

# Handgun Ballistics

## Hornady® Product Lines

C Custom™
 LE LEVERevolution®
 T TAP® FPD™
 S Steel Match
 CD Critical Defense®
 CD Critical DUTY™

Ammo Description				Velocity (fps)			Energy (ft/lb)		
CARTRIDGE	BULLET	ITEM #	BARREL LENGTH	MUZZLE	50 yds	100 yds	MUZZLE	50 yds	100 yds
<span>CD</span> 22 WMR	45 gr. FTX	83200	1 7/8 V"	1000	926	868	100	86	75
<span>C</span> 25 Auto	35 gr. XTP	90012	2"	900	813	742	63	51	43
<span>C</span> 32 Auto	60 gr. XTP	90062	4"	1000	906	834	133	112	96
<span>C</span> 380 Auto	90 gr. XTP	90102	4"	1000	913	846	200	167	143
<span>CD</span> 380 Auto	90 gr. FTX	90080	4"	1000	913	846	200	167	143
<span>C</span> 9MM Luger	115 gr. XTP	90252	4"	1155	1047	971	341	280	241
<span>CD</span> 9MM Luger	115 gr. FTX	90250	4"	1135	1026	950	329	269	231
<span>C</span> 9MM Luger	124 gr. XTP	90242	4"	1110	1030	971	339	292	259
<span>T</span> 9MM Luger	124 gr. TAP-FPD	90248	4"	1110	1030	971	339	292	259
<span>S</span> 9MM Luger	125 gr. HAP	90275	4"	1110	1030	971	339	292	259
<span>CD</span> 9MM Luger	135 gr. FlexLock	90236	4"	1010	961	919	306	277	253
<span>CD</span> 9MM Luger +P	135 gr. FlexLock	90226	4"	1110	1039	984	369	324	290
<span>C</span> 9MM Luger	147 gr. XTP	90282	4"	975	935	899	310	285	264
<span>C</span> 9 x 18MM Makarov	95 gr. XTP	91002	4"	1000	930	874	211	182	161
<span>CD</span> 9 x 18MM Makarov	95 gr. FTX	91000	4"	1000	934	880	211	184	163
<span>CD</span> 38 Special	110 gr. FTX	90310	4" V	1010	940	883	249	216	191
<span>CD</span> 38 Special+P	110 gr. FTX	90311	4" V	1090	997	930	290	243	211
<span>C</span> 38 Special	125 gr. XTP	90322	4" V	900	856	817	225	203	185
<span>C</span> 38 Special	158 gr. XTP	90362	4" V	800	765	735	199	183	168
<span>CD</span> 357 Magnum	125 gr. FTX	90500	8" V	1500	1301	1153	624	470	298
<span>C</span> 357 Magnum	125 gr. XTP	90502	8" V	1500	1314	1166	624	479	377
<span>C</span> 357 Magnum	140 gr. XTP	90552	8" V	1350	1208	1100	566	454	376
<span>LE</span> 357 Magnum	140 gr. FTX	92755	8" V	1440	1274	1143	644	504	406
<span>C</span> 357 Magnum	158 gr. XTP	90562	8" V	1250	1150	1073	548	464	404
<span>C</span> 357 SIG	124 gr. XTP	9130	4"	1350	1208	1108	502	405	338
<span>C</span> 357 SIG	147 gr. XTP	9131	4"	1225	1138	1072	490	422	375
<span>C</span> 40 S&W	155 gr. XTP	9132	4"	1180	1061	980	479	388	331
<span>T</span> 40 S&W	155 gr. TAP-FPD	91328	4"	1180	1061	980	479	387	331
<span>CD</span> 40 S&W	165 gr. FTX	91340	3"	1045	972	915	400	346	307
<span>CD</span> 40 S&W	175 gr. FlexLock	91376	4"	1010	951	903	396	351	316
<span>S</span> 40 S&W	180 gr. HAP	91362	4"	950	903	862	361	326	297
<span>C</span> 40 S&W	180 gr. XTP	9136	4"	950	903	862	361	326	297
<span>C</span> 10MM Auto	155 gr. XTP	9122	5"	1265	1119	1020	551	431	358
<span>C</span> 10MM Auto	180 gr. XTP	9126	5"	1180	1077	1004	556	464	403
<span>C</span> 10MM Auto	200 gr. XTP	9129	5"	1050	994	948	490	439	399
<span>C</span> 44-40 Cowboy	205 gr. Cowboy	9075	7½" V	725	689	655	239	216	195
<span>CD</span> 44 Special	165 gr. FTX	90700	2.5" V	900	848	802	297	263	235
<span>C</span> 44 Special	180 gr. XTP	9070	7½" V	1000	935	882	400	349	311
<span>C</span> 44 Rem Mag	180 gr. XTP	9081	7½" V	1550	1340	1173	960	717	550
<span>C</span> 44 Rem Mag	200 gr. XTP	9080	7½" V	1500	1333	1196	999	789	635
<span>LE</span> 44 Rem Mag	225 gr. FTX	92782	7½" V	1410	1240	1111	993	768	617
<span>C</span> 44 Rem Mag	240 gr. XTP	9085	7½" V	1350	1231	1134	971	807	685
<span>C</span> 44 Rem Mag	300 gr. XTP	9088	7½" V	1150	1084	1031	881	782	708
<span>C</span> 45 Auto	185 gr. XTP	9090	5"	970	910	860	386	340	304
<span>CD</span> 45 Auto	185 gr. FTX	90900	3"	900	853	778	333	299	254
<span>C</span> 45 Auto	200 gr. XTP	9112	5"	900	856	817	360	325	296
<span>T</span> 45 Auto+P	200 gr. TAP-FPD	91128	5"	1055	982	926	494	428	380
<span>C</span> 45 Auto+P	200 gr. XTP	9113	5"	1055	982	926	494	428	380
<span>C</span> 45 Auto+P	230 gr. XTP	9096	5"	950	908	872	461	421	385
<span>C</span> 45 Auto	230 gr. FMJ RN ENC	9097	5"	850	818	788	369	342	317
<span>T</span> 45 Auto+P	230 gr. TAP-FPD	90958	5"	950	908	872	461	421	388
<span>S</span> 45 ACP	230 gr. HAP	90985	5"	850	818	788	369	342	317
<span>CD</span> 45 Colt	185 gr. FTX	92790	3" V	920	870	826	348	311	280
<span>C</span> 45 Colt	255 gr. Cowboy	9115	4¾" V	725	687	651	298	267	240
<span>LE</span> 45 Colt	225 gr. FTX	92792	4¾" V	960	895	841	460	400	354
<span>C</span> 454 Casull	240 gr. XTP MAG	9148	7½" V	1900	1678	1478	1923	1500	1163
<span>C</span> 454 Casull	300 gr. XTP MAG	9150	7½" V	1650	1490	1348	1813	1480	1210
<span>C</span> 460 S&W	200 gr. FTX	9152	8¾"	2200	1948	1715	2149	1685	1305
<span>C</span> 475 Linebaugh	400 gr. XTP MAG	9140	7½"	1300	1177	1084	1501	1231	1043
<span>C</span> 480 Ruger	325 gr. XTP MAG	9138	7½"	1350	1193	1078	1315	1026	839
<span>C</span> 480 Ruger	400 gr. XTP MAG	9144	7½"	1100	1027	971	1075	937	838
<span>C</span> 50 AE	300 gr. XTP	9245	6"	1475	1253	1095	1449	1046	799
<span>C</span> 500 S&W	300 gr. FTX	9249	8½"	1950	1767	1598	2533	2080	1700
<span>C</span> 500 S&W	350 gr. XTP MAG	9250	8½"	1700	1478	1289	2246	1697	1291
<span>C</span> 500 S&W	500 gr. FP-XTP	9252	8½"	1300	1179	1087	1876	1543	1310



# Rifle Ballistics

## Hornady® Product Lines



Custom™



Dangerous Game™ Series



LEVERevolution®



Superformance®



TAP® FPD™



Varmint Express®



Critical Defense®



Match



Steel Match



Superformance® Match



Vintage Match



Superformance® Varmint

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

Ammo Description			Velocity (fps) / Energy (ft/lb)							Trajectory Tables					
Cartridge	Bullet	Item #	Muzzle	100 yds	200 yds	300 yds	400 yds	500 yds	Muzzle	100 yds	200 yds	300 yds	400 yds	500 yds	
V	17 Mach 2	15.5 gr. NTX	83176	2050/149	1450/75	1071/41	—	—	—	-1.5	0	-15.6	—	—	
V	17 Mach 2	17 gr. V-MAX	83177	2100/166	1530/88	1134/49	—	—	—	-1.5	0	-14.0	—	—	
V	17 HMR	15.5 gr. NTX	83171	2525/236	1829/119	1291/59	—	—	—	-1.5	0	-10.0	—	—	
V	17 HMR	17 gr. V-MAX	83170	2550/245	1901/136	1378/72	—	—	—	-1.5	0	-8.5	—	—	
V	17 HMR	20 gr. XTP	83172	2375/250	1776/140	1304/75	—	—	—	-1.5	0	-9.9	—	—	
SV	17 Hornet	20 gr. V-MAX	83005	3650/592	3078/421	2574/294	2122/200	1721/131	1383/85	-1.5	1.1	0	-6.4	-20.6	
V	204 Ruger	24 gr. NTX (26" Bbl)	83209	4400/1032	3649/709	3012/484	2459/322	1969/207	1547/127	-1.5	0.6	0	-4.4	-14.6	
V	204 Ruger	32 gr. V-MAX (26" Bbl)	83204	4225/1268	3645/944	3137/699	2683/512	2272/367	1899/256	-1.5	0.6	0	-4.1	-13.1	
V	204 Ruger	40 gr. V-MAX (26" Bbl)	83206	3900/1351	3482/1077	3103/855	2755/674	2433/526	2133/404	-1.5	0.7	0	-4.3	-13.2	
V	204 Ruger	45 gr. SP (26" Bbl)	83208	3625/1313	3188/1015	2792/778	2428/589	2093/438	1787/319	-1.5	1.0	0	-5.5	-16.9	
C	5.45 x 39MM	60 gr. V-MAX (16" Bbl)	8124	2810/1052	2495/829	2201/645	1927/445	1677/374	1454/282	-1.8	1.9	0	-9.2	-27.7	
V	22 WMR	30 gr. V-MAX	83202	2200/322	1421/134	1002/67	—	—	—	-1.5	0	-16.5	—	—	
V	22 Hornet	35 gr. V-MAX	8302	3070/732	2246/392	1571/192	1116/97	919/66	803/50	-1.5	2.9	0	-17.6	-62.9	
SV	222 Rem	35 gr. NTX	8309	3760/1099	3125/759	2574/515	2085/338	1656/213	1308/133	-1.5	1.0	0	-6.3	-20.8	
V	222 Rem	40 gr. V-MAX	8310	3600/1151	3074/839	2606/603	2184/424	1803/289	1474/193	-1.5	1.1	0	-6.2	-19.9	
SV	222 Rem	50 gr. V-MAX	8316	3345/1242	2930/953	2551/722	2203/539	1883/393	1595/283	-1.5	1.3	0	-6.7	-20.6	
SV	223 Rem	35 gr. NTX	83266	4000/1243	3410/904	2894/651	2433/460	2017/316	1648/211	-1.5	0.7	0	-4.9	-15.7	
V	223 Rem	40 gr. V-MAX	8325	3800/1282	3249/937	2762/677	2324/479	1928/330	1578/221	-1.5	0.9	0	-5.5	-17.6	
SV	223 Rem	53 gr. V-MAX	8025	3465/1413	3106/1135	2775/906	2468/716	2180/559	1913/431	-1.5	1.1	0	-5.6	-16.9	
SF	223 Rem	55 gr. GMX	83274	3275/834	2872/641	2503/487	2163/364	1851/266	1571/192	-1.5	1.4	0	-6.9	-21.4	
V	223 Rem	55 gr. V-MAX	8327	3240/1282	2854/995	2500/763	2172/576	1871/427	1598/312	-1.5	1.4	0	-7.0	-21.4	
V	223 Rem	55 gr. V-MAX w/Moly	83273	3240/1282	2854/995	2500/763	2172/576	1871/427	1598/312	-1.5	1.4	0	-7.0	-21.4	
T	223 Rem	55 gr. TAP-FPD	83278	3240/1282	2854/995	2500/763	2172/576	1871/427	1598/312	-1.5	1.4	0	-7.0	-21.4	
S	223 Rem	55 gr. HP	80274	3240/1282	2808/963	2415/712	2055/516	1729/365	1446/255	-1.5	1.5	0	-7.5	-23.3	
M	223 Rem	75 gr. BTHP	8026	2790/1296	2561/1092	2344/915	2137/760	1941/627	1757/514	-1.5	1.9	0	-8.3	-24.1	
T	223 Rem	75 gr. TAP-FPD	80268	2790/1296	2561/1092	2344/915	2137/760	1941/627	1757/514	-1.5	1.9	0	-8.3	-24.1	
SM	223 Rem	75 gr. BTHP	80264	2930/1430	2695/1209	2471/1017	2259/850	2057/704	1865/580	-1.5	1.6	0	-7.3	-21.5	
S	223 Rem	75 gr. BTHP Steel	80261	2790/1296	2561/1092	2344/915	2137/760	1941/627	1757/514	-1.5	1.9	0	-8.3	-24.1	
SF	5.56 NATO	55 gr. GMX (20" Bbl)	81254	3130/1196	2739/916	2380/692	2049/513	1747/373	1480/268	-1.5	1.6	0	-7.8	-23.9	
SM	5.56 NATO	75 gr. BTHP (20" Bbl)	81264	2910/1410	2675/1192	2452/1001	2240/836	2039/692	1848/569	-2.4	1.2	0	-7.0	-21.0	
SV	22-250 Rem	35 gr. NTX	8334	4450/1539	3709/1069	3080/737	2532/498	2046/325	1622/205	-1.5	0.5	0	-4.2	-14.0	
V	22-250 Rem	40 gr. V-MAX	8335	4150/1529	3553/1121	3032/816	2568/585	2148/410	1771/278	-1.5	0.6	0	-4.5	-14.2	
V	22-250 Rem	50 gr. V-MAX	8336	3800/1603	3339/1238	2925/949	2546/720	2198/536	1878/392	-1.5	0.8	0	-4.9	-15.2	
SV	22-250 Rem	50 gr. V-MAX	83366	4000/1776	3517/1373	3086/1057	2694/806	2334/605	2003/445	-1.5	0.7	0	-4.3	-13.5	
V	22-250 Rem	50 gr. V-MAX w/Moly	83363	3800/1603	3339/1238	2925/949	2546/720	2198/536	1878/392	-1.5	0.8	0	-4.9	-15.2	
V	22-250 Rem	55 gr. V-MAX	8337	3680/1654	3253/1292	2867/1003	2511/770	2183/582	1880/432	-1.5	0.9	0	-5.2	-15.9	
C	22-250 Rem	60 gr. SP	8039	3530/1660	3131/1306	2767/1020	2431/787	2119/598	1832/447	-1.5	1.0	0	-5.6	-17.1	
V	220 Swift	50 gr. V-MAX w/Moly	83213	3850/1645	3384/1271	2965/976	2583/741	2232/553	1910/405	-1.5	0.8	0	-4.8	-14.8	
V	220 Swift	55 gr. V-MAX	8324	3680/1654	3253/1292	2867/1003	2511/770	2183/582	1880/432	-1.5	0.9	0	-5.2	-15.9	
C	220 Swift	60 gr. HP	8122	3600/1726	3195/1360	2826/1063	2485/823	2169/627	1877/470	-1.5	1.0	0	-5.3	-16.3	
SV	243 Win	58 gr. V-Max	8343	3925/1984	3465/1546	3051/1199	2674/921	2327/697	2007/519	-1.5	0.7	0	-4.5	-13.8	
V	243 Win	58 gr. V-MAX w/Moly	83423	3750/1811	3308/1409	2909/1090	2544/833	2206/627	1896/463	-1.5	0.8	0	-5.0	-15.4	
C	243 Win	75 gr. HP	8040	3340/1857	2996/1494	2677/1193	2380/943	2102/736	1844/566	-1.5	1.2	0	-6.1	-18.3	
SF	243 Win	80 gr. GMX	80456	3425/2083	3080/1684	2760/1353	2463/1077	2184/847	1924/657	-1.5	1.1	0	-5.7	-17.1	
SF	243 Win	95 gr. SST	80463	3185/2139	2908/1784	2648/1478	2402/1217	2169/992	1950/802	-1.5	1.3	0	-6.3	-18.6	
C	243 Win	95 gr. SST	80464	3010/1911	2744/1588	2493/1310	2255/1073	2031/870	1820/699	-1.5	1.0	0	-7.2	-21.2	
C	243 Win	100 gr. BTSP InterLock	8046	2960/1945	2728/1653	2508/1397	2299/1173	2099/978	1910/810	-1.5	1.6	0	-7.1	-20.9	
SF	6MM Rem	95 gr. SST	81663	3235/2207	2955/1841	2692/1528	2443/1259	2209/1029	1987/833	-1.5	1.2	0	-6.1	-18.0	
C	6MM Rem	100 gr. BTSP InterLock	8166	3100/2133	2861/1817	2634/1541	2419/1299	2213/1087	2018/904	-1.5	1.4	0	-6.4	-18.8	
SF	257 Roberts +P	117 gr. SST	81353	2946/2253	2705/1901	2478/1595	2265/1329	2057/1099	1863/902	-1.5	1.6	0	-7.3	-21.4	
C	257 Roberts +P	117 Gr. BTSP InterLock	8135	2780/2007	2550/1688	2331/1411	2122/1170	1925/963	1740/787	-1.5	1.9	0	-8.4	-24.4	
SF	25-06 Rem	90 gr. GMX	81446	3350/2242	3000/1799	2677/1432	2376/1128	2095/877	1834/672	-1.5	1.2	0	-6.1	-18.3	
SF	25-06 Rem	117 gr. SST	81453	3110/2512	2861/2127	2626/1792	2403/1500	2191/1246	1989/1028	-1.5	1.4	0	-6.4	-18.9	
C	25-06 Rem	117 gr. SST	81454	2990/2322	2748/1962	2519/1648	2301/1375	2093/1138	1897/935	-1.5	1.6	0	-7.1	-20.7	



# Rifle Ballistics (continued)

Ammo Description			Velocity (fps) / Energy (ft/lb)							Trajectory Tables					
	CARTRIDGE	BULLET	ITEM #	MUZZLE	100 yds	200 yds	300 yds	400 yds	500 yds	MUZZLE	100 yds	200 yds	300 yds	400 yds	500 yds
C	25-06 Rem	117 gr. BTSP InterLock	8145	2990/2322	2749/1962	2520/1649	2302/1377	2095/1141	1900/938	-1.5	1.6	0	-7.0	-20.7	-42.2
C	257 Wby	90 gr. GMX	8136	3550/2518	3185/2027	2849/1622	2537/1286	2245/1007	1974/778	-1.5	1.0	0	-5.2	-15.9	-33.5
C	257 Wby	110 gr. InterBond	81363	PENDING R&D											
VM	6.5 x 55	140 gr. BTHP	85508	2600/2101	2450/1866	2305/1651	2164/1456	2029/1279	1899/1120	-1.5	2.1	0	-8.7	-24.8	-49.4
SF	6.5 x 55	140 gr. SST	85507	2735/2325	2569/2051	2408/1803	2254/1579	2105/1377	1961/1196	-1.5	1.9	0	-7.9	-22.6	-45.2
M	6.5 Grendel	123 gr. A-MAX	8150	2590/1832	2420/1599	2256/1389	2098/1202	1947/1035	1805/889	-2.4	1.8	0	-8.6	-25.1	-49.8
SF	6.5 Creedmoor	120 gr. GMX	81490	3050/2478	2850/2163	2658/1882	2475/1631	2298/1407	2129/1208	-1.5	1.4	0	-6.3	-18.3	-36.9
M	6.5 Creedmoor	120 gr. A-MAX	81492	2910/2256	2712/1959	2522/1695	2340/1459	2166/1250	1999/1065	-1.5	1.6	0	-7.1	-20.5	-41.4
SF	6.5 Creedmoor	129 gr. SST	81496	2950/2492	2756/2175	2570/1892	2392/1639	2221/1417	2057/1212	-1.5	1.5	0	-6.8	-19.7	-39.5
SF	6.5 Creedmoor	129 gr. InterBond	81497	2950/2492	2756/2175	2570/1892	2392/1639	2221/1417	2057/1212	-1.5	1.5	0	-6.8	-19.7	-39.5
M	6.5 Creedmoor	140 gr. A-MAX	81494	2710/2283	2557/2032	2409/1804	2266/1596	2128/1408	1995/1237	-1.5	1.9	0	-7.9	-22.6	-45.0
V	6.8 SPC	110 gr. V-MAX (16" Bbl)	8346	2570/1613	2338/1335	2118/1095	1910/891	1716/719	1538/577	-2.4	2.4	0	-10.2	-30.0	-61.6
M	6.8 SPC	110 gr. BTHP (16" Bbl)	8146	2570/1613	2332/1328	2106/1083	1893/875	1695/702	1514/560	-2.4	2.5	0	-10.3	-30.4	-62.6
C	6.8 SPC	120 gr. SST (16" Bbl)	8347	2460/1612	2250/1349	2050/1120	1862/923	1685/756	1522/617	-2.4	2.2	0	-10.5	-31.0	-64.0
SF	270 Win	130 gr. InterBond	80548	3200/2955	2984/2570	2788/2228	2582/1924	2393/1653	2213/1414	-1.5	1.2	0	-5.7	-16.7	-33.7
SF	270 Win	130 gr. GMX	8052	3190/2937	2976/2553	2769/2213	2573/1911	2385/1642	2202/1404	-1.5	1.2	0	-5.8	-16.8	-33.9
SF	270 Win	130 gr. SST	80543	3200/2955	2984/2570	2788/2228	2582/1924	2393/1653	2213/1414	-1.5	1.2	0	-5.7	-16.7	-33.7
C	270 Win	130 gr. SST	8054	3060/2702	2851/2345	2651/2028	2460/1746	2277/1496	2101/1275	-1.5	1.4	0	-6.3	-18.5	-37.3
C	270 Win	130 gr. InterLock	8055	3060/2702	2825/2304	2603/1955	2391/1649	2188/1382	1996/1150	-1.5	1.4	0	-6.6	-19.3	-39.2
SF	270 Win	140 gr. SST	80563	3090/2968	2894/2603	2706/2276	2526/1983	2353/1721	2187/1487	-1.5	1.3	0	-6.1	-17.6	-35.4
C	270 Win	140 gr. BTSP InterLock	8056	2940/2687	2747/2345	2562/2040	2384/1767	2214/1523	2050/1307	-1.5	1.6	0	-6.9	-19.8	-39.9
C	270 Win	150 gr. SP InterLock	8058	2840/2686	2642/2324	2452/2002	2270/1716	2095/1462	1929/1239	-1.5	1.7	0	-7.5	-21.8	-44.1
SF	7 x 57 Mauser	139 gr. GMX	81556	2740/2317	2555/2015	2378/1745	2208/1504	2045/1290	1889/1101	-1.5	1.9	0	-8.1	-23.3	-46.8
SF	7 x 57 Mauser	139 gr. SST	81553	2760/2351	2575/2045	2396/1772	2226/1528	2061/1311	1905/1120	-1.5	1.9	0	-7.9	-22.9	-46.1
C	7 x 57 Mauser	139 gr. BTSP InterLock	8155	2680/2216	2455/1860	2241/1550	2038/1282	1846/1052	1667/858	-1.5	2.1	0	-9.1	-26.6	-54.3
SF	7-08 Rem	139 gr. GMX	80576	2910/2613	2718/2280	2534/1982	2358/1716	2189/1478	2026/1267	-1.5	1.6	0	-7.0	-20.3	-40.9
SF	7-08 Rem	139 gr. SST	80573	2950/2686	2757/2345	2571/2040	2393/1768	2222/1524	2059/1308	-1.5	1.5	0	-6.8	-19.7	-39.6
SF	280 Rem	139 gr. GMX	81586	3070/2908	2871/2544	2681/2218	2499/1927	2324/1666	2156/1434	-1.5	1.4	0	-6.2	-18.0	-36.2
SF	280 Rem	139 gr. SST	81583	3090/2946	2890/2578	2699/2249	2516/1954	2341/1691	2172/1456	-1.5	1.3	0	-6.10	-17.0	-35.7
C	7MM Rem Mag	139 gr. BTSP InterLock	8059	3150/3062	2933/2655	2727/2294	2529/1974	2341/1691	2160/1440	-1.5	1.3	0	-6.0	-17.4	-35.1
SF	7MM Rem Mag	139 gr. GMX	80592	3190/3140	2986/2751	2791/2403	2604/2092	2425/1814	2253/1566	-1.5	1.2	0	-5.7	-16.5	-33.2
SF	7MM Rem Mag	139 gr. SST	80593	3240/3239	3033/2839	2836/2482	2648/2163	2467/1877	2293/1622	-1.5	1.1	0	-5.5	-15.9	-32.1
SF	7MM Rem Mag	154 gr. InterBond	80628	3100/3286	2914/2904	2736/2560	2565/2250	2401/1970	2242/1718	-1.5	1.3	0	-5.9	-17.2	-34.5
SF	7MM Rem Mag	154 gr. SST	8061	3100/3286	2914/2904	2736/2560	2565/2250	2401/1970	2242/1718	-1.5	1.3	0	-5.9	-17.2	-34.5
C	7MM Rem Mag	154 gr. SP InterLock	8060	3035/3149	2814/2708	2604/2318	2403/1975	2212/1672	2029/1407	-1.5	1.4	0	-6.6	-19.2	-38.9
C	7MM Rem Mag	154 gr. SST	8062	3035/3149	2852/2781	2677/2449	2508/2150	2345/1880	2189/1638	-1.5	1.4	0	-6.2	-18.0	-36.1
SF	7MM Rem Mag	162 gr. SST	80633	3030/3302	2855/2933	2688/2598	2525/2295	2370/2020	2219/1772	-1.5	1.4	0	-6.2	-17.9	-35.7
C	7MM Rem Mag	162 gr. BTSP InterLock	8063	2940/3109	2757/2734	2582/2397	2413/2094	2251/1822	2094/1577	-1.5	1.5	0	-6.8	-19.5	-39.1
C	7MM Wby Mag	139 gr. GMX	80666	3300/3361	3091/2948	2891/2580	2701/2251	2518/1957	2343/1694	-1.5	1.1	0	-5.2	-15.2	-30.6
C	7MM Wby Mag	154 gr. InterBond	80689	3200/3501	3012/3101	2832/2741	2659/2416	2492/2123	2331/1858	-1.5	1.2	0	-5.5	-15.9	-32.0
S	30 Carbine	110 gr. FMJ (20" Bbl)	8103	2000/977	1600/625	1279/399	1068/279	—	—	-0.9	0	-12.9	-47.2	—	—
C	300 Whisper	110 gr. V-MAX (16" Bbl)	8089	2375/1378	2094/1071	1834/822	1597/623	—	—	-1.5	3.2	0	-13.6	—	—
C	300 Whisper	208 gr. A-MAX (16" Bbl)	80892	1020/480	988/451	959/4225	—	—	—	-1.5	0	-34.1	—	—	—
LE	30-30 Win	140 gr. MonoFlex	82731	2500/1943	2198/1502	1918/1143	1662/858	—	—	-1.5	3.0	0.3	-12.0	—	—
C	30-30 Win	150 gr. RN InterLock	8080	2390/1902	1959/1278	1581/832	1276/542	—	—	-1.5	0	-7.7	-29.6	—	—
LE	30-30 Win	160 gr. FTX	82730	2400/2046	2150/1643	1916/1304	1699/1025	—	—	-1.5	3.0	0.2	-12.1	—	—
C	30-30 Win	170 gr. FP InterLock	8085	2200/1827	1796/1218	1450/793	1186/530	—	—	-1.5	0	-9.4	-35.7	—	—
LE	308 Marlin Express	140 gr. MonoFlex	82734	2800/2437	2531/1991	2278/1612	2039/1292	1817/1026	1610/806	-1.5	3.0	2.1	-5.6	-21.3	-48.3
LE	308 Marlin Express	160 gr. FTX	82733	2660/2513	2430/2111	2226/1761	2026/1457	1836/1197	1659/978	-1.5	3.0	1.7	-6.7	-23.5	-50.7
SF	300 Savage	150 gr. SST	82221	2740/2500	2499/2081	2271/1718	2055/1407	1852/1142	1663/921	-1.5	2.0	0	-8.8	-25.9	-53.1
T	308 Win	110 gr. TAP-FPD	80898	3165/2446	2830/1956	2519/1549	2228/1212	1957/935	1708/712	-1.5	1.4	0	-6.9	-20.9	-44.1
SF	308 Win	150 gr. SST	80933	3000/2997	2772/2558	2555/2173	2348/1836	2151/1540	1963/1282	-1.5	1.5	0	-6.9	-20.0	-40.7
SF	308 Win	150 gr. GMX	8094	2940/2878	2715/2454	2500/2082	2296/1756	2101/1470	1919/1223	-1.5	1.6	0	-7.2	-21.0	-42.7
SF	308 Win	150 gr. InterBond	80938	3000/2997	2772/2558	2555/2173	2348/1836	2151/1540	1963/1282	-1.5	1.5	0	-6.9	-20.0	-40.7
C	308 Win	150 gr. BTSP InterLock	8091	2820/2648	2560/2183	2315/1785	2084/1446	1866/1159	1664/922	-1.5	1.9	0	-8.4	-24.9	-51.4
C	308 Win	150 gr. SST	8093	2820/2648	2601/2252	2392/1905	2192/1601	2003/1336	1823/1107	-1.5	1.8	0	-7.9	-23.1	-47.0
M	308 Win	155 gr. OTM	8087N	2775/2650	2553/2243	2342/1887	2140/1577	1949/1308	1769/1077	-1.5	1.9	0	-8.3	-24.1	-49.2
M	308 Win	155 gr. A-MAX	8095PM	2850/2795	2639/2397	2438/2045	2245/1735	2062/1463	1887/1225/	-1.5	1.8	0	-7.6	-22.1	-44.9
S	308 Win	155 gr. BTHP	80926	2610/2344	2396/1975	2191/1652	1997/1372	1816/1134	1642/928	-1.5	2.3	0	-9.5	-27.2	-56.7
T	308 Win	155 gr. TAP-FPD	80928	2785/2669	2577/2285	2379/1947	2189/1649	2008/1387	1836/1160	-1.5	1.9	0	-8.0	-23.3	-47.3

# Rifle Ballistics (continued)

Ammo Description			Velocity (fps) / Energy (ft/lb)							Trajectory Tables					
	CARTRIDGE	BULLET	ITEM #	MUZZLE	100 yds	200 yds	300 yds	400 yds	500 yds	MUZZLE	100 yds	200 yds	300 yds	400 yds	500 yds
SF	308 Win	165 gr. SST	80983	2840/2955	2635/2544	2439/2180	2252/1858	2079/1574	1902/1325	-1.5	1.8	0	-7.6	-22.1	-44.7
SF	308 Win	165 gr. InterBond	80998	2840/2955	2635/2544	2439/2180	2252/1858	2079/1574	1902/1325	-1.5	1.8	0	-7.6	-22.1	-44.7
SF	308 Win	165 gr. GMX	8099	2750/2770	2549/2380	2357/2036	2173/1730	1998/1462	1831/1228	-1.5	1.9	0	-8.2	-23.8	-48.1
C	308 Win	165 gr. BTSP InterLock	8098	2700/2670	2496/2282	2301/1939	2115/1638	1937/1375	1770/1147	-1.5	2.0	0	-8.6	-25.1	-50.8
M	308 Win	168 gr. BTHP	8097	2700/2719	2503/2336	2314/1997	2133/1697	1960/1433	1797/1204	-1.5	2.0	0	-8.5	-24.7	-50.0
M	308 Win	168 gr. BTHP w/Moly	80973	2700/2719	2503/2336	2314/1997	2133/1697	1960/1433	1797/1204	-1.5	2.0	0	-8.5	-24.7	-50.0
M	308 Win	168 gr. A-MAX	8096	2700/2719	2513/2355	2333/2030	2161/1742	1996/1486	1839/1261	-1.5	2.0	0	-8.4	-24.3	-48.9
SM	308 Win	168 gr. A-MAX	80964	2840/3008	2647/2613	2462/2261	2284/1946	2114/1667	1951/1420	-1.5	1.7	0	-7.5	-21.6	-43.6
T	308 Win	168 gr. TAP-FPD	80968	2700/2719	2513/2355	2333/2030	2161/1742	1996/1486	1839/1261	-1.5	2.0	0	-8.4	-24.3	-48.9
M	308 Win	178 gr. BTHP	8105	2600/2672	2436/2345	2278/2050	2125/1785	1979/1548	1839/1336	-1.5	2.2	0	-8.9	-25.5	-51.0
SM	308 Win	178 gr. BTHP	8077	2780/3054	2609/2690	2444/2361	2285/2064	2132/1797	1985/1558	-1.5	1.8	0	-7.6	-21.9	-43.9
SF	30-06 Sprg	150 gr. InterBond	81098	3080/3159	2848/2700	2627/2298	2417/1945	2216/1636	2025/1366	-1.5	1.4	0	-6.4	-18.9	-38.4
SF	30-06 Sprg	150 gr. SST	81093	3080/3159	2848/2700	2627/2298	2417/1945	2216/1636	2025/1366	-1.5	1.4	0	-6.4	-18.9	-38.4
SF	30-06 Sprg	150 gr. GMX	8112	3080/3159	2848/2700	2627/2298	2417/1945	2216/1636	2025/1366	-1.5	1.4	0	-6.4	-18.9	-38.4
C	30-06 Sprg	150 gr. SP InterLock	8110	2910/2820	2637/2315	2380/1886	2137/1521	1909/1213	1697/959	-1.5	1.8	0	-7.9	-23.5	-48.7
C	30-06 Sprg	150 gr. SST	8109	2910/2820	2686/2403	2473/2037	2270/1716	2077/1436	1893/1193	-1.5	1.7	0	-7.4	-21.5	-43.7
SF	30-06 Sprg	165 gr. InterBond	81158	2960/3209	2750/2769	2599/2380	2357/2034	2173/1729	1997/1461	-1.5	1.6	0	-6.9	-20.1	-40.7
SF	30-06 Sprg	165 gr. SST	81153	2960/3209	2750/2769	2549/2380	2357/2034	2173/1729	1997/1461	-1.5	1.6	0	-6.9	-20.1	-40.7
SF	30-06 Sprg	165 gr. GMX	8116	2940/3166	2730/2731	2531/2346	2339/2004	2156/1703	1981/1438	-1.5	1.6	0	-7.0	-20.4	-41.3
C	30-06 Sprg	165 gr. BTSP InterLock	8115	2800/2872	2591/2460	2392/2096	2202/1776	2020/1495	1848/1251	-1.5	1.8	0	-7.9	-23.0	-46.7
C	30-06 Sprg	165 gr. SST	81154	2800/2872	2597/2470	2403/2115	2217/1800	2039/1523	1870/1281	-1.5	1.8	0	-7.9	-22.8	-46.2
M	30-06 M1 Garand	168 gr. A-MAX Match	81170	2710/2739	2522/2373	2342/2046	2170/1756	2004/1499	1847/1272	-0.9	2.3	0	-8.6	-24.7	-49.4
SF	30-06 Sprg	180 gr. InterBond	81188	2820/3178	2630/2764	2447/2393	2272/2063	2104/1769	1944/1509	-1.5	1.8	0	-7.6	-21.9	-44.1
SF	30-06 Sprg	180 gr. SST	81183	2820/3178	2630/2764	2447/2393	2272/2063	2104/1769	1944/1509	-1.5	1.8	0	-7.6	-21.9	-44.1
C	30-06 Sprg	180 gr. SP InterLock	8118	2700/2913	2491/2480	2292/2099	2102/1765	1921/1475	1751/1225	-1.5	2.1	0	-8.7	-25.3	-51.3
C	30-06 Sprg	180 gr. SST	81184	2700/2913	2515/2527	2337/2182	2166/1875	2003/1603	1847/1363	-1.5	2.0	0	-8.4	-24.2	-48.7
SF	30 TC	150 gr. SST	81004	3000/2997	2772/2558	2555/2173	2348/1836	2151/1540	1963/1283	-1.5	1.5	0	-6.9	-20.0	-40.7
SF	30 TC	150 gr. GMX	81006	2920/2840	2696/2421	2483/2054	2280/1731	2086/1450	1903/1206	-1.5	1.6	0	-7.3	-21.2	-43.2
SF	30 TC	165 gr. SST	81014	2850/2975	2645/2562	2448/2196	2261/1872	2081/1586	1910/1336	-1.5	1.7	0	-7.5	-21.9	-44.3
SF	300 RCM	150 gr. SST	82231	3310/3648	3065/3128	2833/2673	2613/2274	2404/1924	2204/1618	-1.5	1.1	0	-5.4	-16.0	-32.6
SF	300 RCM	150 gr. GMX	82230	3265/3550	3023/3042	2793/2598	2575/2208	2367/1866	2169/1567	-1.5	1.2	0	-5.6	-16.5	-33.6
SF	300 RCM	165 gr. SST	82232	3185/3716	2964/3217	2753/2776	2552/2386	2360/2040	2176/1734	-1.5	1.2	0	-5.8	-17.0	-34.4
SF	300 RCM	165 gr. InterBond	82227	3185/3716	2964/3217	2753/2776	2552/2386	2360/2040	2176/1734	-1.5	1.2	0	-5.8	-17.0	-34.4
SF	300 RCM	165 gr. GMX	82229	3130/3589	2911/3105	2703/2677	2504/2297	2314/1963	2132/1665	-1.5	1.3	0	-6.1	-17.7	-35.8
SF	300 RCM	180 gr. InterBond	82228	3040/3693	2840/3223	2649/2804	2466/2430	2290/2096	2121/1789	-1.5	1.4	0	-6.4	-18.5	-37.2
SF	300 RCM	180 gr. SST	82235	3040/3693	2840/3223	2649/2804	2466/2430	2290/2096	2121/1789	-1.5	1.4	0	-6.4	-18.5	-37.2
C	300 H&H Mag	180 gr. InterBond	8210	2870/3292	2678/2865	2493/2484	2316/2144	2146/1841	1984/1573	-1.5	1.7	0	-7.3	-21.0	-42.4
SF	300 Win Mag	150 gr. GMX	82012	3400/3850	3150/3304	2914/2827	2690/2409	2477/2043	2273/1721	-1.5	1.0	0	-5.1	-15.0	-30.6
C	300 Win Mag	150 gr. SST	82014	3275/3572	3032/3061	2802/2615	2584/2223	2375/1879	2177/1578	-1.5	1.1	0	-5.6	-16.4	-33.4
C	300 Win Mag	150 gr. BTSP InterLock	8201	3275/3572	2988/2972	2718/2460	2464/2022	2224/1648	1998/1329	-1.5	1.2	0	-5.9	-17.6	-36.3
SF	300 Win Mag	165 gr. InterBond	82028	3260/3893	3035/3373	2821/2915	2617/2505	2422/2148	2235/1830	-1.5	1.1	0	-5.5	-16.1	-32.7
SF	300 Win Mag	165 gr. GMX	82026	3260/3893	3035/3373	2821/2915	2617/2505	2422/2148	2235/1830	-1.5	1.1	0	-5.5	-16.1	-32.7
C	300 Win Mag	165 gr. BTSP InterLock	8202	3100/3520	2877/3032	2665/2601	2462/2221	2269/1886	2084/1591	-1.5	1.4	0	-6.3	-18.3	-37.0
C	300 Win Mag	165 gr. SST	82024	3100/3520	2883/3044	2676/2623	2478/2250	2289/1920	2108/1628	-1.5	1.3	0	-6.2	-18.1	-36.6
M	300 Win Mag	178 gr. A-MAX	8203	2960/3462	2770/3031	2587/2645	2412/2298	2243/1988	2081/1712	-1.5	1.5	0	-6.7	-19.4	-39.1
SF	300 Win Mag	180 gr. InterBond	82198	3130/3917	2927/3424	2732/2983	2546/2589	2366/2238	2195/1925	-1.5	1.3	0	-5.9	-17.3	-34.8
C	300 Win Mag	180 gr. SP InterLock	8200	2960/3501	2739/2998	2528/2555	2328/2165	2136/1823	1953/1525	-1.5	1.6	0	-7.0	-20.5	-41.6
SF	300 Win Mag	180 gr. SST	82193	3130/3917	2927/3424	2732/2983	2546/2589	2366/2238	2195/1925	-1.5	1.3	0	-5.9	-17.3	-34.8
C	300 Win Mag	180 gr. SST	82194	2960/3501	2764/3052	2576/2651	2396/2293	2223/1974	2057/1690	-1.5	1.5	0	-6.8	-19.6	-39.5
M	300 Win Mag	195 gr. BTHP	8218	2930/3717	2760/3297	2596/2917	2438/2573	2285/2261	2138/1979	-1.5	1.5	0	-6.7	-19.2	-38.3
C	300 Wby Mag	150 gr. InterBond	82219	3375/3793	3126/3255	2891/2784	2669/2371	2456/2009	2254/1692	-1.5	1.0	0	-5.2	-15.3	-31.2
C	300 Wby Mag	165 gr. GMX	82220	3140/3612	2921/3126	2713/2697	2514/2316	2324/1979	2142/1681	-1.5	1.3	0	-6.0	-17.5	-35.4
C	300 Wby Mag	180 gr. SP InterLock	8222	3120/3890	2891/3340	2673/2856	2466/2429	2268/2055	2079/1727	-1.5	1.3	0	-6.2	-18.1	-36.9
C	7.62 x 39MM	123 gr. SST (20" Bbl)	8078	2360/1521	2060/1159	1784/869	1535/644	1323/488	1158/366	-1.5	3.4	0	-14.4	-43.6	-92.8
VM	7.62 x 54R	174 gr. BTHP (Steel Case)	80518	2800/3029	2620/2652	2447/2317	2281/2010	2121/1738	1968/1496	-1.5	1.8	0	-7.6	-21.8	-43.8
LE	32 Win Spc	165 gr. FTX	82732	2410/2128	2144/1684	1896/1317	1667/1018	—	—	-0.9	3.0	-0.6	-14.0	—	—
VM	8 x 57	196 gr. BTHP	82298	2500/2720	2338/2379	2182/2072	2032/1797	1888/1552	1751/1335	-1.5	2.4	0	-9.7	-27.9	-55.9
C	303 British	150 gr. SP InterLock	8225	2685/2401	2441/1984	2210/1627	1992/1321	1787/1064	1598/851	-1.5	2.2	0	-9.3	-27.4	-56.5
VM	303 British	174 gr. BTHP	8228	2430/2281	2264/1981	2105/1712	1953/1473	1807/1262	1669/1077	-1.5	2.6	0	-10.5	-30.1	-60.4
LE	338 Marlin Exp	200 gr. FTX	82240	2565/2922	2365/2484	2174/2099	1992/1762	1820/1471	1658/1221	-1.5	3.0	1.2	-7.9	-25.9	-54.3



# Rifle Ballistics (continued)

Ammo Description			Velocity (fps) / Energy (ft/lb)							Trajectory Tables					
	CARTRIDGE	BULLET	ITEM #	MUZZLE	100 yds	200 yds	300 yds	400 yds	500 yds	MUZZLE	100 yds	200 yds	300 yds	400 yds	500 yds
SF	338 RCM	185 gr. GMX	82238	2980/3647	2755/3118	2542/2653	2338/2242	2143/1887	1958/1575	-1.5	1.5	0	-6.9	-20.3	-41.2
SF	338 RCM	200 gr. SST	82237	2950/3846	2744/3342	2547/2879	2358/2468	2177/2104	2004/1784	-1.5	1.6	0	-6.9	-20.1	-40.7
SF	338 RCM	225 gr. InterBond	82138	2750/3778	2575/3313	2407/2894	2245/2518	2089/2180	1940/1880	-1.5	1.9	0	-7.9	-22.7	-45.4
SF	338 RCM	225 gr. SST	82236	2750/3778	2575/3313	2407/2894	2245/2518	2089/2180	1940/1880	-1.5	1.9	0	-7.9	-22.7	-45.4
SF	338 Win Mag	185 gr. GMX	82226	3080/3896	2850/3337	2632/2845	2424/2413	2226/2034	2036/1703	-1.5	1.4	0	-6.4	-18.8	-38.2
SF	338 Win Mag	200 gr. SST	82223	3030/4076	2830/3531	2619/3047	2428/2617	2244/2236	2068/1899	-1.5	1.4	0	-6.5	-18.9	-38.3
C	338 Win Mag	225 gr. SST	82234	2785/3874	2607/3395	2436/2964	2271/2577	2113/2231	1961/1922	-1.5	1.9	0	-8.0	-23.4	-47.4
SF	338 Win Mag	225 gr. InterBond	82338	2840/4209	2662/3539	2490/3097	2325/2700	2166/2344	2014/2025	-1.5	1.7	0	-7.3	-21.1	-42.3
SF	338 Win Mag	225 gr. SST	82233	2840/4209	2662/3539	2490/3097	2325/2700	2166/2344	2014/2025	-1.5	1.7	0	-7.3	-21.1	-42.3
M	338 Lapua	250 gr. BTHP	8230	2900/4668	2760/4229	2625/3825	2494/3452	2366/3108	2242/2791	-1.5	1.5	0	-6.6	-18.8	-37.1
M	338 Lapua	285 gr. BTHP	82306	2745/4768	2623/4352	2504/3966	2388/3608	2275/3275	2165/2966	-1.5	1.8	0	-7.3	-20.8	-40.9
LE	35 Rem	200 gr. FTX	82735	2225/2198	1963/1711	1721/1315	1503/1003	—	—	-1.5	3.0	-1.3	-17.5	—	—
SF	35 Whelen	200 gr. SP	81193	2910/3760	2582/2961	2277/2303	1993/1764	1732/1332	1499/997	-1.5	1.9	0	-8.6	-26.0	-55.1
C	358 Win	200 gr. SP	91318	2475/2720	2180/2110	1906/1613	1655/1216	1434/913	1249/693	-1.5	2.9	0	-12.6	-37.9	-80.4
DG	9.3 x 62mm	286 gr. SP-RP	82303	2360/3536	2136/2896	1924/2351	1727/1893	1545/1516	1383/1214	-1.5	0	-6.1	-21.7	-49.0	-90.9
DG	9.3 x 74R	286 gr. SP-RP	82304	2360/3536	2136/2896	1924/2351	1727/1893	1545/1516	1383/1214	-1.5	0	-6.1	-21.7	-49.0	-90.9
DG	376 Steyr	225 gr. SP-RP InterLock	8234	2600/3377	2331/2714	2078/2157	1842/1694	1625/1319	1431/1023	-1.5	2.5	0	-10.6	-31.4	-65.5
DG	376 Steyr	270 gr. SP-RP InterLock	8237	2600/4052	2372/3373	2156/2787	1951/2283	1759/1855	1582/1500	-1.5	2.3	0	-9.9	-28.9	-59.2
DG	375 H&H	270 gr. SP-RP Superformance	8508	2800/4699	2562/3935	2336/3272	2122/2699	1919/2208	1729/1793	-1.5	1.96	0	-8.3	-24.3	-49.8
DG	375 H&H	270 gr. SP-RP	82312	2700/4370	2458/3621	2229/2977	2012/2425	1811/1967	1619/1571	-1.5	2.1	0	-9.2	-26.0	-55.4
DG	375 H&H	300 gr. DGS Superformance	8509	2660/4713	2344/3660	2050/2800	1780/2110	1536/1572	1328/1174	-1.5	2.4	0	-10.8	-32.6	-69.2
DG	375 H&H	300 gr. DGS	82322	2530/4263	2223/3292	1938/2503	1678/1875	1448/1396	1256/1050	-1.5	2.8	0	-12.1	-36.7	-77.9
DG	375 H&H	300 gr. DGX	82332	2530/4263	2223/3292	1938/2503	1678/1875	1448/1396	1256/1050	-1.5	2.8	0	-12.1	-36.7	-77.9
DG	375 Ruger	270 gr. SP-RP Superformance	8231	2840/4835	2600/4052	2372/3373	2156/2786	1951/2283	1759/1855	-1.5	1.8	0	-8.0	-23.6	-48.2
DG	375 Ruger	300 gr. DGS Superformance	8232	2660/4713	2344/3660	2050/2800	1780/2110	1536/1572	1328/1174	-1.5	2.4	0	-10.8	-32.6	-69.2
DG	375 Ruger	300 gr. DGX Superformance	82333	2660/4713	2344/3660	2050/2800	1780/2110	1536/1572	1328/1174	-1.5	2.4	0	-10.8	-32.6	-69.2
DG	404 Jeffery	400 gr. DGX	8238	2300/4698	2046/3717	1809/2906	1592/2251	—	—	-1.5	0	-6.9	-24.4	—	—
DG	404 Jeffery	400 gr. DGS	8239	2300/4698	2046/3717	1809/2906	1592/2251	—	—	-1.5	0	-6.9	-24.4	—	—
C	405 Win	300 gr. SP InterLock	8241	2200/3224	1890/2379	1610/1727	1370/1250	—	—	-1.5	0	-8.3	-30.2	—	—
DG	416 Rem Mag	400 gr. DGX	82673	2400/5115	2142/4075	1901/3208	1678/2500	—	—	-1.5	3.1	0	-12.7	—	—
DG	416 Rem Mag	400 gr. DGS	82674	2400/5115	2142/4075	1901/3208	1678/2500	—	—	-1.5	3.1	0	-12.7	—	—
DG	416 Ruger	400 gr. DGX	82665	2400/5115	2142/4075	1901/3208	1678/2500	—	—	-1.5	3.1	0	-12.7	—	—
DG	416 Ruger	400 gr. DGS	82666	2400/5115	2142/4075	1901/3208	1678/2500	—	—	-1.5	3.1	0	-12.7	—	—
DG	416 Rigby	400 gr. DGS	8265	2415/5180	2157/4131	1915/3256	1691/2540	—	—	-1.5	0	-6.0	-21.6	—	—
DG	416 Rigby	400 gr. DGX	82663	2415/5180	2157/4131	1915/3256	1691/2540	—	—	-1.5	0	-6.0	-21.6	—	—
SF	444 Marlin	265 gr. FP InterLock	82453	2400/3389	1975/2295	1601/1508	1296/988	—	—	-1.5	3.8	0	-17.6	—	—
LE	444 Marlin	265 gr. FTX	82744	2325/3180	1971/2285	1652/1606	1380/1120	—	—	-1.5	3.0	-1.4	-18.6	—	—
LE	45-70 Govt	250 gr. MonoFlex	82741	PENDING R&D											
LE	45-70 Govt	325 gr. FTX	82747	2000/2886	1685/2048	1412/1439	1197/1035	—	—	-1.5	3.0	-4.8	-30.2	—	—
LE	450 Marlin	325 gr. FTX	82750	2225/3572	1887/2569	1585/1813	1331/1278	—	—	-1.5	3.0	-2.2	-21.3	—	—
C	450 Marlin	350 gr. FP InterLock	8250	2100/3427	1720/2298	1397/1516	1156/1039	—	—	-1.5	0	-10.4	-38.9	—	—
DG	450/400 Nitro Express	400 gr. DGS	8242	2050/3732	1820/2941	1608/2298	1420/1791	—	—	-0.9	0	-9.7	-32.8	—	—
DG	450/400 Nitro Express	400 gr. DGX	82433	2050/3732	1820/2941	1608/2298	1420/1791	—	—	-0.9	0	-9.7	-32.8	—	—
DG	450 Nitro Express	480 gr. DGX	8255	2150/4927	1872/3733	1618/2792	1397/2080	—	—	-1.5	0	-8.5	-30.4	—	—
DG	450 Nitro Express	480 gr. DGS	8256	2150/4927	1872/3733	1618/2792	1397/2080	—	—	-1.5	0	-8.5	-30.4	—	—
DG	450 Bushmaster	250 gr. FTX (20" Bbl)	82244	2200/2686	1840/1879	1524/1289	1268/893	—	—	-2.0	2.5	-3.4	-24.5	—	—
DG	458 Win Mag	500 gr. DGX	85833	2140/5084	1880/3926	1643/2996	1432/2276	—	—	-1.5	0	-8.4	-29.8	—	—
DG	458 Win Mag	500 gr. DGS	8585	2140/5084	1880/3926	1643/2996	1432/2276	—	—	-1.5	0	-8.4	-29.8	—	—
DG	458 Lott	500 gr. DGX	82613	2300/5872	2028/4567	1777/3506	1549/2665	—	—	-1.5	0	-7.0	-25.1	—	—
DG	458 Lott	500 gr. DGS	8262	2300/5872	2028/4567	1777/3506	1549/2665	—	—	-1.5	0	-7.0	-25.1	—	—
DG	470 Nitro Express	500 gr. DGX	8263	2150/5132	1885/3946	1643/2998	1429/2267	—	—	-0.9	0	-8.9	-30.9	—	—
DG	470 Nitro Express	500 gr. DGS	8264	2150/5132	1885/3946	1643/2998	1429/2267	—	—	-0.9	0	-8.9	-30.9	—	—
DG	500 Nitro Express	570 gr. DGX	8268	2150/5850	1881/4477	1635/3384	1419/2547	—	—	-0.9	0	-9.0	-31.1	—	—
DG	500 Nitro Express	570 gr. DGS	8269	2150/5850	1881/4477	1635/3384	1419/2547	—	—	-0.9	0	-9.0	-31.1	—	—
M	50 BMG	750 gr. A-MAX (36" Bbl)	8270	2820/13241	2732/12426	2645/11652	2561/10919	2478/10223	2396/9559	1.8	1.4	0	-6.4	-18.1	-35.4



# Shotgun/Muzzleloader Ballistics

## Shotgun Ammunition

Ammo Description			Velocity (fps) / Energy (ft/lb)					Trajectory Tables				
AMMO DESCRIPTION	WEIGHT	ITEM #	MUZZLE	50 yds	100 yds	150yds	200 yds	MUZZLE	50 yds	100 yds	150 yds	200 yds
20 ga. SST® Shotgun Slug	250 gr.	86232	1800/1798	1628/1471	1470/1200	1331/983	1212/815	-1.5	2.5	3.3	0	-8.2
12 ga. SST® Shotgun Slug	300 gr.	8623	2000/2664	1816/2196	1641/1793	1482/1463	1341/1198	-1.5	2.4	2.7	0	-6.7

AMMO DESCRIPTION	SHELL LENGTH	ITEM #	10 yds
12 Gauge #4 Buck	2¾"	86243	1299
12 Gauge Critical Defense 00 Buck (8 Pellets)	2¾"	86240	1510
12 Gauge Superformance 00 Buck (8 Pellets)	2¾"	86246	1510
12 Gauge TAP-FPD 00 Buck (8 Pellets)	2¾"	86276	1510

AMMO DESCRIPTION	SHELL LENGTH	ITEM #	10 yds
12 Gauge Heavy Mag #4 Turkey	3"	86242	1300
12 Gauge Heavy Mag #5 Turkey	3"	86241	1300
12 Gauge Heavy Mag #6 Turkey	3"	86244	1300

12 gauge shotgun ballistics are established with a 30" SAAMI standard test barrel.  
20 gauge shotgun ballistics are established with a 26" SAAMI standard test barrel.

## Muzzleloader Projectiles

Description			Velocity (fps) / Energy (ft/lb)						Trajectory Tables					
DESCRIPTION	WEIGHT	ITEM #	MUZZLE	50 yds	100 yds	150yds	200 yds	250 yds	MUZZLE	50 yds	100 yds	150 yds	200 yds	250 yds
45 Cal. SST®-ML	200 gr.	67132	2325/2400	2171/2092	2022/1815	1880/1569	1744/1351	1616/1160	-1.5	1.7	3.0	2.2	-1.0	-7.1
50 Cal. SST®-ML Low Drag	250 gr.	67270	2250/2735	2031/2290	1852/1904	1684/1574	1529/1297	1389/1070	-1.5	1.8	3.0	1.7	-2.7	-11.0
50 Cal. SST®-ML Low Drag	300 gr.	67271	2130/3022	1974/2597	1826/2221	1686/1893	1554/1609	1433/1368	-1.5	1.9	3.0	1.6	-2.9	-11.1
50 Cal. FPB® (150 gr. charge)	300 gr.	6605	2100/2937	1942/2512	1792/2139	1650/1814	1518/1535	1397/1301	-0.9	2.2	3.0	1.1	-8.1	-12.9
50 Cal. FPB® (100 gr. charge)	300 gr.	6605	1800/2158	1658/1830	1525/1549	1404/1313	1295/1117	1202/962	-0.9	2.7	3.0	-0.3	-8.1	-21.1
50 Cal. FPB® (150 gr. charge)	350 gr.	6600	1950/2955	1821/2577	1697/2238	1581/1942	1473/1685	1372/1463	-1.5	2	3.0	0.9	-4.7	-14.2
50 Cal. FPB® (100 gr. charge)	350 gr.	6600	1620/2039	1509/1769	1406/1536	1312/1338	1230/1176	1159/1043	-1.5	2.7	3.0	-1.1	-10.2	-25.0

All data developed in a stock T/C Omega inline muzzleloader with 150 gr. charges except when noted. Zero your rifle 3" high at 100 yards for a 6" shooting window to 200 yards with 3 pellets or 150 gr. charges.

### 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  
GMX .....Gilding Metal 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™

## Lock-N-Load® Case Feeder Plates

These cae feeder plates are used with the Lock-N-Load® Case Feeder featured on page 46. Refer to the chart to choose the proper size for your application.



Small Pistol Plate  
No. 095310 \$37.44



Large Pistol Plate  
No. 095312 \$37.44



Small Rifle Plate  
No. 095314 \$37.44



Large Rifle Plate  
No. 095316 \$37.44

Small Pistol Plate	Large Pistol Plate	Small Rifle Plate	Large Rifle Plate			
22 Hornet	10MM Auto	7.62 x 39	6MM Rem.	.284 Win.	.356 Win.	.300 RCM
9MM	.357 Mag.	.17 Rem.	6.5MM Rem. Mag.	.30 Rem.	.358 Win.	.300 Rem. Saum
9 x 21	.357 Rem. Max.	.218 Bee	6.5 x 55 Swedish Mauser	.30-06 Springfield	.375 H&H Mag.	.300 WSM
.38 Super	.38 Long Colt	.22 Hornet	7MM Mauser (7 x 57)	.30-30 WIn.	.375 Win.	.300 Dakota
9 x 18 Makarov	.38 Short Colt	.222 Rem./Rem Mag.	7MM Rem. Mag.	.30-40 Krag	.38-55 Win.	.300 Rem. Ultra Mag.
9MM Win Mag.	.38 S&W	.223 Rem (5.56MM)	7MM WBY Mag.	.300 H&H Mag.	.416 Rem. Mag.	.338 RCM
.30 Luger	.38 Spl.	.30 Carbine	7MM-08 Rem.	.300 Savage	.416 Rigby	.338 Win. Mag.
32 ACP	.41 Rem. Mag.	.32-20 Win.	7-30 Waters	.300 WBY Mag.	.444 Marlin	.338 Rem. Ultra Mag.
.32 H&R Mag	.44 Spl/Mag.	.351 Win Self Loading	8MM Mauser (8 x 57)	.300 Win. Mag.	.45-70 Govt.	.340 WBY Mag.
.32 Long Colt	.45 ACP	.25-20 Win.	8MM Rem. Mag.	.303 British	.458 Win. Mag.	.375 Ruger
.32 Short Colt	.45 Auto Rim.		.22-250	.303 Savage	.458 Lott	.378 WBY Mag.
.32 S&W	.45 Colt		.220 Swift	.307 Win.	.450 Marlin	.404 Jeffery
.32 S&W Long	.45 Win. Mag.		.225 Win.	.308 Win.	.376 Steyr	.460 WBY Mag.
.380 Auto	.454 Casull		.243 Win.	.32 Rem.	.405 Win.	500 S&W
.40 S&W	9 x 25		.25-06	.32 Win. Spl.	.240 WBY Mag.	
	.22 Rem. Jet		.25-35 Win.	.32-40 Win.	.257 WBY Mag.	
	.256 Win. Mag.		.250 Savage	.338 Win. Mag.	.270 WBY Mag.	
	.475 Linebaugh		.257 Roberts	.348 Win.	.270 WSM	
	.480 Ruger		.264 Win. Mag.	.35 Rem.	7MM Rem. Saum	
	.38-40 Win.		.270 Win.	.35 Whelen	7MM STW	
	.44-40 Win.		.280 Rem.	.350 Rem.	7MM Rem. Ultra Mag.	