



Rifle Ballistics

Hornady® Product Lines:

SF	Superformance®	C	Custom™	DG	Dangerous Game™ Series	LE	LEVERevolution®	CL	Custom Lite®	DUTY	Critical DUTY®
SI	Superformance International™	M	Match	SM	Superformance® Match	SV	Superformance® Varmint	V	Varmint Express®		

All data from a 24" Bbl, unless otherwise noted.

Ammo Description					Velocity (m/sec)								Energy (joules)								Trajectory Tables (cm)						
CARTRIDGE	BULLET	ITEM #	WEIGHT	B.C.	MUZ	50 m	100 m	150 m	200 m	250 m	300 m	MUZ	50 m	100 m	150 m	200 m	250 m	300 m	MUZ	50 m	100 m	150 m	200 m	250 m	300 m		
V	17 Mach 2	15.5 gr. NTX	83176	1.00g	.115	625	527	442	373	326	296	275	197	140	98	70	53	44	38	-5.0	2.2	0	-15.6	-50.7	-109.6	-199.7	
V	17 Mach 2	17 gr. V-MAX	83177	1.10g	.125	640	548	467	398	345	311	288	225	166	120	87	66	53	46	-5.0	1.8	0	-13.8	-44.8	-97.2	-178.0	
V	17 HMR	15.5 gr. NTX	83171	1.00g	.115	770	659	558	468	394	339	305	297	218	156	110	78	58	47	-5.0	0.5	0	-9.0	-30.6	-69.4	-132.7	
V	17 HMR	17 gr. V-MAX	83170	1.10g	.125	777	674	580	494	420	362	322	332	250	185	135	97	72	57	-5.0	0.3	0	-8.1	-27.5	-62.0	-118.3	
V	17 HMR	20 gr. XTP	83172	1.30g	.125	724	625	535	455	388	339	307	339	253	185	134	98	75	61	-5.0	0.8	0	-10.0	-33.2	-73.9	-139.0	
SV	17 Hornet	15.5 gr. NTX	83004	1.00g	.114	1177	1026	891	770	658	556	467	696	528	399	298	218	156	109	-5.0	-1.3	0	-2.0	-8.6	-21.5	-44.1	
SV	17 Hornet	20 gr. V-MAX	83005	1.30g	.185	1113	1022	938	859	784	714	647	803	677	570	478	399	330	271	-5.0	-1.3	0	-1.6	-6.8	-16.0	-30.8	
V	204 Ruger	24 gr. NTX (26" Bbl)	83209	1.56g	.170	1341	1225	1118	1019	928	843	763	1399	1166	972	808	670	553	453	-5.0	-1.7	0	-0.4	-3.3	-9.2	-19.0	
V	204 Ruger	32 gr. V-MAX (26" Bbl)	83204	2.07g	.210	1288	1196	1111	1031	956	886	818	1719	1484	1280	1103	948	813	695	-5.0	-1.6	0	-0.4	-3.3	-8.9	-18.0	
V	204 Ruger	40 gr. V-MAX (26" Bbl)	83206	2.59g	.275	1189	1123	1061	1002	946	892	840	1832	1635	1460	1302	1160	1031	915	-5.0	-1.5	0	-0.7	-4.0	-10.0	-19.4	
V	204 Ruger	45 gr. SP (26" Bbl)	83208	2.92g	.245	1105	1036	972	910	851	795	741	1780	1566	1376	1207	1057	921	800	-5.0	-1.3	0	-1.3	-5.8	-13.7	-25.9	
V	5.45x39mm	60 gr. V-MAX (Steel Case) (16" Bbl)	8124	3.89g	.285	856	808	761	715	671	629	588	1426	1268	1125	994	876	769	672	-5.0	-0.6	0	-3.7	-12.5	-26.8	-48.0	
V	22 WMR	30 gr. V-MAX	83202	1.94g	.095	671	548	443	362	313	283	260	437	292	191	128	95	78	66	-5.0	1.9	0	-15.5	-51.8	-114.3	-211.2	
V	22 Hornet	35 gr. V-MAX	83202	2.27g	.109	936	804	685	576	480	399	340	992	734	532	376	261	180	131	-5.0	-0.5	0	-5.1	-18.6	-44.1	-88.2	
SV	222 Rem	35 gr. NTX	8309	2.27g	.177	1146	1049	959	876	797	723	652	1490	1248	1044	870	720	592	482	-5.0	-1.3	0	-1.4	-6.2	-15.1	-29.3	
SV	222 Rem	50 gr. V-MAX	8316	3.24g	.242	1020	955	893	834	778	724	672	1684	1477	1292	1128	981	849	732	-5.0	-1.1	0	-2.0	-7.8	-17.7	-32.7	
SV	223 Rem	35 gr. NTX	83266	2.27g	.177	1219	1117	1022	934	852	775	702	1685	1414	1185	990	824	681	558	-5.0	-1.5	0	-0.9	-4.9	-12.3	-24.4	
V	223 Rem	40 gr. V-MAX	8325	2.59g	.200	1158	1071	990	914	842	774	709	1738	1487	1271	1083	919	776	652	-5.0	-1.4	0	-1.2	-5.5	-13.3	-25.8	
SI	223 Rem	50 gr. GMX	83260	3.24g	.215	1021	948	879	814	752	692	635	1689	1457	1253	1074	916	777	654	-5.0	-1.1	0	-2.1	-8.2	-18.8	-35.1	
SV	223 Rem	53 gr. V-MAX	8025	3.43g	.290	1056	1000	947	896	846	799	753	1916	1718	1539	1377	1230	1096	973	-5.0	-1.2	0	-1.5	-6.2	-14.4	-26.8	
V	223 Rem	55 gr. V-MAX	8327	3.56g	.255	988	927	870	815	763	712	663	1738	1533	1349	1185	1036	903	783	-5.0	-1.0	0	-2.3	-8.4	-18.9	-34.7	
C	223 Rem	68 gr. BTHP	80289	4.41g	.355	902	861	822	784	747	710	675	1794	1635	1489	1354	1228	1112	1004	-5.0	-0.8	0	-2.9	-9.9	-21.3	-38.0	
M	223 Rem	75 gr. BTHP	8026	4.86g	.395	850	815	781	747	715	683	652	1757	1615	1482	1358	1242	1133	1033	-5.0	-0.6	0	-3.4	-11.4	-24.2	-42.7	
SM	223 Rem	75 gr. BTHP	80264	4.86g	.395	893	857	821	787	753	721	689	1939	1783	1639	1505	1379	1262	1152	-5.0	-0.8	0	-2.9	-9.9	-21.2	-37.6	
SM	5.56 NATO	75 gr. BTHP (20" Bbl)	81264	4.86g	.395	887	851	816	781	748	715	683	1912	1759	1616	1483	1359	1243	1135	-5.0	-0.8	0	-2.9	-10.1	-21.5	-38.3	
SV	22-250 Rem	35 gr. NTX	8334	2.27g	.177	1356	1243	1139	1043	954	870	792	2087	1752	1471	1233	1031	859	711	-5.0	-1.7	0	-0.3	-3.0	-8.4	-17.6	
V	22-250 Rem	40 gr. V-MAX	8335	2.59g	.200	1265	1171	1083	1001	924	852	783	2074	1776	1520	1299	1108	941	795	-5.0	-1.6	0	-0.6	-3.7	-9.9	-19.8	
V	22-250 Rem	50 gr. V-MAX	8336	3.24g	.242	1158	1086	1018	953	892	833	773	2173	1910	1678	1472	1288	1124	978	-5.0	-1.4	0	-1.0	-4.8	-11.7	-22.6	
SV	22-250 Rem	50 gr. V-MAX	83366	3.24g	.242	1219	1143	1072	1005	941	880	822	2408	2118	1862	1635	1434	1254	1094	-5.0	-1.5	0	-0.6	-3.8	-9.9	-19.4	
V	22-250 Rem	55 gr. V-MAX	8337	3.56g	.255	1122	1055	992	931	874	819	766	2243	1983	1753	1546	1362	1195	1046	-5.0	-1.4	0	-1.2	-5.3	-12.7	-24.2	
C	22-250 Rem	60 gr. SP	8039	3.89g	.264	1076	1014	954	898	844	792	742	2251	1998	1771	1568	1384	1219	1069	-5.0	-1.3	0	-1.5	-6.1	-14.3	-26.7	
V	220 Swift	55 gr. V-MAX	8324	3.56g	.255	1122	1055	992	931	874	819	766	2243	1983	1753	1546	1362	1195	1046	-5.0	-1.4	0	-1.2	-5.3	-12.7	-24.2	
C	220 Swift	60 gr. HP	8122	3.89g	.264	1097	1034	974	916	862	809	758	2341	2078	1844	1633	1443	1272	1117	-5.0	-1.3	0	-1.3	-5.7	-13.4	-25.3	
SV	243 Win	58 gr. V-MAX	8343	3.76g	.250	1196	1124	1056	992	930	872	816	2690	2375	2096	1848	1626	1428	1251	-5.0	-1.5	0	-0.8	-4.1	-10.4	-20.2	
C	243 Win	75 gr. HP	8040	4.86g	.294	1018	964	913	864	816	771	726	2519	2260	2027	1814	1620	1443	1281	-5.0	-1.1	0	-1.9	-7.1	-16.1	-29.7	
SI	243 Win	80 gr. GMX	80458	5.18g	.300	1044	990	939	890	842	796	752	2826	2542	2286	2052	1839	1644	1466	-5.0	-1.2	0	-1.6	-6.5	-14.8	-27.4	
CL	243 Win	87 gr. SST	80466	5.64g	.400	853	819	785	751	719	688	657	2053	1889	1735	1592	1458	1333	1216	-5.0	-0.6	0	-3.4	-11.3	-23.9	-42.2	
SF	243 Win	95 gr. SST	80463	6.16g	.355	971	928	886	846	807	769	733	2901	2650	2419	2205	2007	1823	1652	-5.0	-1.0	0	-2.1	-7.8	-17.2	-31.2	
C	243 Win	100 gr. InterLock BTSP	8046	6.48g	.405	902	866	832	798	765	733	701	2637	2433	2242	2063	1896	1739	1593	-5.0	-0.8	0	-2.8	-9.5	-20.4	-36.3	
SF	6mm Rem	95 gr. SST	81663	6.16g	.355	986	943	901	860	821	783	745	2992	2735	2497	2278	2074	1885	1710	-5.0	-1.1	0	-2.0	-7.4	-16.5	-29.9	
C	6mm Rem	100 gr. InterLock BTSP	8166	6.48g	.405	945	908	872	837	803	770	738	2893	2671	2465	2271	2091	1922	1764	-5.0	-1.0	0	-2.3	-8.2	-17.9	-32.0	
C	257 Roberts +P	117 gr. InterLock BTSP	8135	7.58g	.391	847	812	777	744	711	679	647	2722	2498	2290	2096	1915	1746	1589	-5.0	-0.6	0	-3.5	-11.6	-24.6	-43.3	
SF	257 Roberts +P	117 gr. SST	81353	7.58g	.390	898	861	825	790	756	723	690	3057	2810	2581	2367	2167	1980	1807	-5.0	-0.8	0	-2.9	-9.8	-21.0	-37.3	
C	25-06 Rem	117 gr. InterLock BTSP	8145	7.58g	.391	911	874	838	803	768	735	702	3148	2896	2662	2443	2238	2048	1870	-5.0	-0.9	0	-2.7	-9.3	-20.1	-35.8	
SF	25-06 Rem	117 gr. SST	81453	7.58g	.390	948	909	872	836	801	766	733	3407	3136	2885	2650	2431	2227	2037	-5.0	-1.0	0	-2.3	-8.2	-17.9	-32.2	
C	257 Wby Mag	90 gr. GMX	8136	5.83g	.290	1082	1025	970	918	868	820	773	3414	3063	2747	2459	2198	1960	1744	-5.0	-1.3	0	-1.4	-5.8	-13.4	-25.1	
C	257 Wby Mag	110 gr. InterBond	81363	7.13g	.390	1015	974	935	897	861	825	790	3672	3385	3118	2870	2639	2424	2223	-5.0	-1.2	0	-1.7	-6.5	-14.6	-26.6	
SI	6.5x55mm Swedish Mauser	120 gr. GMX	8148	7.78g	.450	869	838	807	777	748	719	691	2937	2728	2532	2347	2174	2010	1856	-5.0	-0.7	0	-3.1	-10.4	-22.0	-38.8	
SF	6.5x55mm Swedish Mauser	140 gr. SST	85507	9.07g	.520	834	807	781	756	731	706	682	3152	2955	2768	2590	2422	2262	2110	-5.0	-0.6	0	-3.5	-11.4	-23.8	-41.6	
M	6.5 Grendel	123 gr. A-MAX	8150	7.97g	.510	786	760	735	710	685	661	637	2465	2303	2151	2006	1870	1740	1618	-5.0	-0.3	0	-4.2	-13.5	-27.9	-48.4	
C	6.5 Grendel																										

Rifle Ballistics (continued)

Ammo Description						Velocity (m/sec)							Energy (joules)						Trajectory Tables (cm)							
CARTRIDGE	BULLET	ITEM #	WEIGHT	B.C.	MUZ	50 m	100 m	150 m	200 m	250 m	300 m	MUZ	50 m	100 m	150 m	200 m	250 m	300 m	MUZ	50 m	100 m	150 m	200 m	250 m	300 m	
V	6.8 Rem SPC	110 gr. V-MAX (16" Bbl)	8346	7.13 g	.370	783	747	713	679	646	614	583	2187	1992	1810	1642	1486	1342	1210	-5.0	-0.3	0	-4.6	-14.8	-30.9	-54.0
M	6.8 Rem SPC	110 gr. BTHP (16" Bbl)	8146	7.13 g	.360	783	747	711	676	642	609	577	2187	1986	1801	1629	1470	1323	1189	-5.0	-0.3	0	-4.7	-15.0	-31.2	-54.7
C	6.8 Rem SPC	120 gr. SST (16" Bbl)	8347	7.78 g	.400	750	717	686	655	625	596	568	2186	2001	1829	1669	1520	1382	1254	-5.0	-0.1	0	-5.2	-16.4	-33.7	-58.7
CL	270 Win	120 gr. SST	80526	7.78 g	.223	815	755	697	642	590	540	494	2586	2216	1891	1604	1353	1134	947	-5.0	-0.3	0	-4.9	-16.2	-34.6	-62.7
SI	270 Win	130 gr. GMX	80528	8.42 g	.460	976	943	910	879	848	817	788	3983	3743	3489	3251	3026	2815	2615	-5.0	-1.1	0	-1.9	-7.1	-15.6	-28.1
C	270 Win	130 gr. InterLock SP	8055	8.42 g	.409	933	896	861	827	794	761	729	3665	3385	3125	2881	2653	2440	2240	-5.0	-0.9	0	-2.4	-8.5	-18.5	-33.1
SF	270 Win	130 gr. InterBond	80548	8.42 g	.460	975	942	910	878	847	817	787	4008	3738	3485	3247	3023	2811	2611	-5.0	-1.1	0	-1.9	-7.1	-15.7	-28.2
SF	270 Win	130 gr. SST	80543	8.42 g	.460	975	942	910	878	847	817	787	4008	3738	3485	3247	3023	2811	2611	-5.0	-1.1	0	-1.9	-7.1	-15.7	-28.2
SF	270 Win	140 gr. SST	80563	9.07 g	.495	942	912	882	853	825	798	770	4024	3770	3530	3303	3089	2885	2693	-5.0	-1.0	0	-2.2	-7.9	-17.1	-30.4
C	270 Win	140 gr. InterLock BTSP	8056	9.07 g	.486	896	866	837	809	781	754	727	3643	3405	3181	2969	2769	2579	2399	-5.0	-0.8	0	-2.7	-9.3	-19.8	-35.0
C	270 Win	150 gr. InterLock SP	8058	9.72 g	.462	866	835	805	776	748	720	692	3642	3389	3152	2928	2717	2517	2329	-5.0	-0.7	0	-3.1	-10.4	-22.1	-38.9
C	7x57mm Mauser	139 gr. InterLock BTSP	8155	9.01 g	.453	817	787	757	729	701	673	646	3006	2788	2584	2392	2211	2041	1881	-5.0	-0.5	0	-3.9	-12.5	-26.0	-45.5
SF	7x57mm Mauser	139 gr. SST	81553	9.01 g	.486	841	813	785	757	731	704	679	3187	2975	2774	2584	2405	2235	2075	-5.0	-0.6	0	-3.4	-11.3	-23.6	-41.3
C	275 Rigby	140 gr. InterLock SP	8070	9.01 g	.392	817	782	748	716	683	652	622	3006	2756	2523	2306	2104	1915	1741	-5.0	-0.5	0	-4.0	-13.0	-27.1	-47.6
CL	7mm-08 Rem	120 gr. SST	80572	7.78 g	.365	815	778	742	707	673	639	607	2586	2355	2141	1943	1760	1590	1433	-5.0	-0.4	0	-4.1	-13.3	-27.9	-49.1
SF	7mm-08 Rem	139 gr. SST	80573	9.01 g	.486	899	869	840	812	784	757	730	3642	3404	3180	2969	2768	2579	2400	-5.0	-0.8	0	-2.6	-9.1	-19.6	-34.6
SF	7mm-08 Rem	139 gr. GMX	80576	9.01 g	.486	887	857	829	800	773	746	719	3543	3311	3093	2886	2690	2505	2330	-5.0	-0.8	0	-2.8	-9.5	-20.3	-35.9
SF	280 Rem	139 gr. SST	81583	9.01 g	.486	942	911	881	852	823	795	767	3996	3738	3496	3268	3051	2847	2653	-5.0	-1.0	0	-2.2	-7.9	-17.2	-30.6
SF	280 Rem	139 gr. GMX	81586	9.01 g	.486	936	905	875	846	817	790	762	3944	3690	3450	3224	3010	2808	2616	-5.0	-1.0	0	-2.2	-8.0	-17.4	-31.1
SI	7x64	140 gr. GMX	8157	9.07 g	.486	950	919	889	859	831	802	775	4095	3832	3584	3351	3129	2920	2722	-5.0	-1.0	0	-2.1	-7.6	-16.7	-29.8
SI	7x65R	140 gr. GMX	81578	9.07 g	.486	869	840	811	784	756	730	703	3426	3200	2987	2785	2595	2414	2244	-5.0	-0.7	0	-3.0	-10.2	-21.6	-37.9
C	7mm Rem Mag	139 gr. InterLock BTSP	8059	9.01 g	.453	960	927	894	862	831	801	771	4152	3867	3601	3350	3113	2891	2681	-5.0	-1.0	0	-2.1	-7.5	-16.5	-29.6
SF	7mm Rem Mag	139 gr. SST	80593	9.01 g	.486	988	956	925	894	865	836	807	4393	4113	3850	3602	3368	3146	2936	-5.0	-1.1	0	-1.8	-6.7	-14.9	-26.8
CL	7mm Rem Mag	139 gr. SST	80596	9.01 g	.486	853	825	797	769	742	715	690	3281	3063	2858	2663	2479	2306	2141	-5.0	-0.7	0	-3.2	-10.8	-22.7	-39.8
SI	7mm Rem Mag	140 gr. GMX	80598	9.07 g	.486	972	940	910	880	851	822	794	4287	4012	3755	3512	3282	3065	2859	-5.0	-1.1	0	-1.9	-7.1	-15.6	-28.0
C	7mm Rem Mag	154 gr. InterLock SP	8060	9.98 g	.433	925	891	858	826	794	763	733	4271	3961	3673	3401	3146	2907	2682	-5.0	-0.9	0	-2.5	-8.6	-18.6	-33.2
SF	7mm Rem Mag	154 gr. SST	8061	9.98 g	.525	945	916	888	861	834	808	782	4455	4189	3938	3700	3474	3259	3054	-5.0	-1.0	0	-2.1	-7.6	-16.6	-29.7
SF	7mm Rem Mag	154 gr. InterBond	80628	9.98 g	.525	945	916	888	861	834	808	782	4455	4189	3938	3700	3474	3259	3054	-5.0	-1.0	0	-2.1	-7.6	-16.6	-29.7
C	7mm Rem Mag	162 gr. InterLock BTSP	8063	10.50 g	.514	896	868	841	814	787	761	736	4215	3955	3708	3475	3253	3043	2843	-5.0	-0.8	0	-2.7	-9.2	-19.6	-34.5
SF	7mm Rem Mag	162 gr. SST	80633	10.50 g	.550	924	897	870	845	819	795	770	4477	4221	3977	3746	3525	3315	3115	-5.0	-0.9	0	-2.3	-8.2	-17.6	-31.2
C	7mm Wby Mag	139 gr. GMX	80666	9.01 g	.486	1006	973	942	911	881	852	823	4557	4268	3997	3740	3498	3269	3053	-5.0	-1.2	0	-1.6	-6.3	-14.0	-25.4
C	7mm Wby Mag	154 gr. InterBond	80689	9.98 g	.525	975	946	918	890	862	836	809	4747	4466	4201	3949	3710	3483	3268	-5.0	-1.1	0	-1.9	-6.9	-15.2	-27.0
C	300 Whisper	110 gr. V-MAX (16" Bbl)	80689	7.13 g	.290	724	680	638	598	559	522	487	1868	1650	1452	1274	1114	971	845	-5.0	0.2	0	-6.3	-19.9	-41.4	-72.0
C	300 Whisper	208 gr. A-MAX (16" Bbl)	80892	13.48 g	.648	311	306	301	296	292	288	284	651	630	610	592	576	560	545	-5.0	10.7	0	-37.8	-104.3	-198.2	-323.7
LE	30-30 Win	140 gr. MonoFlex	82731	9.07 g	.277	762	715	670	626	584	544	507	2634	2319	2036	1780	1550	1345	1164	-5.0	0.1	0	-5.6	-17.7	-37.1	-65.8
CL	30-30 Win	150 gr. RN	80806	9.72 g	.186	640	577	519	466	418	377	344	1992	1620	1309	1054	848	690	576	-5.0	1.3	0	-10.8	-33.8	-71.5	-128.8
LE	30-30 Win	160 gr. FTX	82730	10.37 g	.330	732	693	655	619	584	551	518	2774	2489	2228	1988	1770	1572	1393	-5.0	0.1	0	-5.9	-18.5	-38.3	-67.1
C	30-30 Win	170 gr. InterLock FP	8085	11.02 g	.189	671	607	548	492	442	398	361	2477	2030	1652	1336	1078	873	719	-5.0	1.0	0	-9.4	-29.8	-63.2	-114.4
SF	300 Savage	150 gr. SST	82221	9.72 g	.370	835	798	762	727	692	659	627	3390	3095	2821	2566	2330	2111	1908	-5.0	-0.5	0	-3.7	-12.3	-26.0	-45.9
LE	308 Marlin Express	140 gr. MonoFlex	82734	9.07 g	.335	853	812	772	733	695	658	622	3304	2990	2701	2434	2188	1962	1755	-5.0	-0.6	0	-3.6	-12.0	-25.4	-45.1
LE	308 Marlin Express	160 gr. FTX	82733	10.37 g	.395	811	776	743	711	679	648	618	3409	3126	2863	2618	2389	2176	1979	-5.0	-0.4	0	-4.1	-13.2	-27.6	-48.4
CL	308 Win	125 gr. GMX	80866	8.10 g	.305	815	771	728	687	646	608	570	2693	2407	2147	1909	1692	1495	1317	-5.0	0.4	0	-4.3	-14.1	-29.8	-52.8
SI	308 Win	150 gr. GMX	80948	9.72 g	.415	872	834	798	763	728	694	662	3694	3383	3095	2826	2577	2344	2128	-5.0	-0.7	0	-3.2	-10.8	-22.9	-40.7
SF	308 Win	150 gr. InterBond	80938	9.72 g	.415	914	879	845	812	779	747	716	4063	3757	3470	3201	2950	2714	2493	-5.0	-0.9	0	-2.6	-9.0	-19.5	-34.7
C	308 Win	150 gr. InterLock BTSP	8091	9.72 g	.349	860	819	781	743	706	670	636	3592	3263	2961	2682	2423	2184	1963	-5.0	-0.6	0	-3.5	-11.5	-24.5	-43.5
C	308 Win	150 gr. SST	8093	9.72 g	.415	860	826	793	761	729	699	669	3592	3314	3055	2813	2585	2372	2173	-5.0	-0.7	0	-3.3	-11.0	-23.2	-40.9
SF	308 Win	150 gr. SST	80933	9.72 g	.415	914	879	845	812	779	747	716	4063	3757	3470	3201	2950	2714	2493	-5.0	-0.9	0	-2.6	-9.0	-19.5	-34.7
M	308 Win	155 gr. OTM	8087N	10.04 g	.405	846	812	778	746	714	683	652	3593	3308	3041	2792	2559	2341	2138	-5.0	-0.6	0	-3.5	-11.6	-24.5	-43.1
M	308 Win	155 gr. A-MAX	8095PM	10.04 g	.435	869	836	805	774	743	714	685	3790	3512	3251	3006	2775	2559	2356	-5.0	-0.7	0	-3.1	-10.5	-22.3	-39.2
SI	308 Win	165 gr. GMX	80992	10.69 g	.447	823	78																			

Rifle Ballistics (continued)

Ammo Description					Velocity (m/sec)								Energy (joules)						Trajectory Tables (cm)							
CARTRIDGE	BULLET	ITEM #	WEIGHT	B.C.	MUZ	50 m	100 m	150 m	200 m	250 m	300 m	MUZ	50 m	100 m	150 m	200 m	250 m	300 m	MUZ	50 m	100 m	150 m	200 m	250 m	300 m	
SI	30-06 Springfield	165 gr. GMX	81168	10.69 g	.447	872	837	803	770	738	707	676	4065	3747	3451	3173	2913	2670	2443	-5.0	-0.7	0	-3.1	-10.5	-22.4	-39.6
SF	30-06 Springfield	165 gr. InterBond	81158	10.69 g	.447	902	870	838	807	777	748	719	4352	4045	3756	3485	3229	2989	2762	-5.0	-0.8	0	-2.7	-9.3	-19.9	-35.2
C	30-06 Springfield	165 gr. InterLock BTSP	8115	10.69 g	.435	853	821	790	759	729	700	672	3894	3606	3337	3083	2845	2621	2411	-5.0	-0.6	0	-3.3	-11.1	-23.3	-41.1
SF	30-06 Springfield	165 gr. SST	81153	10.69 g	.447	902	870	838	807	777	748	719	4352	4045	3756	3485	3229	2989	2762	-5.0	-0.8	0	-2.7	-9.3	-19.9	-35.2
M	30-06 Springfield	168 gr. A-MAX (M1 Garand)	81170	10.89 g	.475	826	797	769	741	714	688	662	3714	3459	3219	2992	2777	2575	2384	-5.0	-0.5	0	-3.7	-11.9	-24.9	-43.6
C	30-06 Springfield	180 gr. InterLock SP	8118	11.66 g	.425	823	791	759	729	699	670	641	3951	3647	3364	3098	2849	2615	2397	-5.0	-0.5	0	-3.8	-12.4	-25.9	-45.5
SF	30-06 Springfield	180 gr. InterBond	81188	11.66 g	.480	860	830	802	774	746	719	693	4309	4020	3748	3491	3248	3018	2801	-5.0	-0.7	0	-3.2	-10.6	-22.3	-39.2
SF	30-06 Springfield	180 gr. SST	81183	11.66 g	.480	860	830	802	774	746	719	693	4309	4020	3748	3491	3248	3018	2801	-5.0	-0.7	0	-3.2	-10.6	-22.3	-39.2
C	300 H&H Mag	180 gr. InterBond	82210	11.66 g	.480	875	845	816	788	760	733	706	4463	4166	3886	3621	3371	3134	2911	-5.0	-0.7	0	-2.9	-10.0	-21.2	-37.4
SF	300 RCM	150 gr. SST	82231	9.72 g	.415	1009	971	934	899	864	830	797	4947	4582	4242	3925	3627	3349	3088	-5.0	-1.2	0	-1.7	-6.5	-14.6	-26.5
SF	300 RCM	165 gr. SST	82232	10.69 g	.447	971	937	903	871	839	809	778	5038	4690	4363	4056	3767	3495	3239	-5.0	-1.1	0	-2.0	-7.3	-16.0	-28.8
SF	300 RCM	165 gr. InterBond	82227	10.69 g	.447	971	937	903	871	839	809	778	5038	4690	4363	4056	3767	3495	3239	-5.0	-1.1	0	-2.0	-7.3	-16.0	-28.8
SF	300 RCM	165 gr. GMX	82229	10.69 g	.447	954	920	887	855	824	794	764	4866	4528	4211	3913	3632	3368	3119	-5.0	-1.0	0	-2.1	-7.7	-16.9	-30.2
SF	300 RCM	180 gr. InterBond	82228	11.66 g	.480	927	896	866	836	808	780	752	5008	4680	4372	4081	3805	3545	3299	-5.0	-0.9	0	-2.3	-8.3	-18.0	-32.0
SF	300 RCM	180 gr. SST	82235	11.66 g	.480	927	896	866	836	808	780	752	5008	4680	4372	4081	3805	3545	3299	-5.0	-0.9	0	-2.3	-8.3	-18.0	-32.0
SI	300 Win Mag	150 gr. GMX	82013	9.72 g	.415	1036	997	960	923	888	854	820	5221	4834	4478	4145	3833	3542	3268	-5.0	-1.2	0	-1.5	-5.9	-13.4	-24.6
CL	300 Win Mag	150 gr. SST	82017	9.72 g	.415	853	820	787	755	724	693	663	3540	3266	3011	2771	2546	2336	2139	-5.0	-0.6	0	-3.3	-11.2	-23.6	-41.6
C	300 Win Mag	150 gr. InterLock BTSP	8201	9.72 g	.349	998	954	911	869	829	790	752	4843	4420	4031	3671	3339	3031	2746	-5.0	-1.1	0	-1.9	-7.1	-15.9	-29.0
SI	300 Win Mag	165 gr. GMX	82038	10.69 g	.447	994	959	925	892	860	829	798	5280	4918	4578	4258	3957	3674	3407	-5.0	-1.1	0	-1.8	-6.7	-14.9	-27.0
SF	300 Win Mag	165 gr. InterBond	82028	10.69 g	.447	994	959	925	892	860	829	798	5278	4915	4575	4258	3954	3671	3405	-5.0	-1.1	0	-1.8	-6.7	-14.9	-27.0
C	300 Win Mag	165 gr. InterLock BTSP	8202	10.69 g	.435	945	910	877	844	813	781	751	4774	4432	4112	3812	3530	3265	3016	-5.0	-1.0	0	-2.3	-8.1	-17.5	-31.3
M	300 Win Mag	178 gr. A-MAX	8203	11.53 g	.495	902	873	844	816	789	762	736	4695	4394	4111	3843	3589	3348	3120	-5.0	-0.9	0	-2.6	-9.1	-19.4	-34.2
SF	300 Win Mag	180 gr. InterBond	82198	11.66 g	.480	954	923	892	862	833	804	776	5308	4964	4640	4334	4045	3771	3513	-5.0	-1.0	0	-2.1	-7.5	-16.5	-29.6
C	300 Win Mag	180 gr. InterLock SP	8200	11.66 g	.425	902	868	835	803	771	740	710	4748	4395	4066	3757	3467	3195	2940	-5.0	-0.8	0	-2.7	-9.4	-20.1	-35.7
SF	300 Win Mag	180 gr. SST	82193	11.66 g	.480	954	923	892	862	833	804	776	5308	4964	4640	4334	4045	3771	3513	-5.0	-1.0	0	-2.1	-7.5	-16.5	-29.6
M	300 Win Mag	195 gr. BTHP	8218	12.64 g	.550	893	867	841	816	791	767	743	5040	4748	4471	4207	3956	3717	3489	-5.0	-0.8	0	-2.7	-9.1	-19.4	-34.2
C	300 Wby Mag	150 gr. InterBond	82219	9.72 g	.415	1029	990	953	917	882	847	814	5144	4765	4414	4085	3777	3489	3219	-5.0	-1.2	0	-1.5	-6.1	-13.7	-25.1
C	300 Wby Mag	165 gr. GMX	82220	10.69 g	.447	957	923	890	858	827	796	766	4897	4557	4238	3939	3657	3391	3141	-5.0	-1.0	0	-2.1	-7.6	-16.7	-30.0
C	300 Wby Mag	180 gr. InterLock SP	8222	11.66 g	.425	951	916	881	848	815	783	752	5274	4889	4529	4192	3875	3578	3299	-5.0	-1.0	0	-2.2	-7.9	-17.2	-30.9
C	7.62x39mm	123 gr. SST (Steel Case) (20" Bbl)	8078	7.97 g	.260	719	671	625	580	538	498	460	2062	1794	1555	1341	1153	988	845	-5.0	0.3	0	-6.8	-21.2	-44.3	-78.5
C	303 British	150 gr. InterLock SP	8225	9.72 g	.361	818	781	744	709	674	640	608	3255	2963	2692	2440	2208	1993	1794	-5.0	-0.4	0	-4.0	-13.2	-27.7	-48.7
LE	32 Win Special	165 gr. FTX	82732	10.69 g	.310	735	693	654	615	578	543	509	2885	2570	2284	2023	1787	1574	1383	-5.0	0.1	0	-5.9	-18.7	-38.9	-68.3
SI	8x57 JS (IS)	180 gr. GMX	82297	11.66 g	.420	823	790	759	728	697	668	639	3951	3644	3358	3089	2837	2602	2382	-5.0	-0.5	0	-3.8	-12.4	-26.0	-45.6
SI	8x57 JRS (IRS)	180 gr. GMX	82296	11.66 g	.420	747	716	686	657	628	601	573	3255	2992	2747	2517	2303	2103	1918	-5.0	-0.1	0	-5.2	-16.3	-33.6	-58.3
LE	338 Marlin Express	200 gr. FTX	82240	12.96 g	.430	782	751	721	691	663	635	607	3962	3655	3368	3098	2846	2610	2390	-5.0	-0.3	0	-4.5	-14.3	-29.7	-51.7
SF	338 RCM	185 gr. GMX	82238	11.99 g	.420	908	874	840	807	775	744	713	4946	4575	4229	3905	3601	3316	3048	-5.0	-0.8	0	-2.6	-9.2	-19.8	-35.2
SF	338 RCM	200 gr. SST	82237	12.96 g	.455	899	867	836	806	776	748	719	5240	4875	4533	4211	3908	3621	3351	-5.0	-0.8	0	-2.7	-9.3	-20.0	-35.3
SF	338 RCM	225 gr. InterBond	82138	14.58 g	.515	838	811	785	759	734	709	685	5122	4799	4493	4202	3927	3665	3418	-5.0	-0.6	0	-3.4	-11.2	-23.5	-41.1
SF	338 RCM	225 gr. SST	82236	14.58 g	.515	838	811	785	759	734	709	685	5122	4799	4493	4202	3927	3665	3418	-5.0	-0.6	0	-3.4	-11.2	-23.5	-41.1
SF	338 Win Mag	185 gr. GMX	82226	11.99 g	.420	939	903	869	835	803	771	739	5284	4891	4525	4183	3861	3560	3277	-5.0	-1.0	0	-2.3	-8.3	-18.0	-32.2
SF	338 Win Mag	200 gr. SST	82223	12.96 g	.455	924	891	860	829	799	769	740	5528	5146	4789	4452	4134	3835	3553	-5.0	-0.9	0	-2.4	-8.6	-18.5	-32.9
SF	338 Win Mag	225 gr. InterBond	82338	14.58 g	.515	866	838	811	785	759	734	709	5463	5122	4800	4494	4203	3927	3666	-5.0	-0.7	0	-3.0	-10.2	-21.5	-37.7
SF	338 Win Mag	225 gr. SST	82233	14.58 g	.515	866	838	811	785	759	734	709	5463	5122	4800	4494	4203	3927	3666	-5.0	-0.7	0	-3.0	-10.2	-21.5	-37.7
M	338 Lapua Mag	250 gr. BTHP	8230	16.20 g	.670	884	862	841	821	800	780	760	6329	6026	5736	5457	5189	4932	4685	-5.0	-0.8	0	-2.7	-9.1	-19.2	-33.7
C	338 Lapua Mag	250 gr. SP-RP	82307	16.20 g	.431	884	851	818	787	756	726	697	6329	5863	5427	5017	4632	4270	3930	-5.0	-0.8	0	-2.9	-10.0	-21.2	-37.6

Rifle Ballistics (continued)

Ammo Description					Velocity (m/sec)								Energy (joules)								Trajectory Tables (cm)							
CARTRIDGE	BULLET	ITEM #	WEIGHT	B. C.	MUZ	50 m	100 m	150 m	200 m	250 m	300 m	MUZ	50 m	100 m	150 m	200 m	250 m	300 m	MUZ	50 m	100 m	150 m	200 m	250 m	300 m			
DG	416 Rem Mag		400 gr. DGX		82673	25.92 g	.319	732	692	653	616	580	545	512	6936	6199	5526	4912	4354	3849	3395	-5.0	0.1	0	-6.0	-18.8	-38.9	-68.2
DG	416 Rem Mag		400 gr. DGS		82674	25.92 g	.319	732	692	653	616	580	545	512	6936	6199	5526	4912	4354	3849	3395	-5.0	0.1	0	-6.0	-18.8	-38.9	-68.2
DG	416 Ruger		400 gr. DGX		82665	25.92 g	.319	732	692	653	616	580	545	512	6936	6199	5526	4912	4354	3849	3395	-5.0	0.1	0	-6.0	-18.8	-38.9	-68.2
DG	416 Ruger		400 gr. DGS		82666	25.92 g	.319	732	692	653	616	580	545	512	6936	6199	5526	4912	4354	3849	3395	-5.0	0.1	0	-6.0	-18.8	-38.9	-68.2
DG	416 Rigby		400 gr. DGX		82663	25.92 g	.319	736	696	657	620	584	549	515	7023	6279	5599	4979	4414	3903	3444	-5.0	0.1	0	-5.9	-18.5	-38.2	-67.1
DG	416 Rigby		400 gr. DGS		8265	25.92 g	.319	736	696	657	620	584	549	515	7023	6279	5599	4979	4414	3903	3444	-5.0	0.1	0	-5.9	-18.5	-38.2	-67.1
DG	404 Jeffery		400 gr. DGX		8238	25.92 g	.325	701	663	626	590	556	523	491	6370	5693	5075	4512	4000	3539	3127	-5.0	0.4	0	-6.7	-20.9	-43.0	-75.0
DG	404 Jeffery		400 gr. DGS		8239	25.92 g	.325	701	663	626	590	556	523	491	6370	5693	5075	4512	4000	3539	3127	-5.0	0.4	0	-6.7	-20.9	-43.0	-75.0
LE	444 Marlin		265 gr. FTX		82744	17.17 g	.225	709	653	601	551	504	461	421	4313	3666	3099	2606	2181	1822	1522	-5.0	0.5	0	-7.5	-23.6	-49.6	-88.8
SF	444 Marlin		265 gr. InterLock FP		82453	17.17 g	.189	732	665	602	543	488	438	395	4595	3795	3110	2529	2045	1650	1338	-5.0	0.4	0	-7.4	-23.8	-51.0	-92.8
LE	45-70 Govt		250 gr. MonoFlex		82741	16.20 g	.175	617	552	492	439	392	354	326	3086	2470	1965	1558	1243	1014	859	-5.0	1.7	0	-12.2	-38.3	-81.0	-145.7
LE	45-70 Govt		325 gr. FTX		82747	21.06 g	.230	610	560	514	470	431	395	365	3913	3304	2778	2330	1954	1646	1403	-5.0	1.5	0	-11.1	-34.1	-70.5	-124.7
LE	450 Marlin		325 gr. FTX		82750	21.06 g	.230	678	625	575	528	484	443	406	4843	4119	3485	2934	2463	2064	1735	-5.0	0.7	0	-8.4	-26.2	-54.7	-97.4
DG	450/400 Nitro Express 3"		400 gr. DGX		82433	25.92 g	.325	625	589	555	522	490	461	433	5060	4497	3987	3527	3116	2750	2428	-5.0	1.1	0	-9.3	-28.0	-57.0	-98.7
DG	450/400 Nitro Express 3"		400 gr. DGS		8242	25.92 g	.325	625	589	555	522	490	461	433	5060	4497	3987	3527	3116	2750	2428	-5.0	1.1	0	-9.3	-28.0	-57.0	-98.7
DG	450 Nitro Express 3/4"		480 gr. DGX		8255	31.10 g	.285	655	613	573	535	498	464	432	6680	5852	5110	4449	3864	3352	2908	-5.0	0.8	0	-8.5	-26.1	-53.6	-93.8
DG	450 Nitro Express 3/4"		480 gr. DGS		8256	31.10 g	.285	655	613	573	535	498	464	432	6680	5852	5110	4449	3864	3352	2908	-5.0	0.8	0	-8.5	-26.1	-53.6	-93.8
C	450 Bushmaster		250 gr. FTX (20" Bbl)		82244	16.20 g	.210	671	613	559	509	462	419	382	3643	3047	2533	2095	1727	1425	1185	-5.0	0.9	0	-9.0	-28.2	-59.2	-106.1
DG	458 Win Mag		500 gr. DGX		85833	32.40 g	.295	652	612	573	536	501	467	436	6893	6065	5321	4654	4062	3541	3086	-5.0	0.9	0	-8.5	-26.0	-53.3	-93.2
DG	458 Win Mag		500 gr. DGS		8585	32.40 g	.295	652	612	573	536	501	467	436	6893	6065	5321	4654	4062	3541	3086	-5.0	0.9	0	-8.5	-26.0	-53.3	-93.2
DG	458 Lott		500 gr. DGX		82613	32.40 g	.295	701	659	618	579	542	506	473	7963	7034	6195	5437	4758	4154	3622	-5.0	0.4	0	-6.9	-21.6	-44.6	-78.4
DG	458 Lott		500 gr. DGS		8262	32.40 g	.295	701	659	618	579	542	506	473	7963	7034	6195	5437	4758	4154	3622	-5.0	0.4	0	-6.9	-21.6	-44.6	-78.4
DG	470 Nitro Express		500 gr. DGX		8263	32.40 g	.290	655	614	575	537	501	467	436	6958	6110	5349	4668	4065	3535	3074	-5.0	0.8	0	-8.4	-25.8	-53.1	-93.0
DG	470 Nitro Express		500 gr. DGS		8264	32.40 g	.290	655	614	575	537	501	467	436	6958	6110	5349	4668	4065	3535	3074	-5.0	0.8	0	-8.4	-25.8	-53.1	-93.0
DG	500 Nitro Express		570 gr. DGX		8268	36.94 g	.295	655	615	576	539	503	470	439	7932	6981	6125	5359	4678	4078	3554	-5.0	0.8	0	-8.4	-25.7	-52.8	-92.2
DG	500 Nitro Express		570 gr. DGS		8269	36.94 g	.295	655	615	576	539	503	470	439	7932	6981	6125	5359	4678	4078	3554	-5.0	0.8	0	-8.4	-25.7	-52.8	-92.2
M	50BMG		750 gr. A-MAX (36" Bbl)		8270	48.60 g	1.050	858	845	831	818	805	792	779	17891	17334	16794	16266	15753	15252	14764	-5.0	-0.7	0	-2.8	-9.3	-19.5	-33.9

LEGEND

BT..... Boattail
 DGS..... Dangerous Game Solid
 DGX..... Dangerous Game Expanding
 FMJ..... Full Metal Jacket
 FP..... Flat Point

FPB..... Flex Tip® Projectile
 Blackpowder
 FTX..... Flex Tip® eXpanding
 HP..... Hollow Point
 IB..... InterBond® Bullet
 L..... Swaged Lead Bullet

LRN..... Lead Round Nose
 ML..... Muzzleloading
 w/Moly..... Moly-Coated
 RN..... Round Nose
 SIL..... Silhouette
 SJ..... Short Jacket

SP..... Spire Point
 SP-RP..... Spire Point Recoil Proof
 SST..... Super Shock Tipped
 V..... Vented
 XTP..... Extreme Terminal
 Performance™



Handgun Ballistics

Ammo Description							Velocity (m/sec)			Energy (joules)		
CARTRIDGE	BULLET	ITEM #	WEIGHT	B.C.	BARREL LENGTH	MUZZLE	50 m	100 m	MUZZLE	50 m	100 m	
C	25 Auto	35 gr.XTP	90012	2.27g	.072	2"	274	248	226	85	70	58
C	32 Auto	60 gr.XTP	90062	3.89g	.090	4"	305	276	254	180	148	125
C	380 Auto	90 gr.XTP	90102	5.83g	.099	4"	305	278	258	271	225	193
C	9mm Luger	115 gr.XTP	90252	7.45g	.129	4"	352	316	292	462	373	318
C	9mm Luger	124 gr.XTP	90242	8.04g	.165	4"	338	313	294	460	394	348
DUTY	9mm Luger	135 gr.FlexLock	90236	8.75g	.195	4"	308	293	280	415	374	343
DUTY	9mm Luger+P	135 gr.FlexLock	90226	8.75g	.195	4"	338	316	300	500	438	392
C	9mm Luger	147 gr.XTP	90282	9.53g	.212	4"	297	285	274	420	386	357
C	357 Sig	147 gr.XTP	9131	9.53g	.212	4"	373	345	323	664	567	497
DUTY	357 Sig	135 gr.FlexLock	91296	8.75g	.170	4"	373	339	314	610	503	432
C	38 Special	125 gr.XTP	90322	8.10g	.151	4"V	274	261	249	305	276	251
C	38 Special	158 gr.XTP	90362	10.24g	.206	4"V	244	236	229	305	285	268
C	357 Magnum	125 gr.XTP	90502	8.10g	.151	8"V	457	400	355	846	649	511
C	357 Magnum	140 gr.XTP	90552	9.07g	.169	8"V	411	368	335	769	614	509
LE	357 Magnum	140 gr.FTX	92755	9.07g	.169	8"V	439	390	352	875	691	561
C	357 Magnum	158 gr.XTP	90562	10.24g	.206	8"V	381	350	327	743	628	546
C	9x18mm Makarov	95 gr.XTP	91002	6.16g	.127	4"	305	283	266	286	247	218
C	40 S&W	155 gr.XTP	9132	10.04g	.137	4"	360	323	298	649	524	447
DUTY	40 S&W	175 gr.FlexLock	91376	11.34g	.155	4"	308	289	274	537	474	425
C	40 S&W	180 gr.XTP	9136	11.66g	.164	4"	290	275	263	489	441	402
C	10mm Auto	155 gr.XTP	9122	10.04g	.137	5"	386	341	310	747	583	484
C	10mm Auto	180 gr.XTP	9126	11.66g	.164	5"	360	328	306	754	628	544
C	44-40 Cowboy	205 gr.Cowboy	9075	13.28g	.123	7½"V	221	210	200	324	293	265
C	44 Special	180 gr.XTP	9070	11.66g	.138	7½"V	305	285	269	542	473	421
C	44 Rem Mag	200 gr.XTP	9080	12.96g	.170	7½"V	457	406	364	1354	1069	859
LE	44 Rem Mag	225 gr.FTX	92782	14.58g	.145	7½"V	430	376	336	1346	1030	823
C	44 Rem Mag	240 gr.XTP	9085	15.55g	.205	7½"V	411	375	345	1316	1093	928
C	44 Rem Mag	300 gr.XTP	9088	19.44g	.245	7½"V	351	330	314	1194	1059	958
C	45 Auto	185 gr.XTP	9090	11.99g	.139	5"	296	278	263	523	462	414
C	45 Auto	200 gr.XTP	9112	12.96g	.151	5"	274	261	249	488	441	402
DUTY	45 Auto+P	220 gr.FlexLock	90926	14.26g	.180	5"	297	283	270	629	570	521
C	45 Auto+P	200 gr.XTP	9113	12.96g	.151	5"	322	299	282	670	579	514
C	45 Auto+P	230 gr.XTP	9096	14.90g	.188	5"	290	277	266	625	571	526
C	45 Auto	230 gr.FMJ-RN	9097	14.90g	.188	5"	259	250	241	500	464	432
C	45 Colt	255 gr.Cowboy	9115	16.52g	.117	4¾"V	221	209	199	404	362	326
LE	45 Colt	225 gr.FTX	92792	14.58g	.140	4¾"V	293	275	261	624	552	496
C	454 Casull	240 gr.XTP Mag	9148	15.55g	.160	7½"V	579	511	451	2609	2034	1579
C	454 Casull	300 gr.XTP Mag	9150	19.44g	.180	7½"V	503	449	402	2458	1961	1571
C	460 S&W	200 gr.FTX	9152	12.96g	.151	8 3/8"	671	592	519	2914	2269	1747
C	475 Linebaugh	400 gr.XTP Mag	9140	25.92g	.182	7½"	396	359	330	2035	1666	1412
C	480 Ruger	325 gr.XTP Mag	9138	21.06g	.150	7½"	411	363	328	1783	1389	1134
C	50AE	300 gr.XTP	9245	19.44g	.120	6"	450	381	333	1965	1414	1078
C	500 S&W	300 gr.FTX	9249	19.44g	.120	8½"	594	504	425	3434	2466	1760
C	500 S&W	500 gr.FP-XTP	9252	32.40g	.185	8½"	396	359	331	2544	2089	1773