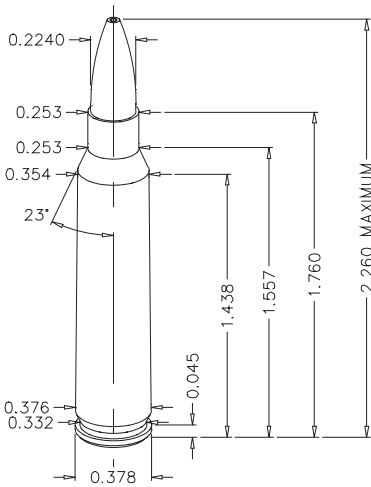


## 223 Remington (Bolt Action)



### 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 (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	<b>25.1</b>
Viht N133			24.5	25.1	25.7	<b>26.3</b>
IMR-4198	21.5	22.0	22.5	23.0	<b>23.5</b>	
AA-2015	23.0	23.6	24.2	24.8	<b>25.4</b>	
RE-7	21.2	21.8	22.4	23.0	23.6	<b>24.2</b>
H322	24.1	24.8	<b>25.5</b>			
AA-2230		24.8	25.6	26.4	<b>27.2</b>	
748	26.5	27.0	<b>27.5</b>			
BLC-(2)	28.2	28.8	<b>29.4</b>			
H335	25.6	26.3	27.0	27.7	28.4	<b>29.1</b>
Viht N135	24.4	25.0	25.6	26.2	<b>26.8</b>	
Varget	26.2	26.7	<b>27.2</b>			
<b>Energy/ft.lbs.</b>	<b>910</b>	<b>968</b>	<b>1027</b>	<b>1088</b>	<b>1151</b>	<b>1216</b>

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

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

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

	Powder	Grains	Velocity	Ft. lbs.
Accuracy Load	H335	27.6	3500	1224
Hunting Load	<b>Viht N135</b>	<b>27.1</b>	3600	1295

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

# 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
Varget	25.2	26.0	26.8			
<b>Energy/ft.lbs.</b>	<b>1000</b>	<b>1067</b>	<b>1137</b>	<b>1209</b>	<b>1284</b>	<b>1360</b>

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

	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 (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	25.6	
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
Varget	23.7	24.5	25.3	26.1	26.9	
IMR-4064	23.6	24.2	24.8	25.4	26.0	
<b>Energy/ft.lbs.</b>	<b>958</b>	<b>1027</b>	<b>1099</b>	<b>1174</b>	<b>1251</b>	<b>1330</b>

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

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

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

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

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

# 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	<b>22.2</b>	
Viht N133	19.8	20.5	21.2	21.9	22.6	<b>23.3</b>
IMR-4198	18.5	19.0	19.5	20.0	<b>20.5</b>	
AA-2015	19.7	20.6	21.5	22.4	<b>23.3</b>	
RE-7		18.5	19.5	20.5	<b>21.5</b>	
H322	20.3	21.1	21.9	22.7	<b>23.5</b>	
AA-2230		22.0	22.9	23.8	<b>24.7</b>	
748		24.1	24.8	<b>25.5</b>		
BLC-(2)		25.2	26.0	26.8	<b>27.6</b>	
H335		23.2	24.0	24.8	25.6	<b>26.4</b>
H4895	21.8	22.5	23.2	23.9	24.6	<b>25.3</b>
Varget	22.8	23.5	24.2	24.9	25.6	<b>26.3</b>
IMR-4064	22.6	23.3	24.0	24.7	25.4	<b>26.1</b>
<b>Energy/ft.lbs.</b>	<b>946</b>	<b>1020</b>	<b>1097</b>	<b>1177</b>	<b>1259</b>	<b>1345</b>

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

**INDICATES MAXIMUM LOAD – USE CAUTION**

**LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.**



## 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
<b>Energy/ft.lbs.</b>	<b>1036</b>	<b>1117</b>	<b>1202</b>	<b>1289</b>	<b>1379</b>	<b>1473</b>

	Powder	Grains	Velocity	Ft. lbs.
Accuracy Load	<b>Viht N540</b>	<b>26.5</b>	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 (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	<b>21.8</b>		
H322	18.6	19.6	20.6	21.6	22.6	<b>23.6</b>
AA-2230				22.7	23.6	<b>24.5</b>
748			22.8	23.8	24.8	<b>25.8</b>
BLC-(2)			23.4	24.7	26.0	<b>27.3</b>
AA-2460			22.0	23.0	24.0	<b>25.0</b>
H335				23.4	24.6	<b>25.8</b>
H4895			21.8	22.7	23.6	<b>24.5</b>
AA-2495			21.3	22.5	23.7	<b>24.9</b>
Varget		21.7	22.6	23.5	24.4	<b>25.3</b>
IMR-4064		21.6	22.4	23.2	24.0	<b>24.8</b>
AA-2520			22.8	23.7	24.6	<b>25.5</b>
Viht N540		22.3	23.1	23.9	24.7	<b>25.5</b>
<b>Energy/ft.lbs.</b>	<b>1024</b>	<b>1111</b>	<b>1201</b>	<b>1295</b>	<b>1393</b>	<b>1494</b>

	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.**