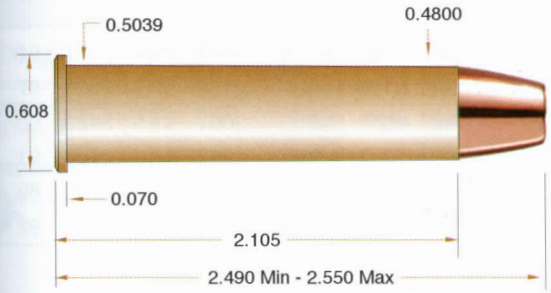
.45-70 1895 Marlin

Load its .45-70 Govt. cartridge with 250-grain Barnes Triple-Shock bullets, and you'll have all the power you'll need. At 75 yards with open sights, the three-shot, two-inch groups my 1895 Marlin delivers is more indicative of my aging eyesight than of the rifle's true abilities.

After mounting a low-power variable scope to extend my range, the rifle continued punching two-inch groups—but this time at 150 yards.

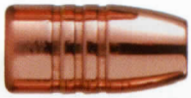
I reflected on the memories the season had made. I'd been taught early on that hunting isn't only the harvest of game, but of time spent with nature, family and friends and enjoying my Marlin 1895 GS, its magazine filled with Triple-Shock bullets for when the trophy buck does show. The simple pleasures life offers--listening to squirrels chattering, watching the bald eagle that returns each winter, and carrying the rifle John Marlin designed over a century ago.
—John Luther



Case: Starline	Primer: Federal GM210M
Case Trim Length: 2.095"	Barrel Length: 24"
Twist Rate: 1:20"	Barrel: Wiseman

*Recommend crimping case mouth into front cannelure groove.
*This data is intended for use only in modern, Marlin 1895 rifles in good condition. Do not use this data in Springfield Trapdoor rifles.
*The SAAMI MAP value for this cartridge is 28,000 psi. We shot the 1895 Marlin data to 42,000 psi.
*Do not use Barnes' spitzer shaped bullets in tubular magazines.

.45-70 1895 Marlin

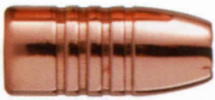


250-grain TSX FN

Sectional Density .170
Ballistic Coefficient .136
C.O.A.L 2.515"

Suggested Bullet Use

Powder Brand	Minimum Charge (grains)	Minimum Velocity (fps)	Maximum Charge (grains)	Maximum Velocity (fps)	Load Density (%)
SR 4759	35.5	2211	38.0	2345	92
*VIT N120	50.0	2378	53.5	2553	98
IMR 4227	43.0	2259	46.5	2416	91
XMP 5744	43.5	2196	47.0	2344	90
H4227	43.0	2343	46.5	2507	90
AA 1680	53.5	2413	57.5	2609	96



300-grain TSX FN

Sectional Density .204
Ballistic Coefficient .163
C.O.A.L 2.515"

Suggested Bullet Use

Powder Brand	Minimum Charge (grains)	Minimum Velocity (fps)	Maximum Charge (grains)	Maximum Velocity (fps)	Load Density (%)
SR 4759	31.5	1944	34.0	2067	91
*VIT N120	44.0	2162	47.5	2301	97
IMR 4227	38.5	2002	41.5	2159	90
XMP 5744	40.0	1967	43.0	2108	91
H4227	38.5	2090	41.5	2220	89
AA 1680	47.0	2230	50.0	2314	92

Maximum loads should be used with caution - Always Start With Minimum Loads.
* *Most Accurate Load*

.45-70 1895 Marlin

300-grain Original FNSP

Sectional Density .204
Ballistic Coefficient .227
C.O.A.L 2.515"

Suggested Bullet Use

Powder Brand	Minimum Charge (grains)	Minimum Velocity (fps)	Maximum Charge (grains)	Maximum Velocity (fps)	Load Density (%)
*H4198	49.5	2254	53.5	2428	94
IMR 4198	46.0	2176	49.5	2322	93
XMR 2015	54.0	2181	58.5	2351	97
RL 7	50.0	2185	54.0	2339	93
X-Terminator	59.5	2255	63.5	2377	99
AA 2230	58.0	2268	65.0	2446	99

400-grain Original FNSP

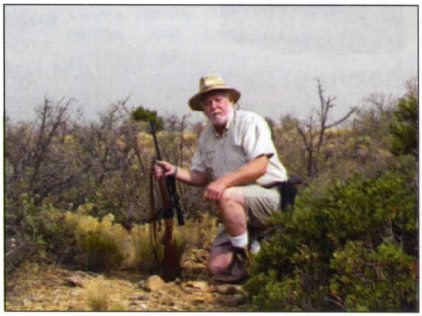
Sectional Density .272
Ballistic Coefficient .302
C.O.A.L 2.515"

Suggested Bullet Use

Powder Brand	Minimum Charge (grains)	Minimum Velocity (fps)	Maximum Charge (grains)	Maximum Velocity (fps)	Load Density (%)
AA 1680	39.0	1802	43.0	1949	77
H4198	42.5	1847	45.5	1981	94
IMR 4198	40.0	1821	43.0	1949	95
XMR 2015	47.5	1838	51.0	1973	100
RL 7	44.0	1829	48.0	1996	97
*X-Terminator	49.5	1847	53.5	1968	98

Maximum loads should be used with caution - Always Start With Minimum Loads.
** Most Accurate Load*

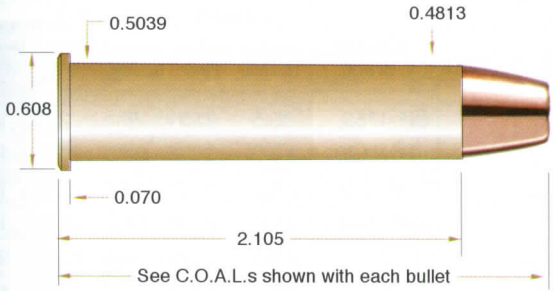
.45-70 Ruger No. 1



My first .45-70 was an aging hand-me-down from my father. We mostly hunted thickly wooded areas, but when we began hunting more open areas, the range limits of typical .45-70 loads became a detriment.

That's when I obtained a Ruger No. 1 Rifle chambered for the .45-70. Unfortunately, bullets available then were mostly designed for lever guns, and had very poor ballistic coefficients. When Barnes created spitzer-shaped Triple-Shock bullets, I knew I could get enough velocity from my trusty No. 1 to make it a strong contender for just about any North American game.

Accuracy was terrific! If I do my part, the TSX will deliver sub-MOA groups. With its high ballistic coefficient, I am not afraid to take shots that would be questionable with any other bullet.—Mike Smisko



Case: Starline	Primer: Federal GM210M
Case Trim Length: 2.095"	Barrel Length: 24"
Twist Rate: 1.20"	Barrel: Wiseman

*Crimping is not required for single shot rifles.
*This data is intended for use only in Ruger #1 & #3 rifles in good condition. Do not use this data in any other type of firearm.
*The SAAMI MAP value for this cartridge is 28,000 psi. We shot the Ruger #1 data to 55,000 psi.
*The C.O.A.L.s with Barnes Original Spitzer bullets, as well as with 300 and 350 grain Spitzer TSX bullets, exceed the SAAMI maximum C.O.A.L. of 2.550". This is not an issue, as these bullets and loads are intended for use only in Ruger #1 and #3 single shot rifles.

.45-70 Ruger No. 1

250-grain TSX FN

Sectional Density .170
Ballistic Coefficient .136
C.O.A.L 2.515"

Suggested Bullet Use

Powder Brand	Minimum Charge (grains)	Minimum Velocity (fps)	Maximum Charge (grains)	Maximum Velocity (fps)	Load Density (%)
*VIT N110	41.0	2444	44.0	2568	91
SR 4759	40.0	2401	43.5	2540	105
IMR 4227	48.5	2469	52.0	2572	101
XMP 5744	50.0	2424	53.5	2523	102
H4227	47.5	2550	51.0	2692	98
AA 1680	59.0	2631	63.0	2816	105

300-grain TSX FN

Sectional Density .204
Ballistic Coefficient .163
C.O.A.L 2.515"

Suggested Bullet Use

Powder Brand	Minimum Charge (grains)	Minimum Velocity (fps)	Maximum Charge (grains)	Maximum Velocity (fps)	Load Density (%)
SR 4759	35.5	2131	38.5	2242	103
VIT N120	49.0	2370	51.5	2450	105
*IMR 4227	44.0	2213	47.0	2326	101
XMP 5744	45.0	2182	48.0	2287	102
H4227	43.0	2273	45.5	2378	97
AA 1680	53.0	2364	56.0	2488	104

Maximum loads should be used with caution - Always Start With Minimum Loads.
** Most Accurate Load*

.45-70 Ruger No. 1

300-grain TSX FB

Sectional Density .204
Ballistic Coefficient .230
C.O.A.L 2.770"

Suggested Bullet Use

Powder Brand	Minimum Charge (grains)	Minimum Velocity (fps)	Maximum Charge (grains)	Maximum Velocity (fps)	Load Density (%)
VIT N120	44.5	2195	48.5	2357	84
IMR 4227	44.0	2183	48.5	2352	90
H4227	42.0	2230	47.0	2384	86
H4198	52.5	2394	57.5	2569	105
IMR 4198	49.0	2319	54.0	2488	105
*RL 7	53.0	2299	58.5	2505	105

300-grain Original SP

Sectional Density .204
Ballistic Coefficient .291
C.O.A.L 2.640"

Suggested Bullet Use

Powder Brand	Minimum Charge (grains)	Minimum Velocity (fps)	Maximum Charge (grains)	Maximum Velocity (fps)	Load Density (%)
SR 4759	38.5	2190	42.0	2314	94
VIT N120	51.5	2409	55.5	2562	94
IMR 4227	47.0	2314	51.0	2459	92
XMP 5744	49.0	2300	53.0	2440	94
H4227	46.5	2344	50.0	2486	89
*AA 1680	54.0	2450	59.0	2588	91

Maximum loads should be used with caution - Always Start With Minimum Loads.
* *Most Accurate Load*

.45-70 Ruger No. 1

300-grain Original FNSP

Sectional Density .204
Ballistic Coefficient .227
C.O.A.L 2.515"

Suggested Bullet Use

Powder Brand	Minimum Charge (grains)	Minimum Velocity (fps)	Maximum Charge (grains)	Maximum Velocity (fps)	Load Density (%)
SR 4759	38.5	2205	42.0	2322	93
VIT N120	52.0	2416	57.0	2567	95
IMR 4227	46.0	2269	51.0	2444	91
XMP 5744	48.0	2280	53.0	2430	92
H4227	45.5	2329	49.5	2467	87
*AA 1680	55.0	2441	60.5	2582	92

350-grain TSX FB

Sectional Density .238
Ballistic Coefficient .271
C.O.A.L 2.770"

Suggested Bullet Use

Powder Brand	Minimum Charge (grains)	Minimum Velocity (fps)	Maximum Charge (grains)	Maximum Velocity (fps)	Load Density (%)
SR 4759	34.0	1831	37.0	1969	94
VIT N120	40.5	1969	44.0	2110	85
*IMR 4227	40.5	1964	44.5	2102	91
XMP 5744	43.0	1954	47.0	2105	94
H4227	40.0	1985	43.5	2122	88
AA 1680	42.5	1986	46.5	2139	81

Maximum loads should be used with caution - Always Start With Minimum Loads.
* *Most Accurate Load*

.45-70 Ruger No. 1

400-grain Original FNSP

Sectional Density .272
Ballistic Coefficient .302
C.O.A.L 2.515"

Suggested Bullet Use

Powder Brand	Minimum Charge (grains)	Minimum Velocity (fps)	Maximum Charge (grains)	Maximum Velocity (fps)	Load Density (%)
IMR 4227	40.0	1904	42.5	2022	89
H4227	39.5	1900	42.0	2018	87
AA 1680	46.0	2018	50.0	2149	89
*H4198	46.0	2009	50.0	2162	103
IMR 4198	44.0	1988	48.0	2131	105
RL 7	48.0	1996	52.0	2157	105

400-grain Original SP

Sectional Density .272
Ballistic Coefficient .389
C.O.A.L 2.640"

Suggested Bullet Use

Powder Brand	Minimum Charge (grains)	Minimum Velocity (fps)	Maximum Charge (grains)	Maximum Velocity (fps)	Load Density (%)
SR 4759	33.0	1785	35.5	1905	94
VIT N120	44.0	1982	47.5	2117	95
IMR 4227	40.0	1911	43.0	2055	91
*XMP 5744	40.5	1888	45.0	2035	94
H4227	39.5	1915	42.5	2055	89
AA 1680	45.5	2006	50.0	2185	91

Maximum loads should be used with caution - Always Start With Minimum Loads.
* *Most Accurate Load*