

CENTERFIRE BALLISTICS

Finding the correct ammunition and understanding how it performs is key for safety's sake and getting the most out of your rifle. To help you better understand centerfire ballistics, Remington has compiled a series of tables to make it easy to identify the proper ammunition and to measure its performance through velocity, energy and trajectory.

RIFLE VELOCITY VS BARREL LENGTH. These tables were calculated by computer. A standard scientific technique was used to predict trajectories from the best available data for each round. Trajectories shown typify the ammunition's performance at sea level, but note that they may vary due to atmospheric conditions and the equipment.

All velocity and energy figures in these charts have been derived by using test barrels of indicated lengths.

Ballistics shown are for 24" barrels, except those for 30 carbine and 44 Remington Magnum, which are for 20" barrels. These barrel lengths were chosen as representative, as it's impractical to show performance figures for all barrel lengths.

The muzzle velocities, muzzle energies and trajectory data in these tables represent the approximate performance expected of each specified loading. Differences in barrel lengths, internal firearm dimensions, temperature and test procedure can produce actual velocities that vary from those given here.

Muzzle Velocity Range (ft./sec.)	Approx. Change in Muzzle Velocity per 1" change in barrel length (ft./sec.)
2000 - 2500	10
2500 - 3000	20
3000 - 3500	30
3500 - 4000	40

1. Determine how much shorter, or longer, your barrel is than the test barrel.
2. In the left column of the chart (left), select the muzzle-velocity class of your cartridge.
3. To the right of that class, read the approximate change in velocity per inch of barrel length.
4. Multiply this number by the difference in the length of your barrel from that of the test barrel.
5. If your barrel is shorter than the test barrel, subtract this figure from the muzzle velocity shown for your cartridge.
6. If your barrel is longer, add this figure to the muzzle velocity shown.

The trajectory figures shown in these ballistic tables are the rise or drop, in inches, of the bullet from a direct line of sight at selected yardage. Sighting-in distances have been set at 100 to 250 yards.

The line of sight used is 1 1/2" above the axis of the bore. Since the rise or drop figures shown at the stated yardage are points of impact, you must hold low for positive figures, high for negative figures.

Many shooters who use the same cartridge often find it helpful to commit the rise and drop figures for that cartridge to memory, or tape them to their rifle stock. That way, they know instantly the right "hold" as soon as they estimate the target's range.

VENTED TEST BARREL BALLISTICS.

This Remington®-patented, industry-accepted method provides data that more precisely reflect actual use of revolver ammunition. It considers cylinder gap, barrel length, powder position, and production tolerances. Although our final values differ from conventional figures, the ammunition is unchanged. Key elements of our patented procedure include: (a) horizontal powder orientation; (b) cylinder gap: .008"; (c) barrel length: 4".

INTERCHANGEABILITY CHART. Cartridges within groups shown are interchangeable. Other substitutions should not be made without specific recommendation of the firearms manufacturer since improper combinations could result in firearm damage or personal injury.

RIMFIRE	CENTERFIRE (CONT.)	CENTERFIRE (CONT.)	CENTERFIRE (CONT.)	CENTERFIRE (CONT.)
22 W.R.F.	7mm Express, Remington	32 S&W in 32 S&W Long	38 Colt Special	38 Automatic in 38 Super +P
22 Remington Special	280 Remington	but not conversely	38 S&W Special	but not conversely
22 Win. Model 1890 in a 22 Win. Mag.	30-30 Sav.	32 S&W Long	38 Special Targetmaster®	380 Automatic
Rimfire but not conversely	30-30 Win.	32 Colt New Police	38 S&W Special Mid-Range (SEE NOTE D)	9mm Browning Short (Corto Kurz)
CENTERFIRE	30-30 Win. Accelerator* (SEE NOTE A)	32 Colt Police Positive	38 Special +P (SEE NOTE B)	9mm Luger (SEE NOTE E)
25-20 Remington	30-30 Marlin	32 W.C.F. (SEE NOTE A)	38-44 Special +P (SEE NOTE B)	9mm Parabellum
25-20 W.C.F.	30-30 Win. High Speed	32 Win. (SEE NOTE A)	38 Special	44 S&W Special (SEE NOTE F)
25-20 Win.	30 W.C.F.	32-20 Win. High Speed (SEE NOTE A)	38 Special Flat Point	44 Marlin
25-20 Win. High Speed	32 Colt Automatic	32-20 Colt L.M.R.	38 Short Colt in 38 Long Colt but not	44 Win.
25-20 Marlin	32 Auto. Colt Pistol (ACP)	32-20 W.C.F. (SEE NOTE G)	conversely. Both can be used in	44 Remington
25 W.C.F.	32 (7.65mm) Automatic	32-20 Win. and Marlin	38 Special	44-40 Win.
6mm Rem.	7.65mm Automatic Pistol	38 S&W	38 Marlin	44 W.C.F.
244 Remington	7.65mm Browning (not interchangeable	38 Colt New Police	38 Win. (SEE NOTE A)	45-70 Government
25 Automatic	with 7.65mm Luger)	380 Webley	38 Remington (SEE NOTE A)	45-70 Marlin, Win.
25 Auto. Colt Pistol (ACP)	32 Short Colt in 32 Long Colt but not		38-40 Win.	45-70-405
25 (6.35mm) Automatic	conversely (SEE NOTE C)		38 W.C.F. (SEE NOTE A)	
6.35mm Browning				

NOTE A: High-speed cartridges must not be used in revolvers. They should be used only in rifles made especially for them.

NOTE B: Ammunition with "+P" on the case headstamp is loaded to higher pressure. Use only in firearms designated for this cartridge and so recommended by the gun manufacturer.

NOTE C: Not for use in revolvers chambered for 32 S&W or 32 S&W Long.

NOTE D: All 38 Special cartridges can be used in 357 Magnum revolvers but not conversely.

NOTE E: 9mm sub machine gun cartridges should not be used in handguns.

NOTE F: 44 Russian and 44 S&W Special can be used in 44 Remington Magnum revolvers but not conversely.

NOTE G: Not to be used in Win. M-66 and M-73.

CENTERFIRE BALLISTICS

(17 Remington – 270 Win.)

CALIBER	INDEX/EOI NUMBER	WT. (GRS.)	BULLET STYLE	PRIMER NUMBER	MUZZLE	VELOCITY (FT./SEC.)					ENERGY (FT.-LBS.)					SHORT-RANGE ¹ TRAJECTORY*					LONG-RANGE ² TRAJECTORY*					BALLISTIC CO-EFFICIENT				
						100	200	300	400	500	MUZZLE	100	200	300	400	500	50	100	150	200	250	300	100	150	200		250	300	400	500
17 Remington	PRA17RA	20	AccuTip™-V	7 1/2	4250	3594	3028	2529	2081	1684	802	574	407	284	192	126	-0.4	0.1	zero	-0.9	-2.8	-5.9	1.3	1.7	1.3	zero	-2.5	-11.8	-29.2	0.185
	R17R2	25	Hornady Hollow Point	7 1/2	4040	3284	2644	2086	1606	1235	906	599	388	242	143	85	0.0	0.3	zero	-1.3	-3.8	-7.8	1.8	2.3	1.8	zero	-3.3	-16.6	-43.6	0.151
204 Ruger	PRA204A	32	AccuTip™-V	7 1/2	4225	3632	3114	2652	2234	1856	1268	937	689	500	355	245	-0.4	0.1	zero	-0.9	-2.7	-5.5	0.6	0.7	zero	-1.5	-4.1	-13.1	-28.9	0.210
	PRA204B	40	AccuTip™-V Boat Tail	7 1/2	3900	3451	3046	2677	2336	2021	1351	1058	824	636	485	363	-0.3	0.2	zero	-1.0	-2.9	-5.8	0.7	0.7	zero	-1.6	-4.3	-13.2	-28.1	0.275
22 Hornet	PRA22HNA	35	AccuTip™-V	6 1/2	3100	2271	1591	1127	924	806	747	401	197	99	66	51	-1.5	zero	-1.6	-5.5	-13	-25.5	-1.5	zero	-3.5	-10.4	-22.3	-68.4	-155.3	0.109
	R22HN1	45	Pointed Soft Point	6 1/2	2690	2042	1502	1128	948	840	723	417	225	127	90	70	0.0	zero	-2.1	-7.1	-16.0	-30.0	1.4	zero	-4.3	-12.4	-25.8	-74.2	-162.0	0.130
	R22HN2	45	Hollow Point	6 1/2	2690	2042	1502	1128	948	840	723	417	225	127	90	70	0.0	zero	-2.1	-7.1	-16.0	-30.0	1.4	zero	-4.3	-12.4	-25.8	-74.2	-162.0	0.130
220 Swift	R220S1	50	Pointed Soft Point	7 1/2	3780	3158	2617	2135	1710	1357	1586	1107	760	506	325	204	0.0	0.3	zero	-1.4	-4.0	-8.2	0.4	1.0	zero	-2.3	-6.2	-20.1	-46.1	0.175
221 Rem. Fireball	PRA221FB	50	AccuTip™-V Boat Tail	7 1/2	2995	2605	2247	1918	1622	1368	996	753	560	408	292	208	0.2	0.7	zero	-2.2	-6.1	-12.1	1.8	1.7	zero	-3.4	-8.8	-27.1	-58.8	0.238
222 Remington	R222R1	50	Pointed Soft Point	7 1/2	3140	2602	2123	1700	1350	1107	1094	752	500	321	202	136	0.1	0.7	zero	-2.3	-6.5	-13.1	1.9	1.7	zero	-3.6	-9.7	-31.7	-72.8	0.175
	R222R3	50	Power-Lok® Hollow Point	7 1/2	3140	2635	2182	1777	1432	1172	1094	771	529	351	228	152	0.1	0.7	zero	-2.2	-6.2	-12.5	1.8	1.6	zero	-3.5	-9.2	-29.6	-67.1	0.188
	PRA222RB	50	AccuTip™-V Boat Tail	7 1/2	3140	2744	2380	2045	1740	1471	1094	836	629	464	336	240	0.1	0.6	zero	-1.9	-5.4	-10.7	1.6	1.5	zero	-3.0	-7.8	-23.9	-51.7	0.242
223 Remington	PRA223RB	50	AccuTip™-V Boat Tail	7 1/2	3410	2989	2605	2252	1928	1635	1291	992	753	563	413	297	-0.1	0.4	zero	-1.5	-4.4	-8.7	2.2	2.6	2.0	zero	-3.4	-15.7	-37.5	0.242
	PRA223RC	55	AccuTip™-V	7 1/2	3240	2854	2500	2172	1871	1598	1282	995	763	576	427	312	0.2	0.6	zero	-1.8	-5.1	-9.9	1.5	1.4	zero	-2.8	-7.1	-21.7	-46.3	0.255
	R223R1	55	Pointed Soft Point	7 1/2	3240	2747	2304	1905	1554	1270	1282	921	648	443	295	197	0.0	0.6	zero	-2.0	-5.6	-11.2	1.6	1.5	zero	-3.1	-8.2	-26.2	-58.6	0.197
	R223R2	55	Power-Lok® Hollow Point	7 1/2	3240	2773	2352	1969	1627	1341	1282	939	675	473	323	220	0.0	0.6	zero	-1.9	-5.4	-10.7	1.5	1.4	zero	-3.0	-7.9	-24.8	-55.1	0.209
	R223R3	55	Metal Case	7 1/2	3240	2759	2326	1933	1587	1301	1282	929	660	456	307	207	0.0	0.6	zero	-1.9	-5.5	-11.0	1.6	1.5	zero	-3.1	-8.1	-25.5	-57.0	0.202
	R223R6	62	Hollow Point Match	7 1/2	3025	2572	2162	1792	1471	1217	1260	911	643	442	298	204	0.2	0.7	zero	-2.3	-6.5	-12.9	1.9	1.7	zero	-3.6	-9.4	-29.9	-66.4	0.205
	RM223R1	69	MatchKing® BTHP	7 1/2	3000	2720	2457	2209	1975	1758	1379	1133	925	747	598	473	0.1	0.6	zero	-1.9	-5.3	-10.3	1.6	1.5	zero	-2.9	-7.4	-21.9	-45.4	0.336
22-250 Remington	R22501	55	Pointed Soft Point	9 1/2	3680	3137	2656	2222	1832	1493	1654	1201	861	603	410	272	0.0	0.3	zero	-1.4	-4.0	-8.1	1.9	2.4	1.8	zero	-3.3	-15.5	-38.3	0.197
	R22502	55	Power-Lok® Hollow Point	9 1/2	3680	3209	2785	2400	2046	1725	1654	1257	947	703	511	363	0.0	0.3	zero	-1.3	-3.7	-7.4	1.8	2.2	1.7	zero	-3.0	-13.7	-32.8	0.230
	PRA2250RB	50	AccuTip™-V Boat Tail	9 1/2	3800	3339	2925	2546	2198	1878	1603	1238	949	720	536	392	0.0	0.8	0.9	0.0	-1.9	-4.9	1.6	2.0	1.5	zero	-2.7	-12.2	-29.1	0.242
6mm Remington‡	R6MM4	100	Core-Lok® Pointed Soft Point	9 1/2	3100	2829	2573	2332	2104	1889	2133	1777	1470	1207	983	792	0.0	0.6	zero	-1.8	-4.8	-9.3	1.4	1.3	zero	-2.6	-6.7	-19.8	-40.8	0.356
243 Win.	PRA243WB	75	AccuTip™-V Boat Tail	9 1/2	3375	3065	2775	2504	2248	2008	1897	1564	1282	1044	842	671	0.0	0.4	zero	-1.4	-4.0	-7.8	2.0	2.4	1.8	zero	-3.0	-13.3	-30.6	0.330
	R243W1	80	Pointed Soft Point	9 1/2	3350	2955	2593	2259	1951	1670	1993	1551	1194	906	676	495	0.0	0.5	zero	-1.6	-4.5	-8.8	2.2	2.7	2.0	zero	-3.5	-15.8	-37.3	0.255
	R243W2	80	Power-Lok® Hollow Point	9 1/2	3350	2955	2593	2259	1951	1670	1993	1551	1194	906	676	495	0.0	0.5	zero	-1.6	-4.5	-8.8	2.2	2.7	2.0	zero	-3.5	-15.8	-37.3	0.255
	PRSC243WA	90	Swift Scirocco™ Bonded	9 1/2	3120	2871	2635	2411	2199	1997	1946	1647	1388	1162	966	797	0.0	0.5	zero	-1.7	-4.5	-8.9	1.4	1.3	zero	-2.5	-6.4	-18.8	-38.3	0.390
	PRA243WA	95	AccuTip™	9 1/2	3120	2847	2590	2347	2118	1902	2053	1710	1415	1162	946	763	0.0	0.5	zero	-1.7	-4.6	-9.2	0.5	1.3	zero	-2.7	-6.6	-19.5	-40.2	0.355
	PRC243WC	100	Core-Lok® Ultra Bonded	9 1/2	2960	2709	2471	2246	2033	1832	1945	1629	1356	1120	917	745	0.0	0.5	zero	-2.0	-5.3	-10.3	1.6	1.5	zero	-2.9	-7.3	-21.6	-44.3	0.373
	R243W3	100	Core-Lok® Pointed Soft Point	9 1/2	2960	2697	2449	2215	1993	1786	1945	1615	1332	1089	882	708	0.1	0.7	zero	-2.0	-5.4	-10.4	1.6	1.5	zero	-2.9	-7.5	-22.1	-45.4	0.356
	25-06 Remington	R25062	100	Core-Lok® Pointed Soft Point	9 1/2	3230	2893	2580	2287	2014	1762	2316	1858	1478	1161	901	689	0.0	0.5	zero	-1.7	-4.6	-9.1	1.3	1.3	zero	-2.6	-6.6	-19.8	-41.7
PRC2506RA		115	Core-Lok® Ultra Bonded	9 1/2	3000	2751	2516	2293	2081	1881	2298	1933	1616	1342	1106	903	0.1	0.6	zero	-1.9	-5.1	-9.9	1.6	1.4	zero	-2.8	-7.1	-20.7	-42.5	0.380
R25063		120	Core-Lok® Pointed Soft Point	9 1/2	2990	2730	2484	2252	2032	1825	2382	1985	1644	1351	1100	887	0.1	0.6	zero	-1.9	-5.2	-10.1	1.6	1.4	zero	-2.8	-7.2	-21.4	-44.1	0.362
25-20 Win.	R25202	86	Soft Point	6 1/2	1460	1194	1030	931	858	797	407	272	203	165	141	121	zero	-3.5	-13.2	-30.0	-54.7	-89.1	zero	-7.9	-22.9	-45.8	-78.5	-173.0	-315.5	0.190
250 Savage	R250SV	100	Pointed Soft Point	9 1/2	2820	2504	2210	1936	1684	1461	1765	1392	1084	832	630	474	0.0	zero	-1.3	-4.1	-8.7	-15.3	2.0	1.8	zero	-3.6	-9.2	-27.7	-58.6	0.285
257 Roberts	R257	117	Core-Lok® Soft Point	9 1/2	2650	2291	1961	1663	1404	1199	1824	1363	999	718	512	373	0.0	zero	-1.6	-5.2	-10.5	-19.5	2.6	2.3	zero	-4.1	-11.7	-36.1	-78.2	0.240
6.5x55 Swedish	R65SWE1	140	Core-Lok® Pointed Soft Point	9 1/2	2550	2353	2164	1984	1814	1654	2021	1720	1456	1224	1023	850	0.0	zero	-1.5	-4.8	-9.9	-17.0	2.4	2.1	zero	-3.9	-9.8	-27.0	-57.8	0.435
6.5mm Remington Mag	R65MM2	120	Core-Lok® Pointed Soft Point	9 1/2 M	3210	2905	2621	2353	2102	1867	2745	2248	1830	1475	1177	929	0.4	0.7	zero	-1.8	-4.9	-9.5	2.7	3.0	2.1	zero	-3.5	-15.5	-35.3	0.323
260 Remington	PRA260RA	120	AccuTip™ Boat Tail	9 1/2	2890	2697	2512	2334	2163	2000	2392	2083	1807	1560	1340	1146	0.1	0.7	zero	-1.8	-4.9	-9.5	1.6	1.5	zero	-2.8	-7.2	-20.7	-47.1	0.480
	R260R1	140	Core-Lok® Pointed Soft Point	9 1/2	2750	2544	2347	2158	1979	1819	2351	2011	1712	1448	1217	1021	0.3	0.8	zero	-2.3	-6.1	-11.7	1.9	1.7	zero					

CENTERFIRE BALLISTICS

(270 WSM – 300 Win Mag)

CALIBER	INDEX/EDI NUMBER	WT. (GRS.)	BULLET STYLE	PRIMER NUMBER	VELOCITY (FT./SEC.)					ENERGY (FT.-LBS.)					SHORT-RANGE ¹ TRAJECTORY*					LONG-RANGE ² TRAJECTORY*					BALLISTIC CO-EFFICIENT					
					MUZZLE	100	200	300	400	500	MUZZLE	100	200	300	400	500	50	100	150	200	250	300	100	150		200	250	300	400	500
270 WSM	NEW R270WSM1	130	Core-Lok™ Soft Point	9 1/2 M	3285	2986	2707	2444	2196	1963	3114	2573	2114	1724	1392	1112	-0.1	0.4	zero	-1.5	-4.2	-8.2	2.1	2.5	1.9	zero	-3.2	-14.1	-32.2	0.336
	NEW PRA270WSMB	150	AccuTip™ Boat Tail	9 1/2 M	3160	2972	2792	2618	2452	2291	3325	2941	2595	2283	2002	1748	-0.1	0.5	zero	-1.5	-4.1	-8.0	2.1	2.5	1.8	zero	-3.0	-12.8	-28.5	0.525
280 Remington†	PRA280RA	140	AccuTip™	9 1/2	3000	2804	2617	2437	2265	2099	2797	2444	2129	1846	1594	1369	0.1	0.6	zero	-1.8	-4.8	-9.2	2.5	2.9	2.1	zero	-3.4	-14.8	-33.0	0.486
	R280R3	140	Core-Lok™ Pointed Soft Point	9 1/2	3000	2758	2528	2309	2102	1905	2797	2363	1986	1657	1373	1128	0.1	0.6	zero	-1.9	-5.1	-9.8	1.5	1.4	zero	-2.8	-7.0	-20.5	-42.0	0.390
	R280R1	150	Core-Lok™ Pointed Soft Point	9 1/2	2890	2624	2373	2135	1912	1705	2781	2293	1875	1518	1217	968	0.2	0.7	zero	-2.1	-5.8	-11.2	1.8	1.6	zero	-3.1	-8.0	-23.6	-48.8	0.346
	R280R2	165	Core-Lok™ Soft Point	9 1/2	2820	2510	2220	1950	1701	1479	2913	2308	1805	1393	1060	801	0.0	zero	-1.3	-4.1	-8.6	-15.2	2.0	1.8	zero	-3.6	-9.1	-27.4	-57.8	0.290
	R7M082	120	Hollow Point	9 1/2	3000	2725	2467	2223	1992	1778	2398	1979	1621	1316	1058	842	0.1	0.6	zero	-1.9	-5.3	-10.2	1.6	1.4	zero	-2.9	-7.3	-21.7	-44.9	0.343
7mm-08 Remington	R7M081	140	Core-Lok™ Pointed Soft Point	9 1/2	2860	2625	2402	2189	1988	1798	2542	2142	1793	1490	1228	1005	0.2	0.7	zero	-2.1	-5.7	-11.0	1.8	1.6	zero	-3.1	-7.8	-22.9	-46.8	0.390
	PRA7M08RB	140	AccuTip™ Boat Tail	9 1/2	2860	2670	2489	2314	2146	1986	2542	2216	1925	1664	1432	1225	0.2	0.7	zero	-2.0	-5.4	-10.3	1.7	1.5	zero	-2.9	-7.3	-21.1	-42.5	0.486
	R7MM4	140	Core-Lok™ Ultra Bonded	9 1/2 M	3175	2934	2707	2490	2283	2086	3133	2676	2277	1927	1620	1353	0.1	0.5	zero	-1.6	-4.3	-8.4	1.3	1.2	zero	-2.4	-6.0	-17.7	-36.0	0.409
7mm Rem Magnum	R7MM4	140	Core-Lok™ Pointed Soft Point	9 1/2 M	3175	2923	2684	2458	2243	2039	3133	2655	2240	1878	1564	1292	0.0	0.5	zero	-1.6	-4.4	-8.5	2.2	2.6	1.9	zero	-3.2	-14.2	-32.0	0.390
	RL7MM4	140	Core-Lok™ Pointed Soft Point	9 1/2 M	2710	2482	2265	2059	1865	1683	2283	1915	1595	1318	1081	880	-0.1	zero	-1.3	-4.2	-8.7	-15.1	0.9	zero	-2.4	-6.5	-12.5	-30.8	-59.2	0.388
	PRSC7MMB	150	Swift Scirocco™ Bonded	9 1/2 M	3110	2927	2751	2582	2419	2262	3221	2852	2520	2220	1948	1704	0.0	0.5	zero	-1.6	-4.3	-8.2	1.3	1.2	zero	-2.3	-5.9	-17.0	-34.0	0.533
	NEW PRA7MMRA	140	AccuTip™ Boat Tail	9 1/2 M	3175	2971	2777	2591	2412	2241	3133	2744	2397	2086	1808	1560	-0.1	0.5	zero	-1.5	-4.2	-8.0	2.1	2.5	1.8	zero	-3.0	-13.0	-29.0	0.486
	PRA7MMRB	150	AccuTip™ Boat Tail	9 1/2 M	3110	2926	2749	2579	2415	2258	3221	2850	2516	2215	1943	1697	0.0	0.5	zero	-1.6	-4.3	-8.2	1.3	1.2	zero	-2.3	-5.9	-17	-34.1	0.530
	R7MM2	150	Core-Lok™ Pointed Soft Point	9 1/2 M	3110	2830	2568	2320	2085	1866	3221	2667	2196	1792	1448	1160	0.0	0.6	zero	-1.7	-4.8	-9.3	1.4	1.3	zero	-2.6	-6.7	-19.9	-41.1	0.346
	PRC7MMRC	160	Core-Lok™ Ultra Bonded	9 1/2 M	2950	2724	2510	2305	2109	1924	3091	2636	2237	1887	1581	1315	0.1	0.6	zero	-1.9	-5.2	-10.0	1.6	1.4	zero	-2.8	-7.1	-20.8	-42.4	0.415
	RS7MMA	160	A-Frame™ Pointed Soft Point	9 1/2 M	2900	2659	2430	2212	2006	1812	2987	2511	2097	1739	1430	1166	0.2	0.7	zero	-2.0	-5.5	-10.7	1.7	1.5	zero	-3.0	-7.6	-22.4	-45.8	0.382
	R7MM3	175	Core-Lok™ Pointed Soft Point	9 1/2 M	2860	2645	2440	2244	2057	1879	3178	2718	2313	1956	1644	1372	0.2	0.7	zero	-2.1	-5.6	-10.7	1.7	1.5	zero	-3.0	-7.6	-22.1	-44.8	0.427
	7mm STW	RS7MSTWA	140	A-Frame™ Pointed Soft Point	9 1/2 M	3325	3020	2735	2467	2215	1978	3436	2834	2324	1892	1525	1215	0.0	0.4	zero	-1.5	-4.1	-8.0	2.1	2.5	1.8	zero	-3.1	-13.8	-31.5
R7MSTW1		140	Core-Lok™ Pointed Soft Point	9 1/2 M	3325	3064	2818	2585	2364	2153	3436	2918	2468	2077	1737	1441	0.0	0.4	zero	-1.4	-3.9	-7.6	2.0	2.4	1.7	zero	-2.9	-12.8	-28.8	0.390
7mm Mauser (7x57)	R7MSR1	140	Core-Lok™ Pointed Soft Point	9 1/2	2660	2435	2221	2018	1827	1648	2199	1843	1533	1266	1037	844	0.0	zero	-1.4	-4.4	-9.1	-15.8	2.2	1.9	zero	-3.6	-9.2	-27.4	-55.3	0.390
7mm Remington SA Ultra Mag™	PR7SM1	140	Core-Lok™ Ultra Bonded	9 1/2 M	3175	2934	2707	2490	2283	2086	3133	2676	2277	1927	1620	1353	0.1	0.5	zero	-1.6	-4.3	-8.4	1.3	1.2	zero	-2.4	-6.0	-17.7	-36.0	0.409
	PR7SM2	150	Core-Lok™ Pointed Soft Point	9 1/2 M	3110	2831	2568	2321	2087	1867	3221	2669	2197	1793	1450	1161	0.0	0.6	zero	-1.7	-4.8	-9.3	2.5	2.9	2.1	zero	-3.6	-15.7	-35.9	0.346
	PR7SM4	160	Core-Lok™ Ultra Bonded	9 1/2 M	2960	2733	2518	2313	2117	1931	3112	2654	2252	1900	1592	1323	0.1	0.6	zero	-1.9	-5.2	-9.9	2.7	3.1	2.2	zero	-3.7	-16.2	-36.5	0.414
7mm Rem Ultra Mag™	PR7UM1	140	Core-Lok™ Ultra Bonded	9 1/2 M	3425	3170	2929	2701	2485	2278	3646	3123	2667	2268	1919	1613	-0.2	0.3	zero	-1.3	-3.6	-7.0	1.8	2.2	1.6	zero	-2.7	-11.7	-26.4	0.409
	NEW PRSC7UM1	150	Swift Scirocco™ Bonded	9 1/2 M	3325	3132	2948	2771	2602	2438	3682	3267	2894	2558	2254	1979	-0.1	0.4	zero	-1.3	-3.6	-7.0	1.8	2.2	1.6	zero	-2.6	-11.4	-25.3	0.533
	NEW PR7UM5	175	A-Frame™ Pointed Soft Point	9 1/2 M	3025	2831	2645	2467	2296	2212	3555	3114	2718	2364	2047	1764	0.0	0.6	zero	-1.7	-4.7	-9.0	2.4	2.8	2.0	zero	-3.4	-14.5	-32.2	0.493
30 Carbine	R30CAR	110	Soft Point	6 1/2	1990	1567	1236	1035	923	842	967	600	373	262	208	173	0.6	zero	-4.2	-12.9	-27.2	-48.6	zero	-4.2	-12.9	-27.2	-48.6	-117.1	-225.5	0.166
30-30 Win. Accelerator®	R3030A	55	Pointed Soft Point	9 1/2	3400	2693	2085	1570	1187	986	1412	886	531	301	172	119	0.0	0.6	zero	-2.2	-6.2	-13.2	1.7	1.6	zero	-3.5	-9.9	-34.3	-83.3	0.139
30-30 Win.	NEW RL30301	125	Core-Lok™ Pointed Soft Point	9 1/2	2175	1820	1508	1255	1082	975	1313	919	631	437	325	264	0.3	zero	-3.0	-9.1	-19.1	-33.7	2.0	zero	-5.2	-14.1	-27.8	-72.5	-146.9	0.215
	R30301	150	Core-Lok™ Soft Point	9 1/2	2390	1973	1605	1303	1095	974	1902	1296	858	565	399	316	0.2	zero	-2.4	-7.6	-16.1	-28.8	1.6	zero	-4.3	-12.1	-24.0	-64.2	-133.2	0.193
	R30302	170	Core-Lok™ Soft Point	9 1/2	2200	1895	1619	1381	1191	1061	1827	1355	989	720	535	425	0.3	zero	-2.7	-8.3	-17.1	-29.9	1.8	zero	-4.6	-12.6	-24.5	-62.6	-125.3	0.254
	R30303	170	Core-Lok™ Hollow Point	9 1/2	2200	1895	1619	1381	1191	1061	1827	1355	989	720	535	425	0.3	zero	-2.7	-8.3	-17.1	-29.9	1.8	zero	-4.6	-12.6	-24.5	-62.6	-125.3	0.254
30-40 Krag	R30402	180	Core-Lok™ Pointed Soft Point	9 1/2	2430	2213	2007	1813	1632	1468	2360	1957	1610	1314	1064	861	0.1	zero	-1.8	-5.6	-11.6	-19.9	1.2	zero	-3.2	-8.5	-16.2	-39.9	-76.7	0.383
30-06 Sprg. Accelerator®	R30069	55	Pointed Soft Point	9 1/2	4080	3484	2964	2499	2080	1706	2033	1482	1073	763	528	355	-0.4	0.2	zero	-1.0	-3.0	-6.2	1.4	1.8	1.4	zero	-2.6	-12.2	-30.0	0.197
30-06 Springfield	R30061	125	Pointed Soft Point	9 1/2	3140	2780	2447	2138	1853	1595	2736	2145	1662	1269	953	706	0.0	0.6	zero	-1.9	-5.2	-10.1	1.5	1.4	zero	-2.8	-7.4	-22.4	-47.6	0.268
	RL30062	125	Core-Lok™ Pointed Soft Point	9 1/2	2660	2335	2034	1757	1509	1300	1964	1513	1148	856	632	469	-0.1	zero	-1.5	-4.9	-10.4	-18.3	1.0	zero	-2.9	-7.8	-15.2	-38.9	-78.0	0.267
	PRSC3006C	150	Swift Scirocco™ Bonded	9 1/2	2910	2696	2492	2298	2111	1934	2820	2421	2069	1758	1485	1246	0.1	0.7	zero	-2.0	-5.3	-10.2	1.6	1.5	zero	-2.9	-7.3	-21.1	-42.3	0.435
	PRA3006A	150	AccuTip™ Boat Tail	9 1																										

CENTERFIRE BALLISTICS

(300 Win. Mag – 45-70 Government)

CALIBER	INDEX/EDI NUMBER	WT. (GRS.)	BULLET STYLE	PRIMER NUMBER	MUZZLE	VELOCITY (FT./SEC.)					ENERGY (FT.-LBS.)					SHORT-RANGE ¹ TRAJECTORY*					LONG-RANGE ² TRAJECTORY*					BALLISTIC CO-EFFICIENT				
						100	200	300	400	500	MUZZLE	100	200	300	400	500	50	100	150	200	250	300	100	150	200		250	300	400	500
300 Win. Mag. (cont.)	PRA300WC	180	AccuTip® Boat Tail	9 1/2 M	2960	2764	2577	2397	2224	2058	3501	3053	2653	2295	1976	1693	0.1	0.6	zero	-1.8	-4.9	-9.5	1.5	1.4	zero	-2.7	-6.8	-19.6	-39.5	0.481
	R300W2	180	Core-Lok® Pointed Soft Point	9 1/2 M	2960	2715	2482	2262	2052	1856	3501	2945	2463	2044	1683	1375	0.1	0.6	zero	-1.9	-5.3	-10.2	1.7	1.5	zero	-2.9	-7.4	-21.3	-43.7	0.383
	RM300W7	190	MatchKing® BTHP	9 1/2 M	2900	2725	2557	2395	2239	2089	3547	3133	2758	2420	2115	1840	0.1	0.6	zero	-1.9	-5.1	-9.8	1.6	1.4	zero	-2.7	-6.9	-19.9	-39.8	0.533
	RS300WA	200	A-Frame® Pointed Soft Point	9 1/2 M	2825	2595	2377	2169	1971	1786	3544	2990	2508	2088	1726	1416	0.2	0.8	zero	-2.2	-5.9	-11.2	1.8	1.6	zero	-3.2	-8.0	-23.4	-47.8	0.395
300 WSM	NEW R300WSM1	150	Core-Lok® Pointed Soft Point	9 1/2 M	3320	2977	2660	2364	2087	1830	3671	2952	2356	1861	1451	1116	-0.1	0.4	zero	-1.5	-4.3	-8.5	1.2	1.2	zero	-2.4	-6.2	-18.6	-39.0	0.294
	NEW PRA300WSMB	180	AccuTip® Boat Tail	9 1/2 M	3010	2812	2622	2440	2265	2097	3621	3159	2746	2378	2050	1757	0.1	0.6	zero	-1.8	-4.8	-9.1	2.5	2.9	2.1	zero	-3.4	-14.8	-32.9	0.480
	NEW PRSC300WSMB	180	Swift Scirocco™ Bonded	9 1/2 M	2980	2793	2614	2442	2276	2116	3549	3118	2730	2382	2070	1790	0.1	0.6	zero	-1.8	-4.8	-9.2	1.5	1.3	zero	-2.6	-6.6	-19.0	-38.1	0.507
308 Win.	RL308W1	125	Core-Lok® Pointed Soft Point	9 1/2	2660	2382	2121	1878	1653	1453	1964	1575	1249	978	759	586	-0.1	zero	-1.5	-4.7	-9.8	-17.1	1.0	zero	-2.7	-7.3	-14.1	-35.5	-69.6	0.314
	PRSC308WA	150	Swift Scirocco™ Bonded	9 1/2	2820	2611	2410	2219	2037	1863	2648	2269	1935	1640	1381	1156	0.0	zero	-1.1	-3.6	-7.6	-13.2	1.8	1.6	zero	-3.1	-7.8	-22.7	-46.0	0.435
	PRC308WA	150	Core-Lok® Ultra Bonded	9 1/2	2820	2546	2288	2046	1819	1611	2648	2159	1744	1394	1102	864	0.2	zero	-1.2	-3.9	-8.2	-14.4	1.9	1.7	zero	-3.4	-8.6	-25.5	-53.1	0.331
	R308W1	150	Core-Lok® Pointed Soft Point	9 1/2	2820	2533	2263	2009	1774	1560	2648	2137	1705	1344	1048	810	0.0	zero	-1.2	-3.9	-8.4	-14.7	2.0	1.7	zero	-3.4	-8.8	-26.2	-54.8	0.314
	PRSC308WB	165	Swift Scirocco™ Bonded	9 1/2	2700	2513	2333	2161	1996	1839	2670	2313	1994	1711	1459	1239	0.0	zero	-1.3	-4.0	-8.4	-14.4	2.0	1.7	zero	-3.3	-8.4	-24.3	-48.9	0.475
	PRA308WB	165	AccuTip® Boat Tail	9 1/2	2700	2501	2311	2129	1956	1792	2670	2292	1957	1661	1401	1176	-0.1	zero	-1.3	-4.1	-8.5	-14.7	2.0	1.8	zero	-3.4	-8.6	-24.8	-50.1	0.447
	RM308W1	168	MatchKing® BTHP	9 1/2	2680	2493	2314	2143	1979	1823	2678	2318	1998	1713	1460	1239	0.0	zero	-1.3	-4.1	-8.5	-14.7	2.1	1.8	zero	-3.4	-8.6	-24.7	-49.9	0.475
	PRC308WC	180	Core-Lok® Ultra Bonded	9 1/2	2620	2404	2198	2002	1818	1644	2743	2309	1930	1601	1320	1080	0.0	zero	-1.4	-4.5	-9.4	-16.3	2.3	2	zero	-3.8	-9.5	-27.7	-56.4	0.402
	R308W2	180	Core-Lok® Soft Point	9 1/2	2620	2274	1955	1666	1414	1212	2743	2066	1527	1109	799	587	0.0	zero	-1.7	-5.3	-11.2	-19.7	2.6	2.3	zero	-4.6	-11.8	-36.3	-78.2	0.248
	R308W3	180	Core-Lok® Pointed Soft Point	9 1/2	2620	2393	2178	1974	1782	1604	2743	2288	1896	1557	1269	1028	0.0	zero	-1.5	-4.6	-9.5	-16.5	2.3	2.0	zero	-3.8	-9.7	-28.3	-57.8	0.383
300 Wby. Mag.	R300WB1	180	Core-Lok® Pointed Soft Point	9 1/2 M	3120	2866	2626	2398	2181	1976	3890	3282	2755	2298	1902	1561	0.0	0.5	zero	-1.7	-4.6	-9.0	1.4	1.3	zero	-2.5	-6.4	-18.9	-38.7	0.383
303 British	R303B1	180	Core-Lok® Soft Point	9 1/2	2460	2124	1817	1542	1311	1137	2418	1803	1319	950	687	517	0.1	zero	-2.0	-6.3	-13.2	-23.1	1.3	zero	-3.6	-9.8	-19.1	-49.4	-99.9	0.247
7.62x39mm	R762391	125	Pointed Soft Point	7 1/2	2365	2062	1783	1533	1320	1154	1552	1180	882	652	483	370	0.1	zero	-2.2	-6.7	-14.0	-24.5	1.5	zero	-3.8	-10.4	-20.1	-51.3	-102.5	0.267
300 Remington Short Action Ultra Mag™	PR300SM1	150	Core-Lok® Ultra Bonded	9 1/2 M	3200	2901	2622	2359	2112	1880	3410	2803	2290	1854	1485	1177	0.1	0.5	zero	-1.6	-4.6	-8.9	1.3	1.2	zero	-2.5	-6.4	-19.1	-39.6	0.330
	PR300SM2	165	Core-Lok® Pointed Soft Point	9 1/2 M	3075	2792	2527	2276	2040	1819	3464	2856	2339	1898	1525	1213	0.1	0.6	zero	-1.8	-5.0	-9.7	1.5	1.4	zero	-2.7	-7.0	-20.7	-42.1	0.339
	PR300SM4	180	Core-Lok® Ultra Bonded	9 1/2 M	2960	2727	2506	2295	2094	1904	3501	2972	2509	2105	1753	1449	0.1	0.6	zero	-1.9	-5.2	-10.0	1.6	1.4	zero	-2.8	-7.1	-20.9	-42.6	0.403
	RM300SM7	190	MatchKing® BTHP	9 1/2 M	2900	2725	2557	2395	2239	2089	3547	3133	2758	2420	2115	1840	0.1	0.6	zero	-1.9	-5.1	-9.8	1.6	1.4	zero	-2.7	-6.9	-19.9	-39.8	0.533
300 Remington Ultra Mag™	PR300UM5	150	Swift Scirocco™ Bonded	9 1/2 M	3450	3208	2980	2762	2556	2358	3964	3427	2956	2541	2175	1852	0.0	0.3	zero	-1.2	-3.4	-6.7	1.7	2.1	1.5	zero	-2.6	-11.2	-25.3	0.435
	PR300UM3	180	Swift Scirocco™ Bonded	9 1/2 M	3250	3048	2856	2672	2495	2325	4221	3714	3260	2853	2487	2160	0.0	0.4	zero	-1.4	-3.9	-7.5	2.0	2.3	1.7	zero	-2.8	-12.3	-27.3	0.500
	PR300UM4	180	Core-Lok® Ultra Bonded	9 1/2 M	3250	2988	2742	2508	2287	2076	4221	3568	3003	2513	2088	1721	0.0	0.4	zero	-1.5	-4.2	-8.1	2.1	2.5	1.8	zero	-3.1	-13.6	-30.7	0.382
	NEW RS300UM2	200	A-Frame® Pointed Soft Point	9 1/2 M	3032	2791	2562	2345	2138	1942	4083	3459	2916	2442	2030	1675	0.1	0.6	zero	-1.8	-4.9	-9.5	1.5	1.4	zero	-2.7	-6.8	-19.9	-40.7	0.395
32-20 Win.	R32201	100	Lead	6 1/2	1210	1021	913	834	769	712	325	231	185	154	131	113	zero	-5.7	-19.7	-43.1	-76.9	-122.2	zero	-11.2	-31.7	-62.7	-105.2	-228.5	-410.8	0.166
32 Win. Special	R32WS2	170	Core-Lok® Soft Point	9 1/2	2250	1921	1626	1372	1175	1044	1911	1393	998	710	521	411	0.3	zero	-2.6	-8.0	-16.7	-29.3	1.7	zero	-4.5	-12.4	-24.1	-62.1	-125.3	0.239
8mm Rem. Magnum	RS8MMRA	200	A-Frame® Pointed Soft Point	9 1/2 M	2900	2623	2361	2115	1885	1672	3734	3054	2476	1987	1577	1241	0.2	0.7	zero	-2.1	-5.8	-11.2	1.8	1.6	zero	-3.1	-8.0	-23.9	-49.6	0.332
8mm Mauser	RM8MR	170	Core-Lok® Soft Point	9 1/2	2360	1969	1622	1333	1123	997	2102	1463	993	671	476	375	0.2	zero	-2.4	-7.6	-16.1	-28.6	1.6	zero	-4.4	-12.0	-23.7	-62.8	-128.9	0.205
338 Win. Mag.	RS338WA	225	A-Frame® Pointed Soft Point	9 1/2 M	2785	2517	2266	2029	1808	1605	3871	3165	2565	2057	1633	1286	0.0	zero	-1.2	-4.0	-8.5	-14.8	2.0	1.8	zero	-3.5	-8.8	-26.1	-54.1	0.337
	R338W1	225	Core-Lok® Pointed Soft Point	9 1/2 M	2780	2572	2374	2184	2003	1832	3860	3305	2815	2383	2004	1676	0.0	0.8	zero	-2.2	-5.9	-11.4	1.9	1.7	zero	-3.2	-8.1	-23.4	-47.5	0.435
	PRC338WA	225	Core-Lok® Ultra Bonded	9 1/2 M	2780	2582	2392	2210	2036	1871	3860	3329	2858	2440	2071	1748	0.2	0.8	zero	-2.2	-5.9	-11.2	1.9	1.6	zero	-3.2	-7.9	-23.0	-46.5	0.456
	R338W2	250	Core-Lok® Pointed Soft Point	9 1/2 M	2660	2456	2261	2075	1898	1731	3927	3348	2837	2389	1999	1663	0.0	zero	-1.4	-4.3	-8.9	-15.4	2.1	1.9	zero	-3.5	-8.9	-26.0	-52.7	0.431
338 Remington Ultra Mag™	PR338UM2	250	Core-Lok® Pointed Soft Point	9 1/2 M	2860	2647	2443	2249	2064	1887	4540	3888	3314	2807	2363	1977	0.2	0.7	zero	-2.1	-5.6	-10.6	1.7	1.5	zero	-3.0	-7.6	-22.0	-44.7	0.431
	PR338UM1	250	A-Frame® Pointed Soft Point	9 1/2 M	2860	2645	2440	2244	2057	1879	4540	3882	3303	2794	2347	1960	0.2	0.7	zero	-2.0	-5.6	-10.7	1.7	1.5	zero	-3.0	-7.6	-22.1	-44.9	0.427
35 Remington	R35R1	150	Core-Lok® Pointed Soft Point	9 1/2	2300	1874	1506	1218	1039	934	1762	1169	755	494	359	291	0.3	zero	-2.7	-8.6	-18.2	-32.6	1.8	zero	-4.9	-13.7	-27.1	-73.0	-150.8	