Marlin .36 RPP – Marlin 336 .35 REM Conversion

.36 RPP Cartridge Specs and Reloading Guidelines

Warning: The loads listed should be treated as maximum, and re-loaders should not view them as safe in their own rifles without cautiously working up from lighter charges. Any signs of over-pressure should be met with an immediate reduction in powder charge. Hand loaders are responsible for their own safety and the safety of those nearby. Exercise caution and never override your better judgment in search of a little extra velocity.

Listed loads were tested safe under the following *specific conditions*, and any deviation from these conditions should be treated as a new, untested load.

Test rifle: Marlin 336, mfg 1976, converted to .36 RPP from .35 Rem
Barrel: 22.5" Douglas XX grade chromoly
Brass: Hornady .35 Whelen
Case length: 2.13" may be trimmed +/- .01" to suit bullet choice
Case cap: 65.2gr H2O, fired brass, at overflow
Max COAL: 2.725" (action MUST be modified)
Primer: CCI large rifle
Temp: 85-95 F, high humidity

Bullet	***Powder***	***Charge (gr)***	***Vel. (fps)***	***COAL***
220 Speer FN	H4895	49.8	2500	2.70"
220 Speer FN	H322	46.6	2485	2.70"
220 Speer FN	Ac2495	49.5	2390	2.70"
180 Speer FN	H322	51.5	2800	2.70"
180 Speer FN	H4895	54.2	2750	2.70"
200 Hndy FTX	H322	48.0	2600	2.72"
150 Rem PSP*	H322	54.5	3000	2.71"

Marlin .36 RPP Ballistics
180 gr. FN over 50 gr. H322 at 200 yards

Range	Elevation	Elevation	Elevation	Windage	Windage	Windage	Time	Energy	Vel[x+y]
(yd)	(in)	(MOA)	(MIL)	(in)	(MOA)	(MIL)	(s)	(ft.lbf)	(ft/s)
0	-1.50	0.00	0.00	0.03	0.00	0.00	0.00	3067	2770
25	-0.20	0.76	0.22	0.07	0.28	0.08	0.03	2963	2722
50	0.79	-1.51	-0.44	0.20	0.38	0.11	0.06	2862	2676
75	1.49	-1.89	-0.55	0.41	0.52	0.15	0.08	2763	2629
100	1.87	-1.78	-0.52	0.71	0.68	0.20	0.11	2668	2583
125	1.92	-1.46	-0.43	1.10	0.84	0.24	0.14	2575	2538
150	1.63	-1.04	-0.30	1.59	1.01	0.29	0.17	2484	2493

175	1.00	-0.54	-0.16	2.16	1.18	0.34	0.20	2397	2449
200	0.00	0.00	0.00	2.84	1.35	0.39	0.23	2311	2404
225	-1.37	0.58	0.17	3.61	1.53	0.45	0.26	2228	2361
250	-3.13	1.20	0.35	4.49	1.72	0.50	0.30	2147	2318
275	-5.30	1.84	0.54	5.48	1.90	0.55	0.33	2069	2275
300	-7.89	2.51	0.73	6.57	2.09	0.61	0.36	1993	2233
325	-10.91	3.21	0.93	7.77	2.28	0.66	0.40	1918	2191
350	-14.39	3.92	1.14	9.09	2.48	0.72	0.43	1847	2149
375	-18.34	4.67	1.36	10.53	2.68	0.78	0.47	1777	2108
400	-22.77	5.43	1.58	12.09	2.88				

*** Caution:** while the Remington 150 PSP does have a flat, soft lead tip, the nose is small, and should not be regarded as 100% safe in a tubular magazine. Load no more than 2 at a time in the rifle.

Hodgdon's H322 and H4895 appear to be the optimal performers in this cartridge, and all three powders tested delivered sub-MOA accuracy in our test rifle. In the interest of variety however, we will continue to test other suitable powders and make those results available as time permits.

To learn more about the Marlin 336 conversion to .36 RPP, please visit us on the web at
http://www.rangerpointprecision.com/marlin-336-35rem-conversion-to-36rpp

Read an in-depth review from a happy customer on MarlinOwners.com
http://www.marlinowners.com/forum/336/352506-36-rpp.html