

30-338 WINCHESTER MAGNUM

Test Specifications:

Firearm Used: Winchester M70

Barrel Length: 28.5"

Twist: 1 x 12"

Components:

Case: Reformed Super X 338 Win Mag

Trim-to Length: 2.490"

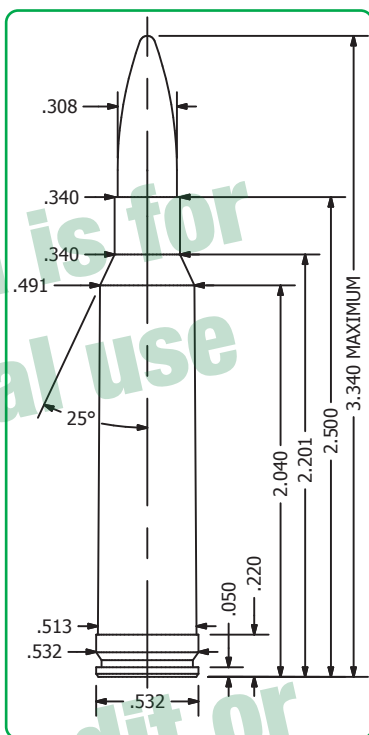
Primer: Winchester WLRM

Remarks:




The 30-338 is a wildcat made by necking the 338 Winchester Magnum down to accept .308" diameter bullets. Fred Huntington, an avid wildcatter and founder of RCBS, is generally given credit for creating this cartridge. When the 338 Winchester was introduced in 1958, Huntington chambered rifles and made dies for the 30-338 that same year. For some time, there was speculation that once Winchester brought out a 300 magnum, it would be a standardized version of the 30-338 wildcat. This was apparently not what Winchester had in mind because when they introduced the 300 Winchester Magnum in 1963, it was a slightly longer case having several grains more capacity.

The 30-338 is still a fairly popular wildcat, and has been used for long range target shooting. With its reduced capacity, the 30-338 is generally a bit more accurate than the Winchester or Weatherby magnums. The cartridge was used for many years by the Army Marksmanship Unit (AMU) rifle teams for 1000 yard matches. In 1968, SFC Charles Davis won both the Wimbledon Cup and Leech Cup by using the same 30-338 rifle in both matches. SFC Davis' load was 66.0 grains of IMR 4350, pushing a Sierra 190 grain MatchKing HPBT.

Although most of the 30-338 rifles have been for competitive target shooting, it is certainly a potent hunting cartridge as well. Offering substantially more power than the 30-06, the 30-338 will nearly equal the performance of the larger Winchester and Weatherby magnums. Loading for the 30-338 is not particularly difficult. Reforming 338 cases to accept 30 caliber bullets requires no special form dies and is an uncomplicated process. If a tapered expander ball is used, cases can also be formed by necking up 7mm Remington Magnum brass. While data is listed for the lighter bullets, the 30-338 is at its best with bullets of 168 grains or above.






30-338 WINCHESTER MAGNUM

	Bullet	Caliber	Weight	Type	C.O.A.L.
	#2100	.308"	110gr.	RN	3.000"
	#2105	.308"	110gr.	FMJ	3.000"
	#2110	.308"	110gr.	HP	3.100"
Powder	Velocity	3500	3600	3700	3800
IMR 3031		62.1	63.6	65.2	66.7
IMR 4895		65.3	67.4	69.6	71.7
IMR 4064		63.5	65.8	68.2	70.5
IMR 4320		63.5	66.0	68.5	71.0
H380		66.0	68.0	70.0	
IMR 4350		74.0	76.0	78.0	
Energy Ft. lbs		2992	3165	3343	3526
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb	
Accuracy Load	IMR 4064	68.2	3700	3343	
Hunting Load	IMR 4064	68.2	3700	3343	

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Bullet	Caliber	Weight	Type	C.O.A.L.
	#2120	.308"	125gr. SPT	3.200"
	#2121	.308"	125gr. HP Match	3.200"
	#7725	.308"	125gr. TMK Match	3.200"

Powder	Velocity	3200	3300	3400	3500
IMR 4064	58.7	61.0	63.4	65.7	
IMR 4320	62.3	63.8	65.2	66.7	
H380		63.6	66.1	68.6	
IMR 4350	69.9	71.8	73.8	75.7	
IMR 4831	72.3	74.3	76.3		
H4831	74.8	76.8	78.8		
MRP		74.5	76.5	78.5	
Energy Ft. lbs	2842	3022	3208	3399	

Special Load	Powder	Grains	Velocity fps	Energy Ft. lb
Accuracy Load	IMR 4350	71.8	3300	3022
Hunting Load	IMR 4350	71.8	3300	3022






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	Bullet	Caliber	Weight	Type	C.O.A.L.
	#2115	.308"	150gr.	FMJBT	3.275"
	#2130	.308"	150gr.	SPT	3.250"
	#2125	.308"	150gr.	SBT	3.250"
	#2190	.308"	150gr.	HPBT MatchKing	3.250"
	#2135	.308"	150gr.	RN	3.000"
	#2155	.308"	155gr.	HPBT Palma MatchKing	3.250"
	#7755	.308"	155gr.	TMK	3.250"

Powder ▾	Velocity >	3000	3100	3200	3300	3400
IMR 4064		58.1	60.2	62.2	64.3	
IMR 4320		59.0	61.0	63.1	65.1	
H380		60.4	62.3	64.3	66.2	
IMR 4350		65.6	67.7	69.8	71.9	74.0
IMR 4831		67.6	69.7	71.8	73.9	76.0
H4831		69.6	71.7	73.9	76.0	78.1
MRP		67.9	70.3	72.6	75.0	77.3
Energy Ft. lbs		2997	3200	3410	3626	3850

Special Load	Powder	Grains	Velocity fps	Energy Ft. lb
Accuracy Load	H4831	76.0	3300	3626
Hunting Load	H4831	78.1	3400	3850







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	Bullet	Caliber	Weight	Type	C.O.A.L.
	#2145	.308"	165gr.	SBT	3.250"
	#4665	.308"	165gr.	TGK	3.250"
	#2140	.308"	165gr.	HPBT	3.250"
	#2200	.308"	168gr.	HPBT MatchKing	3.250"
	#7768	.308"	168gr.	TMK	3.250"

Powder ∨	Velocity >	2700	2800	2900	3000	3100
IMR 4064		53.1	55.5	57.9	60.3	
IMR 4320		54.3	56.5	58.6	60.8	
H380		55.3	57.5	59.7	61.9	
IMR 4350			62.6	64.5	66.5	68.4
IMR 4831			64.5	66.5	68.5	70.5
H4831			66.8	68.7	70.6	72.5
MRP			64.6	66.9	69.3	71.6
Energy Ft. lbs		2670	2872	3081	3297	3520

Special Load	Powder	Grains	Velocity fps	Energy Ft. lb
Accuracy Load	H4831	70.6	3000	3297
Hunting Load	H4831	72.5	3100	3520


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	Bullet	Caliber	Weight	Type	C.O.A.L.
	#2275	.308"	175gr.	HPBT MatchKing	3.250"
	#7775	.308"	175gr.	TMK	3.250
	#2150	.308"	180gr.	SPT	3.250"
	#2160	.308"	180gr.	SBT	3.250"
	#2220	.308"	180gr.	HPBT MatchKing	3.250"
	#2170	.308"	180gr.	RN	3.200"

Powder	Velocity	2800	2900	3000	3100
IMR 4064		56.5	59.0	61.5	
IMR 4320		58.0	60.4	62.7	
H380		59.0	61.4	63.8	
IMR 4350		63.1	65.2	67.2	69.3
IMR 4831		65.0	67.1	69.3	71.4
H4831		67.3	69.3	71.3	73.3
MRP		65.7	67.9	70.0	72.2
Energy Ft. lbs		3046	3267	3497	3734



Special Load	Powder	Grains	Velocity fps	Energy Ft. lb
Accuracy Load	H4831	71.3	3000	3497
Hunting Load	H4831	73.3	3100	3734

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Bullet Caliber Weight Type						C.O.A.L.
	#2210	.308"	190gr.	HPBT MatchKing		3.290"
Powder ▾	Velocity >	2600	2700	2800	2900	3000
IMR 4064		52.0	54.3	56.6		
IMR 4320		53.2	55.6	58.0		
H380		55.8	58.9	62.0		
IMR 4350		60.2	62.4	64.5	66.7	
IMR 4831		62.0	64.2	66.5	68.7	
H4831		64.4	66.4	68.3	70.3	
MRP		62.6	65.1	67.5	70.0	
Energy Ft. lbs		2851	3075	3307	3547	3796
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb		
Accuracy Load	IMR 4350	64.5	2900	3547		
<i>Sierra does not recommend MatchKing bullets for hunting applications.</i>						



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		Bullet	Caliber	Weight	Type	C.O.A.L.
		#2165	.308"	200gr.	SBT	3.275"
		#2230	.308"	200gr.	HPBT MatchKing	3.290"
Powder	Velocity	2600	2700	2800	2900	3000
IMR 4064		53.8	56.3	58.8		
IMR 4320		54.6	57.1	59.6		
H380		57.0	59.2	61.4		
IMR 4350			61.3	63.6	66.0	68.3
IMR 4831			63.0	65.4	67.8	70.2
H4831			65.9	67.8	69.7	71.6
MRP			63.5	65.9	68.2	70.6
Energy Ft. lbs		3002	3237	3481	3734	3996
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb		
Accuracy Load	H4831	69.7	2900	3734		
Hunting Load	H4831	71.6	3000	3996		

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30-338 WINCHESTER MAGNUM

Bullet	Caliber	Weight	Type	C.O.A.L.
	#2240	.308"	220gr. HPBT MatchKing	3.290"*
	#2180	.308"	220gr. RN	3.210"

*requires 1 x 10" twist or faster twist

Powder ∨	Velocity >	2400	2500	2600	2700	2800
IMR 4320		52.2	54.3	56.5	58.6	
IMR 4350			58.6	61.0	63.5	65.9
IMR 4831			60.2	62.7	65.2	67.7
H4831			62.2	64.7	67.3	69.8
MRP			60.9	63.4	65.9	68.4
Energy Ft. lbs		2813	3053	3302	3561	3829

Special Load	Powder	Grains	Velocity fps	Energy Ft. lb
Accuracy Load	H4831	67.3	2700	3561
Hunting Load	H4831	67.3	2700	3561

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