

# 30-06 SPRINGFIELD

## Test Specifications:

Firearm Used: Universal

Barrel Length: 24"

Twist: 1-10"

## Components:

Case: Winchester

Trim-to Length: 2.485"

Primer: WLR

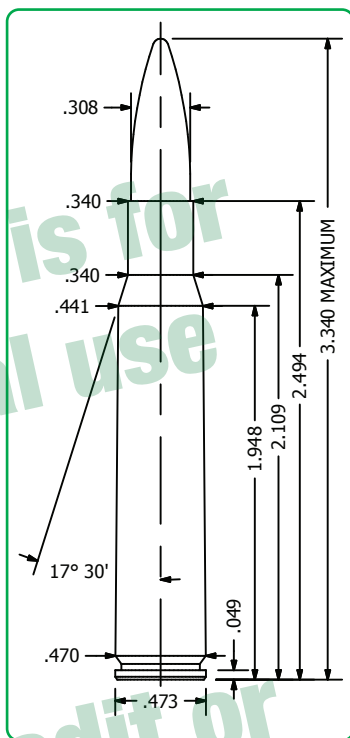
## Remarks:

The 30-06 Springfield is one of our all-time classic cartridges. Adopted as the standard U.S. military cartridge in 1906, the 30-06 served through both world wars, Korea, and several smaller conflicts around the globe. In addition to its military duties, the 30-06 was also an instant success in the hunting fields.




Originally, this cartridge was adopted in 1903 along with the Model 1903 Springfield rifle. Designated as the 30-03, military specifications called for a 220 grain bullet at 2200 fps. Severe bore erosion with the nitroglycerin-based powder that was used at the time forced a reduction in velocity to approximately 2000 fps. This effectively duplicated the performance of the 30/40 Krag, which it was intended to replace. With Germany's introduction of the revolutionary high-velocity Spitzer loading around 1905, U.S. Ordnance modified the cartridge to keep pace. Reducing the case length slightly, the loading was changed to a 150 grain bullet at 2700 fps. Redesignated as the 30-06, it is still the case used today.

For handloading, the 30-06 Springfield is a versatile cartridge. Powder selection covers a very broad range indeed. Powder as fast as IMR-3031 all the way down the chart to extremely slower-burning numbers such as RE-23, H1000, Vihtavuori N165, etc. can find good usage. There is one notable exception to this pattern — the M1 Garand rifle. Powders in the medium-burning range must be used when loading for a Garand. Due to its system of operation, the Garand can be damaged by improper powder selection, even if the loads themselves are perfectly safe. We have had our best results in Garands when using IMR-4895, IMR-4064, A2495, Vihtavuori N140, Varget, and RE-15.




New bullet development will certainly give this cartridge some interesting opportunities. The GameChanger line, being a heavily constructed bullet with match accuracy, new life can be given to cartridges like the time proven 30-06.





## 30-06 SPRINGFIELD

	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	3050	3150	3200	3250	3300	3350	3400
IMR 3031	49.7	51.4	52.2	53.0	53.8	54.6		
Benchmark				51.5	52.5	53.5	54.4	
IMR 8208 XBR		51.9	52.8	53.7	54.5	55.2	56.0	
H4895			51.2	52.3	53.4	54.5	55.5	
IMR 4166 End.	50.2	51.8	52.6	53.5	54.4	55.3		
IMR 4064		53.6	54.4	55.2	56.1	57.1		
RE 15		54.1	54.9	55.6	56.3	57.0	57.7	
Varget			53.7	54.5	55.4	56.3	57.3	
Win 748	51.6	53.3	54.1	55.0	55.8	56.7		
Big Game			57.1	57.8	58.6	59.6	60.7	
<b>Energy Ft. Lbs</b>		<b>2272</b>	<b>2423</b>	<b>2501</b>	<b>2579</b>	<b>2659</b>	<b>2741</b>	<b>2823</b>
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb				
<b>Accuracy Load</b>	Benchmark	54.4	3400	2823				
<b>Hunting Load</b>	Benchmark	54.4	3400	2823				









**30-06 SPRINGFIELD**

	Bullet	Caliber	Weight	Type	C.O.A.L.				
	#2120	.308"	125gr.	SPT					3.160"
	#2121	.308"	125gr.	HP Match					3.330"
	#7725	.308"	125gr.	TMK Match					3.330"
Powder	Velocity	2700	2800	2900	3000	3100	3200	3300	
IMR 3031				48.4	50.0	51.7	53.5		
H335				50.6	52.5	54.2	55.8		
IMR 8208 XBR					50.6	52.3	53.9		
H4895					49.8	51.6	53.3		
IMR 4895				49.2	51.0	52.6	54.3		
IMR 4166 End.		48.3	49.5	50.9	52.4				
IMR 4064		48.5	50.1	51.7	53.5				
RE 15				50.7	52.5	54.1	55.6		
Varget				49.7	51.5	53.3	55.1		
H380				53.7	55.4	57.5	59.9	62.7	
Big Game					55.0	57.1	59.2		
Win 760					57.8	60.0	62.3		
RE 17	52.8	54.8	56.5	58.1	59.6	60.9			
<b>Energy Ft. Lbs</b>	<b>2023</b>	<b>2176</b>	<b>2334</b>	<b>2498</b>	<b>2667</b>	<b>2842</b>	<b>3022</b>		
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb					
<b>Accuracy Load</b>	IMR 4064	53.5	3100	2667					
<b>Hunting Load</b>	H380	62.7	3300	3022					
<i>Sierra does not recommend MatchKing bullets for hunting applications.</i>									

# 30-06 SPRINGFIELD

Bullet		Caliber	Weight	Type	C.O.A.L.			
	#2123	.308"	135gr.	HPBT Match	3.220"			
	#2124	.308"	135gr.	HP	3.110"			
Powder	Velocity	2600	2700	2800	2900	3000	3100	3200
IMR 3031			45.5	47.3	49.0	50.8		
H335				49.3	52.4	54.5	55.6	
IMR 8208 XBR				48.0	49.6	51.4	53.2	
H4895				47.5	49.5	51.5	53.3	
IMR 4895				48.5	50.7	52.6		
IMR 4166 End.	45.3	47.1	48.9	50.6	52.2	53.9		
IMR 4064		48.0	49.9	51.8	53.9			
RE 15				49.9	51.4	53.1	54.8	56.6
Varget				49.4	51.0	52.7	54.4	
H380				53.0	54.6	56.5	58.6	
Big Game				52.2	54.1	56.1	57.9	
Win 760					57.5	59.6	61.7	
RE 17	51.5	53.2	54.8	56.4	58.0	59.5		
<b>Energy Ft. Lbs</b>		<b>2026</b>	<b>2185</b>	<b>2350</b>	<b>2521</b>	<b>2697</b>	<b>2880</b>	<b>3069</b>
Special Load	Powder	Grains	Velocity	fps	Energy	Ft. lb		
<b>Accuracy Load</b>	IMR 4166 End.	53.9	3100		2880			
<b>Hunting Load</b>	RE 15	56.6	3200		3069			
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## 30-06 SPRINGFIELD

Bullet	Caliber	Weight	Type	C.O.A.L.
	#2115	.308"	150gr. FMJBT	3.250"
	#2130	.308"	150gr. SPT	3.225"
	#2125	.308"	150gr. SBT	3.225"
	#2190	.308"	150gr. HPBT Match	3.230"
	#2135	.308"	150gr. RN	3.000"
	#2155	.308"	155gr. HPBT Match	3.230"
	#2156	.308"	155gr. HPBT Match Palma	3.290"
	#7755	.308"	155gr. TMK Match	3.330"






Powder	Velocity	2450	2550	2650	2750	2850	2950	3000
IMR 3031		43.7	45.5	47.3	49.1			
IMR 8208 XBR				45.3	47.4	49.4	51.4	
H4895					47.6	49.4	51.3	52.2
IMR 4895		44.8	46.6	48.4	50.3	52.2		
IMR 4166 End.			46.6	48.5	50.4	52.2		
IMR 4064				47.5	49.5	51.3		
A 4064		46.8	48.5	50.2	51.8	53.4		
RE 15			47.4	49.7	51.8	53.7	54.5	
Varget			46.1	48.3	50.5	52.7	53.8	
Big Game			49.9	52.1	54.1	56.0	56.9	
N540			48.4	50.7	52.7	54.5	55.3	
Win 760				53.9	56.3	58.6	59.8	
IMR 4350			52.2	54.4	56.4	58.4		
IMR 4451 End.	50.5	52.4	54.4	56.5	58.7			
H4350			53.4	55.0	56.9	58.9	60.0	
RE 17			51.1	53.0	54.9	56.9	57.9	
RE 22		54.7	56.7	58.6	60.3			
<b>Energy Ft. Lbs</b>		<b>1999</b>	<b>2165</b>	<b>2339</b>	<b>2518</b>	<b>2705</b>	<b>2898</b>	<b>2997</b>

Special Load	Powder	Grains	Velocity fps	Energy Ft. lb
<b>Accuracy Load</b>	H4350	60.0	3000	2997
<b>Hunting Load</b>	H4895	52.2	3000	2997

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## 30-06 SPRINGFIELD

	Bullet	Caliber	Weight	Type	C.O.A.L.
	#2145	.308"	165gr.	SBT	3.320"
	#2140	.308"	165gr.	HPBT	3.220"
	#4665	.308"	165gr.	TGK	3.340"
	#2200	.308"	168gr.	HPBT Match	3.320"
	#7768	.308"	168gr.	TMK Match	3.330"







Powder	Velocity	2300	2400	2500	2600	2700	2800	2900
IMR 3031	40.5	42.4	44.1	45.8	47.4			
IMR 8208 XBR				44.4	46.1	47.9	49.7	
H4895	40.5	42.6	44.5	46.3	48.0	49.7		
IMR 4895		43.2	45.3	47.2	48.7	50.1		
IMR 4166 End.				44.4	46.1	47.8	49.6	
IMR 4064				45.7	47.4	49.0		
A 4064		44.6	46.6	48.4	50.1	51.6		
RE 15					47.6	49.4	51.2	53.1
Varget		44.1	45.9	47.6	49.3	50.8		
Big Game				48.4	50.1	51.9	53.8	
N540					48.5	50.2	51.8	
Win 760		48.2	51.0	53.4	55.4	56.9		
IMR 4350		49.3	50.6	52.3	54.5	57.0		
IMR 4451 End.		49.9	51.7	53.5	55.5	57.5		
A 4350				52.4	53.8	55.9	58.6	
H4350				51.2	52.4	53.9	55.8	58.0
RE 17				49.5	50.9	52.4	54.2	56.1
RE 19		52.7	54.0	55.7	57.6	59.8		
H4831sc		53.0	54.7	56.5	58.6			
RE 22		52.5	54.1	55.8	57.8	60.0		
<b>Energy Ft. Lbs</b>		<b>1938</b>	<b>2110</b>	<b>2289</b>	<b>2476</b>	<b>2670</b>	<b>2872</b>	<b>3081</b>



Special Load	Powder	Grains	Velocity fps	Energy Ft. lb
<b>Accuracy Load</b>	H4895	49.7	2800	2872
<b>Hunting Load</b>	RE 15	53.1	2900	3081

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## 30-06 SPRINGFIELD




	Bullet	Caliber	Weight	Type	C.O.A.L.			
	#2275	.308"	175gr.	HPBT Match	3.320"			
	#7775	.308"	175gr.	TMK Match	3.330"			
	#2150	.308"	180gr.	SPT	3.300"			
	#2160	.308"	180gr.	SBT	3.300"			
	#2220	.308"	180gr.	HPBT Match	3.320"			
	#2170	.308"	180gr.	RN	3.200"			
Powder	Velocity	2200	2300	2400	2500	2600	2700	2800
H4895		39.5	41.6	43.6	45.5	47.3		
IMR 4166 End.				43.5	45.4	47.2	48.9	
IMR 4064				44.3	46.6	48.5		
A 4064				45.0	47.0	48.8	50.5	
RE 15					46.5	48.5	50.3	
Varget					46.2	48.3	50.2	
Big Game				46.9	48.6	50.5	52.5	
N540				44.6	46.5	48.6	50.6	
Win 760				47.7	50.1	52.4	54.6	
IMR 4350				49.3	50.9	52.9		
IMR 4451 End.				50.3	52.2	54.0	55.9	
A 4350					51.8	53.5	55.5	57.8
H4350					50.2	51.9	54.0	
RE 16					49.1	51.2	53.2	55.2
RE 17				48.0	49.5	51.1	52.8	54.6
Hunter				50.0	52.2	54.2	56.2	58.1
H4831sc				51.9	53.7	55.9	58.8	
RE 22		50.3	51.9	53.6	55.3	57.1	58.9	
<b>Energy Ft. Lbs</b>		<b>1880</b>	<b>2055</b>	<b>2238</b>	<b>2428</b>	<b>2626</b>	<b>2832</b>	<b>3046</b>
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb				
<b>Accuracy Load</b>	RE 22	58.9	2800	3046				
<b>Hunting Load</b>	A 4350	57.8	2800	3046				
<i>Sierra does not recommend MatchKing bullets for hunting applications.</i>								

# 30-06 SPRINGFIELD

Bullet	Caliber	Weight	Type	C.O.A.L.							
	#2210	.308"	190gr.	HPBT Match	3.320"						
	#7795	.308"	195gr.	TMK	3.330"*						
*requires 1 x 10" twist or faster twist											
Powder	Velocity	2100	2200	2300	2400	2500	2600	2700			
H4895	37.5	39.6	41.6	43.5	45.4						
IMR 4064		41.3	42.8	44.4	46.0						
Big Game		43.7	45.1	46.7	48.5	50.6					
Win 760				48.4	51.0	53.2					
IMR 4350				47.9	50.2	52.3					
IMR 4451 End.		46.2	47.9	49.6	51.5	53.3					
A 4350				49.8	51.5	53.1	54.9	56.6			
H4350					49.3	51.0	52.8	54.8			
RE 16				47.1	48.8	50.6	52.7	54.9			
RE 17				46.4	48.2	50.0	51.8	53.5			
Hunter					50.2	52.3	54.5	56.6			
H4831sc				50.5	53.0	55.3	57.6				
IMR 4955 End.				49.5	51.4	53.6					
RE 22				51.1	52.3	53.8	55.7	57.9			
N560				52.9	54.6	56.5	58.4				
<b>Energy Ft. Lbs</b>		<b>1860</b>	<b>2042</b>	<b>2231</b>	<b>2430</b>	<b>2636</b>	<b>2851</b>	<b>3075</b>			
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb							
<b>Accuracy Load</b>	Hunter	56.6	2700	3075							
<b>Hunting Load</b>	A 4350	56.6	2700	3075							
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## 30-06 SPRINGFIELD

Bullet	Caliber	Weight	Type	C.O.A.L.
	#2165	.308"	200gr. SBT	3.320"
	#2230	.308"	200gr. HPBT Match	3.320"
	#2231	.308"	200gr. HPBT Match	3.580"*


\*requires 1 x 9" twist or faster twist

Powder	Velocity	2050	2150	2250	2350	2450	2550	2600
IMR 4350		45.2	46.8	48.5	50.5	52.5		
IMR 4451 End.		45.8	47.7	49.5	51.4	53.2		
A 4350			48.0	50.1	52.2	54.3	55.4	
H4350			46.8	48.5	50.3	52.1	53.1	
RE 16			46.3	47.9	49.7	51.7	52.8	
RE 17			45.8	47.4	49.1	50.8	51.6	
Hybrid 100V			45.3	47.0	48.8	50.8	51.8	
Hunter				49.7	51.7	53.7	54.8	
H4831sc			50.4	51.9	53.8	56.0	57.3	
IMR 4955 End.			48.5	50.3	52.3			
RE 22				51.5	53.0	54.9	56.0	
N560			52.2	53.8	55.6	57.6	58.6	
IMR 7977 End.		53.2	54.8	56.6	58.7			
H1000		52.3	53.9	55.9	58.1			
Magnum	52.2	53.8	55.8	58.0	60.5			
<b>Energy Ft. Lbs</b>	<b>1866</b>	<b>2052</b>	<b>2248</b>	<b>2452</b>	<b>2665</b>	<b>2887</b>	<b>3002</b>	

Special Load	Powder	Grains	Velocity fps	Energy Ft. lb
<b>Accuracy Load</b>	RE 16	52.8	2600	3002
<b>Hunting Load</b>	A 4350	55.4	2600	3002



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# 30-06 SPRINGFIELD

Bullet		Caliber	Weight	Type	C.O.A.L.					
		#9240	.308"	210gr.	HPBT Match	3.330"*				
*requires 1 x 10" twist or faster twist										
Powder	Velocity	2050	2150	2250	2350	2450	2550	2600		
IMR 4451 End.			46.2	47.8	49.6	51.7				
A 4350			46.6	48.2	50.2	52.6				
H4350			45.1	46.6	48.4	50.5				
RE 16				46.1	48.0	50.0	52.4			
RE 17			44.1	45.9	47.7	49.5	51.3			
Hunter			46.1	47.5	49.4	51.7	54.4			
H4831sc			48.3	50.3	52.4	54.7	57.1			
IMR 4955 End.	45.1		46.8	48.6	50.6	52.8				
RE 22				50.0	51.8	53.8	55.9	57.1		
N560			50.2	52.1	53.9	55.7	57.4			
H1000			51.8	53.9	56.1	58.4				
<b>Energy Ft. Lbs</b>		<b>1959</b>	<b>2155</b>	<b>2360</b>	<b>2575</b>	<b>2798</b>	<b>3032</b>	<b>3152</b>		
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb						
<b>Accuracy Load</b>	Hunter	54.4	2550	3032						
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**30-06 SPRINGFIELD**

Bullet	Caliber	Weight	Type	C.O.A.L.
	#2240	.308"	220gr. HPBT Match	3.330"*
	#2180	.308"	220gr. RN	3.200


\*requires 1 x 10" twist or faster twist

Powder ▾	Velocity >	2000	2100	2200	2300	2400	2450	2500
IMR 4451 End.			45.1	46.9	48.7	50.6	51.5	
A 4350			45.8	47.4	49.3	51.4	52.6	53.8
H4350			44.1	45.8	47.7	49.7	50.8	
RE 16			43.1	45.1	47.1	49.2	50.2	51.2
RE 17				44.6	46.2	48.0	49.1	50.2
Hunter				46.3	48.2	50.4	51.6	52.8
H4831sc				47.5	49.1	50.9	53.2	54.4
IMR 4955 End.		44.1	45.9	47.8	49.7			
RE 22			46.6	48.4	50.2	52.1	53.1	54.1
N560			49.1	50.6	52.3	54.4	55.5	56.7
IMR 7977 End.				52.9	55.2	57.2	58.2	
H1000				51.9	54.3	56.9	58.4	59.9
Magnum				54.9	57.3	60.0		
<b>Energy Ft. Lbs</b>		<b>1954</b>	<b>2154</b>	<b>2364</b>	<b>2584</b>	<b>2813</b>	<b>2932</b>	<b>3053</b>


Special Load	Powder	Grains	Velocity fps	Energy Ft. lb
<b>Accuracy Load</b>	RE 17	50.2	2500	3053
<b>Hunting Load</b>	A 4350	53.8	2500	3053

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# 30-06 SPRINGFIELD

		Bullet Caliber Weight Type							C.O.A.L.
		#2251	.308"	230gr.	HPBT Match				3.680"*
*requires 1 x 8" twist or faster twist									
Powder	Velocity	1950	2050	2150	2250	2350	2450	2500	
IMR 4350				45.6	48.0	50.0			
IMR 4451 End.					47.9	49.8	51.6		
A 4350					49.1	50.9	52.7		
H4350					46.8	48.6	50.8		
RE 16					46.2	48.3	50.3	51.3	
Hybrid 100V					45.3	47.6	49.8		
RE 19						52.6	54.5	55.6	
Hunter				46.1	48.3	50.3			
H4831sc					50.7	52.4	54.4		
IMR 4955 End.			45.3	46.8	48.5	50.2			
RE 22				48.3	50.2	52.0	53.7	54.6	
N560		46.3	48.3	50.3	52.2	54.2	56.1		
N165			49.2	51.4	53.6	55.8			
IMR 7977 End.					54.5	56.5	58.5		
H1000					53.5	55.7	58.1	59.4	
Magnum			52.0	54.3	56.8	59.6			
<b>Energy Ft. Lbs</b>		<b>1942</b>	<b>2146</b>	<b>2360</b>	<b>2585</b>	<b>2820</b>	<b>3065</b>	<b>3191</b>	
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb					
<b>Accuracy Load</b>	RE 16	51.3	2500	3191					
<i>Sierra does not recommend MatchKing bullets for hunting applications.</i>									

**30-06 SPRINGFIELD**

Bullet		Caliber	Weight	Type	C.O.A.L.			
	#9245	.308"	240gr.	HPBT Match	3.380"*			
*requires 1 x 9" twist or faster twist								
Powder	Velocity	> 1800	1900	2000	2100	2200	2300	2400
A 4350					45.6	47.5	49.6	
H4350				42.3	44.3	46.3	48.4	
RE 16				41.2	43.4	45.5	47.7	
Hunter					45.0	47.2	49.3	
H4831sc				45.2	46.7	48.7	51.1	
IMR 4955 End.	41.1	42.8	44.4	46.1	47.8			
RE 22			45.4	47.3	49.1	50.9	52.5	
N560			47.1	48.9	50.8	52.9		
N165				50.3	52.5	54.7		
IMR 7977 End.			49.1	51.0	53.0	55.2		
H1000					51.2	54.0	56.9	
Magnum			50.9	53.1	55.5	58.2		
<b>Energy Ft. Lbs</b>	<b>1726</b>	<b>1923</b>	<b>2131</b>	<b>2350</b>	<b>2579</b>	<b>2819</b>	<b>3069</b>	
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb				
<b>Accuracy Load</b>	Magnum	58.2	2300	2819				
<i>Sierra does not recommend MatchKing bullets for hunting applications.</i>								