



30-06 SPRINGFIELD

RIFLE: . . . Winchester Model 70
BARREL: . . 23³/₄", 1 in 10" Twist
CASE: Hornady/Frontier
PRIMER: Federal 210

BULLET DIAMETER: 0.308"
MAXIMUM C.O.L.: 3.340"
MAX. CASE LENGTH: . . . 2.494"
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: 0.166
DIAMETER: 0.308"

**#23010 V-MAX**

B.C.: 0.290 C.O.L.: 3.170"

**#3015 RN**

B.C.: 0.150 C.O.L.: 3.015"

**#3010 SP**

B.C.: 0.256 C.O.L.: 3.170"

**#3017 FMJ**

B.C.: 0.178 C.O.L.: 3.015"

POWDER	VELOCITY (FPS—feet per second)				
	3000	3100	3200	3300	3400
IMR 3031	47.1 gr.	48.7 gr.	50.3 gr.	51.9 gr.	53.5 gr.
AA 2520	48.1 gr.	49.9 gr.	51.8 gr.	53.6 gr.	55.5 gr.
H 4895	48.3 gr.	50.3 gr.	52.2 gr.	54.1 gr.	56.1 gr.
AA 2495	49.6 gr.	51.1 gr.	52.7 gr.	54.3 gr.	55.9 gr.
VARGET	49.7 gr.	52.0 gr.	54.3 gr.	56.6 gr.	58.9 gr.
IMR 4064	52.2 gr.	53.4 gr.	54.6 gr.	56.2 gr.	58.0 gr.
RL-12	51.1 gr.	52.9 gr.	54.7 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.	
RL-15	52.2 gr.	53.9 gr.	55.5 gr.	57.2 gr.	

Hornady Ballistics Tables are available at www.hornady.com/ballistics

 indicates maximum load • use with caution

130 GRAIN BULLETS

SECTIONAL DENSITY: 0.196
DIAMETER: 0.308"

**#3020 SP**

B.C.: 0.295 C.O.L.: 3.170"

**#3021 SP, SSP**

B.C.: 0.295 C.O.L.: 3.170"

POWDER	VELOCITY (FPS—feet per second)					
	2700	2800	2900	3000	3100	3200
IMR 3031	41.1 gr.	43.4 gr.	45.7 gr.	48.1 gr.	50.4 gr.	
AA 2495	43.1 gr.	45.4 gr.	47.7 gr.	50.0 gr.		
H 4895	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.	
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.	

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150-155 GRAIN BULLETS

SECTIONAL DENSITY: 0.226-0.233
DIAMETER: 0.308"

**#3033 BTSP**

B.C.: 0.349 C.O.L.: 3.230"

**#30309 IB**

B.C.: 0.415 C.O.L.: 3.230"

**#3035 RN**

B.C.: 0.186 C.O.L.: 3.000"

**#30302 SST**

B.C.: 0.415 C.O.L.: 3.230"

**#3037 BT-FMJ**

B.C.: 0.398 C.O.L.: 3.185"

**#3031 SP**

B.C.: 0.338 C.O.L.: 3.230"

**#30312 A-MAX**

B.C.: 0.435 C.O.L.: 3.230"

VELOCITY (FPS—feet per second)

POWDER	2500	2600	2700	2800	2900	3000
AA 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.	
VIHT N-140	43.7 gr.	45.6 gr.	47.5 gr.	49.3 gr.	51.2 gr.	
VARGET	41.0 gr.	43.6 gr.	46.3 gr.	49.0 gr.	51.6 gr.	
IMR 4064	44.2 gr.	46.1 gr.	47.9 gr.	49.8 gr.	51.7 gr.	53.6 gr.
RL-15	44.5 gr.	46.3 gr.	48.1 gr.	49.9 gr.	51.7 gr.	
AA 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.	
H 414	48.5 gr.	50.6 gr.	52.6 gr.	54.7 gr.	56.7 gr.	58.8 gr.
WIN 760	47.9 gr.	50.2 gr.	52.4 gr.	54.6 gr.	56.9 gr.	59.1 gr.
AA 4350	49.7 gr.	51.6 gr.	53.5 gr.	55.4 gr.	57.3 gr.	59.2 gr.
VECTAN 7000	49.5 gr.	51.5 gr.	53.6 gr.	55.7 gr.	57.8 gr.	
IMR 4350	50.4 gr.	52.3 gr.	54.2 gr.	56.1 gr.	58.0 gr.	59.9 gr.
H 4350	49.4 gr.	51.6 gr.	53.8 gr.	56.0 gr.	58.3 gr.	60.5 gr.

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 indicates maximum load • use with caution

165-168 GRAIN BULLETS

SECTIONAL DENSITY: 0.248-0.253
DIAMETER: 0.308"

**#30459 IB**

B.C.: 0.447 C.O.L.: 3.230"

**#3045 BTSP**

B.C.: 0.435 C.O.L.: 3.230"

**#30452 SST**

B.C.: 0.447 C.O.L.: 3.230"

**#30502 A-MAX**

B.C.: 0.475 C.O.L.: 3.240"

**#3040 SP**

B.C.: 0.387 C.O.L.: 3.230"

**#30501 BTHP**

B.C.: 0.450 C.O.L.: 3.240"

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.	
RL-15	43.0 gr.	44.9 gr.	46.8 gr.	48.8 gr.	50.0 gr.	
AA 4064	42.8 gr.	45.0 gr.	47.3 gr.	49.6 gr.		
H 414	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.	
H 4350	48.0 gr.	50.1 gr.	52.3 gr.	54.5 gr.	56.7 gr.	58.9 gr.
VIHT N-160	50.4 gr.	52.3 gr.	54.2 gr.	56.1 gr.	58.0 gr.	
IMR 4831	50.6 gr.	52.4 gr.	54.2 gr.	56.0 gr.	57.8 gr.	59.5 gr.

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178-180 GRAIN BULLETS

SECTIONAL DENSITY: 0.268-0.271
DIAMETER: 0.308"



#30702 SST
B.C.: 0.480 C.O.L.: 3.245"



#30712 A-MAX
B.C.: 0.495 C.O.L.: 3.240"



#3070 SP
B.C.: 0.425 C.O.L.: 3.245"



#30631 BTHP (DISCONTINUED)
B.C.: 0.505 C.O.L.: 3.240"



#3072 BTSP
B.C.: 0.452 C.O.L.: 3.245"



#30709 IB
B.C.: 0.480 C.O.L.: 3.245"



#3075 RN
B.C.: 0.241 C.O.L.: 3.210"

POWDER	VELOCITY (FPS—feet per second)				
	2300	2400	2500	2600	2700
IMR 4064	40.1 gr.	42.4 gr.	44.7 gr.	47.0 gr.	49.2 gr.
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.
IMR 4350	46.7 gr.	48.6 gr.	50.6 gr.	52.5 gr.	54.5 gr.
H 414	45.1 gr.	47.6 gr.	50.2 gr.	52.7 gr.	55.3 gr.
AA 4350	47.4 gr.	49.1 gr.	50.9 gr.	52.7 gr.	54.4 gr.
VECTAN 7000	44.9 gr.	47.6 gr.	50.2 gr.	52.9 gr.	
H 4350	46.0 gr.	48.3 gr.	50.6 gr.	53.0 gr.	55.3 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.	
RL-19	51.1 gr.	53.2 gr.	55.3 gr.	57.4 gr.	59.6 gr.

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 indicates maximum load • use with caution

190 GRAIN BULLETS

SECTIONAL DENSITY: 0.286
DIAMETER: 0.308"

**#3085 BTSP**

B.C.: 0.491 C.O.L.: 3.220"

VELOCITY (FPS—feet per second)

POWDER	2200	2300	2400	2500	2600	2700
RL-15	39.9 gr.	41.8 gr.	43.7 gr.	45.7 gr.		
H 414	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.	
AA 4350	44.9 gr.	46.7 gr.	48.4 gr.	50.2 gr.	52.0 gr.	
H 4350	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.	
RL-19	49.3 gr.	51.1 gr.	52.9 gr.	54.8 gr.	56.6 gr.	

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220 GRAIN BULLETS

SECTIONAL DENSITY: 0.331
DIAMETER: 0.308"

**#3090 RN**

B.C.: 0.300 C.O.L.: 3.230"

VELOCITY (FPS—feet per second)

POWDER	2000	2100	2200	2300	2400	2500
RL-15	36.9 gr.	39.1 gr.	41.3 gr.	43.5 gr.	45.7 gr.	
H 4350	37.5 gr.	40.5 gr.	43.5 gr.	46.5 gr.	49.5 gr.	52.5 gr.
AA 4350	40.3 gr.	42.7 gr.	45.0 gr.	47.3 gr.	49.6 gr.	
H 414	38.9 gr.	41.6 gr.	44.4 gr.	47.1 gr.	49.9 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.	
RL-19	44.2 gr.	46.6 gr.	49.0 gr.	51.4 gr.	53.8 gr.	56.2 gr.
H 4831	44.0 gr.	46.5 gr.	49.0 gr.	51.6 gr.	54.1 gr.	56.6 gr.
WIN WMR	47.3 gr.	49.4 gr.	51.5 gr.	53.6 gr.	55.7 gr.	57.8 gr.

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