

# 6.5-06 A-SQUARE

## Test Specifications:

Firearm Used: Universal

Barrel Length: 24"

Twist: 1-8"

## Components:

Case: Formed with Winchester 30  
06 Brass

Trim-to Length: 2.485"

Primer: WLR

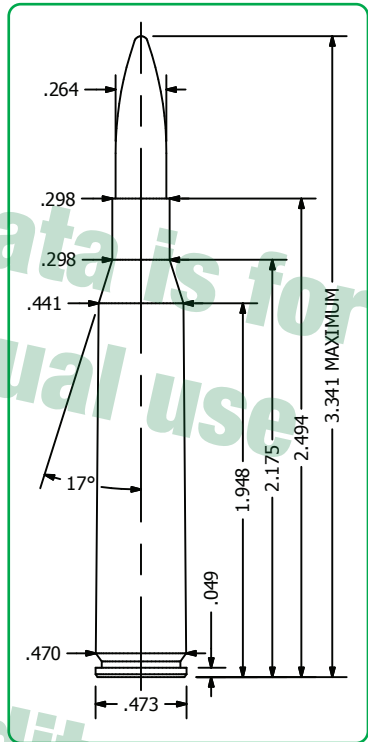
## Remarks:

The 6.5-06 is a true departure from the normal wildcat in that it started out as a commercial cartridge and has since "attained" wildcat status. Introduced in 1913, the 256 Newton was developed by Charles Newton for his line of proprietary bolt-action rifles. Despite its nomenclature, the 256 Newton was a true 6.5mm cartridge. Essentially a 30-06 case necked down to accept .264" diameter bullets, the 256 Newton was the first American 6.5mm cartridge to be produced commercially.





It remained the only truly American 6.5mm cartridge until the introduction of Winchester's 264 Magnum in late 1959. The Newton rifles went out of production in the early 1920s, and Western Cartridge Company, which had produced loaded ammunition, dropped the cartridge in 1938. Despite being discontinued, the 256 lives on today in the form of a remarkably similar wildcat, the 6.5-06.

The 6.5mm family of cartridges has received little enthusiasm in the United States, regardless of their proven performance. As a result, the 6.5-06 has remained a cartridge for diehard fans of the .264" family. In terms of performance, the 6.5-06 falls (not surprisingly) exactly between the 25-06 and the 270 Winchester. Despite the ballistic similarity, the 6.5-06 actually offers a better selection of bullet weights and styles than either. In many respects, the 6.5-06 is superior to either of these more established cartridges.

The 6.5-06 is well suited to most North American big game, particularly the long-range shots typical to "western" hunting. Try using the 6.5-06 with the 130 grain GameKing HPBT for short to medium ranges on deer, black bear, and hogs. The 130 grain GameChanger and 140 grain GameKing really give superb performance with a mix of velocity, trajectory, and penetration on medium to large game at longer ranges. When loaded with lightweight bullets, it becomes a truly impressive varmint cartridge. With a variety of match bullets (another advantage over the 25 and 270 calibers), the 6.5-06 has also been used as a long-range target cartridge. It is an excellent cartridge, and most users are satisfied with its performance.



## 6.5-06 A-SQUARE

Bullet	Caliber	Weight	Type	C.O.A.L.
	#1710	.264"	100gr. HP	3.300"
	#1711	.264"	100gr. HPBT	3.300"
	#1715	.264"	107gr. HPBT Match	3.425"
	#7407	.264"	107gr. TMK Match	3.420"



Powder	Velocity	2700	2800	2900	3000	3100	3200	3300
H4895		38.1	39.9	41.5	43.2	44.9		
RE 15			42.3	44.2	46.2	48.2	50.2	
Varget		41.1	43.0	44.8	46.6	48.4	50.1	
Big Game		43.3	44.4	45.8	47.5	49.5		
IMR 4451 End.		46.5	48.1	49.8	51.4	53.1	54.7	
A 4350				49.2	52.0	54.1	55.5	
H4350			46.2	48.3	50.3	52.3	54.1	
RE 16					49.2	50.9	52.6	
RE 17			45.5	47.4	49.3	51.1	52.9	54.7
<b>Energy Ft. Lbs</b>		<b>1618</b>	<b>1741</b>	<b>1867</b>	<b>1998</b>	<b>2133</b>	<b>2273</b>	<b>2418</b>


Special Load	Powder	Grains	Velocity fps	Energy Ft. lbs
<b>Accuracy Load</b>	A 4350	55.5	3200	2273
<b>Hunting Load</b>	RE 17	54.7	3300	2418

*Sierra does not recommend MatchKing bullets for hunting applications.*

# 6.5-06 A-SQUARE




		Bullet Caliber Weight Type						C.O.A.L.
	#1720 .264" 120gr. SPT							3.300"
	#1725 .264" 120gr. HPBT Match							3.375"
Powder ▾	Velocity >	2500	2600	2700	2800	2900	3000	3100
N540				41.7	43.1	45.0		
IMR 4451 End.	43.1	44.7	46.4	48.2	50.0	51.9		
A 4350				45.4	47.7	50.0	52.2	
H4350		42.9	44.7	46.6	48.7	51.0		
RE 16				43.6	45.8	48.0	50.3	
RE 17		42.7	44.1	45.7	47.5	49.4	51.5	
Hybrid 100V				44.1	46.2	48.3	50.3	
RE 19				49.3	51.8	54.0	55.7	56.9
Hunter		44.1	45.8	47.6	49.6	51.9		
H4831sc				49.3	51.4	53.6	55.7	
<b>Energy Ft. Lbs</b>		<b>1665</b>	<b>1801</b>	<b>1942</b>	<b>2089</b>	<b>2240</b>	<b>2398</b>	<b>2560</b>
Special Load	Powder	Grains	Velocity fps	Energy Ft. lbs				
<b>Accuracy Load</b>	RE 16	50.3	3000	2398				
<b>Hunting Load</b>	RE 17	51.5	3100	2560				
<i>Sierra does not recommend MatchKing bullets for hunting applications.</i>								

**6.5-06 A-SQUARE**




		Bullet Caliber Weight Type							C.O.A.L.
		#1727	.264"	123gr.	HPBT Match				3.460"
Powder ∨	Velocity >	2700	2750	2800	2850	2900	2950	3000	
N540			43.0	44.2	45.3	46.4	47.4		
IMR 4451 End.		47.1	47.9	48.6	49.5	50.4	51.4	52.4	
A 4350				48.5	50.0	51.3	52.3	53.2	
H4350				47.3	48.5	49.7	50.9	52.1	
RE 16				47.1	48.2	49.3	50.4	51.4	
RE 17		46.2	47.2	48.2	49.1	49.9	50.7		
H100V				47.5	48.7	49.8	50.8	51.7	
Hunter		47.8	48.8	49.8	50.9	52.0	53.2		
<b>Energy Ft. Lbs</b>		<b>1991</b>	<b>2065</b>	<b>2141</b>	<b>2218</b>	<b>2297</b>	<b>2376</b>	<b>2458</b>	
Special Load	Powder	Grains	Velocity fps	Energy Ft. lbs					
<b>Accuracy Load</b>	H4350	52.1	3000	2458					
<i>Sierra does not recommend MatchKing bullets for hunting applications.</i>									

Do not edit or  
redistribute.

# 6.5-06 A-SQUARE

	Bullet	Caliber	Weight	Type	C.O.A.L.			
	#1728	.264"	130gr.	HPBT	3.375"			
	#7430	.264"	130gr.	TMK Match	3.540"*			
	#4330	.264"	130gr.	TGK	3.340"*			
*requires a 1x8" or faster twist								
Powder	Velocity	2500	2600	2700	2750	2800	2850	2900
N540		40.4	42.1	43.0	44.1			
IMR 4451 End.		45.1	47.2	48.1	49.0	49.9		
A 4350		46.0	47.8	48.6	49.5	50.2		
H4350			45.5	46.6	47.6	48.7		
RE 16			45.3	46.5	47.6	48.6	49.5	
RE 17			44.8	45.7	46.7	47.8	48.9	
H100V			45.9	46.9	47.9	48.8	49.8	
RE 19			50.7	51.5	52.3	53.1	53.9	
Hunter			47.9	48.9	49.9	50.9	51.9	
H4831sc	45.2	47.3	49.3	50.3	51.3	52.3	53.3	
N560		48.3	50.6	51.5	52.4	53.2		
N165		49.7	51.7	52.7	53.7	54.7	55.7	
RE 23	43.8	46.3	48.5	49.5	50.5	51.4	52.3	
H1000	48.3	50.2	52.1	53.1	54.1	55.0	56.0	
<b>Energy Ft. Lbs</b>	<b>1804</b>	<b>1951</b>	<b>2104</b>	<b>2183</b>	<b>2263</b>	<b>2344</b>	<b>2427</b>	
Special Load	Powder	Grains	Velocity fps	Energy Ft. lbs				
<b>Accuracy Load</b>	RE 23	52.3	2900	2427				
<b>Hunting Load</b>	RE 16	49.5	2900	2427				
<i>Sierra does not recommend MatchKing bullets for hunting applications.</i>								

# 6.5-06 A-SQUARE

Bullet	Caliber	Weight	Type	C.O.A.L.
	#1730	.264"	140gr. SBT	3.300"
	#1740	.264"	140gr. HPBT Match	3.400"
	#1742	.264"	142gr. HPBT Match	3.500"*


\*requires a 1x8" or faster twist

Powder	Velocity	2300	2400	2500	2600	2700	2750	2800
N540		35.9	37.5	39.3	41.2	43.4		
IMR 4451 End.			41.6	43.7	45.7	47.5	48.4	49.3
A 4350			40.1	42.2	44.5	47.1		
H4350			39.5	41.8	44.0	46.2	47.3	
RE 16			39.0	40.9	43.1	45.6	46.9	
RE 17			39.5	41.5	43.5	45.4	46.4	47.4
Hybrid 100V			39.8	42.1	44.3	46.4	47.4	
RE 19				46.1	48.2	50.3	51.3	52.3
<b>Energy Ft. Lbs</b>		<b>1644</b>	<b>1790</b>	<b>1943</b>	<b>2101</b>	<b>2266</b>	<b>2351</b>	<b>2437</b>

Special Load	Powder	Grains	Velocity fps	Energy Ft. lbs
<b>Accuracy Load</b>	RE 16	46.9	2750	2351
<b>Hunting Load</b>	IMR 4451 End.	49.3	2800	2437

Sierra does not recommend MatchKing bullets for hunting applications.

# 6.5-06 A-SQUARE

Bullet		Caliber	Weight	Type	C.O.A.L.			
	#1755	.264"	150gr.	HPBT Match	3.650"*			
*requires a 1x7.5" or faster twist								
Powder	Velocity	2400	2450	2500	2550	2600	2650	2700
N540		38.9	40.0	41.1	42.2			
IMR 4451 End.			43.8	44.9	45.9	47.0	48.0	49.1
A 4350			42.5	43.8	45.0	46.2		
H4350			41.6	42.8	44.0	45.4	46.8	
RE 16			41.2	42.3	43.6	44.9	46.3	
RE 17				42.7	43.8	44.9	46.0	47.1
Hybrid 100V				43.3	44.4	45.6	46.9	48.2
RE 19						48.4	49.6	50.9
H4831sc					47.7	48.9	50.2	51.5
N165			45.1	46.4	47.7			
RE 23					47.6	48.8	50.0	51.1
H1000						51.6	52.8	54.0
<b>Energy Ft. Lbs</b>		<b>1918</b>	<b>1999</b>	<b>2081</b>	<b>2165</b>	<b>2251</b>	<b>2339</b>	<b>2428</b>
Special Load	Powder	Grains	Velocity	fps	Energy	Ft. lbs		
<b>Accuracy Load</b>	RE 16	46.3	2650		2339			
<i>Sierra does not recommend MatchKing bullets for hunting applications.</i>								