

# 338-378 WEATHERBY MAGNUM

## Test Specifications:

Firearm Used: Universal

Barrel Length: 24"

Twist: 1-10"

## Components:

Case: Norma

Trim-to Length: 2.900"

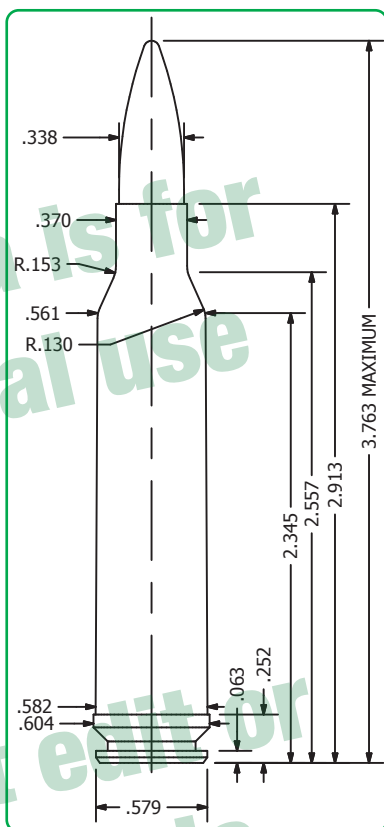
Primer: WLRM

## Remarks:


Roy Weatherby originally developed the 338-378 over 40 years ago, while experimenting with which cartridge to build his proprietary 338 caliber cartridge around. Based on the 378 Weatherby case necked down to accept a .338" diameter bullet, the cartridge had a bit too much capacity to be effective with the powders available at that time. As a result, the 340 Weatherby (a 300 Weatherby Magnum case necked up to .338") was given room in the family stable. Times change, and new powders become available, which has given a new lease on life to the old cartridge. It was added to the Weatherby line as a factory chambering in 1998.


Weatherby has always tried to provide the fastest and most powerful cartridge in any bore size. Despite newer developments such as the 338 Lapua and 338 Remington Ultra Mag, the 338-378 puts Weatherby right back at the forefront of the velocity race again. With trajectories rivaling those of the potent 7mm or 300 magnums and sufficient energy for any thin-skinned game on the planet, the 338-378 Weatherby has a lot to recommend it. Sierra offers three hunting designs that are suitable; the 215 and 225 for smaller big game species, and the 250 for tougher game. The cartridge has also seen some limited use in 1000-yard benchrest competition. For this application, Sierra has both the 250 and 300 grain BenchKings.

In keeping with its history, the powders of choice for the 338-378 are generally those slow-burning numbers introduced in the past few years. Hodgdon's H1000, Alliant's Reloder 25 and Vihtavouri N-170 are all good choices and will give excellent results in this cartridge. Primers are crucial in a case with this much capacity, as too mild a choice will give poor ignition and reduced accuracy. Designed with the capacious Weatherby cartridges in mind, Federal 215 primers are recommended to set things rolling. The 338-378 is a highly specialized round, but one that certainly meets its original intent.





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		Bullet	Caliber	Weight	Type	C.O.A.L.		
		#2610	.338"	215gr.	SBT	3.740"		
Powder	Velocity	2750	2850	2950	3050	3100	3150	
H4831sc				98.3	102.4	104.3		
N560			96.0	99.6	103.0	104.5		
RE 23			92.6	96.0	99.4	101.2		
IMR 7828ssc			96.3	99.8	103.0	104.5		
RE 25			103.0	106.1	109.0	110.3	111.5	
IMR 7977 End.	100.3		103.3	106.1	108.9	110.2		
H1000			99.8	103.5	106.8	108.3	109.7	
Magnum			101.5	104.7	108.0	109.7	111.4	
<b>Energy Ft. Lbs</b>		<b>3610</b>	<b>3877</b>	<b>4154</b>	<b>4440</b>	<b>4587</b>	<b>4736</b>	
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb				
<b>Accuracy Load</b>	IMR 7828ssc	104.5	3100	4587				
<b>Hunting Load</b>	RE 25	111.5	3150	4736				

		Bullet	Caliber	Weight	Type	C.O.A.L.			
		#2620	.338"	225gr.	SPT	3.740"			
Powder	Velocity	2725	2775	2825	2875	2925	2975	3000	
H4831sc			91.0	93.1	95.2	97.2			
N560		92.1	93.9	95.7	97.5	99.3	101.1	102.0	
RE 23			89.9	91.9	94.0	95.9	97.8	98.8	
IMR 7828ssc			93.1	95.5	97.7	99.5			
RE 25				99.3	101.2	103.1	105.0	105.9	
IMR 7977 End.	98.9	100.9	102.7	104.5	106.1	107.6	108.3		
H1000					98.4	101.2	103.9	105.1	
Magnum			99.2	101.0	103.0	105.0	107.0	108.1	
<b>Energy Ft. Lbs</b>		<b>3709</b>	<b>3847</b>	<b>3986</b>	<b>4129</b>	<b>4274</b>	<b>4421</b>	<b>4496</b>	
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb					
<b>Accuracy Load</b>	IMR 7828ssc	99.5	2925	4274					
<b>Hunting Load</b>	N560	102.0	3000	4496					

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Bullet		Caliber	Weight	Type	C.O.A.L.
	#2600	.338"	250gr.	SBT	3.740"
	#2650	.338"	250gr.	HPBT Match	3.900"

Powder	Velocity	2600	2650	2700	2750	2800	2850	2900
N560			89.4	91.9	94.2	96.3		
N565			95.2	97.1	99.1	101.0	103.0	
RE 23			88.4	90.5	92.6	94.6		
IMR 7828ssc			89.4	91.6	93.6	95.3	96.9	
RE 25			94.7	97.0	99.4	101.8	104.2	
IMR 7977 End.			96.1	97.8	99.5	101.3	103.2	105.2
H1000			93.7	95.7	97.8	100.1	102.7	
Magnum			95.6	97.1	98.7	100.3	102.0	103.7
Retumbo						98.8	102.6	105.1
RE 33				104.8	106.9	108.9	110.8	112.6
IMR 8133	96.9	99.2	101.4	103.5	105.4	107.1		
24N41		104.5	106.9	109.1	111.2	113.0		
US869			113.8	115.7	117.6	119.4	121.3	
<b>Energy Ft. Lbs</b>		<b>3752</b>	<b>3898</b>	<b>4046</b>	<b>4197</b>	<b>4351</b>	<b>4508</b>	<b>4668</b>

Special Load	Powder	Grains	Velocity fps	Energy Ft. lb
<b>Accuracy Load</b>	IMR 7828ssc	96.9	2850	4508
<b>Hunting Load</b>	N565	103.0	2900	4668

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

Bullet		Caliber	Weight	Type	C.O.A.L.
	#9300	.338"	300gr.	HPBT Match	3.900"*

\*requires 1 x 10" twist or faster twist

Powder	Velocity	2450	2500	2550	2600	2650	2675	2700
N565			90.5	92.6	94.7	97.0		
RE 25			88.6	91.9	94.9			
Magnum	91.7		93.6	95.6	97.7			
RE 33			95.2	97.3	99.3			
IMR 8133			95.3	98.0	100.3			
US869				109.9	112.4	114.4	115.3	116.1
<b>Energy Ft. Lbs</b>		<b>3998</b>	<b>4163</b>	<b>4331</b>	<b>4502</b>	<b>4677</b>	<b>4766</b>	<b>4855</b>

Special Load	Powder	Grains	Velocity fps	Energy Ft. lb
<b>Accuracy Load</b>	RE 25	94.9	2600	4502

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