

SSAA Combined Services - Rifle Projectile Energy Levels

Calibre	Description	Projectile Weight (gn)	Speed (ft/sec)	PEL 100%	PEL 75%
.25-20	Winchester L/A	86	1710	147	110
0.303	British	174	2470	430	322
.30-40	Krag	220	2000	440	330
0.31	Cadet	120	1200	144	108
.32-20	Winchester L/A	115	1280	147	110
.30-06	Remington	152	2800	426	319
6.5 x 55	Swede	156	2380	371	278
6.5mm	Arisaka Spitzer Ball	139	2500	347	261
6.5mm	Carcano Ball	162	2296	372	279
7mm	Mauser Ball	173	2296	397	298
7.35mm	Carcano Ball	128	2482	318	238
7.5mm	Swiss Mod 90/03 Ball	211	1980	418	313
7.5mm	Swiss Mod 1911 Ball	174	2640	459	345
7.65mm	Mauser RNB	211	2132	450	337
7.65mm	Mauser SBB	185	2467	456	342
7.62mm	Russian M 1908 Ball	150	2850	427	321
7.7mm	Ball	183	2300	421	316
8 x 50R	Mannlicher Ball	244	2034	496	372
8mm	Model 1888 Ball	227	2100	477	357
8mm	Mauser S Ball	198	2476	490	368

$$\text{PEL} = \frac{\text{Proj Weight (gn)} \times \text{Velocity (ft/sec)}}{1000}$$

References:

Smith, WHB and Smith, JE, 1948, *The Book of Rifles*, Winchester Press.