

# Rimfire Ammunition Ballistics Table

Compiled by **Adam S. Gubar**

NOTE: Caliber is given in decimal fractions of an inch. Bullet Weight is given in grains. Muzzle Velocity (MV) and velocity at 100 yards (V@100) are given in feet-per-second. Muzzle Energy (ME) and energy at 100 yards (E@100) are given in foot-pounds. "MP" is the abbreviation used for momentum at the muzzle.

Caliber	Cartridge	Mfg.	Type Load	Bullet Weight	Bullet Type	SD	MV	ME	V@100	E@100	MP
.172	.17 Mach 2	CCI		17	V-Max	.082	2010	152	1471	82	4.88
.172	.17 Mach 2	Eley		17	V-Max	.082	2100	166	1532	89	5.10
.172	.17 Mach 2	Hornady		17	V-Max	.082	2100	166	1530	88	5.10
.172	.17 HMR	CCI		17	TNT-HP	.082	2550	245	1757	117	6.19
.172	.17 HMR	CCI		17	V-Max	.082	2550	245	1915	138	6.19
.172	.17 HMR	Federal		17	V-Max	.082	2530	242	1884	134	6.14
.172	.17 HMR	Federal		17	JHP	.082	2530	242	1804	123	6.14
.172	.17 HMR	Hornady		17	V-Max	.082	2550	245	1901	136	6.19
.172	.17 HMR	Winchester		17	V-Max	.082	2550	245	1915	138	6.19
.172	.17 HMR	CCI		20	Game Point	.097	2375	250	1754	137	6.79
.172	.17 HMR	CCI		20	FMJ	.097	2375	250	1776	140	6.79
.172	.17 HMR	Hornady		20	JHP	.097	2375	250	1776	140	6.79
.172	.17 HMR	Winchester		20	Spire Point	.097	2375	250	1776	140	6.79
.205	5mm Rem Mag	Centurion		30	JHP	.102	2300	352			9.86
.222	.22 CB Cap	CCI		29	Lead RN	.084	710	32	607	24	2.94
.222	.22 CB Cap	CCI	Long	29	Lead RN	.084	710	32	607	24	2.94

.222	.22 CB Cap	Remington		33	JHP	.096	740	40			3.49
.223	.22 Short	Winchester		0	Blank	.000	0		0		0.00
.223	.22 Short	CCI	Hi Vel	27	Lead HP	.078	1105	73	868	45	4.26
.223	.22 Short	Aguila	Hi Vel	29	Lead RN	.083	1095	77			4.54
.223	.22 Short	Aguila	Hi Vel	29	Plated HP	.083	1095	77			4.54
.223	.22 Short	CCI	Hi Vel	29	Plated RN	.083	1080	75	857	47	4.47
.223	.22 Short	CCI		29	Lead HP	.083	830	44	704	32	3.44
.223	.22 Short	CCI		29	Lead RN	.083	710	32	602	23	2.94
.223	.22 Short	Fiocchi		29	Lead RN	.083	605	24	572	21	2.51
.223	.22 Short	Remington	Hi Vel	29	Lead RN	.083	1095	77			4.54
.223	.22 Short	Remington	Hi Vel	29	Plated RN	.083	1095	77			4.54
.223	.22 Short	RWS		29	Lead RN	.083	1000	64	920	54	4.14
.223	.22 Long	PRVI		0	Blank	.000	0		0		0.00
.223	.22 Long	CCI		29	Lead RN	.083	710	32	603	23	2.94
.223	.22 Long	CCI	Hi Vel	29	Lead RN	.083	1215	95	908	53	5.03
.223	.22 Long	Winchester		29	Lead RN	.083	700	32	681	30	2.90
.223	.22 Long Rifle	Aguila	Hyper Vel	30	Lead HP	.086	1750	204	1191	94	7.50
.223	.22 Long Rifle	Aguila	Hyper Vel	30	Solid	.086	1750	204	1191	94	7.50
.223	.22 Long Rifle	Federal	Hyper Vel	31	Copper Plated	.089	1430	141	1046	75	6.33
.223	.22 Long Rifle	CCI	Hyper Vel	32	Stinger HP	.092	1640	191	1132	91	7.50
.223	.22 Long Rifle	Remington	Hyper Vel	33	Yellow Jkt HP	.095	1500	165	1075	85	7.07
.223	.22 Long Rifle	Federal	Hi Vel	36	Copper Plated	.103	1260	127	1003	80	6.48
.223	.22 Long Rifle	Lapua	Sub Sonic	36	Lead HP	.103	1033	85	950	72	5.31
.223	.22 Long Rifle	Remington	Hyper Vel	36	Viper Solid	.103	1410	159	1056	89	7.25
.223	.22 Long	Sellier &	Hi Vel	36	Copper	.103	1328	141			6.83

	Rifle	Bellot			Plated						
.223	.22 Long Rifle	Winchester		36	X-Pert HP	.103	1220	119	956	73	6.27
.223	.22 Long Rifle	Winchester		37	Lead HP	.106	1280	135	1015	85	6.77
.223	.22 Long Rifle	Winchester	Hi Vel	37	Super Sp HP	.106	1330	145	1038	89	7.03
.223	.22 Long Rifle	Aguila	Sub Sonic	38	Lead HP	.109	1025	89	873	64	5.56
.223	.22 Long Rifle	Federal	Hi Vel	38	Copper Plated	.109	1260	134	1010	86	6.84
.223	.22 Long Rifle	Federal	Hi Vel	38	Copper Plated	.109	1260	134	1010	86	6.84
.223	.22 Long Rifle	Fiocchi	Hi Vel	38	Copper Plated	.109	1280	138			6.95
.223	.22 Long Rifle	PMC	Sub Sonic	38	Solid	.109	1000	84	854	62	5.43
.223	.22 Long Rifle	Remington	Sub Sonic	38	Lead HP	.109	1050	93	851	61	5.70
.223	.22 Long Rifle	Sellier & Bellot	Hi Vel	38	Lead HP	.109	1279	138			6.94
.223	.22 Long Rifle	CCI		40	Lead HP	.115	1070	102	890	70	6.11
.223	.22 Long Rifle	CCI		40	Solid	.115	1070	102	890	70	6.11
.223	.22 Long Rifle	CCI	Hi Vel	40	Gold Dot HP	.115	1435	183	1112	110	8.20
.223	.22 Long Rifle	CCI	Hi Vel	40	Lead HP	.115	1235	135	1036	95	7.06
.223	.22 Long Rifle	Eley	Hi Vel	40	Lead HP	.115	1312	153	1100	107	7.50
.223	.22 Long Rifle	Federal		40	Solid	.115	1080	104	931	77	6.17
.223	.22 Long Rifle	Federal		40	Solid	.115	1200	128	991	87	6.86
.223	.22 Long Rifle	Federal	Hi Vel	40	Copper Plated	.115	1240	137	1011	91	7.09
.223	.22 Long Rifle	Federal	Hi Vel	40	Copper Plated	.115	1240	137	1011	91	7.09
.223	.22 Long Rifle	Federal	Hi Vel	40	Solid	.115	1240	137	1011	91	7.09
.223	.22 Long Rifle	Federal		40	Solid	.115	1200	128	991	87	6.86

.223	.22 Long Rifle	Federal	Hi Vel	40	Solid	.115	1240	137	1011	91	7.09
.223	.22 Long Rifle	Fiocchi	Hi Vel	40	Copper Plated	.115	1255	140			7.17
.223	.22 Long Rifle	Fiocchi	Hi Vel	40	Long RN	.115	1250	139			7.14
.223	.22 Long Rifle	Lapua	Hi Vel	40	Sp Ace Solid	.115	1280	146	1004	90	7.31
.223	.22 Long Rifle	Norma		40	Lead RN	.115	1066	101			6.09
.223	.22 Long Rifle	RWS	Hi Vel	40	Lead HP	.115	1310	152	990	87	7.49
.223	.22 Long Rifle	Sellier & Bellot	Sub Sonic	40	Lead RN	.115	1089	105			6.22
.223	.22 Long Rifle	Sellier & Bellot	Sub Sonic	40	Lead RN	.115	1089	105			6.22
.223	.22 Long Rifle	Winchester		40	Dynapoint	.115	1150	117	976	85	6.57
.223	.22 Long Rifle	Winchester		40	Wildcat RN	.115	1255	140	1017	92	7.17
.223	.22 Long Rifle	Winchester	Hi Vel	40	Copper Plated	.115	1255	140	1017	92	7.17
.223	.22 Long Rifle	Winchester	Hi Vel	40	Pwr-Point HP	.115	1280	146	1001	89	7.31
.223	.22 Long Rifle	Winchester	Hi Vel	40	Power Point	.115	1280	146	1001	89	7.31
.223	.22 Long Rifle	Winchester	Hi Vel	40	Lead RN	.115	1300	150	1038	96	7.43
.223	.22 Long Rifle	Winchester	Sub Sonic	40	Lead HP	.115	1065	101	922	75	6.09
.223	.22 Long Rifle	Winchester		40	Lead RN	.115	1150	117	976	85	6.57
.223	.22 Long Rifle	Aguila	Sub Sonic	60	Solid	.172	950	120	802	86	8.14
.223	.22 Long Rifle	Federal	Shot		#12 Shot	.000					0.00
.223	.22 Long Rifle	Winchester	Shot		#12 Shot	.000					0.00
.224	.22 WRF	CCI/Speer		45	JHP	.128	1300	169	1013	103	8.36
.224	.22 WRF	Winchester		45	Lead FN	.128	1300	169	1023	105	8.36
.224	.22 Win	CCI/Speer		30	V-Max	.085	2200	322	1571	164	9.43

.224	Mag .22 Win	CCI/Speer	30	TNT Green	.085	2050	280	1317	116	8.79
.224	Mag .22 Win	CCI/Speer	30	TNT-HP	.085	2200	322	1405	131	9.43
.224	Mag .22 Win	CCI/Speer	30	JHP	.085	2200	322	1375	126	9.43
.224	Mag .22 Win	Federal	30	TNT-HP	.085	2200	322	1419	134	9.43
.224	Mag .22 Win	Hornady	30	V-Max	.085	2200	322	1002	67	9.43
.224	Mag .22 Win	Winchester	30	JHP	.085	2250	337			9.64
.224	Mag .22 Win	Remington	33	Accutip	.094	1400	144	1217	109	6.60
.224	Mag .22 Win	Winchester	34	JHP	.097	2120	339	1435	155	10.30
.224	Mag .22 Win	CCI	40	FMJ	.114	1875	312	1366	166	10.71
.224	Mag .22 Win	CCI	40	Jkt Spire Point	.114	1875	312	1385	170	10.71
.224	Mag .22 Win	CCI	40	JHP	.114	1875	312	1319	155	10.71
.224	Mag .22 Win	CCI	40	Plated HP	.114	1875	312	1319	155	10.71
.224	Mag .22 Win	Federal	40	FMJ	.114	1880	314	1121	112	10.74
.224	Mag .22 Win	Fiocchi	40	JHP	.114	1335	158	1143	116	7.63
.224	Mag .22 Win	Fiocchi	40	JSP	.114	1335	158	1143	116	7.63
.224	Mag .22 Win	PMC	40	FMJ	.114	1335	158	1205	129	7.63
.224	Mag .22 Win	PMC	40	PSP	.114	1335	158	1205	129	7.63
.224	Mag .22 Win	Remington	40	JHP	.114	1335	158	1141	116	7.63
.224	Mag .22 Win	Remington	40	PSP	.114	1335	158	1141	116	7.63
.224	Mag .22 Win	RWS	40	JHP	.114	1410	177	1197	127	8.06
.224	Mag .22 Win	Winchester	40	FMJ	.114	1910	324	1330	157	10.91

.224	.22 Win Mag	Winchester	40	JHP	.114	1910	324	1326	156	10.91
.224	.22 Win Mag	Winchester	45	Plated HP	.128	1550	240	1147	131	9.96
.224	.22 Win Mag	Federal	50	JHP	.142	1530	260	1197	159	10.93
.224	.22 Win Mag	CCI	52	#12 Shot	.148					0.00

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