



*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.

♦ Indicates most accurate load

.45-70 1895 Marlin

Bullet Weight: 250 gr
Bullet Style: TSX FN
COAL: 2.515"
Case: Starline

Case Trim Length: 2.095"
Primer: Fed GM210M
Barrel Length: 24"
Twist Rate: 1:20"

S.D. 0.170
B.C. 0.136

Powder	Minimum		Maximum		
	Charge (grains)	Velocity (fps)	Charge (grains)	Velocity (fps)	Load Density (%)
♦ VIT N120	50.0	2378	53.5	2553	98
AA 1680	53.5	2413	57.5	2609	96

Bullet Weight: 300 gr
Bullet Style: TSX FN
COAL: 2.515"
Case: Starline

Case Trim Length: 2.095"
Primer: Fed GM210M
Barrel Length: 24"
Twist Rate: 1:20"

S.D. 0.204
B.C. 0.163

Powder	Minimum		Maximum		
	Charge (grains)	Velocity (fps)	Charge (grains)	Velocity (fps)	Load Density (%)
♦ VIT N120	44.0	2162	47.5	2301	97
AA 1680	47.0	2230	50.0	2314	92

.45-70 1895 Marlin

Bullet Weight: 300 gr

Bullet Style: Original FN

COAL: 2.515"

Case: Starline

Case Trim Length: 2.095"

Primer: Fed GM210M

Barrel Length: 24"

Twist Rate: 1:20"

S.D. 0.204

B.C. 0.227

Powder	Minimum		Maximum		
	Charge (grains)	Velocity (fps)	Charge (grains)	Velocity (fps)	Load Density (%)
♦ H4198	49.5	2254	53.5	2428	94
AA 2230	58.0	2268	65.0	2446	99

Bullet Weight: 400 gr

Bullet Style: Original FN

COAL: 2.515"

Case: Starline

Case Trim Length: 2.095"

Primer: Fed GM210M

Barrel Length: 24"

Twist Rate: 1:20"

S.D. 0.272

B.C. 0.302

Powder	Minimum		Maximum		
	Charge (grains)	Velocity (fps)	Charge (grains)	Velocity (fps)	Load Density (%)
♦ X-Terminator	49.5	1847	53.5	1968	98



*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 COALs with Barnes Original Spitzer bullets, as well as with 300 and 350 grain Spitzer TSX bullets, exceed the SAAMI maximum COAL 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.

♦ Indicates most accurate load

.45-70 Ruger No. 1

Bullet Weight: 250 gr

Case Trim Length: 2.095"

S.D. 0.170

Bullet Style: TSX FN

Primer: Fed GM210M

B.C. 0.136

COAL: 2.515"

Barrel Length: 24"

Case: Starline

Twist Rate: 1:20"

Powder	Minimum		Maximum		
	Charge (grains)	Velocity (fps)	Charge (grains)	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

Bullet Weight: 300 gr

Case Trim Length: 2.095"

S.D. 0.204

Bullet Style: Original SP

Primer: Fed GM210M

B.C. 0.291

COAL: 2.640"

Barrel Length: 24"

Case: Starline

Twist Rate: 1:20"

Powder	Minimum		Maximum		
	Charge (grains)	Velocity (fps)	Charge (grains)	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

.45-70 Ruger No. 1

Bullet Weight: 300 gr

Bullet Style: Original FN

COAL: 2.515

Case: Starline

Case Trim Length: 2.095"

Primer: Fed GM210M

Barrel Length: 24"

Twist Rate: 1:20"

S.D. 0.204

B.C. 0.227

Powder	Minimum		Maximum		
	Charge (grains)	Velocity (fps)	Charge (grains)	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

Bullet Weight: 300 gr

Bullet Style: TSX FB

COAL: 2.770"

Case: Starline

Case Trim Length: 2.095"

Primer: Fed GM210M

Barrel Length: 24"

Twist Rate: 1:20"

S.D. 0.204

B.C. 0.230

Powder	Minimum		Maximum		
	Charge (grains)	Velocity (fps)	Charge (grains)	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

Bullet Weight: 300 gr

Bullet Style: TSX FN

COAL: 2.515"

Case: Starline

Case Trim Length: 2.095"

Primer: Fed GM210M

Barrel Length: 24"

Twist Rate: 1:20"

S.D. 0.204

B.C. 0.163

Powder	Minimum		Maximum		
	Charge (grains)	Velocity (fps)	Charge (grains)	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

.45-70 Ruger No. 1

Bullet Weight: 350 gr
Bullet Style: TSX FB
COAL: 2.770"
Case: Starline

Case Trim Length: 2.095"
Primer: Fed GM210M
Barrel Length: 24"
Twist Rate: 1:20"

S.D. 0.238
B.C. 0.271

Powder	Minimum		Maximum		
	Charge (grains)	Velocity (fps)	Charge (grains)	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

Bullet Weight: 400 gr
Bullet Style: Original FN
COAL: 2.515
Case: Starline

Case Trim Length: 2.095"
Primer: Fed GM210M
Barrel Length: 24"
Twist Rate: 1:20"

S.D. 0.272
B.C. 0.302

Powder	Minimum		Maximum		
	Charge (grains)	Velocity (fps)	Charge (grains)	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

Bullet Weight: 400 gr
Bullet Style: Original SP
COAL: 2.640"
Case: Starline

Case Trim Length: 2.095"
Primer: Fed GM210M
Barrel Length: 24"
Twist Rate: 1:20"

S.D. 0.272
B.C. 0.389

Powder	Minimum		Maximum		
	Charge (grains)	Velocity (fps)	Charge (grains)	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