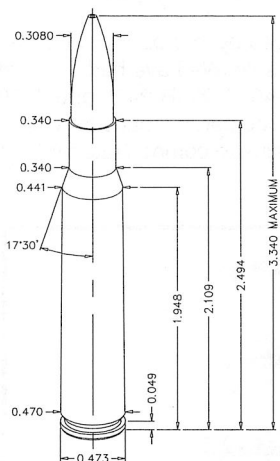


30-06 Springfield



Test Specifications/ Components

Firearm Used: Savage 116

Barrel Length: 26"

Twist: 1 x 10"

Case: Federal

Trim-to Length: 2.485"

Primer: Federal 210

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. As a big game cartridge, the 30-06 has probably been used to take every major species in the world. It is the most popular cartridge for big game here in the United States, and is likely to remain so for the foreseeable future. And for good reason. With standard bullet weights ranging from 110 to 220 grains, the 30-06 is capable of taking on anything from the smallest varmints to the largest North American species. The 30-06 can be tailored to almost any hunting situation with proper bullet selection.

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, however, is slightly complicated by the wide range of bullet weights. As a general rule, powders having a "medium" burning rate will normally perform best with the mid-range bullet weights of 150 to 168 grains. Heavier bullets from 180 to 220 grains are best served by the slower-burning powders, such as 3100, IMR-4831 or MRP. Faster powders, such as IMR-3031, 2230 and 748, are the best choice for lightweight 110 or 125 grain bullets. 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

30-06 Springfield continued

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, XMR-2495 and 2520. Military brass for the 30-06 is still frequently encountered. Loads for G.I. cases should be reduced by one to one and a half grains to compensate for their heavier construction.

#2100 .308" 110 gr. RN
C.O.A.L. 3.000"



#2105 .308" 110 gr. FMJ
C.O.A.L. 3.000"



#2110 .308" 110 gr. HP
C.O.A.L. 3.100"



Powder/Velocity→	3000	3100	3200	3300	3400	3500
Viht N133		46.1	48.2	50.3		
IMR-3031	47.3	48.6	49.9	51.2		
H322		45.8	47.8	49.8		
AA-2230		47.4	48.6	49.8		
BL-C(2)	48.6	50.9	53.2			
TAC				53.4	54.5	55.6
XMR-2495		51.2	52.7	54.2		
IMR-4895	49.1	50.7	52.3	53.9		
Varget	50.6	52.2	53.8	55.4		
IMR-4064	50.0	51.8	53.6	55.4		
IMR-4320	51.5	52.9	54.3	55.7		
RE-15	49.2	50.7	52.2	53.7		
H380	51.4	54.5	57.6			
760	54.7	56.7	58.7			
Viht N150		51.9	53.7	55.5		
IMR-4350	56.6	58.6	60.6			
Energy/ft.lbs.	2198	2347	2501	2660	2824	2992

	Powder	Grains	Velocity	Ft. lbs.
Accuracy Load	Varget	53.8	3200	2501
Hunting Load	Viht N150	55.5	3300	2660

INDICATES MAXIMUM LOAD – USE CAUTION

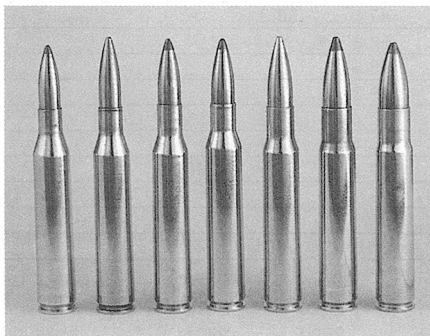
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

30-06 Springfield continued

#2120 .308" 125 gr. SPT
C.O.A.L. 3.150"



Powder! / Velocity →	2800	2900	3000	3100	3200	3300
IMR-3031	45.0	46.5	48.0	49.5		
AA-2230		45.2	47.3	49.4		
748		47.2	49.5	51.8		
BL-C(2)		47.8	49.8	51.8	53.8	
AA-2460	44.9	46.9	48.9	50.9		
TAC					51.9	54.0
XMR-2495	47.6	49.2	50.8	52.4	54.0	
IMR-4895	46.9	48.5	50.1	51.7		
Varget	48.6	50.1	51.6	53.1	54.6	
IMR-4064	47.9	49.5	51.1	52.7	54.3	
IMR-4320	49.4	51.0	52.6	54.2		
BigGame				56.7	58.2	
RE-15		47.5	49.6	51.7	53.8	
H380		49.5	52.7	55.9		
760		53.1	55.5	57.9		
Viht N150		49.7	51.7	53.7	55.7	
IMR-4350	54.7	56.4	58.1	59.8		
Energy/ft.lbs.	2176	2334	2498	2668	2842	3023
	Powder	Grains	Velocity	Ft. lbs.		
Accuracy Load	Varget	53.1	3100	2668		
Hunting Load	Viht N150	55.7	3200	2842		



Some of the most popular of the '06 family of cases; (from left to right) the 25-06, 6.5mm-06, the 270 Winchester, 280 Remington, the 30-06, 338-06 and the 35 Whelen.

INDICATES MAXIMUM LOAD – USE CAUTION
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

30-06 Springfield continued

#2135 .308" 150 gr. RN

C.O.A.L. 3.000"

#2125 .308" 150 gr. SBT

C.O.A.L. 3.225"

#2130 .308" 150 gr. SPT

C.O.A.L. 3.225"

#2115 .308" 150 gr. FMJBT

C.O.A.L. 3.250"

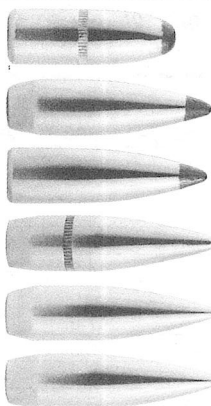
#2190 .308" 150 gr. HPBT MatchKing

C.O.A.L. 3.250"

#2155 .308" 155 gr. HPBT

Palma MatchKing

C.O.A.L. 3.250"



Powder+Velocity→	2600	2700	2800	2900	3000
IMR-3031	42.9	44.8	46.7	48.6	
AA-2230	41.2	43.4	45.6	47.8	
748	44.0	46.0	48.0	50.0	52.0
BL-C(2)	43.9	46.1	48.3	50.5	
AA-2460	42.4	44.4	46.4	48.4	
TAC		43.4	45.5	47.6	
XMR-2495	43.2	45.6	48.0	50.4	
IMR-4895	44.5	46.3	48.1	49.9	51.7
Varget	44.6	46.9	49.2	51.5	
IMR-4064	44.9	46.7	48.5	50.3	52.1
IMR-4320	46.6	48.6	50.6	52.6	
BigGame		49.2	51.3	53.4	55.5
RE-15		45.3	47.8	50.3	
H380	46.3	49.3	52.3		
760		50.8	53.6		
Viht N150	44.5	46.9	49.3		
IMR-4350	51.8	53.6	55.4	57.2	59.0
H4350 EXT	52.2	53.8	55.4	57.0	
RE-19	53.3	55.2	57.1	59.0	60.9
IMR-4831	54.2	56.1	58.0		
H4831 SC	56.0	57.8	59.6		
Energy/ft.lbs.	2251	2428	2611	2801	2997

	Powder	Grains	Velocity	Ft. lbs.
Accuracy Load	H4831 SC	59.6	2800	2611
Hunting Load	BigGame	53.4	2900	2801

Sierra does not recommend MatchKing bullets for hunting applications.

INDICATES MAXIMUM LOAD – USE CAUTION

LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

30-06 Springfield continued

#2140 .308" 165 gr. HPBT
C.O.A.L. 3.185"



#2145 .308" 165 gr. SBT
C.O.A.L. 3.330"



Powder/Velocity→	2400	2500	2600	2700	2800	2900
IMR-3031		40.8	42.9	45.0		
748	42.8	44.2	45.6	47.0		
BL-C(2)	41.8	43.6	45.4			
AA-2460		41.1	43.1	45.1		
XMR-2495	40.9	42.7	44.5			
IMR-4895	40.5	42.6	44.7	46.8		
IMR-4064	41.5	43.3	45.1	46.9	48.7	
IMR-4320	42.6	44.5	46.4	48.3	50.2	
BigGame				51.3	53.2	
RE-15		42.4	44.4	46.4	48.4	
H380		45.1	47.8	50.5		
760			49.4	51.4		
Viht N150	40.9	43.1	45.3			
Viht N550	44.0	45.8	47.6	49.4	51.2	
IMR-4350	47.5	49.2	50.9	52.6	54.3	56.0
H4350 EXT	46.9	48.7	50.5	52.3	54.1	
RE-19		50.4	52.2	54.0	55.8	
IMR-4831	49.6	51.4	53.2	55.0	56.8	
H4831 SC	50.7	52.7	54.7	56.7	58.7	
Energy/ft.lbs.	2110	2290	2477	2671	2873	3082

	Powder	Grains	Velocity	Ft. lbs.
Accuracy Load	Viht N150	45.3	2600	2477
Hunting Load	RE-15	46.4	2700	2671



John Meissner of Angola, NY, shot this caribou in Quebec with the 165 grain SBT in his Herters 30-06.

INDICATES MAXIMUM LOAD – USE CAUTION
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

30-06 Springfield continued

#2200 .308" 168 gr. HPBT MatchKing
C.O.A.L. 3.285"



Powder:/Velocity→	2400	2500	2600	2700	2800	2900
IMR-3031	39.5	41.7	43.9	46.1		
748		42.9	45.1	47.3	49.5	
BL-C(2)	41.8	43.7	45.6	47.5		
AA-2460		41.9	44.3	46.7		
TAC		41.0	43.3	45.6		
XMR-2495	41.0	43.1	45.2	47.3		
IMR-4895	41.0	43.0	45.0	47.0	49.0	
Varget	42.1	44.1	46.1	48.1	50.1	
IMR-4064	41.8	43.7	45.6	47.5	49.4	51.3
AA-2520		42.1	44.1	46.1	48.1	50.1
IMR-4320	43.4	45.3	47.2	49.1	51.0	
BigGame		44.1	46.7	49.3	51.9	54.5
RE-15	40.2	42.4	44.6	46.8	49.0	51.2
H380	43.4	45.9	48.4	50.9	53.4	
760			49.6	51.9	54.2	
Viht N150	41.1	43.3	45.5	47.7	49.9	
Viht N550	40.7	43.4	46.1	48.8	51.5	54.2
IMR-4350		48.8	50.6	52.4	54.2	56.0
RE-19		50.2	52.2	54.2	56.2	58.2
IMR-4831	49.3	51.2	53.1	55.0	56.9	58.8
H4831 SC	50.3	52.5	54.7	56.9	59.1	61.3
Energy/ft.lbs.	2149	2332	2522	2720	2925	3138

	Powder	Grains	Velocity	Ft. lbs.
Accuracy Load	760	51.9	2700	2720

Sierra does not recommend MatchKing bullets for hunting applications.



David Jones of Florida recovered this 30 caliber 165 grain SBT from his 194 pound ten-point white tail buck. From 176 yards David fired his Sako 30-06, and his recovered bullet weighed 149.8 grains. David reports, "Sierra bullets rule!"



INDICATES MAXIMUM LOAD – USE CAUTION
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

30-06 Springfield continued

#2275 .308" 175 gr. HPBT MatchKing

C.O.A.L. 3.290"



#2150 .308" 180 gr. SPT

C.O.A.L. 3.300"



#2160 .308" 180 gr. SBT

C.O.A.L. 3.300"



#2170 .308" 180 gr. RN

C.O.A.L. 3.200"



#2220 .308" 180 gr. HPBT MatchKing

C.O.A.L. 3.305"



Powder/Velocity→	2400	2500	2600	2700	2800
748		43.7	45.9		
BL-C(2)		45.1	47.5		
IMR-4895	42.0	44.1	46.2		
Varget	41.5	43.6	45.7		
IMR-4064	41.8	44.1	46.4	48.7	
AA-2520		42.6	45.6		
IMR-4320	43.5	45.8	48.1		
RE-15	41.7	44.0	46.3		
H380	43.5	46.5	49.5		
760			51.0	52.8	
Viht N550		46.8	49.0	51.2	
IMR-4350	47.3	49.3	51.3	53.3	55.3
H4350 EXT	46.1	48.6	51.1	53.6	
RE-19		50.9	53.0	55.1	57.2
IMR-4831	50.1	52.0	53.9	55.8	57.7
XMR-3100	52.1	53.9	55.7	57.5	
H4831 SC	51.3	53.3	55.3	57.3	59.3
MagPro	55.1	58.1	61.1		
RE-22			53.7	56.0	58.3
Energy/ft. lbs.	2302	2498	2702	2914	3134

	Powder	Grains	Velocity	Ft. lbs.
Accuracy Load	Viht N550	49.0	2600	2702
Hunting Load	RE-22	56.0	2700	2914

Sierra does not recommend MatchKing bullets for hunting applications.

INDICATES MAXIMUM LOAD – USE CAUTION
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

30-06 Springfield continued

#2210 .308" 190 gr. HPBT MatchKing
C.O.A.L. 3.305"



Powder + Velocity →	2300	2400	2500	2600	2700
748	40.6	42.8	45.0		
BL-C(2)	41.3	43.6	45.9		
IMR-4895	40.5	42.4	44.3	46.2	
IMR-4064	40.9	42.8	44.7	46.6	
AA-2520		41.2	43.4	45.6	
IMR-4320		44.1	46.1	48.1	
RE-15	39.6	41.8	44.0	46.2	
H380	42.8	45.9	49.0		
760			49.0	50.8	
Viht N550		45.1	47.3	49.5	
IMR-4350	45.9	47.7	49.5	51.3	53.1
RE-19	47.0	48.9	50.8	52.7	54.6
IMR-4831	48.1	50.0	51.9	53.8	55.7
XMR-3100	50.0	51.8	53.6	55.4	
H4831 SC	49.7	51.7	53.7	55.7	57.7
MagPro	52.9	55.2	57.5	59.8	
RE-22			51.8	53.7	55.6
H1000		54.0	56.6	59.2	
Energy/ft.lbs.	2232	2430	2637	2852	3076

	Powder	Grains	Velocity	Ft. lbs.
Accuracy Load	AA-2520	43.4	2500	2637

Sierra does not recommend MatchKing bullets for hunting applications.



Lyne Simmonds of Naples, FL, is pictured with this cow elk shot in Chama, NM. Lyne's load for her 30-06 included Sierra's 180 grain SPT ProHunter. This was her first time elk hunting, and won't be her last.

INDICATES MAXIMUM LOAD – USE CAUTION
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

30-06 Springfield continued

#2165 .308" 200 gr. SBT
C.O.A.L. 3.320"



#2230 .308" 200 gr. HPBT MatchKing
C.O.A.L. 3.320"



Powder+Velocity→	2200	2300	2400	2500	2600	2700
IMR-4895	38.9	41.0	43.1	45.2		
IMR-4064	39.1	41.2	43.3	45.4		
AA-2520		39.7	42.2	44.7		
IMR-4320	40.4	42.5	44.6	46.7		
RE-15	38.5	40.7	42.9	45.1		
H380		43.0	45.5	48.0		
760		44.6	46.8	49.0	51.2	
Viht N550	41.2	43.4	45.6	47.8	50.0	
IMR-4350	44.2	46.1	48.0	49.9	51.8	53.7
RE-19		47.2	49.2	51.2	53.2	55.2
IMR-4831	46.8	48.6	50.4	52.2	54.0	55.8
XMR-3100	48.6	50.4	52.2	54.0	55.8	
H4831 SC		49.5	51.7	53.9	56.1	58.3
MagPro		52.8	55.7	58.6		
RE-22			50.1	52.1	54.1	56.1
H1000		52.8	55.1	57.4	59.7	
Energy/ft.lbs.	2149	2349	2558	2776	3002	3238

	Powder	Grains	Velocity	Ft. lbs.
Accuracy Load	IMR-4350	51.8	2600	3002
Hunting Load	IMR-4350	53.7	2700	3238

Sierra does not recommend MatchKing bullets for hunting applications.



Kevin Newman of Newton, NJ, killed this large Blue Wildebeest in the Waterburg Mountain region of South Africa. Kevin, age 18, used the 180 grain SPT in his Ruger 30-06.

INDICATES MAXIMUM LOAD – USE CAUTION
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

30-06 Springfield continued

#2180 .308" 220 gr. RN
C.O.A.L. 3.270"



#2240 .308" 220 gr. HPBT MatchKing
C.O.A.L. 3.300"



Powder/Velocity→	2100	2200	2300	2400	2500
IMR-3031	39.4	41.1	42.8		
IMR-4895	39.5	41.9			
IMR-4064	38.4	41.0	43.6		
AA-2520	39.0	41.7			
IMR-4320	41.7	43.9	46.1		
RE-15	39.6	41.9	44.2		
H380	40.8	44.1			
760			48.2	49.3	
IMR-4350	44.5	46.5	48.5	50.5	52.5
RE-19	44.8	47.3	49.8	52.3	
IMR-4831	47.1	49.0	50.9	52.8	54.7
XMR-3100	48.2	50.2	52.2		
H4831 SC	47.8	49.8	51.8	53.8	55.8
MagPro	51.0	53.6	56.2	58.8	
RE-22		49.6	51.4	53.2	
Energy/ft.lbs.	2154	2364	2584	2814	3053

	Powder	Grains	Velocity	Ft. lbs.
Accuracy Load	MagPro	56.2	2300	2584
Hunting Load	RE-19	52.3	2400	2814

Sierra does not recommend MatchKing bullets for hunting applications.



Michael Chastain, a U.S. Army Warrant Officer stationed in Germany, shot this wild boar on a birthday hunt organized by his fiancé. The Sierra 180 grain SBT performed perfectly in his 30-06.



INDICATES MAXIMUM LOAD – USE CAUTION

LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.