

# 7mm WEATHERBY MAGNUM

## Test Specifications:

Firearm Used: Savage Model 116

Barrel Length: 26"

Twist: 1 x 9"

## Components:

Case: Weatherby

Trim-to Length: 2.540"

Primer: Federal 215

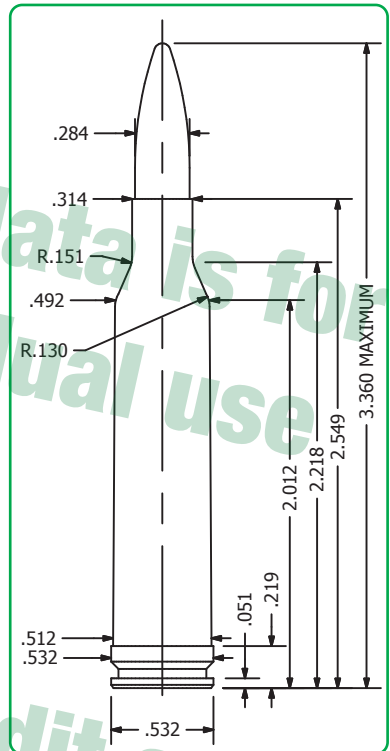
## Remarks:

Although it has never been their most popular, the 7mm may be the best of the Weatherby line of cartridges. Like its smaller cousins, the 257 and 270 Weatherby, the 7mm Weatherby Magnum is based on a shortened 300 H&H case. Other characteristic Weatherby features include the typical double radius shoulder and a long lead in factory chambered rifles. This freebore must be taken into consideration when loading for custom chambered rifles, which may have shorter throats. The topic of freeboring is still somewhat controversial among


shooters, but it allows Weatherby to obtain higher velocities within pressure limitations. After all, higher velocities are what Weatherby cartridges are all about.


With the wide range of bullet weights and styles available for 284 cartridges, the 7mm enjoys a degree of versatility unmatched by the smaller 270 Weatherby. On the other end, the powerful 300 Weatherby delivers considerably more recoil than most shooters can comfortably handle. The 7mm's main competition today comes not from any of its Weatherby brethren, but from the ballistically similar 7mm Remington Magnum. The Remington round is currently available from every major U.S. arms manufacturer, while the Weatherby is still basically a proprietary cartridge. This situation always hurts a cartridge's popularity, and the 7mm Weatherby has proven to be no exception.

Like most other small bore magnums, the 7mm Weatherby is at its best with large charges of relatively slow burning powders. Best bullet weights for most North American big game hunting run the gamut from 140 to 160 grains. Weatherby has chosen a slow twist for their 7mm rifles, which can result in stability problems with 175 grain Spitzer boat tail bullets.




# 7mm WEATHERBY MAGNUM

Bullet		Caliber	Weight	Type	C.O.A.L.				
	#1895	.284"	100gr.	HP	3.180"				
Powder	Velocity	3100	3200	3300	3400	3500	3600	3700	
IMR 4064		55.7	57.1	58.5	60.0	61.4	62.8		
A 4350		62.7	64.2	65.7	67.3	68.8	70.3	71.8	
IMR 4350		61.3	63.2	65.2	67.1	69.1	71.0		
RE 19			66.6	68.4	70.2	72.0	73.8		
IMR 4831		64.6	66.2	67.8	69.4	70.9	72.5	74.1	
A 3100		67.6	69.2	70.8	72.5	74.1	75.7		
H4831 SC		65.6	67.4	69.2	71.0	72.8	74.6		
MagPro		69.8	71.4	73.1	74.7	76.4	78.0		
RE 22		65.4	67.0	68.6	70.3	71.9	73.5		
<b>Energy Ft. lbs</b>		<b>2133</b>	<b>2273</b>	<b>2418</b>	<b>2566</b>	<b>2720</b>	<b>2877</b>	<b>3039</b>	
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb					
Accuracy Load	IMR 4350	69.1	3500	2720					
Hunting Load	IMR 4350	71.0	3600	2877					




Bullet		Caliber	Weight	Type	C.O.A.L.				
	#1900	.284"	120gr.	SPT	3.250"				
Powder	Velocity	2900	3000	3100	3200	3300	3400	3500	
IMR 4064			53.9	56.1	58.2	60.4	62.5		
A 4350		59.0	61.0	62.9	64.9	66.8	68.8	70.7	
IMR 4350		57.5	59.6	61.7	63.8	65.8	67.9	70.0	
RE 19			63.6	65.5	67.4	69.4	71.3	73.2	
IMR 4831		61.2	63.1	65.0	66.9	68.8	70.7	72.6	
A 3100			66.1	67.9	69.7	71.4	73.2	75.0	
H4831 SC			63.1	65.2	67.3	69.4	71.5		
MagPro		65.3	67.3	69.3	71.4	73.4	75.4		
RE 22			63.1	65.0	66.9	68.7	70.6	72.5	
RE 25		65.6	67.8	70.1	72.3	74.6	76.8		
<b>Energy Ft. lbs</b>		<b>2240</b>	<b>2398</b>	<b>2560</b>	<b>2728</b>	<b>2901</b>	<b>3080</b>	<b>3264</b>	
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb					
Accuracy Load	RE 19	69.4	3300	2901					
Hunting Load	H4831 SC	71.5	3400	3080					

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		Bullet Caliber Weight Type								C.O.A.L.
		#1903	.284"	130gr.	HPBT	MatchKing				3.300"
Powder	Velocity	> 2800	2900	3000	3100	3200	3300	3400	3500	
IMR 4064				53.8	55.9	57.9	60.0	62.0		
A 4350		57.7	59.5	61.3	63.1	64.9	66.7	68.5		
IMR 4350			57.2	59.3	61.4	63.5	65.6	67.7		
RE 19			61.6	63.3	65.1	66.8	68.5	70.3	72.0	
IMR 4831		58.8	60.7	62.6	64.5	66.4	68.3	70.2		
A 3100		61.4	63.2	64.9	66.7	68.4	70.2			
H4831 SC			61.5	63.5	65.5	67.6	69.6	71.6		
MagPro			65.3	67.5	69.6	71.8	73.9			
RE 22			61.2	63.0	64.8	66.6	68.4	70.2	72.0	
RE 25		63.7	65.7	67.7	69.8	71.8	73.8	75.8		
<b>Energy Ft. lbs</b>		<b>2263</b>	<b>2427</b>	<b>2597</b>	<b>2774</b>	<b>2955</b>	<b>3143</b>	<b>3336</b>	<b>3535</b>	
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb						
<b>Accuracy Load</b>	IMR 4350	65.6	3300	3143						
<i>Sierra does not recommend MatchKing bullets for hunting applications.</i>										

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## 7mm WEATHERBY MAGNUM

	Bullet	Caliber	Weight	Type	C.O.A.L.			
	#1905	.284"	140gr.	SBT	3.285"			
	#1910	.284"	140gr.	SPT	3.285"			
	#1912	.284"	140gr.	HPBT	3.285"			
Powder	Velocity	2800	2900	3000	3100	3200	3250	3300
IMR 4064			53.3	55.9	58.4	61.0		
A 4350		57.8	59.8	61.9	63.9	66.0	67.0	68.0
IMR 4350		56.1	58.5	60.9	63.2	65.6	66.8	68.0
RE 19		60.6	62.7	64.8	66.8	68.9	70.0	71.0
IMR 4831		59.0	61.2	63.3	65.5	67.6	68.7	69.8
A 3100		61.7	63.7	65.7	67.8	69.8	70.8	
H4831 SC		59.3	61.6	64.0	66.3	68.7	69.8	71.0
MagPro		62.9	65.3	67.7	70.2	72.6	73.8	75.0
RE 22		60.1	62.2	64.2	66.3	68.3	69.4	70.4
WXR		60.7	63.1	65.5	67.9	70.3		
IMR 7828		63.1	64.9	66.7	68.4	70.2	71.1	72.0
H1000		65.8	68.5	71.1	73.8	76.4		
RE 25		63.5	65.8	68.1	70.4	72.7	73.9	75.0
<b>Energy Ft. lbs</b>		<b>2437</b>	<b>2614</b>	<b>2797</b>	<b>2987</b>	<b>3183</b>	<b>3283</b>	<b>3385</b>
Special Load	Powder	Grains	Velocity	fps	Energy	Ft. lb		
<b>Accuracy Load</b>	IMR 4064	61.0	3200		3183			
<b>Hunting Load</b>	RE 22	70.4	3300		3385			

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		Bullet Caliber Weight Type							C.O.A.L.
	#1913	.284"	150gr.	SBT				3.300"	
	#1915	.284"	150gr.	HPBT MatchKing				3.300"	
Powder ▾	Velocity >	2800	2900	3000	3100	3150	3200	3250	
IMR 4350		57.0	59.2	61.3	63.5	64.6	65.7		
IMR 4831		58.9	60.9	63.0	65.0	66.1	67.1		
A 3100		61.5	63.4	65.2	67.1	68.0	68.9		
H4831 SC		59.9	62.1	64.4	66.6	67.8	68.9		
MagPro		63.9	66.5	69.1	71.7	73.0			
Viht N165		61.8	64.1	66.4	68.7	69.9			
RE 22		59.8	61.9	64.0	66.0	67.1	68.1		
WXR		60.2	62.4	64.6	66.8	67.9	69.0		
IMR 7828		63.7	65.3	66.8	68.4	69.2	70.0		
H1000		66.3	68.7	71.0	73.4	74.5	75.7		
RE 25		63.6	65.7	67.8	69.8	70.9	71.9	73.0	
Retumbo		67.4	69.3	71.2	73.1	74.0	75.0	75.9	
H870		71.4	74.0	76.5	79.1	80.3	81.6		
<b>Energy Ft. lbs</b>		<b>2611</b>	<b>2801</b>	<b>2997</b>	<b>3200</b>	<b>3304</b>	<b>3410</b>	<b>3517</b>	
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb					
<b>Accuracy Load</b>	IMR 4350	64.6	3150	3304					
<b>Hunting Load</b>	RE 25	73.0	3250	3517					

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	Bullet	Caliber	Weight	Type	C.O.A.L.
	#1920	.284"	160gr.	SBT	3.300"
	#1925	.284"	160gr.	HPBT	3.300"
	#7660	.284"	160gr.	TMK	3.300"



  

Powder	Velocity	2700	2800	2900	3000	3100
IMR 4350		55.4	57.9	60.4	62.8	65.3
IMR 4831		58.1	60.5	62.8	65.2	
A 3100		60.6	62.8	65.0	67.2	
H4831 SC		59.0	61.3	63.5	65.8	68.0
MagPro		62.5	65.1	67.8	70.4	
Viht N165		60.3	62.8	65.2	67.7	
RE 22		58.3	60.5	62.6	64.8	66.9
WXR		59.9	62.2	64.6	66.9	
IMR 7828		60.7	62.8	64.9	66.9	69.0
H1000		65.0	67.5	70.0	72.5	
RE 25		62.8	65.0	67.3	69.5	71.7
Retumbo		66.6	68.7	70.8	72.8	74.9
H870		70.2	73.0	75.9	78.7	81.5
<b>Energy Ft. lbs</b>		<b>2589</b>	<b>2785</b>	<b>2987</b>	<b>3197</b>	<b>3414</b>



  

Special Load	Powder	Grains	Velocity fps	Energy Ft. lb
<b>Accuracy Load</b>	Viht N165	67.7	3000	3197
<b>Hunting Load</b>	Retumbo	74.9	3100	3414

## 7mm WEATHERBY MAGNUM

		Bullet	Caliber	Weight	Type	C.O.A.L.	
	#1930	.284"	168gr.	HPBT	MatchKing	3.300"	
	#4565	.284"	165gr.	TGK		3.300"	
Powder	Velocity	2700	2800	2900	3000	3050	3100
IMR 4350		56.9	59.3	61.7	64.1		
IMR 4831		59.8	61.8	63.8	65.8	66.8	
A 3100		61.5	63.3	65.1	66.9	67.8	
H4831 SC		60.0	62.2	64.5	66.7	67.8	
MagPro		63.2	65.7	68.1	70.6	71.8	73.0
Viht N165		64.1	66.1	68.0	70.0		
RE 22		59.6	61.7	63.8	65.9	67.0	68.0
WXR		60.6	62.7	64.8	66.9	68.0	69.0
IMR 7828		62.0	64.0	66.0	68.0	69.0	
H1000		66.0	68.3	70.7	73.0		
RE 25		63.7	65.8	67.9	69.9	71.0	72.0
Retumbo		67.1	69.0	70.9	72.8	73.7	
H870		70.4	73.1	75.7	78.4	79.7	81.0
<b>Energy Ft. lbs</b>		<b>2719</b>	<b>2924</b>	<b>3137</b>	<b>3357</b>	<b>3470</b>	<b>3584</b>
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb			
<b>Accuracy Load</b>	Viht N165	70.0	3000	3357			
<b>Hunting Load</b>	RE 25	72.0	3100	3584			
<i>Sierra does not recommend MatchKing bullets for hunting applications.</i>							

## 7mm WEATHERBY MAGNUM

Bullet	Caliber	Weight	Type	C.O.A.L.			
	#1940	.284"	175gr. SBT	3.320"			
	#1975	.284"	175gr. HPBT MatchKing	3.450"*			
*requires 1 x 8.5" twist or faster twist							
Powder	Velocity	2600	2700	2800	2900	2950	3000
IMR 4350		55.0	57.2	59.5	61.7		
IMR 4831		56.7	59.1	61.6	64.0		
A 3100		58.7	60.8	62.9	65.0		
H4831 SC		56.4	59.0	61.6	64.2		
MagPro		60.8	63.6	66.4	69.2		
Viht N165		56.8	60.5	64.1	67.8		
RE 22		57.0	59.3	61.5	63.8	64.9	66.0
WXR		57.9	60.2	62.5	64.7	65.9	67.0
IMR 7828		59.4	61.5	63.7	65.8	66.9	
H1000		62.8	65.4	67.9	70.5		
RE 25		60.9	63.2	65.5	67.7	68.9	70.0
Retumbo		64.3	66.4	68.4	70.5		
H870		68.6	71.2	73.8	76.4	77.7	79.0
<b>Energy Ft. lbs</b>		<b>2626</b>	<b>2832</b>	<b>3046</b>	<b>3267</b>	<b>3381</b>	<b>3497</b>
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb			
Accuracy Load	IMR 4350	59.5	2800	3046			
Hunting Load	Viht N165	67.8	2900	3267			