

# 300 WEATHERBY MAGNUM

## Test Specifications:

Firearm Used: Universal

Barrel Length: 24"

Twist: 1-10"

## Components:

Case: Norma

Trim-to Length: 2.815"

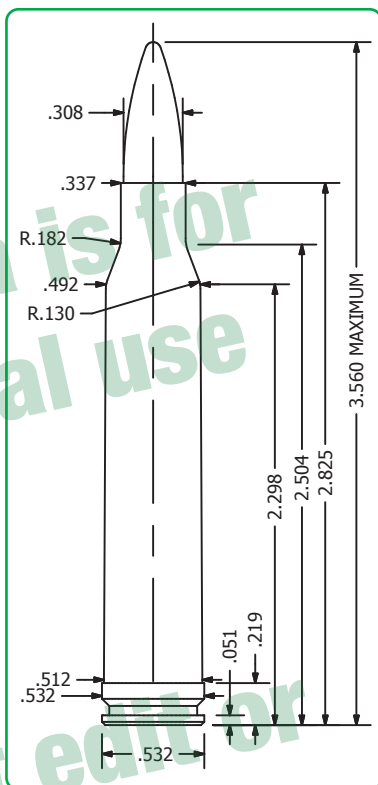
Primer: WLRM

## Remarks:






The 300 Weatherby is a cartridge that was introduced in the right place at the right time. Developed by Roy Weatherby in 1944, the 300 is essentially an improved version of the 300 Holland & Holland Magnum. The gently sloping shoulders of the British cartridge are typical of a cartridge designed for use with the long-grained Cordite propellant, but not well suited to more conventional U.S. powders. Weatherby seized on the opportunity. By reducing the body taper and blowing the shoulders out to his characteristic double-radius design, Weatherby increased capacity and performance considerably. This work coincided nicely with the introduction of specific slow-burning propellants, such as IMR-4350 and surplus stocks of 4831 distributed by Bruce Hodgdon. With some of the modern slow burners such as RE-22 and RE-25, Retumbo and others, this old war horse is better than ever. The combination of increased capacity, more efficient case design, and suitable powders made the 300 Weatherby a winner.

The 300 Weatherby's appeal was not difficult to understand. It is an extraordinarily versatile cartridge, capable of handling any North American big game, as well as most African plains species. The velocity crowd has several newer developments that do produce higher velocities, but have added cost in barrel life and efficiency.

Like most Weatherby cartridges, the 300 is designed to be used in rifles with considerable freebore. Throating styles can drastically affect pressures, and loads should be reduced accordingly in custom-built or rebarreled rifles. 300 H&H ammo can be fireformed in the Weatherby chamber. While it is a fairly flexible cartridge to load for, the 300 Weatherby is at its best with bullets of 180 grains or heavier and very slow-burning powders.



# 300 WEATHERBY MAGNUM

	Bullet	Caliber	Weight	Type	C.O.A.L.
	#2145	.308"	165gr.	SBT	3.560"
	#2140	.308"	165gr.	HPBT	3.560"
	#4665	.308"	165gr.	TGK	3.560"
	#2200	.308"	168gr.	HPBT Match	3.720"
	#7768	.308"	168gr.	TMK Match	3.740"






Powder	Velocity	3000	3050	3100	3150	3200	3250	3300
H4350	65.8	66.9	68.0	69.0				
Hybrid 100V	73.5	74.6	75.8	76.9	78.0	79.2	80.3	
Hunter	74.1	76.6	79.6					
H4831sc	81.2	82.3	83.4	84.4	85.5	86.4	87.4	
IMR 4955 End.	76.4	77.9	79.3	80.6	81.7			
RE 22	79.2	80.2	81.3	82.3	83.2	84.2	85.2	
N560	81.3	82.5	83.6	84.7	85.8	86.9	88.0	
N165	82.2	83.3	84.4	85.7	87.0	88.3	89.7	
IMR 7828ssc	81.0	82.0	83.0	84.0	84.8	85.7		
RE 25	85.4	86.4	87.4	88.4	89.5	90.6	91.7	
IMR 7977 End.	84.8	85.7	86.8	88.0	89.3	90.8	92.4	
H1000	82.6	83.8	85.1	86.5	87.9	89.3	90.8	
Magnum	84.7	85.9	87.1	88.3	89.7	91.1	92.5	
Retumbo	85.5	86.8	88.0	89.3	90.6	91.9	93.2	
<b>Energy Ft. Lbs</b>		<b>3297</b>	<b>3408</b>	<b>3520</b>	<b>3635</b>	<b>3751</b>	<b>3869</b>	<b>3989</b>

Special Load	Powder	Grains	Velocity fps	Energy Ft. lb
<b>Accuracy Load</b>	Hybrid 100V	80.3	3300	3989
<b>Hunting Load</b>	Magnum	92.5	3300	3989

Sierra does not recommend MatchKing bullets for hunting applications.

# 300 WEATHERBY MAGNUM

Bullet	Caliber	Weight	Type	C.O.A.L.
	#2275	.308"	175gr. HPBT Match	3.750"
	#7775	.308"	175gr. TMK Match	3.860"
	#2220	.308"	180gr. HPBT Match	3.730"
	#2170	.308"	180gr. RN	3.550"
	#2160	.308"	180gr. SBT	3.560"



Powder	Velocity	2800	2850	2900	2950	3000	3050	3100
H4831sc				76.2	77.9	79.6	81.2	82.7
RE 22			73.5	75.1	76.7	78.2	79.7	81.0
N560					77.9	79.3	80.7	82.2
N165			77.2	79.2	81.0	82.6	83.9	
IMR 7828ssc	75.5	76.8	78.1	79.4	80.7	81.9	83.2	
RE 25			80.4	81.7	83.1	84.4	85.7	86.9
IMR 7977 End.	81.0	82.6	84.0	85.4	86.7	87.8	88.9	
H1000			79.8	81.5	83.1	84.6	85.9	
Magnum				81.6	84.1	86.3	88.1	89.5
Retumbo			79.9	81.3	82.6	84.0	85.4	86.8
<b>Energy Ft. Lbs</b>		<b>3133</b>	<b>3246</b>	<b>3361</b>	<b>3478</b>	<b>3597</b>	<b>3717</b>	<b>3840</b>

Special Load	Powder	Grains	Velocity fps	Energy Ft. lb
<b>Accuracy Load</b>	RE 22	81.0	3100	3840
<b>Hunting Load</b>	H4831sc	82.7	3100	3840




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# 300 WEATHERBY MAGNUM


	Bullet	Caliber	Weight	Type	C.O.A.L.			
	#2210	.308"	190gr.	HPBT Match	3.730"			
	#7795	.308"	195gr.	TMK Match	3.850"*			
*requires 1 x 10" twist or faster twist								
Powder	Velocity	2800	2850	2900	2950	3000	3050	3100
H4831sc			74.8	76.6	78.4	80.1		
RE 22		73.3	74.9	76.4	77.8	79.0		
N165		77.7	79.5	81.1	82.5			
IMR 7828ssc		76.4	77.8	79.1	80.4	81.6		
RE 25		79.6	81.1	82.6	84.0	85.2	86.4	87.5
IMR 7977 End.		81.7	82.9	84.0	85.2	86.3		
H1000		77.5	79.0	80.4	81.9	83.3	84.8	
Magnum		80.8	82.4	83.9	85.3	86.7		
Retumbo		80.0	81.4	82.9	84.4	85.9	87.5	
<b>Energy Ft. Lbs</b>		<b>3307</b>	<b>3426</b>	<b>3547</b>	<b>3671</b>	<b>3796</b>	<b>3924</b>	<b>4054</b>
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb				
<b>Accuracy Load</b>	H4831sc	80.1	3000	3796				
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# 300 WEATHERBY MAGNUM



	Bullet	Caliber	Weight	Type	C.O.A.L.			
	#2165	.308"	200gr.	SBT	3.560"			
	#2230	.308"	200gr.	HPBT Match	3.820"			
	#2231	.308"	200gr.	HPBT Match	3.940"*			
*requires 1 x 9" twist or faster twist								
Powder	Velocity	2700	2750	2800	2850	2900	2950	3000
RE 22		68.0	69.6	71.3	73.1	74.9	76.9	
N165		71.3	73.0	74.6	76.1			
IMR 7828ssc		71.8	73.4	75.0	76.5	78.0	79.4	
RE 25				76.9	78.8	80.7	82.3	83.9
IMR 7977 End.		78.4	79.8	81.1	82.4	83.7	84.9	86.1
H1000			73.9	75.6	77.4	79.1	80.9	82.7
Magnum				79.1	81.7	83.8	85.4	
Retumbo				77.3	79.3	81.1	82.8	84.3
RE 33				84.9	87.2	89.2	90.9	92.2
IMR 8133			80.2	82.3	84.3	86.0	87.6	89.1
US869		91.6	92.8	94.1	95.5	96.9	98.5	100.1
<b>Energy Ft. Lbs</b>		<b>3237</b>	<b>3358</b>	<b>3481</b>	<b>3607</b>	<b>3734</b>	<b>3864</b>	<b>3996</b>
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb				
<b>Accuracy Load</b>	RE 22	76.9	2950	3864				
<b>Hunting Load</b>	RE 25	83.9	3000	3996				
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		Bullet Caliber Weight Type							C.O.A.L.
		#9240	.308"	210gr.	HPBT Match				3.980"*
*requires 1 x 10" twist or faster twist									
Powder v	Velocity >	2600	2650	2700	2750	2800	2850	2900	
RE 22		66.7	68.4	70.0	71.7	73.4	75.0		
N165		68.0	70.0	71.9					
IMR 7828ssc		69.5	71.2	72.8	74.4	75.9	77.4		
RE 25				74.8	76.4	78.0	79.7	81.5	
IMR 7977 End.		75.5	77.1	78.8	80.3	81.8	83.3	84.7	
H1000				73.5	75.4	77.5	79.7	82.0	
Retumbo					76.4	78.6	80.7	82.8	
RE 33					83.2	85.6	87.8	89.7	
IMR 8133				80.4	82.5	84.5	86.2	87.7	
US869				90.3	92.0	93.8	95.6	97.6	
<b>Energy Ft. Lbs</b>		<b>3152</b>	<b>3274</b>	<b>3399</b>	<b>3526</b>	<b>3655</b>	<b>3787</b>	<b>3921</b>	
<b>Special Load</b>		<b>Powder</b>	<b>Grains</b>	<b>Velocity fps</b>		<b>Energy Ft. lb</b>			
<b>Accuracy Load</b>		US869	97.6	2900		3921			
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Bullet	Caliber	Weight	Type	C.O.A.L.			
	#2240	.308"	220gr. HPBT Match	3.940"*			
	#2180	.308"	220gr. RN	3.550"			
*requires 1 x 10" twist or faster twist							
Powder	Velocity	2600	2650	2700	2750	2800	2850
RE 22		68.1	70.1	72.0	73.7	75.4	
N165		71.1	73.0	75.0			
IMR 7828ssc		70.3	71.8	73.3	74.9		
RE 25		71.8	74.5	76.9	78.9	80.6	82.0
IMR 7977 End.		76.8	78.2	79.5	80.8	82.0	
H1000		73.1	75.1	77.0	78.7	80.2	81.6
Retumbo		73.2	75.6	77.7	79.7	81.3	82.8
IMR 8133		78.3	80.0	81.6	83.0	84.3	
<b>Energy Ft. Lbs</b>		<b>3302</b>	<b>3430</b>	<b>3561</b>	<b>3694</b>	<b>3829</b>	<b>3967</b>
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb			
<b>Accuracy Load</b>	Retumbo	82.8	2850	3967			
<b>Hunting Load</b>	RE 25	82.0	2850	3967			
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		Bullet	Caliber	Weight	Type	C.O.A.L.				
			#2251	.308"	230gr.	HPBT Match	3.940"*			
		*requires 1 x 8" twist or faster twist								
Powder	Velocity	2575	2600	2625	2650	2700	2750	2800		
IMR 7977 End.		86.5	85.6	84.8	83.6	83.1	83.1			
H1000		76.2	76.9	77.5	78.2	79.5	80.9 82.2			
Retumbo		80.2	80.4	80.6	80.8	81.5	82.3 83.2			
RE 33			83.7	84.6	86.3	88.0 89.5				
IMR 8133		82.7	82.9	83.2	83.4	84.1	85.0			
US869		91.1	91.5	91.9	92.4	93.4	94.6 95.9			
<b>Energy Ft. Lbs</b>		<b>3386</b>	<b>3452</b>	<b>3518</b>	<b>3586</b>	<b>3722</b>	<b>3862</b>	<b>4003</b>		
Special Load	Powder	Grains		Velocity fps		Energy Ft. lb				
<b>Accuracy Load</b>	IMR 7977 End.	83.1		2800		4003				
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		Bullet	Caliber	Weight	Type	C.O.A.L.				
			#9245	.308"	240gr.	HPBT Match	3.940"*			
		*requires 1 x 9" twist or faster twist								
Powder	Velocity	2400	2450	2500	2550	2600	2650	2700		
RE 22		59.9	62.7	65.4	67.9	70.1				
IMR 7828ssc		66.2	67.9	69.6	71.3	72.9				
RE 25		67.7	69.8	71.8	73.7	75.5	77.2	78.8		
IMR 7977 End.		72.1	73.6	75.0	76.4	77.8	79.2			
H1000		62.8	65.9	68.7	71.4	73.8	76.1			
Retumbo		66.6	68.6	70.6	72.6	74.5	76.4			
RE 33		75.2	77.3	79.2	81.0	82.8	84.4	86.0		
IMR 8133		72.8	74.8	76.7	78.4	80.0	81.4			
US869		81.5	83.4	85.1	86.8	88.5	90.1	91.6		
<b>Energy Ft. Lbs</b>		<b>3069</b>	<b>3198</b>	<b>3330</b>	<b>3465</b>	<b>3602</b>	<b>3742</b>	<b>3884</b>		
Special Load	Powder	Grains		Velocity fps		Energy Ft. lb				
<b>Accuracy Load</b>	Retumbo	76.4		2650		3742				
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