Dakota on a prairie dog quest, I had the fortunate pleasure of being offered the new Barnes VLC bullet in both 40- and 50-grain weights loaded in Norma brass by Black Hills and chambered in my favorite varmint caliber, the .223 Remington.

The Barnes VLC bullets grouped at exactly the same point of impact as my own handloads. The accuracy of the Barnes/Black Hills loads was almost identical to my own handloads! I also noted less fouling as a result of the Barnes coating, which enabled more shooting between cleanings — a big factor when the dogs are up, the sun is shining, and you have plenty of ammunition on the bench.

— Rick Vecqueray
Varmint Masters Shooting Benches



Case:	Parent Case:
Winchester	.222 Remington
Primer:	Trim To:
Win Small Rifle	1.750"
Barrel:	
24"	

.223 REMINGTON - BARNES BULLETS

.223 Remington



45-grain Solid

S.D. .128 B.C. .212

Suggested Bullet Use



Powder	Charge Weight (grains)	Velocity (fps)	Maximum Load	Velocity (fps)
XMR 2015*	21.5	3007	25.5	3565
RL 7	19.5	2919	23.5	3518
RL 12	24.0	3102	28.0	3619
H322	21.0	3000	25.0	3572
H335*	22.0	3059	26.0	3615
Varget	22.5	3019	26.5	3556
IMR 4198	18.5	2929	22.5	3562
IMR 3031	21.5	2994	25.5	3551
IMR 4895	23.0	3004	27.0	3527
Win 748	24.0	3017	28.0	3520



45-grain XLC BT

S.D. .128 B.C. .203

Suggested Bullet Use



Powder	Charge Weight (grains)	Velocity (fps)	Maximum Load	Velocity (fps)
XMR 2015*	21.5	3054	25.5	3622
RL 12	24.5	3088	28.5	3592
H322	22.0	3037	26.0	3589
Benchmark	23.0	2982	27.0	3501
H335	23.0	3033	27.0	3560
Varget	24.5	3059	28.5	3556
IMR 3031	22.5	3001	26.5	3535
IMR 4895	24.0	2997	26.0	3497
X-Term	23.0	2995	27.0	3516
Win 748*	25.0	3015	29.0	3497

XLC Coated X-Bullet data cannot be used with other bullets, including non-coated X-Bullets.
Maximum loads should be used with caution - Always Start With Minimum Loads.

* Recommended powder

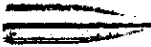
.223 REMINGTON - BARNES BULLETS

.223 Remington



50-grain XFB
S.D. .142 B.C. .220

Suggested Bullet Use



50-grain Solid
S.D. .142 B.C. .235

Suggested Bullet Use



Powder	Charge Weight (grains)	Velocity (fps)	Maximum	
			Load	Velocity (fps)
XMR 2015*	20.5	2844	24.5	3399
RL 7	19.0	2829	23.0	3424
RL 12	23.0	2904	27.0	3409
H322*	20.5	2850	24.5	3406
H335	22.0	2918	26.0	3448
Varget	22.0	2895	26.0	3421
IMR 4198	18.0	2788	22.0	3407
IMR 3031	21.0	2854	25.0	3398
IMR 4895	21.5	2849	25.5	3379
Win 748	24.0	2934	28.0	3423



50-grain XLC FB
S.D. .142 B.C. .220

Suggested Bullet Use



Powder	Charge Weight (grains)	Velocity (fps)	Maximum	
			Load	Velocity (fps)
Benchmark	22.0	2811	26.0	3322
H322*	21.5	2834	25.5	3361
H335	22.5	2860	26.5	3368
Varget	24.0	2862	28.0	3339
IMR 3031	22.0	2830	26.0	3344
IMR 4895	23.0	2795	27.0	3281
Win 748	24.5	2939	28.5	3419
XMR 2015	20.5	2784	24.5	3327
RL 12	23.0	2874	27.0	3374
X-Term*	21.5	2780	25.5	3297

XLC Coated X-Bullet data cannot be used with other bullets, including non-coated X-Bullets.
Maximum loads should be used with caution - Always Start With Minimum Loads.

* Recommended powder

.223 REMINGTON - BARNES BULLETS

.223 Remington



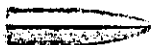
50-grain VLC

S.D. .142 B.C. .217

Suggested Bullet Use



Powder	Charge Weight (grains)	Velocity (fps)	Maximum Load	Velocity
XMR 2015	21.0	2806	25.0	3340
RL 12	23.0	2889	27.0	3391
H322	22.0	2860	26.0	3380
Benchmark	22.5	2837	26.5	3341
H335*	23.0	2871	27.0	3370
Varget	24.5	2895	28.5	3368
IMR 3031	22.5	2856	26.5	3364
IMR 4895	23.5	2854	27.5	3340
X-Term*	22.0	2820	26.0	3333
Win 748	25.0	2948	29.0	3420



53-grain XFB

S.D. .151 B.C. .231

Suggested Bullet Use



Powder	Charge Weight (grains)	Velocity (fps)	Maximum Load	Velocity
XMR 2015	20.0	2736	24.0	3243
RL 12	23.0	2855	27.0	3351
H322	20.0	2720	24.0	3287
H335*	21.0	2794	25.0	3326
Varget	21.5	2785	25.5	3303
IMR 4198	17.5	2681	21.5	3294
IMR 3031	20.5	2772	24.5	3313
IMR 4895	21.0	2761	25.0	3287
Win 748*	23.5	2820	26.5	3300



53-grain XLC FB

S.D. .151 B.C. .231

Suggested Bullet Use



Powder	Charge Weight (grains)	Velocity (fps)	Maximum Load	Velocity
XMR 2015	20.0	2723	24.0	3268
RL 12	22.5	2819	26.5	3320
H322*	21.0	2771	25.0	3299
Benchmark	21.5	2743	25.5	3253
H335*	22.0	2793	26.0	3301
Varget	23.5	2811	27.5	3289
IMR 3031	21.0	2784	25.0	3314
IMR 4895	22.5	2738	26.5	3225
X-Term	21.0	2706	25.0	3222
Win 748	24.0	2911	28.0	3396

XLC Coated X-Bullet data cannot be used with other bullets, including non-coated X-Bullets.

Maximum loads should be used with caution - Always Start With Minimum Loads.

* Recommended powder

POWDER BURNING RATE CHART

Current Canister Grade Powders in order of approximate burning rate.
 (R1 being the fastest, 748 the slowest)
 This list is approximate only and not to be used for developing loads.

- | | |
|------------------------------|----------------------------|
| 1. R-1, Norma | 36. No. 9, Accurate Arms |
| 2. N31, Vihtavuori | 37. R123, Norma |
| 3. TITEWAD, Accurate Arms | 38. N110, Vihtavuori |
| 4. RED DOT, Alliant | 39. H110, Hodgdon |
| 5. CLAYS, Hodgdon | 40. 296, Winchester |
| 6. "HI-SKOR" 700-X, IMR Co. | 41. IMR4227, IMR Co. |
| 7. BULLSEYE, Alliant | 42. H4227, Hodgdon |
| 8. TITEGROUP, Hodgdon | 43. SR4759, IMR Co. |
| 9. American Select, Alliant | 44. 1680, Accurate Arms |
| 10. SOLO 1000, Accurate Arms | 45. 200, Norma |
| 11. GREEN DOT, Alliant | 46. Reloader 7, Alliant |
| 12. INTERNATIONAL, Hodgdon | 47. IMR4198, IMR Co. |
| 13. PB, IMR Co. | 48. H4198, Hodgdon |
| 14. N320, Vihtavuori | 49. N120, Vihtavuori |
| 15. WST, Winchester | 50. H322, Hodgdon |
| 16. No.2, Accurate Arms | 51. 2015 BR, Accurate Arms |
| 17. SR 7625, IMR Co. | 52. N130, Vihtavuori |
| 18. HP-38, Hodgdon | 53. IMR3031, IMR Co. |
| 19. 231, Winchester | 54. N133, Vihtavuori |
| 20. UNIQUE, Alliant | 55. H335, Hodgdon |
| 21. UNIVERSAL, Hodgdon | 56. N135, Vihtavuori |
| 22. Power Pistol, Alliant | 57. 2230, Accurate Arms |
| 23. N330, Vihtavuori | 58. 2460, Accurate Arms |
| 24. HERCO, Alliant | 59. H4895, Hodgdon |
| 25. WSP, Winchester | 60. IMR4895, IMR Co. |
| 26. N340, Vihtavuori | 61. RELODER-12, Alliant |
| 27. "HI-SKOR" 800-X, IMR Co. | 62. IMR-4320, IMR Co. |
| 28. SR4756, IMR Co. | 63. 3100, Accurate Arms |
| 29. NO. 5, Accurate Arms, | 64. IMR 4064, IMR Co. |
| 30. HS-6, Hodgdon | 65. 202, Norma |
| 31. 3N37, Vihtavuori. | 66. 2520, Accurate Arms |
| 32. N350, Vihtavuori | 67. RELODER-15, Alliant |
| 33. BLUE DOT, Alliant | 68. N140, Vihtavuori |
| 34. No. 7, Accurate Arms | 69. VARGET, Hodgdon |
| 35. 2400, Alliant | 70. 748, Winchester |

This is a unique reloading/information manual. It contains currently available data regarding loading information for this individual cartridge. This data is compiled from the leading U.S. Bullet and gunpowder manufacturers.

This manual is not intended to replace the many comprehensive, in-depth reloading manuals available from a host of publishers, but instead provide you with a quick and easy-to-use reference source which will enable you to compare loads, types of powders, bullets and shot charges for components you may have on hand.

Loadbooks USA, Inc., also offers the following cartridges in this series of unique One Book/One Caliber reloading manuals: .22 Hornet, .220 Swift, .222 Remington, .223 Remington, .22-250 Remington, .225 Winchester, .243 Winchester, .244/6mm Remington, 6.5x55 Swedish, .25-06 Remington, .250-3000 Savage, .270 Winchester, 7x57 Mauser, 7mm-08 Remington, .280 Remington, .284 Winchester, 7mm Remington Magnum, 7.62x39mm, 7.62x54mm Russian, .30-30 Winchester, .303 British, .308 Winchester, .30-06 Springfield, .300 Winchester Magnum, .300 Weatherby Magnum, .300 Savage, 30/40 Krag, .300 & .375 H & H Magnum, .338 Winchester Magnum, 8mm Remington Magnum, 8mm/06 & .338/06, 8mm Mauser, .356 & .358 Winchester, .35 Whelen, .35 Remington & .350 Remington Magnum, .375 & .458 Winchester, .444 Marlin, .45-70 Government, .25 & .32 A.C.P., .32 H&R Magnum, .380 ACP, 9mm Luger, .38 Super, .38 Special, .357 Magnum, 10mm/.41 Auto, .41 Magnum, .44 Magnum, .44 Special, .45 ACP, .45 Colt, .454 Casull, and The Weatherby Magnums covering 10 different Weatherby calibers.

There's also two shotshell books for the 12 Gauge, and the 20/28 Gauge and .410 bore. Plus there's a large reloading manual covering 30 calibers for the Thompson/Center Contender single-shot pistol and the Remington XP-100 pistol.

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