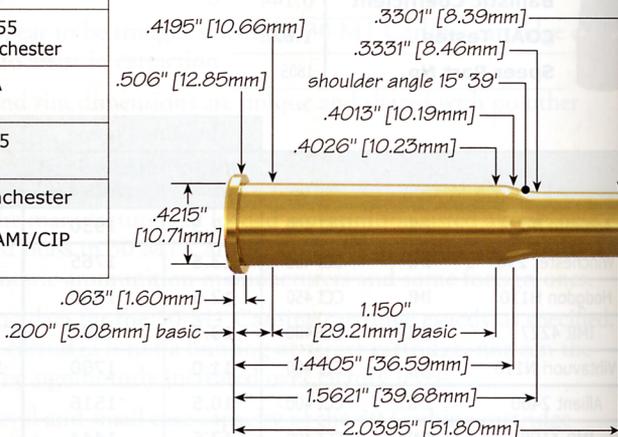


30-30 WINCHESTER

Alternate Names:	30 Winchester Center Fire (30 WCF), 7.8x51mm R
Parent Cartridge:	38-55 Winchester
Country of Origin:	USA
Year of Introduction:	1895
Designer(s):	Winchester
Governing Body:	SAAMI/CIP



CARTRIDGE CASE DATA

Case Type:	Rimmed, bottleneck		
Average Case Capacity:	45.0 grains H ₂ O	Max. Cartridge OAL	2.550 inch
Max. Case Length:	2.039 inch	Primer:	Large Rifle
Case Trim to Length:	2.030 inch	RCBS Shell holder:	# 2
Current Manufacturers:	Winchester, Federal, Remington, Hornady, PMC, Nosler, Sellier & Bellot		

BALLISTIC DATA

Max. Average Pressure (MAP):	42,000 psi, 38,000 CUP - SAAMI	Test Barrel Length:	24 inch
Rifling Twist Rate:	1 turn in 12 inch		
Muzzle velocities of factory loaded ammunition	Bullet Wgt.	Muzzle velocity	
	150-grain	2,390 fps	
	170-grain	2,200 fps	
Muzzle velocity will decrease approximately 10 fps per inch for barrels less than 24 inches.			

HISTORICAL NOTES

- If we judged rifle cartridges by their ballistics alone, the 30-30 Winchester would be a distant memory. By any measure, the ballistics of the 30-30 Win. are mediocre at best.
- If ballistics has not kept this cartridge at the apex of the top ten most popular rifle cartridges in North America for decades, then what has?

- The 30-30 Winchester cartridge owes its enduring popularity to a combination of mild recoil and American hunters' affection for lightweight, lever-action carbines. Some observers have called this: "The Old West in the American psyche".
- Availability is another reason for its enduring popularity. Nearly all major ammunition manufacturers, foreign and domestic, list the 30-30 Winchester cartridge in their catalog.
- Winchester, Marlin, and Henry Arms offer lever-action rifles in this caliber and millions of serviceable lever-guns remain in shooters' hands.
- Essentially, the 30-30 Winchester cartridge is an American thing we instinctively understand. On the other hand, European shooters just do not get it.
- Some observers have predicted the imminent demise of the 30-30 Winchester. They do not get it either.

Interesting Fact

The 30-30 Winchester cartridge was the first sporting cartridge on the American market designed for and loaded with smokeless propellant. Despite its black powder designation system, the 30-30 Winchester was never loaded with black powder.

BALLISTIC NOTES

- The 30-30 Winchester cartridge is limited to low MAP levels due to its intended use in lever-action rifles with weak actions.
- For this reason, muzzle velocity and energy levels of the 30-30 Win. are modest when compared to the high MAP cartridges designed for bolt-action rifles.
- Factory product lines for the 30-30 Winchester are simple, basic and easy to comprehend: there are two bullet weights, 150 and 170 grains. Both of these flat nose, soft point bullets have about the same ballistic coefficient as a brick. The lighter bullet accounts for 80% of sales. There are no +P loads, high velocity loads or boat tail bullets.

TECHNICAL NOTES

- The ballistic sweet spot for the 30-30 Winchester cartridge is the 150-grain flat nose bullet at a muzzle velocity of approximately 2,400 fps. This load is accurate, and the iron sights on most lever-action rifles are calibrated to the ballistics of this bullet weight.
- Some bolt-action and single-shot rifles have been chambered in 30-30 Winchester. To improve down range ballistic performance in these rifles, spitzer bullets weighing a maximum of 150 grains can be loaded.

HANDLOADING NOTES

- All 30-30 Win. bullets must be crimped securely to prevent the bullet being pulled from the case mouth by recoil or pushed into the case by the magazine spring and cartridges in the magazine tube.
- Speer offers four flat nose soft point bullets with a crimping cannellure especially designed for use with the 30-30 Win. cartridge. Weights include: 110-grain Varminter HP, 130-grain SPFN Hot-Cor®, 150-grain SPFN, and 170-grain SPFN.
- Medium burning rate propellants work best for the 30-30 Win. cartridge.

SAFETY NOTES

SPEER 170-grain SPFN @ a muzzle velocity of 2,118 fps:

- Maximum vertical altitude @ 90° elevation is 7,552 feet.
- Maximum horizontal distance to first impact with ground @ 36° elevation is 3,614 yards.
- Do not fire 30-30 Win. ammunition loaded with spitzer bullets in lever-action rifles with tubular magazines as doing so may result in a magazine tube explosion.

100 GRAINS

DIAMETER

.308"

SECTIONAL DENSITY

0.151



30 Plinker® SPRN

Ballistic Coefficient	0.144
COAL Tested	2.345"
Speer Part No.	1805

Propellant	Case	Primer	Starting Charge		Maximum Charge	
			Weight (grains)	Muzzle Velocity (feet/sec)	Weight (grains)	Muzzle Velocity (feet/sec)
Accurate 2200	Federal	Federal 210	32.9	2760	35.7	2921
Accurate Lt-32	Federal	Federal 210	32.7	2663	35.7	2873
Alliant Reloder 7	Winchester	CCI 200	31.0	2506	35.0	2865
Hodgdon H322	Winchester	CCI 200	33.0	2419	37.0	2798
Alliant Power Pro 1200-R	Federal	Federal 210	29.5	2642	32.1	2788
Alliant Reloder 10X	Federal	Federal 210	31.2	2641	33.6	2775
Accurate 2015	Winchester	CCI 200	31.0	2409	35.0	2721
IMR 4064	Winchester	CCI 200	33.5	2204	37.5 C	2581
Hodgdon BL-C(2)	Winchester	CCI 250	34.0	2203	38.0	2549
Winchester 748	Winchester	CCI 250	36.0	2138	40.0 C	2534
Vihtavuori N133	Winchester	CCI 200	28.0	2169	32.0	2451
Hodgdon H4895	Winchester	CCI 200	31.0	2077	35.0	2433
Hodgdon H380	Winchester	CCI 250	36.0	1989	40.0 C	2359

WARNING! Maximum loads should be used with CAUTION • C = Compressed Load

110 GRAINS**DIAMETER**

.308"

SECTIONAL DENSITY

0.166

**30 Varminter HP****Ballistic Coefficient** 0.128**COAL Tested** 2.415"**Speer Part No.** 1835

Propellant	Case	Primer	Starting Charge		Maximum Charge	
			Weight (grains)	Muzzle Velocity (feet/sec)	Weight (grains)	Muzzle Velocity (feet/sec)
Alliant Reloder 7	Winchester	CCI 200	30.0	2341	34.0	2775
Hodgdon H322	Winchester	CCI 200	31.0	2264	35.0	2652
Accurate 2015	Winchester	CCI 200	30.0	2290	34.0	2649
Winchester 748	Winchester	CCI 250	36.0	2292	40.0 C	2621
IMR 4064	Winchester	CCI 200	33.0	2117	37.0 C	2509
Hodgdon BL-C(2)	Winchester	CCI 250	33.0	2116	37.0	2477
IMR 4895	Winchester	CCI 200	31.0	2127	35.0	2461
Vihtavuori N133	Winchester	CCI 200	27.0	1950	31.0	2405
Hodgdon H4895	Winchester	CCI 200	30.0	1972	34.0 C	2339
IMR 4350	Winchester	CCI 200	36.0	1995	40.0 C	2337
Accurate 2230	Winchester	CCI 200	27.0	2018	31.0	2335
Accurate 2460	Winchester	CCI 250	28.0	2007	32.0	2295

WARNING! Maximum loads should be used with CAUTION • C = Compressed Load

130 GRAINS

DIAMETER

.308"

SECTIONAL DENSITY

0.196



30 SPFN Hot-Cor®

Ballistic Coefficient 0.213

COAL Tested 2.550"

Speer Part No. 2007

Propellant	Case	Primer	Starting Charge		Maximum Charge	
			Weight (grains)	Muzzle Velocity (feet/sec)	Weight (grains)	Muzzle Velocity (feet/sec)
Hodgdon CFE 223	Federal	Federal 210	38.1	2428	42.0 C	2643
Alliant AR-Comp	Federal	Federal 210	32.5	2365	36.1 C	2601
Alliant Power Pro Varmint	Federal	Federal 210	32.9	2364	35.7	2516
Accurate 2520	Winchester	CCI 250	31.0	2092	35.0C	2481
Accurate 2460	Winchester	CCI 250	30.0	2111	34.0	2472
Alliant Reloder 7	Winchester	CCI 200	27.0	2133	31.0	2438
Hodgdon H322	Winchester	CCI 200	29.0	2058	33.0	2410
Hodgdon Varget	Winchester	CCI 200	31.0	2006	35.0	2332
Alliant Reloder 10X	Winchester	CCI 200	26.5	2061	30.5	2310
Alliant Reloder 15	Winchester	CCI 200	32.0	1960	36.0 C	2295
Vihtavuori N140	Winchester	CCI 200	31.0	1982	35.0 C	2293
Winchester 748	Winchester	CCI 250	31.2	1878	39.0	2392
IMR 4895	Winchester	CCI 200	28.0	1869	32.0	2162
IMR 4064	Winchester	CCI 200	29.0	1763	33.0	2091

WARNING! Maximum loads should be used with CAUTION • C = Compressed Load

150 GRAINS

DIAMETER

.308"

SECTIONAL DENSITY

0.226



30 SPFN Hot-Cor®

Ballistic Coefficient	0.255
COAL Tested	2.550"
Speer Part No.	2011

Propellant	Case	Primer	Starting Charge		Maximum Charge	
			Weight (grains)	Muzzle Velocity (feet/sec)	Weight (grains)	Muzzle Velocity (feet/sec)
Alliant Power Pro 2000-MR	Federal	Federal 210	37.2	2321	41.0 C	2539
Hodgdon LEVERevolution	Federal	Federal 210	35.2	2332	38.2 C	2516
Hodgdon CFE 223	Federal	Federal 210	36.3	2318	39.9 C	2511
Alliant AR-Comp	Federal	Federal 210	31.2	2266	33.8 C	2425
Alliant Power Pro Varmint	Federal	Federal 210	30.2	2168	33.4	2355
Winchester 748	Winchester	CCI 250	33.0	1941	37.0 C	2273
Hodgdon H322	Winchester	CCI 200	27.0	1899	31.0	2253
Accurate 2520	Winchester	CCI 250	28.0	1875	32.0	2224
Alliant Reloder 7	Winchester	CCI 200	25.0	1895	29.0	2220
Alliant Reloder 15	Winchester	CCI 200	30.0	1833	34.0 C	2201
Vihtavuori N140	Winchester	CCI 200	30.0	1866	34.0	2186
Hodgdon Varget	Winchester	CCI 200	29.0	1835	33.0	2168
Alliant Reloder 10X	Winchester	CCI 200	24.0	1850	28.0	2144
Hodgdon H335	Winchester	CCI 250	28.0	1736	32.0	2138
Hodgdon H414	Winchester	CCI 250	34.0	1729	38.0 C	2103
IMR 4320	Winchester	CCI 200	29.0	1702	33.0	2070
Hodgdon H4895	Winchester	CCI 200	27.0	1675	31.0	2064
IMR 4895	Winchester	CCI 200	27.0	1701	31.0	2039
IMR 4350	Winchester	CCI 200	32.0	1692	36.0 C	2033

WARNING! Maximum loads should be used with CAUTION • C = Compressed Load

170 GRAINS

DIAMETER

.308"

SECTIONAL DENSITY

0.256



30 SPFN

Ballistic Coefficient	0.298
COAL Tested	2.550"
Speer Part No.	2041

Propellant	Case	Primer	Starting Charge		Maximum Charge	
			Weight (grains)	Muzzle Velocity (feet/sec)	Weight (grains)	Muzzle Velocity (feet/sec)
Alliant Power Pro 2000-MR	Federal	Federal 210	34.1	2133	37.5 C	2318
Hodgdon LEVERevolution	Federal	Federal 210	32.4	2111	35.6	2297
Hodgdon CFE 223	Federal	Federal 210	32.9	2102	36.2	2290
Alliant AR-Comp	Federal	Federal 210	27.5	1982	30.4	2166
Winchester 748	Winchester	CCI 250	30.0	1843	34.0	2145
Alliant Power Pro Varmint	Federal	Federal 210	28.5	2020	30.7	2143
Alliant Reloder 15	Federal	Federal 210	28.5	1875	31.7	2122
Hodgdon Varget	Winchester	CCI 200	27.0	1625	31.0	2027
Hodgdon H322	Winchester	CCI 200	25.0	1686	29.0	2025
Hodgdon H335	Winchester	CCI 250	27.0	1670	31.0	2007
Vihtavuori N140	Winchester	CCI 200	27.0	1643	31.0	2002
IMR 3031	Winchester	CCI 200	25.5	1702	29.5	1994
Alliant Reloder 10X	Winchester	CCI 200	22.5	1646	26.5	1990
IMR 4064	Winchester	CCI 200	27.0	1654	31.0	1982
Winchester 760	Winchester	CCI 250	31.0	1634	35.0	1963
Hodgdon H414	Winchester	CCI 250	31.0	1596	35.0	1942
IMR 4350	Winchester	CCI 200	30.5	1566	34.5	1930
IMR 4895	Winchester	CCI 200	25.0	1614	29.0	1892
Accurate 2460	Winchester	CCI 250	24.0	1587	28.0	1884

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