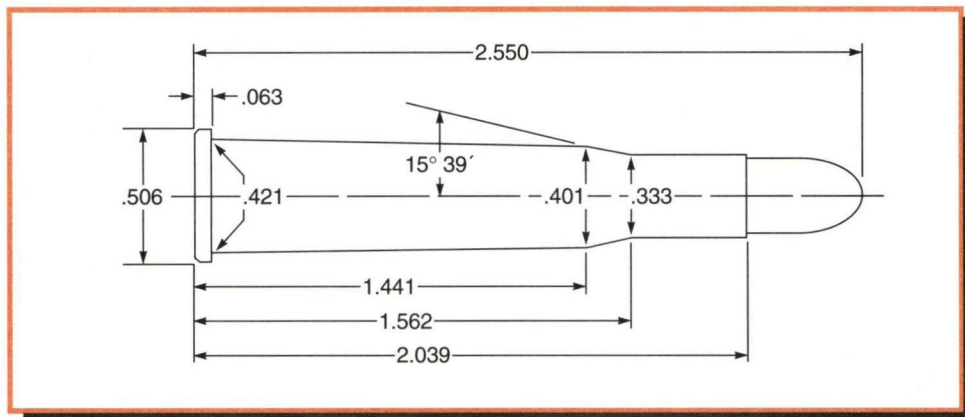


30-30 Winchester (30 WCF) (7.62 x 51R mm)



Comments:

Winchester introduced the 30 Winchester Center Fire (WCF) cartridge in their new Model 94 lever-action in 1895. The rest is history. Probably no other cartridge in North America has put as much venison on the table as the venerable old "thirty-thirty". Although ballistically unimpressive by today's standards, the lightweight, fast-handling rifles often chambered for the 30-30 proved well suited to hunting the brushy wood lots of the east coast and New England. Even if it had faded into obsolescence, the 30-30 would have earned its place in history as the first sporting cartridge to be loaded exclusively with smokeless powder.

The vast majority of rifles chambered for the 30-30 have tubular magazines. Such rifles require the use of blunt or flat nosed bullets with a cannelure, and should be crimped in place. Loaded cartridges must be kept within the maximum overall length or they will not cycle through the rifle's action. All major bullet manufacturers offer projectiles designed especially

for the 30-30. Shooters should trim all cases to uniform length prior to crimping. Many opt to purchase an additional seat body and seat and crimp in two separate operations.

Despite the indelible association with lever action rifles, there have been a few bolt action rifles chambered in 30-30 over the years. Shooters loading for bolt-action rifles or any of the Thompson/Center Contenders should refrain from exceeding maximum loads due to strength limitations of the cartridge case itself. The 30-30 works well with a number of powders including IMR-3031, IMR-4064, and 748. Cast bullet # 311041 was originally designed for the 30-30 and has a good reputation for accuracy. Reloder 7, XMP-5744, and IMR 4198 should work well with any of the listed cast bullets. Best results with cast bullets usually occur between 1,500 and 2,100 feet per second. Shooters loading for Marlin rifles with Micro-Groove® rifling should keep cast bullet velocities below 1,600 feet per second for best accuracy.

Test Components:

Cases Winchester
Trim-to Length 2.028"
Primers Winchester WLR and CCI 200
Primer Size Large Rifle
Lyman Shell Holder No. 6
Jacketed Bullets Used ... Hornady RN #3015, 110 gr.
Sierra FP #2020, 125 gr.
Hornady RN #3035, 150 gr.
Hornady FN #3060, 170 gr.

Cast Bullets Used (sized to .308" dia)
*gas check bullet #311291, 170 gr.
#311041, 173 gr.

Test Specifications: (Velocity & Pressure)

Firearm Used Universal Receiver
Barrel Length24"
Twist 1-12"
Groove Dia.308"

110 gr. Jacketed RN						
2.470" OAL						
BC: .150 SD: .166						
Powder	Sugg Starting Grains	Velocity fps	Pressure C.U.P.	Max Load Grains	Velocity fps	Pressure C.U.P.
IMR-4198	27.0	2358	28,200	29.5	2617	38,100
IMR-3031	26.5	2085	28,400	33.5	2492	37,900
IMR-4895	31.0	2258	28,200	34.0	2545	37,700
H-335	34.0	2278	28,000	37.8	2587	37,400
BLC(2)	35.0	2246	26,200	38.7	2542	35,600
748	36.0	2280	25,600	41.0+	2631	31,400
IMR-4064	31.0	2168	27,000	35.0+	2568	37,300
IMR-4320	28.0	2044	27,700	33.0	2418	37,100

125 gr. Jacketed FN						
2.420" OAL						
BC: .153 SD: .188						
Powder	Sugg Starting Grains	Velocity fps	Pressure C.U.P.	Max Load Grains	Velocity fps	Pressure C.U.P.
IMR-4198	25.0	2171	28,000	28.0	2406	35,700
RX7	27.0	2214	27,400	30.0	2428	34,600
IMR-3031	29.5	2012	24,100	33.0+	2385	36,700
AA2230	29.0	2075	25,400	32.0	2381	35,700
IMR-4895	30.5	2074	26,500	34.0	2331	32,800
H335	34.0	2398	32,800	37.5	2626	37,600
BLC(2)	34.5	2312	29,700	38.0	2543	34,000
748	35.0	2338	29,500	39.0+	2531	30,900
IMR-4064	31.5	2070	27,300	35.0+	2356	34,400
IMR-4320	31.5	2090	27,400	35.0	2349	34,400
760	34.5	2056	25,200	38.5+	2265	28,700
RX15	32.0	2200	28,300	36.0+	2441	35,000

Note: Loads shown in shaded panels are maximum.
Loads shown in bold designate potentially most accurate load.
+ Designates a compressed powder charge.

30-30 Winchester (30 WCF) (7.62 x 51R mm)



150 gr. Jacketed RN
2.540" OAL

BC: .186
SD: .266

Powder	Sugg Starting Grains	Velocity fps	Pressure C.U.P.	Max Load Grains	Velocity fps	Pressure C.U.P.
IMR-4198	20.5	1884	30,000	23.5	2092	37,600
RX7	25.0	2154	30,500	28.0	2350	38,100
IMR-3031	26.5	1876	25,200	28.5	2145	38,000
AA2230	30.0	2108	27,800	31.7	2244	36,400
IMR-4895	26.5	1944	30,500	30.0	2145	37,400
H-335	30.5	2151	29,600	34.0	2382	38,000
BL-C(2)	33.0	2050	29,500	36.4	2292	36,000
748	32.0	2153	31,600	36.5	2335	36,400
IMR-4064	29.0	2055	32,000	31.5	2199	37,800
IMR-4320	29.0	1956	31,000	31.5	2171	37,800
760	34.0	2027	29,200	38.0	2244	36,300
IMR-4350	32.0	1980	31,000	36.0+	2218	38,100



170 gr. Jacketed FP
2.540" OAL

BC: .189
SD: .256

Powder	Sugg Starting Grains	Velocity fps	Pressure C.U.P.	Max Load Grains	Velocity fps	Pressure C.U.P.
IMR-3031	25.0	1786	27,600	28.5	2054	36,900
IMR-4895	24.5	1807	31,200	28.0	1973	36,800
H-335	29.5	1913	26,700	33.0	2135	35,900
BLC(2)	32.0	1996	29,000	35.8	2256	38,000
748	32.0	1961	28,800	35.6	2167	35,300
IMR-4064	27.0	1845	28,200	30.5	2150	38,100
AA-2520	29.0	1974	27,500	32.4	2170	36,000
IMR-4320	24.5	1708	30,200	28.0	1948	37,100
RX15	29.0	1831	27,200	32.0+	2110	37,400
IMR-4350	30.0	1816	28,200	34.5+	2104	38,100



#311291
170 gr. (#2 Alloy) 2.521" OAL

BC: .202
SD: .256

Powder	Sugg Starting Grains	Velocity fps	Pressure C.U.P.	Max Load Grains	Velocity fps	Pressure C.U.P.
Unique	7.0	1211	19,800	10.6	1568	36,000
Herco	9.0	1328	28,200	11.5	1538	38,100
SR-4756	7.0	1123	19,800	10.5	1431	35,000
2400	15.0	1624	25,500	18.5	1853	37,500
*SR-4759	14.8	1530	19,900	18.5	1862	36,100
IMR-4227	16.5	1575	26,500	22.0	1959	35,800
XMP-5744	18.0	1607	28,200	24.0	2016	38,600
IMR-4198	18.0	1606	25,200	24.0	2013	34,800
N130	19.0	1581	23,000	24.5	2007	32,800
*RX7	19.0	1635	20,200	28.0	2152	34,400
*IMR-3031	22.5	1599	18,300	28.5	2095	32,500
*H-335	20.3	1638	18,500	32.5	2230	32,800
*748	23.8	1604	16,900	37.3+	2355	35,100



#311041
173 gr. (#2 Alloy) 2.510" OAL

BC: .220
SD: .260

Powder	Sugg Starting Grains	Velocity fps	Pressure C.U.P.	Max Load Grains	Velocity fps	Pressure C.U.P.
Unique	7.0	1240	21,600	10.6	1555	35,500
Herco	8.5	1281	25,800	11.0	1505	33,000
SR-4756	7.0	1102	19,800	10.5	1423	36,400
2400	14.5	1586	27,000	19.0	1909	36,600
*SR-4759	15.5	1613	23,700	17.7	1803	32,600
IMR-4227	17.0	1615	26,100	22.0	1983	34,800
XMP-5744	18.0	1605	26,100	24.0	2019	36,000
IMR-4198	18.0	1602	23,200	23.5	1999	31,400
N130	19.5	1608	22,800	24.3	1994	29,900
*RX7	20.0	1632	19,800	28.6	2165	34,500
*IMR-3031	21.5	1555	20,100	27.0	2016	31,300
*H-335	22.0	1596	23,200	30.0	2254	33,800
*748	25.0	1613	22,500	35.0+	2270	32,900

Note: Loads shown in shaded panels are maximum.
Loads shown in bold designate potentially most accurate load.
+ Designates a compressed powder charge.
* Designates use of CCI 200 primers.