

30-06 SPRINGFIELD

RIFLE:	Winchester Model 70	BULLET DIAMETER:	0.308"
BARREL:	23¾", 1 in 10" Twist	MAXIMUM C.O.L.:	3.340"
CASE:	Hornady/Frontier	MAX. CASE LENGTH:	2.494"
PRIMER:	Federal 210	CASE TRIM LENGTH:	2.484"

The initial development date of this cartridge was 1903, but the standard dimensions as we know them today were introduced in 1906. This military round was designated the "ball cartridge, caliber .30, Model of 1906," hence the title 30-06. After two World Wars and Korea, the 30-06 Springfield was destined to become the most popular centerfire cartridge ever introduced in America. It is or has been offered in every conceivable type of firearm from lever actions to semi automatics to single shots. It is safe to conclude that this single cartridge has been the most influential cartridge of the 20th century and will continue to hold sway well into the new millennium.

Because of the extremely wide range of bullet weights available for this round, the versatility of the 30-06 is unmatched. It provides adequate power for virtually all North American game with tolerable recoil.

Not all powders listed gave optimum results throughout the range of bullets, mainly because the weights vary by such a large amount (110 grain-220 grain). The 30-06 has the largest variety of suitable powders of the cartridges listed in the Hornady Handbook, which illustrates the efficiency of the cartridge. Best results in our rifle were obtained using VARGET and IMR 4831. H 414 and IMR 4350 also gave very good results, and no powders listed gave less than acceptable results.

110 GRAIN BULLETS

SECTIONAL DENSITY:
DIAMETER:

0.166
0.308"



110 gr. V-MAX™
B.C.: 0.290 C.O.L.: 3.170"
Item No. 23010



110 gr. SP
B.C.: 0.256 C.O.L.: 3.170"
Item No. 3010

VELOCITY (FPS – feet per second)

POWDER	3000	3100	3200	3300	3400
IMR 3031	47.1 gr.	48.7 gr.	50.3 gr.	51.9 gr.	53.5 gr.
Accurate 2520	48.1 gr.	49.9 gr.	51.8 gr.	53.6 gr.	55.5 gr.
H4895	48.3 gr.	50.3 gr.	52.2 gr.	54.1 gr.	56.1 gr.
Accurate 2495	49.6 gr.	51.1 gr.	52.7 gr.	54.3 gr.	55.9 gr.
IMR 4064	52.2 gr.	53.4 gr.	54.6 gr.	56.2 gr.	58.0 gr.
VARGET	49.7 gr.	52.0 gr.	54.3 gr.	56.6 gr.	58.9 gr.
VIHT N-140	50.8 gr.	52.8 gr.	54.8 gr.	56.8 gr.	
VIHT N-150	52.1 gr.	53.8 gr.	55.5 gr.	57.2 gr.	
Alliant RL-15	52.2 gr.	53.9 gr.	55.5 gr.	57.2 gr.	

Hornady ballistics tables are available at hornady.com/ballistics

130 GRAIN BULLETS

SECTIONAL DENSITY:
DIAMETER:

0.196
0.308"



130 gr. SP, SSP
(Discontinued)
B.C.: 0.295 C.O.L.: 3.170"
Item No. 3021



130 gr. SP
B.C.: 0.295 C.O.L.: 3.170"
Item No. 3020

VELOCITY (FPS – feet per second)

POWDER	2700	2800	2900	3000	3100	3200
IMR 3031	41.1 gr.	43.4 gr.	45.7 gr.	48.1 gr.	50.4 gr.	
Accurate 2495	43.1 gr.	45.4 gr.	47.7 gr.	50.0 gr.		
H4895	44.5 gr.	46.5 gr.	48.4 gr.	50.4 gr.	52.4 gr.	
VARGET	44.4 gr.	46.7 gr.	49.0 gr.	51.2 gr.	53.5 gr.	55.8 gr.
IMR 4064	44.4 gr.	46.7 gr.	49.0 gr.	51.3 gr.	53.6 gr.	55.9 gr.
VIHT N-140	46.0 gr.	47.9 gr.	49.9 gr.	51.9 gr.	53.9 gr.	
Alliant RL-15	46.7 gr.	48.6 gr.	50.5 gr.	52.3 gr.	54.2 gr.	56.1 gr.
VIHT N-150	47.8 gr.	50.0 gr.	52.1 gr.	54.2 gr.	56.3 gr.	
IMR 4350	53.1 gr.	55.0 gr.	56.8 gr.	58.7 gr.		
WIN 760	49.9 gr.	53.3 gr.	56.8 gr.	60.2 gr.	63.7 gr.	

Hornady ballistics tables are available at hornady.com/ballistics

150-155 GRAIN BULLETS

SECTIONAL DENSITY:
DIAMETER:0.226-0.233
0.308"**150 gr. GMX®**B.C.: 0.415 C.O.L.: 3.210"
Item No. 30370**150 gr. InterBond®**B.C.: 0.415 C.O.L.: 3.210"
Item No. 30309**150 gr. SST®**B.C.: 0.415 C.O.L.: 3.210"
Item No. 30302**150 gr. FMJ-BT**B.C.: 0.398 C.O.L.: 3.185"
Item No. 3037**150 gr. InterLock® RN**B.C.: 0.186 C.O.L.: 3.000"
Item No. 3035**150 gr. InterLock® BTSP**B.C.: 0.349 C.O.L.: 3.210"
Item No. 3033**150 gr. InterLock® SP**B.C.: 0.338 C.O.L.: 3.210"
Item No. 3031**155 gr. A-MAX®**B.C.: 0.435 C.O.L.: 3.210"
Item No. 30312

VELOCITY (FPS – feet per second)

POWDER	2500	2600	2700	2800	2900	3000
Accurate 2495	39.6 gr.	41.7 gr.	43.7 gr.	45.8 gr.	47.9 gr.	
Vectan 5000	42.7 gr.	44.7 gr.	46.7 gr.	48.7 gr.	50.7 gr.	
VARGET	41.0 gr.	43.6 gr.	46.3 gr.	49.0 gr.	51.6 gr.	
VIHT N-140	43.7 gr.	45.6 gr.	47.5 gr.	49.3 gr.	51.2 gr.	
IMR 4064	44.2 gr.	46.1 gr.	47.9 gr.	49.8 gr.	51.7 gr.	53.6 gr.
Alliant RL-15	44.5 gr.	46.3 gr.	48.1 gr.	49.9 gr.	51.7 gr.	
NORMA 203 B	44.7 gr.	46.4 gr.	48.2 gr.	49.9 gr.	51.7 gr.	
Accurate 4064	44.9 gr.	46.7 gr.	48.6 gr.	50.5 gr.	52.4 gr.	
VIHT N-150	45.8 gr.	47.7 gr.	49.6 gr.	51.5 gr.	53.5 gr.	
BIG GAME	49.4 gr.	51.1 gr.	52.7 gr.	54.3 gr.	55.9 gr.	
WIN 760	47.9 gr.	50.2 gr.	52.4 gr.	54.6 gr.	56.9 gr.	59.1 gr.
H414	48.5 gr.	50.6 gr.	52.6 gr.	54.7 gr.	56.7 gr.	58.8 gr.
Alliant RL-17	50.1 gr.	51.6 gr.	53.2 gr.	54.8 gr.	56.4 gr.	
Accurate 4350	49.7 gr.	51.6 gr.	53.5 gr.	55.4 gr.	57.3 gr.	59.2 gr.
IMR 4007 SSC	46.6 gr.	51.6 gr.	53.7 gr.	55.7 gr.		
Vectan 7000	49.5 gr.	51.5 gr.	53.6 gr.	55.7 gr.	57.8 gr.	
H4350	49.4 gr.	51.6 gr.	53.8 gr.	56.0 gr.	58.3 gr.	60.5 gr.
IMR 4350	50.4 gr.	52.3 gr.	54.2 gr.	56.1 gr.	58.0 gr.	59.9 gr.

Hornady ballistics tables are available at hornady.com/ballistics

165-168 GRAIN BULLETS

SECTIONAL DENSITY:
DIAMETER:

0.248-0.253
0.308"

30-06 SPRINGFIELD



165 gr. GMX®
B.C.: 0.447 C.O.L.: 3.210"
Item No. 30470



165 gr. InterBond®
B.C.: 0.447 C.O.L.: 3.210"
Item No. 30459



165 gr. SST®
B.C.: 0.447 C.O.L.: 3.210"
Item No. 30452



165 gr. InterLock® BTSP
B.C.: 0.435 C.O.L.: 3.210"
Item No. 3045



165 gr. InterLock® SP
B.C.: 0.387 C.O.L.: 3.210"
Item No. 3040



168 gr. A-MAX®
B.C.: 0.475 C.O.L.: 3.220"
Item No. 30502



168 gr. BTHP
B.C.: 0.450 C.O.L.: 3.220"
Item No. 30501

VELOCITY (FPS – feet per second)

POWDER	2400	2500	2600	2700	2800	2900
VARGET	41.4 gr.	43.8 gr.	46.3 gr.	47.1 gr.	49.4 gr.	
IMR 4064	41.8 gr.	43.9 gr.	46.0 gr.	48.1 gr.	50.2 gr.	
Alliant RL-15	43.0 gr.	44.9 gr.	46.8 gr.	48.8 gr.	50.0 gr.	
Accurate 4064	42.8 gr.	45.0 gr.	47.3 gr.	49.6 gr.		
BIG GAME	46.3 gr.	48.4 gr.	50.5 gr.	52.6 gr.	54.7 gr.	
Alliant RL-17	48.1 gr.	49.6 gr.	51.1 gr.	52.6 gr.	54.1 gr.	
IMR 4007 SSC	47.7 gr.	49.6 gr.	51.5 gr.	53.3 gr.	55.2 gr.	
H414	45.8 gr.	48.4 gr.	51.0 gr.	53.6 gr.	56.2 gr.	58.3 gr.
WIN 760	46.2 gr.	48.7 gr.	51.2 gr.	53.7 gr.	56.2 gr.	
IMR 4350	48.1 gr.	50.0 gr.	52.0 gr.	53.9 gr.	55.8 gr.	57.0 gr.
Vectan 7000	46.5 gr.	49.0 gr.	51.5 gr.	54.0 gr.	56.5 gr.	
H4350	48.0 gr.	50.1 gr.	52.3 gr.	54.5 gr.	56.7 gr.	58.9 gr.
NORMA 204	50.3 gr.	52.1 gr.	53.9 gr.	55.7 gr.		
IMR 4831	50.6 gr.	52.4 gr.	54.2 gr.	56.0 gr.	57.8 gr.	59.5 gr.
VIHT N-160	50.4 gr.	52.3 gr.	54.2 gr.	56.1 gr.	58.0 gr.	
Power Pro 4000 MR	53.2 gr.	55.3 gr.	57.4 gr.	59.5 gr.		
SUPERFORMANCE	53.3 gr.	56.1 gr.	58.9 gr.	61.6 gr.		

Hornady ballistics tables are available at hornady.com/ballistics

178-180 GRAIN BULLETS

SECTIONAL DENSITY:
DIAMETER:0.268-0.271
0.308"**178 gr. BTHP Match™**
B.C.: 0.530 C.O.L.: 3.220"
Item No. 30715**178 gr. A-MAX®**
B.C.: 0.495 C.O.L.: 3.220"
Item No. 30712**180 gr. InterBond®**
B.C.: 0.480 C.O.L.: 3.210"
Item No. 30709**180 gr. SST®**
B.C.: 0.480 C.O.L.: 3.220"
Item No. 30702**180 gr. InterLock® RN**
B.C.: 0.241 C.O.L.: 3.210"
Item No. 30705**180 gr. InterLock® BTSP**
B.C.: 0.452 C.O.L.: 3.225"
Item No. 3072**180 gr. InterLock® SP**
B.C.: 0.425 C.O.L.: 3.225"
Item No. 3070

VELOCITY (FPS – feet per second)

POWDER	2300	2400	2500	2600	2700
IMR 4064	40.1 gr.	42.4 gr.	44.7 gr.	47.0 gr.	49.2 gr.
Alliant RL-15	41.2 gr.	43.3 gr.	45.4 gr.	47.5 gr.	
WIN 760	43.0 gr.	45.8 gr.	48.7 gr.	51.5 gr.	54.4 gr.
Hybrid 100V	45.1 gr.	47.3 gr.	49.5 gr.	51.7 gr.	53.9 gr.
IMR 4007 SSC	46.2 gr.	48.2 gr.	50.1 gr.	52.0 gr.	
IMR 4350	46.7 gr.	48.6 gr.	50.6 gr.	52.5 gr.	54.5 gr.
H414	45.1 gr.	47.6 gr.	50.2 gr.	52.7 gr.	55.3 gr.
Accurate 4350	47.4 gr.	49.1 gr.	50.9 gr.	52.7 gr.	54.4 gr.
NORMA 204	48.7 gr.	50.4 gr.	52.2 gr.	53.9 gr.	
IMR 4831	48.4 gr.	50.4 gr.	52.4 gr.	54.4 gr.	56.3 gr.
VIHT N-160	48.2 gr.	50.6 gr.	52.9 gr.	55.3 gr.	
Hunter	50.3 gr.	52.3 gr.	54.4 gr.	56.5 gr.	
Alliant RL-19	51.1 gr.	53.2 gr.	55.3 gr.	57.4 gr.	59.6 gr.
Power Pro 4000 MR	49.9 gr.	52.5 gr.	55.1 gr.	57.8 gr.	
SUPERFORMANCE	53.2 gr.	54.7 gr.	56.3 gr.	57.8 gr.	59.4 gr.

Hornady ballistics tables are available at hornady.com/ballistics

190 GRAIN BULLETS

SECTIONAL DENSITY:
DIAMETER:

0.286
0.308"



190 gr. InterLock® BTSP

B.C.: 0.491 C.O.L.: 3.210"
Item No. 3085

VELOCITY (FPS – feet per second)

POWDER	2200	2300	2400	2500	2600	2700
Alliant RL-15	39.9 gr.	41.8 gr.	43.7 gr.	45.7 gr.		
H414	40.3 gr.	43.1 gr.	45.8 gr.	48.6 gr.	51.3 gr.	
WIN 760	41.9 gr.	44.2 gr.	46.6 gr.	48.9 gr.	51.3 gr.	53.6 gr.
IMR 4350	44.1 gr.	46.0 gr.	47.9 gr.	49.9 gr.	51.8 gr.	
Accurate 4350	44.9 gr.	46.7 gr.	48.4 gr.	50.2 gr.	52.0 gr.	
H4350	43.7 gr.	45.9 gr.	48.2 gr.	50.5 gr.	52.8 gr.	
IMR 4831	46.7 gr.	48.4 gr.	50.1 gr.	51.9 gr.	53.6 gr.	55.3 gr.
VIHT N-160	46.6 gr.	48.4 gr.	50.2 gr.	52.0 gr.	53.8 gr.	
Alliant RL-19	49.3 gr.	51.1 gr.	52.9 gr.	54.8 gr.	56.6 gr.	
Power Pro 4000 MR	48.0 gr.	50.3 gr.	52.7 gr.	55.0 gr.	57.4 gr.	
SUPERFORMANCE	49.5 gr.	51.8 gr.	54.1 gr.	56.3 gr.	58.5 gr.	

Hornady ballistics tables are available at hornady.com/ballistics

220 GRAIN BULLETS

SECTIONAL DENSITY:
DIAMETER:

0.331
0.308"



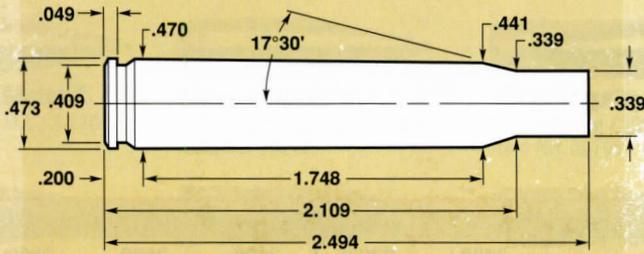
220 gr. InterLock® RN

B.C.: 0.300 C.O.L.: 3.210"
Item No. 3090

VELOCITY (FPS – feet per second)

POWDER	2000	2100	2200	2300	2400	2500
Alliant RL-15	36.9 gr.	39.1 gr.	41.3 gr.	43.5 gr.	45.7 gr.	
H4350	37.5 gr.	40.5 gr.	43.5 gr.	46.5 gr.	49.5 gr.	52.5 gr.
H414	38.9 gr.	41.6 gr.	44.4 gr.	47.1 gr.	49.9 gr.	
Accurate 4350	40.3 gr.	42.7 gr.	45.0 gr.	47.3 gr.	49.6 gr.	
IMR 4350	40.6 gr.	43.0 gr.	45.3 gr.	47.7 gr.	50.0 gr.	52.4 gr.
IMR 4831	42.5 gr.	44.8 gr.	47.0 gr.	49.3 gr.	51.6 gr.	53.8 gr.
VIHT N-160	42.8 gr.	45.2 gr.	47.6 gr.	50.0 gr.	52.4 gr.	
Alliant RL-19	44.2 gr.	46.6 gr.	49.0 gr.	51.4 gr.	53.8 gr.	56.2 gr.
H4831	44.0 gr.	46.5 gr.	49.0 gr.	51.6 gr.	54.1 gr.	56.6 gr.
Power Pro 4000 MR	47.0 gr.	49.2 gr.	51.3 gr.	53.5 gr.		
SUPERFORMANCE	48.3 gr.	50.4 gr.	52.5 gr.	54.6 gr.		

Hornady ballistics tables are available at hornady.com/ballistics



M1 GARAND

RIFLE:	M1 Garand	BULLET DIAMETER:	0.308"
BARREL:	24", 1 in 10" Twist	MAXIMUM C.O.L.:	3.340"
CASE:	Hornady/Frontier	MAX. CASE LENGTH:	2.494"
PRIMER:	Winchester WLR	CASE TRIM LENGTH:	2.484"

The M1 Garand has probably the most colorful history of any service rifle. It is a solid, strong design that provides outstanding reliability and performance. The M1 should by no means be overlooked as a service match rifle. An M1 Garand with a quality barrel, a properly assembled and bedded receiver, and shooting carefully prepared reloads, is easily capable of shooting one-minute-of-angle or better. Because of the 30-06 Springfield's capability to handle heavier bullets than the 308, the Garand can make an excellent long range rifle. Re-barreling the Garand in 308 is a common and safe practice, and usually can provide somewhat better accuracy than the 30-06. However, propellants that are at the slower end of the spectrum for the 308 for a given bullet weight are usually required to provide reliable functioning.

Hornady offers an outstanding selection of bullets for the M1 shooter. The 155 grain A-MAX® provides a lightweight low recoil load with a high ballistic coefficient that can resist the wind. The 168 and 178 grain A-MAX® and BTHP bullets provide very long distance designs that the 30-06 can use extremely well in 1000 yard shooting. Our 168 Boat Tail Hollow Point bullet is an outstanding performer as well. In testing we achieved our best performance with VIHT N- 150 powder. Good results were also obtained with VIHT N-140 and H 4895.

150-155 GRAIN BULLETS

SECTIONAL DENSITY:
DIAMETER:

0.226-0.233
0.308"



150 gr. FMJ-BT

B.C.: 0.398 C.O.L.: 3.185"
Item No. 3037



155 gr. A-MAX®

B.C.: 0.435 C.O.L.: 3.240"
Item No. 30312

VELOCITY (FPS – feet per second)

POWDER	2400	2500	2600	2700	2750
H335	36.9 gr.	39.6 gr.	42.4 gr.	45.1 gr.	46.4 gr.
Accurate 2495	40.5 gr.	42.6 gr.	44.6 gr.		
Accurate 2520	41.9 gr.	43.3 gr.	44.8 gr.	46.2 gr.	
VIHT N-135	40.8 gr.	42.8 gr.	44.9 gr.	46.9 gr.	47.9 gr.
VARGET	42.3 gr.	44.2 gr.	46.2 gr.		
H4895	43.2 gr.	44.8 gr.	46.4 gr.		

Hornady ballistics tables are available at hornady.com/ballistics

168 GRAIN BULLETS

SECTIONAL DENSITY:
DIAMETER:

0.253
0.308"



168 gr. A-MAX®

B.C.: 0.475 C.O.L.: 3.240"
Item No. 30502



168 gr. BTHP

B.C.: 0.450 C.O.L.: 3.240"
Item No. 30501

VELOCITY (FPS – feet per second)

POWDER	2300	2400	2500	2600	2700
Accurate 2495	37.7 gr.	40.3 gr.	42.9 gr.	45.5 gr.	
VIHT N-135	41.1 gr.	42.7 gr.	44.4 gr.	46.0 gr.	
H4895	39.8 gr.	42.0 gr.	44.2 gr.	46.4 gr.	
WIN 748	41.1 gr.	42.9 gr.	44.8 gr.	46.6 gr.	48.4 gr.
VARGET	40.3 gr.	42.5 gr.	44.7 gr.	47.0 gr.	
IMR 4895	39.6 gr.	42.1 gr.	44.6 gr.	47.1 gr.	
IMR 4064	41.4 gr.	43.3 gr.	45.2 gr.	47.2 gr.	
VIHT N-140	42.0 gr.	43.9 gr.	45.7 gr.	47.5 gr.	
Alliant RL-15	43.2 gr.	44.6 gr.	46.0 gr.	47.5 gr.	
VIHT N-150	41.4 gr.	43.5 gr.	45.6 gr.	47.7 gr.	
BL-C(2)	41.4 gr.	43.5 gr.	45.6 gr.	47.8 gr.	

Hornady ballistics tables are available at hornady.com/ballistics

178 GRAIN BULLETS

SECTIONAL DENSITY:
DIAMETER:0.268
0.308"

178 gr. BTHP Match™

B.C.: 0.530 C.O.L.: 3.240"
Item No. 30715

178 gr. A-MAX®

B.C.: 0.495 C.O.L.: 3.240"
Item No. 30712

VELOCITY (FPS – feet per second)

POWDER	2200	2300	2400	2500	2550
VIHT N-135	38.1 gr.	40.2 gr.	42.4 gr.	44.5 gr.	
VARGET	37.9 gr.	40.3 gr.	42.7 gr.	45.2 gr.	46.4 gr.
H4895	38.2 gr.	40.5 gr.	42.9 gr.	45.2 gr.	46.4 gr.
IMR 4895	39.8 gr.	41.6 gr.	43.4 gr.	45.2 gr.	46.1 gr.
WIN 748	40.1 gr.	41.8 gr.	43.5 gr.	45.3 gr.	
VIHT N-140	39.4 gr.	41.5 gr.	43.6 gr.	45.7 gr.	46.7 gr.
IMR 4064	39.5 gr.	41.6 gr.	43.6 gr.	45.7 gr.	46.7 gr.
VIHT N-150	38.7 gr.	41.1 gr.	43.6 gr.	46.1 gr.	47.3 gr.
BL-C(2)	40.4 gr.	42.4 gr.	44.4 gr.	46.4 gr.	47.4 gr.
Alliant RL-15	40.4 gr.	42.5 gr.	44.5 gr.	46.5 gr.	

Hornady ballistics tables are available at hornady.com/ballistics