

8mm-06 SPRINGFIELD

Test Specifications:

Firearm Used: Savage Model 116

Barrel Length: 26"

Twist: 1 x 10"

Components:

Case: Federal (reformed 30 06)

Trim-to Length: 2.474"

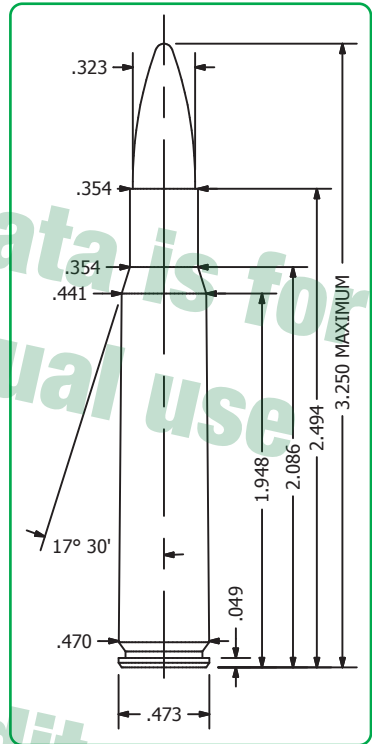
Primer: Fed 210

Remarks:


After the end of the Second World War, U.S. shooters fell heir to a huge number of 8mm Model 98 Mausers, compliments of the recently defunct German Wehrmacht. Many of these new owners weren't content to hang their trophies on the wall; they wanted to shoot them as well. Here in the United States, 8x57(JS) ammunition was not yet readily available. Not to be put off by a minor supply problem, enterprising handloaders created the 8mm-06 wildcat. Exactly as the name implies, this is the standard 30-06 case, necked up to accept 8mm bullets. The simple rechambering of a souvenir Mauser allowed the use of G.I. surplus 30-06 cases with a minimum amount of case reforming. The conversion was inexpensive, effective, and allowed handloaders to use rifles that would have otherwise been unusable. As an added bonus, the slightly greater capacity of the 30-06 case allowed higher velocities than the original chambering.

For the handloader who wants to experiment with a wildcat, the 8mm-06 is a good place to start. Cases can be formed with little or no difficulty, parent cases for the conversion are plentiful and inexpensive, and the performance of the original chambering can be substantially improved. All things considered, the 8mm-06 is a very good cartridge. It should be no surprise then that a similar European cartridge has been in existence since around 1912. The 8x64mm Brenneke is almost identical in both performance and physical dimensions.


As a hunting cartridge, the 8mm-06 is adequate for most North American big game. Like the 8x57(JS), it is best served by the 150 grain Spitzer for deer and antelope while the 175 grain is better suited for larger, tougher game, such as black bear, elk and moose. As is the case with the 8x57(JS), the 8mm-06 cannot generate sufficient velocity to reliably expand the tough 220 grain Spitzer boat tail on game.




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Bullet Caliber Weight Type		C.O.A.L.						
	#2400 .323" 150gr. SPT	3.210"						
Powder ∨	Velocity >	2700	2800	2900	3000	3050	3100	3150
IMR 3031		45.6	47.4	49.2	51.0	51.9		
BL C(2)		50.0	52.0	54.0	56.0			
H4895		47.9	49.6	51.3	53.0	53.9	54.7	
A 2495		48.5	50.3	52.1	53.9	54.8		
IMR 4895		48.5	50.2	51.9	53.6	54.5	55.3	56.2
Varget		49.1	50.8	52.5	54.2	55.1	55.9	
IMR 4064		49.6	51.2	52.9	54.4	55.2	56.0	56.8
A 2520		46.8	48.7	50.6	52.5	53.5	54.4	55.4
IMR 4320		51.0	52.8	54.6	56.4	57.3	58.2	
Viht N140		49.0	50.9	52.8	54.7	55.7		
RE 15		48.7	50.5	52.3	54.1	55.0		
H380		52.6	54.7	56.8	58.9	60.0	61.0	
760		54.9	57.2	59.5	61.8			
Energy Ft. lbs		2428	2611	2801	2997	3098	3200	3304
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb				
Accuracy Load	H4895	53.9	3050	3098				
Hunting Load	IMR 4064	56.8	3150	3304				


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Bullet		Caliber	Weight	Type	C.O.A.L.			
	#2410	.323"	175gr.	SPT	3.210"			
Powder	Velocity	2500	2600	2700	2800	2850	2900	2950
IMR 3031		44.2	45.9	47.6	49.3	50.2	51.0	
748			45.4	48.6	51.8	53.4		
BL C(2)		46.9	49.1	51.3	53.5			
H4895		45.3	47.1	48.9	50.7	51.6	52.5	
IMR 4895		45.6	47.4	49.2	51.0	51.9	52.8	
Varget		45.8	47.7	49.6	51.5	52.5	53.4	
IMR 4064		45.9	47.7	49.5	51.3	52.2	53.1	54.0
A 2520		45.4	47.2	49.0	50.8	51.7	52.6	53.5
IMR 4320		48.1	49.9	51.7	53.5	54.4	55.3	
Viht N140		45.5	47.5	49.5	51.5	52.5	53.5	
A 2700		51.3	53.6	55.9	58.2			
RE 15		45.2	47.1	49.0	50.9	51.9	52.8	
H380		48.8	51.0	53.2	55.4	56.5	57.6	58.7
760		50.6	52.7	54.8	56.9	58.0	59.0	
IMR 4350		52.2	54.1	56.0	57.9	58.9		
IMR 4831		54.8	56.9	59.0	61.1			
Energy Ft. lbs		2428	2626	2832	3046	3156	3267	3381
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb				
Accuracy Load	IMR 4831	61.1	2800	3046				
Hunting Load	H4895	52.5	2900	3267				

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Bullet Caliber Weight Type						C.O.A.L.
						#2415 .323" 200gr. HPBT MatchKing 3.230"
Powder ∨	Velocity >	2300	2400	2500	2600	2700
IMR 3031		39.9	41.8	43.7	45.6	47.5
748			44.8	46.9	49.0	51.1
BL C(2)			45.5	47.7	49.9	52.1
H4895		41.8	43.8	45.8	47.8	49.8
IMR 4895		42.0	43.9	45.8	47.7	49.6
Varget		42.0	44.0	46.0	48.0	50.0
IMR 4064		42.6	44.4	46.2	48.0	49.8
A 2520		41.8	43.6	45.4	47.2	49.0
IMR 4320		44.3	46.1	47.9	49.7	51.5
Viht N140		42.9	44.7	46.5	48.3	
A 2700		46.8	49.2	51.6	54.0	
RE 15		41.8	43.8	45.8	47.8	49.8
H380		45.9	48.0	50.1	52.2	54.3
760		46.1	48.3	50.5	52.7	54.9
IMR 4350		48.1	50.1	52.1	54.1	56.1
IMR 4831		51.0	53.0	55.0	57.0	59.0
Energy Ft. lbs		2349	2558	2775	3002	3237
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb		
Accuracy Load	IMR 4831	57.0	2600	3002		
<i>Sierra does not recommend MatchKing bullets for hunting applications.</i>						

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Bullet Caliber Weight Type								C.O.A.L.
		#2420	.323"	220gr.	SBT			3.225"
Powder	Velocity	2100	2200	2300	2400	2500	2550	
IMR 3031		38.8	40.8	42.8	44.8			
A 2520		38.5	40.0	41.5	43.0	44.5	45.3	
IMR 4320		40.8	42.6	44.4	46.2	48.0		
A 2700		43.6	45.9	48.2	50.5			
H380		42.0	44.2	46.4	48.6			
760		42.8	45.1	47.4	49.7			
A 4350		44.9	46.9	48.9	50.9	52.9		
IMR 4350		44.0	46.0	48.0	50.0	52.0	53.0	
H4350		44.4	46.4	48.4	50.4	52.4		
RE 19		47.2	49.2	51.2	53.2	55.2	56.2	
Viht N160		44.0	46.2	48.4	50.6	52.8	53.9	
IMR 4831		46.5	48.6	50.7	52.8	54.9	56.0	
H4831 SC		46.7	49.1	51.5	53.9	56.3		
Energy Ft. lbs		2154	2364	2584	2813	3053	3176	
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb				
Accuracy Load	IMR 4350	52.0	2500	3053				
Hunting Load	IMR 4350	53.0	2550	3176				

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