

6.5mm BR Remington

Test Specifications:

Firearm Used: Savage 12VSS

Barrel Length: 26"

Twist: 1 x 8"

Components:

Case: R P (reformed from 6BR)

Trim-to Length: 1.510"

Primer: Rem 7 1/2

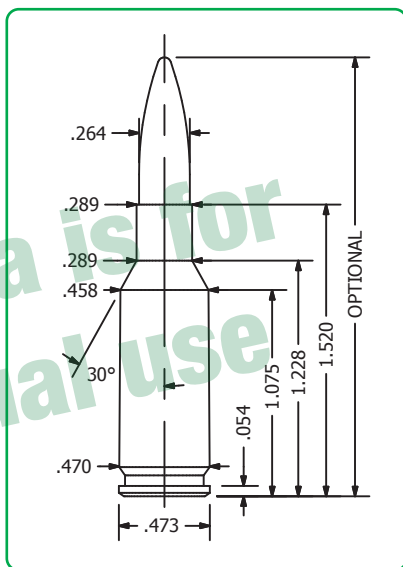
Remarks:

Cartridge selection, for virtually any application, amounts to little more than a series of compromises. With top velocity, you get increased recoil and reduced barrel life. A cartridge providing the longest barrel life and least recoil can be expected to yield modest levels of energy and velocity.


Depending on the application, somewhere between these two extremes a suitable cartridge can be chosen. The difficult game of metallic silhouette epitomizes this type of Darwinian evolution in cartridge design. The ultimate goal is the ability to take down the heavy targets while developing little more energy than that required to accomplish the job. The cartridges that have resulted from such a process tend to be moderate in power, very accurate, and pleasant to shoot, such as the 6.5mm BR Remington. For devotees of the .264 bore size, this little wildcat offers the silhouette shooter a minimal level of recoil with a decent level of power. The tradeoff, as one would expect, is slightly less reliable knockdown on the distant rams. For many who are sensitive to recoil, this is an acceptable compromise.


Unlike its stablemates, the 6mm and 7mm BenchRest cartridges, the 6.5 has not been standardized as a factory chambering. As with any purely wildcat chambering, particular caution must be exercised with regards to headspace and proper resizing of fired cases. Cases can be easily formed by necking 7mm BR cases down, or preferably, by necking 6mm BR cases up to accept .264" diameter bullets. The 140 or 142 grain MatchKings are the best choices for the farther targets, while the lighter 100 or 120 grain projectiles will reduce recoil even further for the short range targets.

While primarily used as a silhouette cartridge, the little BR case generates enough velocity to lend itself to other applications as well. For use on smaller big game species, such as whitetail deer, the 120 grain Pro Hunter would be a good choice. It would also make a good short range varmint cartridge when loaded with the 85 grain Varminter.





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Bullet Caliber Weight Type								C.O.A.L.
		#1700	.264"	85gr.	HP			2.075"
Powder	Velocity	2500	2600	2700	2800	2900	3000	
Viht N133		26.2	27.1	28.0	28.9	29.8	30.7	
IMR 4198		23.1	24.1	25.1	26.1	27.1		
A 2015		26.2	27.2	28.1	29.1	30.0	31.0	
RE 7		22.8	23.9	25.0	26.2	27.3	28.4	
Benchmark		27.4	28.3	29.1	30.0	30.8		
Viht N135		27.6	28.5	29.4	30.4	31.3	32.2	
A 2520		27.4	28.6	29.7	30.9	32.0	33.2	
Viht N140		29.1	30.1	31.0	32.0	32.9		
Energy Ft. lbs		1179	1276	1376	1479	1587	1698	
Special Load	Powder	Grains	Velocity fps	Energy Ft. lbs				
Accuracy Load	IMR 4198	27.1	2900	1587				
Hunting Load	Viht N133	30.7	3000	1698				

Bullet Caliber Weight Type								C.O.A.L.
		#1710	.264"	100gr.	HP			2.210"
Powder	Velocity	2400	2500	2600	2700	2800	2900	
Viht N133		24.9	26.1	27.3	28.4	29.6		
IMR 4198		22.3	23.5	24.6	25.8			
A 2015		25.1	26.3	27.4	28.6	29.7		
RE 7		22.2	23.5	24.8	26.1			
Benchmark		25.6	26.8	27.9				
Viht N135		25.9	27.1	28.3	29.4	30.6		
A 2520		27.1	28.2	29.3	30.4	31.5	32.6	
Viht N140		27.1	28.4	29.6	30.9	32.1		
Energy Ft. lbs		1279	1388	1501	1618	1741	1867	
Special Load	Powder	Grains	Velocity fps	Ft. lbs				
Accuracy Load	Benchmark	27.9	2600	1501				
Hunting Load	Viht N140	32.1	2800	1741				



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Bullet	Caliber	Weight	Type	C.O.A.L.
	#1715	.264"	107gr. HPBT MatchKing	2.400"
	#7407	2.64"	107gr. TMK	2.400"

Powder	Velocity	2400	2500	2600	2700	2800	2900
Viht N133		24.6	25.8	27.0	28.2	29.4	
IMR 4198		22.4	23.6	24.7	25.9		
A 2015		24.8	26.0	27.2	28.4	29.6	
RE 7		22.3	23.5	24.8	26.0		
Benchmark		25.5	26.7	27.9			
Viht N135		25.4	26.6	27.8	29.0	30.2	
A 2520		27.6	28.5	29.4	30.3	31.2	32.1
Viht N140		27.0	28.2	29.3	30.5	31.6	
Energy Ft. lbs		1368	1485	1606	1732	1862	1998

Special Load	Powder	Grains	Velocity fps	Energy Ft. lbs
Accuracy Load	A 2015	28.4	2700	1732




Sierra does not recommend MatchKing bullets for hunting applications.

Bullet	Caliber	Weight	Type	C.O.A.L.
	#1720	.264"	120gr. SPT	2.310"
	#1725	.264"	120gr. HPBT MatchKing	2.310"

Powder	Velocity	2200	2300	2400	2500	2600	2700
Viht N133		23.7	25.0	26.2	27.5		
IMR 4198		21.2	22.4	23.7	24.9		
A 2015		23.5	24.8	26.2	27.5		
RE 7		21.3	22.6	24.0	25.3		
Benchmark		24.6	25.7	26.9	28.0		
Viht N135		24.2	25.5	26.8	28.0	29.3	
A 2520		25.4	26.6	27.8	29.0	30.2	31.4
Viht N140		25.2	26.5	27.9	29.2	30.5	
Energy Ft. lbs		1289	1409	1535	1665	1801	1942

Special Load	Powder	Grains	Velocity fps	Energy Ft. lbs
Accuracy Load	IMR 4198	24.9	2500	1665
Hunting Load	Viht N140	30.5	2600	1801

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	Bullet	Caliber	Weight	Type	C.O.A.L.		
	#1730	.264"	140gr.	SBT	2.310"		
	#1740	.264"	140gr.	HPBT MatchKing	2.320"		
	#1742	.264"	142gr.	HPBT MatchKing	2.400"*		
*requires a 1x8" or faster twist							
Powder	Velocity	2000	2100	2200	2300	2400	2500
Viht N133		21.7	23.0	24.4	25.7	27.0	
IMR 4198		20.2	21.4	22.5	23.7		
A 2015		22.1	23.4	24.6	25.9		
RE 7		20.3	21.5	22.6	23.8		
Benchmark		22.4	23.8	25.1			
Viht N135		22.5	23.8	25.2	26.5		
A 2520			24.8	25.9	27.0	28.1	29.2
Viht N140		23.4	24.7	26.1	27.4	28.7	
Energy Ft. lbs		1243	1371	1504	1644	1790	1943
Special Load	Powder	Grains	Velocity fps	Energy Ft. lbs			
Accuracy Load	A 2520	27.0	2300	1644			
Hunting Load	A 2520	28.1	2400	1790			