



# Rifle Ballistics

## Hornady® Product Lines:

- W** American Whitetail™
- C** Custom™
- DG** Dangerous Game™ Series
- LE** LEVERevolution®
- SF** Superformance®
- T** TAP® FPD™
- V** Varmint Express®
- CD** Critical Defense®
- M** Match
- S** Steel Match®
- SM** Superformance® Match
- VM** Vintage Match™
- SV** Superformance® Varmint

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

Ammo Description			Velocity (fps)							Energy (ft/lb)					Trajectory Tables (inches)						
CARTRIDGE	BULLET	ITEM #	MUZ	100 yd	200 yd	300 yd	400 yd	500 yd	MUZ	100 yd	200 yd	300 yd	400 yd	500 yd	MUZ	100 yd	200 yd	300 yd	400 yd	500 yd	
V	17 Mach 2	15.5 gr. NTX	83176	2050	1450	1070	—	—	—	145	72	39	—	—	-1.5	0	-15.6	—	—	—	
V	17 Mach 2	17 gr. V-MAX	83177	2100	1531	1133	—	—	—	166	88	48	—	—	-1.5	0	-13.8	—	—	—	
V	17 HMR	15.5 gr. NTX	83171	2525	1830	1291	—	—	—	219	115	57	—	—	-1.5	0	-9.3	—	—	—	
V	17 HMR	17 gr. V-MAX	83170	2550	1902	1379	—	—	—	245	137	72	—	—	-1.5	0	-8.5	—	—	—	
V	17 HMR	20 gr. XTP	83172	2375	1755	1274	—	—	—	250	137	72	—	—	-1.5	0	-10.2	—	—	—	
SV	17 Hornet	15.5 gr. NTXSPF	83004	3860	2924	2159	1531	1108	920	513	294	160	81	42	29	-1.5	1.4	0	-9.1	-33.7	-86.4
SV	17 Hornet	20 gr. V-MAX	83005	3650	3077	2574	2122	1721	1383	592	420	294	200	132	85	-1.5	1.1	0	-6.4	-20.7	-46.9
V	204 Ruger	24 gr. NTX (26" Bbl)	83209	4400	3667	3046	2504	2023	1604	1032	717	494	334	218	137	-1.5	0.6	0	-4.3	-14.3	-33.0
V	204 Ruger	32 gr. V-MAX (26" Bbl)	83204	4225	3645	3137	2685	2275	1903	1268	944	699	512	368	257	-1.5	0.6	0	-4.1	-13.1	-28.9
V	204 Ruger	40 gr. V-MAX (26" Bbl)	83206	3900	3482	3104	2757	2435	2136	1351	1077	855	675	527	405	-1.5	0.7	0	-4.3	-13.2	-28.0
V	204 Ruger	45 gr. SP (26" Bbl)	83208	3625	3188	2793	2431	2096	1791	1313	1015	779	590	439	320	-1.5	1.0	0	-5.4	-16.8	-36.2
V	5.45 x 39MM	60 gr. V-MAX (16" Bbl)	8124	2810	2495	2202	1929	1679	1457	1052	830	646	496	376	283	-1.8	1.9	0	-9.1	-27.7	-58.6
V	22 WMR	30 gr. V-MAX	83202	2200	1454	1026	—	—	—	322	141	70	—	—	-1.5	0	-15.7	—	—	—	
V	22 Hornet	35 gr. V-MAX	8302	3070	2247	1574	1117	918	802	732	392	192	97	65	50	-1.5	2.9	0	-17.5	-62.7	-149.2
SV	222 Rem	35 gr. NTX	8309	3760	3148	2615	2140	1719	1369	1099	770	531	356	230	146	-1.5	1.0	0	-6.2	-20.1	-46.0
V	222 Rem	40 gr. V-MAX	8310	3600	3073	2606	2184	1804	1475	1151	839	603	424	289	193	-1.5	1.1	0	-6.3	-20.0	-44.5
SV	222 Rem	50 gr. V-MAX	8316	3345	2930	2553	2205	1886	1599	1242	953	723	540	395	284	-1.5	1.3	0	-6.7	-20.6	-44.3
SV	222 Rem	35 gr. NTX	83266	4000	3353	2796	2302	1861	1483	1243	874	607	412	269	171	-1.5	0.8	0	-5.3	-17.3	-39.6
V	223 Rem	40 gr. V-MAX	8325	3800	3249	2763	2326	1931	1582	1282	937	678	481	331	222	-1.5	0.9	0	-5.5	-17.6	-39.1
SV	223 Rem	53 gr. V-MAX	8025	3465	3106	2776	2470	2183	1916	1413	1135	907	718	561	432	-1.5	1.1	0	-5.6	-16.9	-35.6
SF	223 Rem	55 gr. GMX	83274	3275	2872	2503	2163	1851	1572	1310	1007	765	572	419	302	-1.5	1.4	0	-7.0	-21.4	-46.1
V	223 Rem	55 gr. V-MAX	8327	3240	2855	2502	2175	1873	1602	1282	995	764	578	429	313	-1.5	1.4	0	-7.0	-21.4	-45.8
V	223 Rem	55 gr. V-MAX w/Moly	83273	3240	2855	2502	2175	1873	1602	1282	995	764	578	429	313	-1.5	1.4	0	-7.0	-21.4	-45.8
T	223 Rem	55 gr. TAP-FPD	83278	3240	2855	2502	2175	1873	1602	1282	995	764	578	429	313	-1.5	1.4	0	-7.0	-21.4	-45.8
S	223 Rem	55 gr. HP	80274	3240	2853	2499	2171	1869	1597	1282	994	763	576	427	311	-1.5	1.4	0	-7.0	-21.5	-46.0
C	223 Rem	68 gr. BTHP	80289	2960	2697	2449	2215	1993	1786	1323	1098	906	741	600	482	-1.5	1.7	0	-7.5	-22.0	-45.4
M	223 Rem	75 gr. BTHP	8026	2790	2562	2345	2139	1943	1759	1296	1093	916	762	629	515	-1.5	1.9	0	-8.2	-24.1	-49.3
T	223 Rem	75 gr. TAP-FPD	80268	2790	2562	2345	2139	1943	1759	1296	1093	916	762	629	515	-1.5	1.9	0	-8.2	-24.1	-49.3
SM	223 Rem	75 gr. BTHP	80264	2930	2695	2471	2259	2057	1866	1430	1209	1017	850	705	580	-1.5	1.7	0	-7.4	-21.6	-44.0
S	223 Rem	75 gr. BTHP Steel	80261	2790	2562	2345	2139	1943	1759	1296	1093	916	762	629	515	-1.5	1.9	0	-8.2	-24.1	-49.3
SF	5.56 NATO	55 gr. GMX (20" Bbl)	81254	3130	2740	2382	2051	1750	1484	1196	917	693	514	374	269	-2.4	1.1	0	-7.3	-23.0	-50.1
SM	5.56 NATO	75 gr. BTHP (20" Bbl)	81264	2910	2676	2453	2242	2041	1851	1410	1192	1002	837	693	570	-2.4	1.2	0	-7.0	-21.0	-43.3
SV	22-250 Rem	35 gr. NTX	8334	4450	3736	3128	2598	2125	1706	1539	1085	761	524	351	226	-1.5	0.5	0	-4.1	-13.4	-30.6
V	22-250 Rem	40 gr. V-MAX	8335	4150	3553	3033	2570	2151	1774	1530	1121	817	587	411	280	-1.5	0.6	0	-4.4	-14.2	-31.6
V	22-250 Rem	50 gr. V-MAX	8336	3800	3339	2925	2548	2201	1882	1603	1238	950	721	538	393	-1.5	0.8	0	-4.9	-15.2	-32.8
SV	22-250 Rem	50 gr. V-MAX	83366	4000	3517	3086	2696	2337	2006	1776	1373	1057	807	606	447	-1.5	0.7	0	-4.3	-13.5	-29.1
V	22-250 Rem	50 gr. V-MAX w/Moly	83363	3800	3339	2925	2548	2201	1882	1603	1238	950	721	538	393	-1.5	0.8	0	-4.9	-15.2	-32.8
V	22-250 Rem	55 gr. V-MAX	8337	3680	3253	2868	2514	2186	1884	1654	1293	1004	772	583	433	-1.5	0.9	0	-5.1	-15.8	-33.9
C	22-250 Rem	60 gr. SP	8039	3530	3131	2768	2433	2122	1835	1660	1306	1021	789	600	449	-1.5	1.0	0	-5.6	-17.1	-36.4
V	220 Swift	50 gr. V-MAX w/Moly	83213	3850	3384	2966	2585	2235	1913	1646	1271	977	742	555	406	-1.5	0.8	0	-4.7	-14.7	-31.8
V	220 Swift	55 gr. V-MAX	8324	3680	3253	2868	2514	2186	1884	1654	1293	1004	772	583	433	-1.5	0.9	0	-5.1	-15.8	-33.9
C	220 Swift	60 gr. HP	8122	3600	3195	2827	2487	2172	1881	1727	1360	1064	824	628	471	-1.5	1.0	0	-5.3	-16.3	-34.7
SV	243 Win	58 gr. V-Max	8343	3925	3465	3052	2676	2330	2010	1984	1546	1200	922	699	520	-1.5	0.7	0	-4.4	-13.8	-29.6
V	243 Win	58 gr. V-MAX w/Moly	83423	3750	3308	2910	2546	2209	1899	1811	1409	1091	835	629	465	-1.5	0.9	0	-5.0	-15.4	-32.9
C	243 Win	75 gr. HP	8040	3340	2996	2678	2382	2105	1847	1858	1495	1195	945	738	568	-1.5	1.2	0	-6.0	-18.3	-38.4
SF	243 Win	80 gr. GMX	80456	3425	3081	2763	2468	2190	1931	2084	1686	1357	1082	852	663	-1.5	1.1	0	-5.7	-17.1	-35.8
SF	243 Win	95 gr. SST	80463	3185	2908	2649	2404	2172	1953	2140	1784	1480	1219	995	804	-1.5	1.3	0	-6.3	-18.6	-38.3
C	243 Win	95 gr. SST	80464	3010	2744	2494	2257	2033	1823	1911	1588	1312	1074	872	701	-1.5	1.6	0	-7.2	-21.2	-43.7
C	243 Win	100 gr. InterLock BTSP	8046	2960	2729	2509	2300	2101	1912	1945	1653	1398	1175	980	812	-1.5	1.6	0	-7.1	-20.9	-42.5
W	243 Win	100 gr. InterLock BTSP	8047	2960	2729	2509	2300	2101	1912	1945	1653	1398	1175	980	812	-1.5	1.6	0	-7.1	-20.9	-42.5
SF	6MM Rem	95 gr. SST	81663	3235	2955	2693	2445	2211	1990	2207	1842	1530	1261	1031	835	-1.5	1.3	0	-6.1	-18.0	-37.0
C	6MM Rem	100 gr. InterLock BTSP	8166	3100	2861	2635	2420	2215	2020	2134	1818	1542	1301	1090	906	-1.5	1.4	0	-6.4	-18.7	-38.2
SF	257 Roberts+P	117 gr. SST	81353	2946	2707	2480	2265	2060	1866	2255	1903	1598	1332	1102	905	-1.5	1.6	0	-7.3	-21.4	-43.7
C	257 Roberts+P	117 gr. InterLock BTSP	8135	2780	2550	2332	2124	1927	1742	2008	1689	1412	1172	965	789	-1.5	1.9	0	-8.4	-24.4	-49.9
SF	25-06 Rem	90 gr. GMX	81446	3350	3001	2679	2378	2098	1837	2243	1799	1434	1130	879	674	-1.5	1.2	0	-6.0	-18.3	-38.5
SF	25-06 Rem	117 gr. SST	81453	3110	2862	2627	2405	2193	1992	2513	2127	1793	1502	1249	1031	-1.5	1.4	0	-6.4	-18.9	-38.6
C	25-06 Rem	117 gr. SST	81454	2990	2748	2520	2302	2096	1900	2322	1962	1650	1377	1141	938	-1.5	1.6	0	-7.0	-20.7	-42.3

# Rifle Ballistics (continued)

Ammo Description			Velocity (fps)							Energy (ft/lb)					Trajectory Tables (inches)						
CARTRIDGE	BULLET	ITEM #	MUZ	100 yd	200 yd	300 yd	400 yd	500 yd	MUZ	100 yd	200 yd	300 yd	400 yd	500 yd	MUZ	100 yd	200 yd	300 yd	400 yd	500 yd	
C	25-06 Rem	117 gr. InterLock BTSP	8145	2990	2749	2521	2304	2098	1902	2322	1963	1651	1379	1143	940	-1.5	1.6	0	-7.0	-20.7	-42.2
AW	25-06 Rem	117 gr. InterLock BTSP	8144	2990	2749	2521	2304	2098	1902	2322	1963	1651	1379	1143	940	-1.5	1.6	0	-7.0	-20.7	-42.2
C	257 Wby	90 gr. GMX	8136	3550	3184	2848	2537	2246	1974	2518	2026	1621	1286	1008	779	-1.5	1.0	0	-5.3	-16.0	-33.6
C	257 Wby	110 gr. InterBond	81363	3330	3069	2823	2591	2370	2160	2708	2300	1947	1639	1372	1139	-1.5	1.1	0	-5.5	-16.1	-33.0
VM	6.5x55	140 gr. BTHP	85508	2600	2450	2305	2164	2029	1899	2101	1865	1651	1456	1280	1121	-1.5	2.2	0	-8.7	-24.8	-49.4
SF	6.5x55	140 gr. SST	85507	2735	2563	2397	2237	2084	1937	2325	2041	1786	1566	1350	1166	-1.5	1.9	0	-8.0	-22.9	-45.9
M	6.5 Grendel	123 gr. A-MAX	8150	2590	2420	2256	2099	1948	1804	1832	1599	1390	1203	1037	889	-2.4	1.8	0	-8.6	-25.1	-50.9
C	6.5 Grendel	123 gr. SST	8152	2620	2448	2284	2126	1974	1829	1875	1638	1425	1234	1064	913	-2.4	1.7	0	-8.4	-24.5	-49.5
SF	6.5 Creedmoor	120 gr. GMX	81490	3050	2850	2659	2476	2300	2132	2479	2164	1884	1634	1410	1211	-1.5	1.4	0	-6.3	-18.3	-36.9
M	6.5 Creedmoor	120 gr. A-MAX	81492	2910	2710	2519	2336	2161	1993	2256	1957	1691	1454	1244	1058	-1.5	1.6	0	-7.1	-20.6	-41.6
SF	6.5 Creedmoor	129 gr. SST	81496	2950	2756	2571	2394	2223	2059	2493	2176	1894	1641	1415	1214	-1.5	1.5	0	-6.8	-19.7	-39.7
SF	6.5 Creedmoor	129 gr. InterBond	81497	2950	2756	2571	2394	2223	2059	2493	2176	1894	1641	1415	1214	-1.5	1.5	0	-6.8	-19.7	-39.7
M	6.5 Creedmoor	140 gr. A-MAX	81494	2710	2557	2410	2267	2129	1997	2283	2033	1805	1598	1410	1239	-1.5	1.9	0	-7.9	-22.9	-44.9
V	6.8 SPC	110 gr. V-MAX (16" Bbl)	8346	2570	2338	2119	1911	1718	1540	1613	1335	1096	892	721	579	-2.4	2.0	0	-9.8	-29.1	-60.3
M	6.8 SPC	110 gr. BTHP (16" Bbl)	8146	2570	2332	2107	1895	1697	1517	1613	1328	1084	877	703	562	-2.4	2.0	0	-9.9	-29.5	-61.2
C	6.8 SPC	120 gr. SST (16" Bbl)	8347	2460	2250	2051	1863	1687	1524	1612	1349	1121	925	758	619	-2.4	2.3	0	-10.5	-31.1	-64.0
SF	270 Win	130 gr. InterBond	80548	3200	2984	2779	2583	2396	2216	2956	2570	2229	1926	1656	1417	-1.5	1.2	0	-5.7	-16.7	-33.7
SF	270 Win	130 gr. GMX	8052	3190	2975	2770	2575	2387	2208	2937	2554	2215	1913	1645	1407	-1.5	1.2	0	-5.7	-16.8	-33.9
SF	270 Win	130 gr. SST	80543	3200	2984	2779	2583	2396	2216	2956	2570	2229	1926	1656	1417	-1.5	1.2	0	-5.7	-16.7	-33.7
C	270 Win	130 gr. SST	8054	3060	2851	2652	2462	2279	2104	2703	2346	2030	1749	1499	1278	-1.5	1.4	0	-6.3	-18.4	-37.2
C	270 Win	130 gr. InterLock	8055	3060	2826	2604	2392	2191	1999	2703	2305	1957	1652	1385	1153	-1.5	1.4	0	-6.6	-19.3	-39.2
SF	270 Win	140 gr. SST	80563	3090	2894	2707	2528	2355	2189	2968	2604	2278	1986	1724	1490	-1.5	1.3	0	-6.1	-17.6	-35.5
C	270 Win	140 gr. InterLock BTSP	8056	2940	2747	2563	2386	2216	2053	2687	2346	2042	1770	1526	1310	-1.5	1.6	0	-6.8	-19.8	-39.9
C	270 Win	150 gr. InterLock SP	8058	2840	2642	2453	2271	2097	1931	2686	2325	2004	1718	1465	1242	-1.5	1.7	0	-7.5	-21.8	-44.1
AW	270 Win	150 gr. InterLock SP	8053	2840	2642	2453	2271	2097	1931	2686	2325	2004	1718	1465	1242	-1.5	1.7	0	-7.5	-21.8	-44.1
SF	7x57 Mauser	139 gr. GMX	81556	2740	2556	2379	2209	2046	1891	2317	2016	1747	1506	1292	1103	-1.5	1.9	0	-8.1	-23.3	-46.8
SF	7x57 Mauser	139 gr. SST	81553	2760	2575	2397	2227	2063	1907	2351	2046	1774	1530	1314	1122	-1.5	1.9	0	-7.9	-22.9	-46.0
C	7x57 Mauser	139 gr. InterLock BTSP	8155	2680	2485	2299	2120	1950	1788	2217	1906	1631	1387	1173	987	-1.5	2.1	0	-8.7	-25.1	-50.7
SF	7MM-08 Rem	139 gr. GMX	80576	2910	2719	2535	2359	2190	2028	2613	2281	1984	1718	1481	1270	-1.5	1.6	0	-7.0	-20.3	-40.8
SF	7MM-08 Rem	139 gr. SST	80573	2950	2757	2572	2395	2224	2061	2686	2346	2042	1770	1527	1311	-1.5	1.5	0	-6.8	-19.7	-39.6
AW	7MM-08 Rem	139 gr. InterLock SP	8057	2840	2608	2387	2177	1978	1790	2489	2098	1758	1463	1207	989	-1.5	1.8	0	-7.9	-23.2	-47.5
SF	280 Rem	139 gr. GMX	81586	3070	2871	2682	2500	2326	2158	2909	2545	2220	1929	1669	1437	-1.5	1.4	0	-6.2	-18.0	-36.2
SF	280 Rem	139 gr. SST	81583	3090	2891	2700	2518	2343	2174	2947	2579	2250	1957	1694	1459	-1.5	1.3	0	-6.1	-17.7	-35.7
C	7MM Rem Mag	139 gr. InterLock BTSP	8059	3150	2933	2728	2531	2343	2162	3062	2656	2296	1977	1694	1443	-1.5	1.3	0	-5.9	-17.3	-35.1
AW	7MM Rem Mag	139 gr. InterLock BTSP	80591	3150	2933	2728	2531	2343	2162	3062	2656	2296	1977	1694	1443	-1.5	1.3	0	-5.9	-17.3	-35.1
SF	7MM Rem Mag	139 gr. GMX	80592	3190	2986	2791	2605	2427	2255	3141	2752	2405	2095	1817	1569	-1.5	1.2	0	-5.7	-16.5	-33.2
SF	7MM Rem Mag	139 gr. SST	80593	3240	3033	2837	2649	2469	2295	3240	2840	2484	2166	1881	1626	-1.5	1.2	0	-5.5	-15.9	-32.0
SF	7MM Rem Mag	154 gr. InterBond	80628	3100	2915	2737	2567	2403	2244	3286	2905	2562	2253	1974	1722	-1.5	1.3	0	-5.9	-17.2	-34.4
SF	7MM Rem Mag	154 gr. SST	8061	3100	2915	2737	2567	2403	2244	3286	2905	2562	2253	1974	1722	-1.5	1.3	0	-5.9	-17.2	-34.4
C	7MM Rem Mag	154 gr. InterLock SP	8060	3035	2815	2605	2405	2214	2031	3150	2709	2321	1978	1676	1411	-1.5	1.5	0	-6.6	-19.2	-38.9
C	7MM Rem Mag	154 gr. SST	8062	3035	2852	2678	2509	2347	2191	3150	2782	2451	2153	1884	1641	-1.5	1.4	0	-6.2	-18.0	-36.1
SF	7MM Rem Mag	162 gr. SST	80633	3030	2856	2689	2527	2372	2222	3302	2933	2600	2298	2023	1775	-1.5	1.4	0	-6.2	-17.8	-35.7
C	7MM Rem Mag	162 gr. InterLock BTSP	8063	2940	2758	2583	2414	2252	2096	3109	2735	2399	2097	1825	1581	-1.5	1.5	0	-6.7	-19.5	-39.1
C	7MM Wby Mag	139 gr. GMX	80666	3300	3091	2891	2701	2519	2343	3361	2948	2580	2252	1958	1695	-1.5	1.1	0	-5.2	-15.2	-30.7
C	7MM Wby Mag	154 gr. InterBond	80689	3200	3010	2829	2655	2488	2326	3501	3098	2737	2410	2116	1850	-1.5	1.2	0	-5.5	-16.0	-32.1
S	30 Carbine	110 gr. FMJ (20" Bbl)	8103	2000	1601	1279	1067	—	—	977	626	399	278	—	—	-0.9	0	-12.9	-47.2	—	
CD	30 Carbine	110 gr. FTX (20" Bbl)	81030	2000	1601	1279	1067	—	—	977	626	399	278	—	—	-0.9	0	-12.9	-47.2	—	
C	300 Whisper	110 gr. V-MAX (16" Bbl)	8089	2375	2094	1834	1597	—	—	1378	1071	821	623	—	—	-1.5	3.2	0	-13.7	—	—
C	300 Whisper	208 gr. A-MAX (16" Bbl)	80892	1020	987	959	—	—	—	480	450	424	—	—	—	-1.5	0	-34.1	—	—	
LE	30-30 Win	140 gr. MonoFlex	82731	2500	2198	1918	1662	—	—	1943	1501	1143	858	—	—	-1.5	2.9	0	-12.4	—	—
C	30-30 Win	150 gr. InterLock RN	8080	2390	1959	1582	1277	—	—	1902	1278	834	543	—	—	-1.5	0	-7.7	-29.5	—	—
LE	30-30 Win	160 gr. FTX	82730	2400	2151	1917	1700	—	—	2046	1643	1305	1027	—	—	-1.5	3.0	0	-12.5	—	—
C	30-30 Win	170 gr. InterLock FP	8085	2200	1796	1451	1186	—	—	1827	1218	795	531	—	—	-1.5	0	-9.4	-35.6	—	—
LE	308 Marlin Express	140 gr. MonoFlex	82734	2800	2532	2279	2040	1818	1613	2437	1992	1614	1294	1027	809	-1.5	2.0	0	-8.7	-25.8	-53.4
LE	308 Marlin Express	160 gr. FTX	82733	2660	2438	2227	2027	1838	1661	2514	2112	1762	1459	1200	980	-1.5	2.2	0	-9.2	-26.9	-54.9
SF	300 Savage	150 gr. SST	82221	2740	2499	2272	2056	1852	1663	2500	2081	1718	1407	1143	921	-1.5	2.1	0	-8.8	-25.8	-53.1
T	308 Win	110 gr. TAP-FPD	80898	3165	2830	2520	2230	1960	1711	2447	1956	1551	1215	938	715	-1.5	1.4	0	-6.9	-20.9	-44.0
SF	308 Win	150 gr. SST	80933	3000	2772	2556	2350	2153	1966	2997	2559	2176	1839	1543	1287	-1.5	1.5	0	-6.8	-20.0	-40.7
SF	308 Win	150 gr. GMX	8094	2940	2715	2502	2298	2103	1919	2879	2455	2084	1758	1473	1226	-1.5	1.6	0	-7.2	-21.0	-42.7
SF	308 Win	150 gr. InterBond	80938	3000	2772	2556	2350	2153	1966	2997	2559	2176	1839	1543	1287	-1.5	1.5	0	-6.8	-20.0	-40.7
C	308 Win	150 gr. InterLock BTSP	8091	2820	2561	2316	2085	1868	1667	2649	2184	1787	1448	1162	925	-1.5	1.9	0	-8.4	-24.9	-51.3
AW	308 Win	150 gr. InterLock BTSP	8090	2820	2561	2316	2085	1868													

# Rifle Ballistics (continued)

Ammo Description				Velocity (fps)						Energy (ft/lb)						Trajectory Tables (inches)					
CARTRIDGE	BULLET	ITEM #	MUZ	100 yd	200 yd	300 yd	400 yd	500 yd	MUZ	100 yd	200 yd	300 yd	400 yd	500 yd	MUZ	100 yd	200 yd	300 yd	400 yd	500 yd	
C	308Win	150 gr. SST	8093	2820	2601	2393	2194	2005	1826	2649	2253	1907	1603	1338	1110	-1.5	1.8	0	-7.9	-23.1	-46.9
M	308Win	155 gr. OTM	8087N	2775	2553	2342	2141	1950	1770	2650	2243	1887	1577	1308	1078	-1.5	1.9	0	-8.3	-24.2	-49.3
M	308Win	155 gr. A-MAX	8095PM	2850	2640	2439	2247	2064	1889	2795	2398	2047	1737	1466	1229	-1.5	1.8	0	-7.6	-22.1	-44.8
S	308Win	155 gr. BTHP	80926	2610	2396	2192	1998	1815	1645	2344	1975	1654	1374	1134	931	-1.5	2.3	0	-9.5	-27.8	-56.7
T	308Win	155 gr. TAP-FPD	80928	2785	2578	2380	2190	2010	1838	2669	2286	1949	1651	1390	1163	-1.5	1.9	0	-8.0	-23.3	-47.3
SF	308Win	165 gr. SST	80983	2840	2636	2440	2253	2074	1904	2955	2545	2182	1860	1577	1328	-1.5	1.8	0	-7.6	-22.1	-44.6
SF	308Win	165 gr. InterBond	80998	2840	2636	2440	2253	2074	1904	2955	2545	2182	1860	1577	1328	-1.5	1.8	0	-7.6	-22.1	-44.6
SF	308Win	165 gr. GMX	8099	2750	2550	2358	2174	1999	1833	2771	2381	2037	1732	1464	1231	-1.5	1.9	0	-8.2	-23.8	-48.1
C	308Win	165 gr. InterLock BTSP	8098	2700	2496	2302	2116	1939	1772	2671	2283	1941	1640	1377	1150	-1.5	2.1	0	-8.6	-25.0	-50.7
M	308Win	168 gr. BTHP	8097	2700	2503	2315	2134	1962	1799	2719	2337	1998	1699	1436	1207	-1.5	2.0	0	-8.5	-24.7	-50.0
M	308Win	168 gr. A-MAX	8096	2700	2513	2334	2162	1998	1841	2719	2356	2032	1744	1489	1264	-1.5	2.0	0	-8.4	-24.3	-48.8
SM	308Win	168 gr. A-MAX	80964	2840	2647	2463	2286	2116	1954	3009	2614	2263	1949	1670	1424	-1.5	1.7	0	-7.5	-21.6	-43.6
T	308Win	168 gr. TAP-FPD	80968	2700	2513	2334	2162	1998	1841	2719	2356	2032	1744	1489	1264	-1.5	2.0	0	-8.4	-24.3	-48.8
M	308Win	178 gr. BTHP	8105	2600	2436	2278	2125	1979	1839	2672	2345	2050	1785	1548	1337	-1.5	2.2	0	-8.9	-25.5	-51.0
SM	308Win	178 gr. BTHP	8077	2780	2609	2445	2287	2134	1987	3054	2691	2363	2066	1800	1561	-1.5	1.8	0	-7.6	-21.9	-43.9
SF	30-06 Sprg	150 gr. InterBond	81098	3080	2848	2628	2418	2218	2028	3159	2701	2300	1948	1639	1370	-1.5	1.4	0	-6.4	-18.8	-38.3
SF	30-06 Sprg	150 gr. SST	81093	3080	2848	2628	2418	2218	2028	3159	2701	2300	1948	1639	1370	-1.5	1.4	0	-6.4	-18.8	-38.3
SF	30-06 Sprg	150 gr. GMX	8112	3080	2848	2628	2418	2218	2028	3159	2701	2300	1948	1639	1370	-1.5	1.4	0	-6.4	-18.8	-38.3
C	30-06 Sprg	150 gr. InterLock SP	8110	2910	2637	2381	2139	1911	1700	2820	2317	1888	1523	1216	963	-1.5	1.8	0	-7.9	-23.5	-48.6
AW	30-06 Sprg	150 gr. InterLock SP	8108	2910	2637	2381	2139	1911	1700	2820	2317	1888	1523	1216	963	-1.5	1.8	0	-7.9	-23.5	-48.6
C	30-06 Sprg	150 gr. SST	8109	2910	2687	2474	2272	2079	1895	2820	2404	2039	1719	1439	1197	-1.5	1.7	0	-7.4	-21.5	-43.7
SF	30-06 Sprg	165 gr. InterBond	81158	2960	2750	2550	2358	2175	2000	3210	2770	2382	2037	1733	1465	-1.5	1.6	0	-6.9	-20.1	-40.6
SF	30-06 Sprg	165 gr. SST	81153	2960	2750	2550	2358	2175	2000	3210	2770	2382	2037	1733	1465	-1.5	1.6	0	-6.9	-20.1	-40.6
SF	30-06 Sprg	165 gr. GMX	8116	2940	2731	2532	2341	2158	1984	3167	2732	2348	2007	1706	1442	-1.5	1.6	0	-7.0	-20.4	-41.3
C	30-06 Sprg	165 gr. BTSP InterLock	8115	2800	2592	2393	2203	2022	1850	2872	2461	2098	1778	1498	1254	-1.5	1.9	0	-7.9	-23.0	-46.7
C	30-06 Sprg	165 gr. SST InterLock	81154	2800	2597	2404	2218	2041	1873	2872	2471	2117	1803	1526	1285	-1.5	1.8	0	-7.9	-22.8	-46.1
M	30-06M1 Garand	168 gr. A-MAX Match	81170	2710	2523	2343	2171	2006	1849	2739	2374	2048	1758	1501	1275	-0.9	2.3	0	-8.6	-24.6	-49.3
SF	30-06 Sprg	180 gr. InterBond	81188	2820	2630	2448	2274	2106	1946	3178	2765	2396	2066	1772	1513	-1.5	1.8	0	-7.6	-21.9	-44.1
SF	30-06 Sprg	180 gr. SST	81183	2820	2630	2448	2274	2106	1946	3178	2765	2396	2066	1772	1513	-1.5	1.8	0	-7.6	-21.9	-44.1
C	30-06 Sprg	180 gr. InterLock SP	8118	2700	2492	2293	2103	1923	1753	2914	2481	2101	1768	1478	1228	-1.5	2.1	0	-8.7	-25.2	-51.2
C	30-06 Sprg	180 gr. SST	81184	2700	2515	2338	2167	2004	1849	2914	2528	2184	1878	1606	1366	-1.5	2.0	0	-8.4	-24.2	-48.7
SF	30TC	150 gr. SST	81004	3000	2772	2556	2350	2153	1966	2997	2559	2176	1839	1543	1287	-1.5	1.5	0	-6.8	-20.0	-40.7
SF	30TC	150 gr. GMX	81006	2920	2696	2483	2280	2087	1903	2840	2421	2054	1732	1450	1206	-1.5	1.7	0	-7.3	-21.3	-43.3
SF	30TC	165 gr. SST	81014	2850	2645	2449	2262	2083	1912	2976	2563	2198	1875	1589	1340	-1.5	1.7	0	-7.5	-21.9	-44.3
SF	300 RCM	150 gr. SST	82231	3310	3065	2834	2615	2406	2207	3649	3129	2675	2277	1928	1622	-1.5	1.1	0	-5.5	-16.0	-32.6
SF	300 RCM	150 gr. GMX	82230	3265	3023	2794	2577	2369	2172	3550	3043	2600	2211	1870	1571	-1.5	1.2	0	-5.6	-16.5	-33.6
SF	300 RCM	165 gr. SST	82232	3185	2964	2754	2554	2362	2178	3716	3218	2778	2389	2044	1738	-1.5	1.2	0	-5.8	-17.0	-34.4
SF	300 RCM	165 gr. InterBond	82227	3185	2964	2754	2554	2362	2178	3716	3218	2778	2389	2044	1738	-1.5	1.2	0	-5.8	-17.0	-34.4
SF	300 RCM	165 gr. GMX	82229	3130	2912	2704	2506	2316	2135	3589	3106	2679	2301	1966	1669	-1.5	1.3	0	-6.1	-17.7	-35.8
SF	300 RCM	180 gr. InterBond	82228	3040	2840	2650	2467	2292	2124	3694	3225	2807	2433	2099	1802	-1.5	1.4	0	-6.4	-18.5	-37.2
SF	300 RCM	180 gr. SST	82235	3040	2840	2650	2467	2292	2124	3694	3225	2807	2433	2099	1802	-1.5	1.4	0	-6.4	-18.5	-37.2
C	300 H&H Mag	180 gr. InterBond	8210	2870	2678	2494	2318	2148	1986	3292	2866	2486	2147	1844	1576	-1.5	1.7	0	-7.3	-21.0	-42.3
SF	300 Win Mag	150 gr. GMX	82012	3400	3150	2914	2691	2479	2276	3850	3304	2829	2412	2046	1725	-1.5	1.0	0	-5.1	-15.1	-30.7
C	300 Win Mag	150 gr. SST	82014	3275	3032	2803	2585	2378	2179	3572	3062	2617	2226	1883	1582	-1.5	1.1	0	-5.6	-16.4	-33.4
C	300 Win Mag	150 gr. InterLock BTSP	8201	3275	2988	2719	2466	2227	2001	3572	2973	2463	2026	1651	1333	-1.5	1.2	0	-5.9	-17.6	-36.3
AW	300 Win Mag	150 gr. InterLock BTSP	8204	3275	2988	2719	2466	2227	2001	3572	2973	2463	2026	1651	1333	-1.5	1.2	0	-5.9	-17.6	-36.3
SF	300 Win Mag	165 gr. InterBond	82028	3260	3035	2822	2618	2424	2237	3893	3374	2917	2511	2152	1834	-1.5	1.2	0	-5.5	-16.1	-32.6
SF	300 Win Mag	165 gr. GMX	82026	3260	3035	2822	2618	2424	2237	3893	3374	2917	2511	2152	1834	-1.5	1.2	0	-5.5	-16.1	-32.6
C	300 Win Mag	165 gr. InterLock BTSP	8202	3100	2877	2666	2464	2271	2087	3521	3033	2604	2224	1889	1595	-1.5	1.4	0	-6.3	-18.3	-37.0
C	300 Win Mag	165 gr. SST	82024	3100	2883	2677	2480	2291	2111	3521	3045	2625	2253	1923	1632	-1.5	1.3	0	-6.2	-18.1	-36.6
M	300 Win Mag	178 gr. A-MAX	8203	2960	2770	2588	2413	2245	2083	3463	3032	2647	2301	1992	1716	-1.5	1.5	0	-6.7	-19.4	-39.0
SF	300 Win Mag	180 gr. InterBond	82198	3130	2926	2732	2546	2368	2196	3915	3422	2983	2591	2240	1928	-1.5	1.3	0	-5.9	-17.2	-34.8
C	300 Win Mag	180 gr. InterLock SP	8200	2960	2739	2530	2329	2138	1956	3502	2999	2557	2168	1826	1529	-1.5	1.6	0	-7.0	-20.4	-41.5
SF	300 Win Mag	180 gr. SST	82193	3130	2926	2732	2546	2368	2196	3915	3422	2983	2591	2240	1928	-1.5	1.3	0	-5.9	-17.2	-34.8
C	300 Win Mag	180 gr. SST	82194	2960	2764	2577	2397	2224	2059	3502	3053	2654	2296	1978	1694	-1.5	1.5	0	-6.8	-19.6	-39.5
M	300 Win Mag	195 gr. BTHP	8218	2930	2760	2596	2438	2286	2138	3717	3297	2918	2574	2262	1980	-1.5	1.5	0	-6.7	-19.3	-38.5
C	300 Wby Mag	150 gr. InterBond	82219	3375	3126	2892	2670	2459	2257	3794	3255	2786	2374	2013	1696	-1.5	1.0	0	-5.2	-15.3	-31.2
C	300 Wby Mag	165 gr. GMX	82220	3140	2921	2713	2515	2325	2143	3612	3126	2697	2317	1980	1682	-1.5	1.3	0	-6.0	-17.5	-35.5
C	300 Wby Mag	180 gr. InterLock SP	8222	3120	2891	2674	2467	2270	2081	3890	3341	2858	2433	2059	1731	-1.5	1.3	0	-6.2	-18.1	-36.9
C	7.62x39MM	123 gr. SST (20" Bbl)	8078	2360	2049	1764	1511	1296	1133	1521	1147	850	623	459	350	-1.5	3.4	0	-14.7	-44.7	-95.6
VM	7.62x54R	174 gr. BTHP (Steel Case)	80518	2650	2463	2284	2113	1949													

# Rifle Ballistics (continued)

Ammo Description			Velocity (fps)							Energy (ft/lb)						Trajectory Tables (inches)					
CARTRIDGE	BULLET	ITEM #	MUZ	100 yd	200 yd	300 yd	400 yd	500 yd	MUZ	100 yd	200 yd	300 yd	400 yd	500 yd	MUZ	100 yd	200 yd	300 yd	400 yd	500 yd	
VM	8x57	196 gr. BTHP	82298	2500	2338	2182	2032	1888	1751	2720	2379	2072	1797	1552	1335	-1.5	2.4	0	-9.8	-27.9	-55.9
C	303 British	150 gr. Interlock SP	82225	2685	2441	2211	1993	1789	1601	2401	1985	1628	1323	1066	854	-1.5	2.2	0	-9.3	-27.4	-56.4
VM	303 British	174 gr. BTHP	82228	2430	2252	2082	1919	1765	1621	2281	1959	1674	1423	1204	1015	-1.5	2.7	0	-10.7	-30.9	-62.3
LE	338 Marlin Exp	200 gr. FTX	82240	2565	2365	2174	1992	1820	1659	2922	2484	2099	1763	1471	1221	-1.5	2.4	0	-9.7	-28.3	-57.3
SF	338 RCM	185 gr. GMX	82238	2980	2756	2543	2339	2145	1961	3648	3119	2656	2248	1891	1579	-1.5	1.6	0	-6.9	-20.2	-41.1
SF	338 RCM	200 gr. SST	82237	2950	2744	2548	2359	2179	2007	3865	3344	2882	2472	2108	1788	-1.5	1.6	0	-6.9	-20.1	-40.7
SF	338 RCM	225 gr. InterBond	82138	2750	2575	2408	2246	2091	1942	3778	3314	2896	2521	2184	1884	-1.5	1.9	0	-7.9	-22.7	-45.5
SF	338 RCM	225 gr. SST	82236	2750	2575	2408	2246	2091	1942	3778	3314	2896	2521	2184	1884	-1.5	1.9	0	-7.9	-22.7	-45.5
SF	338 Win Mag	185 gr. GMX	82226	3080	2851	2633	2426	2228	2039	3897	3338	2848	2417	2038	1708	-1.5	1.4	0	-6.4	-18.8	-38.2
SF	338 Win Mag	200 gr. SST	82223	3030	2820	2620	2429	2246	2071	4077	3532	3049	2621	2240	1904	-1.5	1.4	0	-6.5	-18.9	-38.3
C	338 Win Mag	225 gr. SST	82234	2785	2609	2440	2277	2121	1971	3875	3401	2975	2591	2247	1940	-1.5	1.8	0	-7.6	-22.0	-44.1
SF	338 Win Mag	225 gr. InterBond	82338	2840	2662	2491	2326	2168	2016	4029	3540	3100	2704	2348	2030	-1.5	1.7	0	-7.3	-21.1	-42.2
SF	338 Win Mag	225 gr. SST	82233	2840	2662	2491	2326	2168	2016	4029	3540	3100	2704	2348	2030	-1.5	1.7	0	-7.3	-21.1	-42.2
M	338 Lapua	250 gr. BTHP	8230	2900	2761	2626	2495	2368	2244	4668	4230	3827	3455	3112	2796	-1.5	1.5	0	-6.6	-18.8	-37.1
M	338 Lapua	285 gr. BTHP	82306	2745	2616	2491	2369	2251	2136	4768	4331	3926	3552	3206	2887	-1.5	1.8	0	-7.4	-21.0	-41.5
LE	35 Rem	200 gr. FTX	82735	2225	1963	1722	1505	—	—	2198	1711	1317	1006	—	—	-1.5	3.8	0	-15.6	—	—
SF	35 Whelen	200 gr. SP	81193	2910	2585	2283	2001	1742	1509	3760	2968	2314	1778	1347	1012	-1.5	1.9	0	-8.6	-25.9	-54.8
C	358 Win	200 gr. SP	91318	2475	2180	1906	1655	1434	1248	2720	2110	1612	1217	913	692	-1.5	2.9	0	-12.6	-37.9	-80.3
DG	9.3x62mm	286 gr. SP-RP	82303	2360	2155	1961	1778	1608	1453	3537	2949	2442	2008	1642	1341	-1.5	0	-6.0	-21.1	-47.2	-86.8
DG	9.3x74R	286 gr. SP-RP	82304	2360	2155	1961	1778	1608	1453	3537	2949	2442	2008	1642	1341	-1.5	3.0	-6.0	-21.1	-47.2	-86.8
DG	376 Steyr	225 gr. InterLock SP-RP	8234	2600	2331	2079	1843	1627	1433	3377	2715	2159	1697	1322	1026	-1.5	2.5	0	-10.5	-31.4	-65.4
DG	376 Steyr	270 gr. InterLock SP-RP	8237	2600	2373	2157	1953	1761	1584	4053	3375	2789	2286	1859	1505	-1.5	2.4	0	-9.8	-28.8	-59.1
DG	375 H&H	270 gr. SP-RP SPF	8508	2800	2562	2337	2123	1921	1732	4700	3936	3275	2703	2213	1798	-1.5	1.9	0	-8.3	-24.3	-49.8
DG	375 H&H	270 gr. SP-RP	82312	2700	2468	2247	2038	1841	1657	4370	3650	3027	2490	2032	1647	-1.5	2.1	0	-9.0	-26.5	-54.2
DG	375 H&H	300 gr. DGS SPF	8509	2660	2345	2052	1782	1539	1330	4713	3662	2804	2114	1577	1177	-1.5	2.4	0	-10.8	-32.6	-69.2
DG	375 H&H	300 gr. DGS	82322	2530	2224	1939	1680	1450	1257	4264	3293	2506	1879	1400	1052	-1.5	2.8	0	-12.1	-36.6	-77.8
DG	375 H&H	300 gr. DGX	82332	2530	2224	1939	1680	1450	1257	4264	3293	2506	1879	1400	1052	-1.5	2.8	0	-12.1	-36.6	-77.8
DG	375 Ruger	270 gr. SP-RP	8231	2840	2600	2373	2158	1953	1762	4835	4054	3377	2791	2288	1861	-1.5	1.8	0	-8.0	-23.6	-48.2
DG	375 Ruger	300 gr. DGS	8232	2660	2345	2052	1782	1539	1330	4713	3662	2804	2114	1577	1177	-1.5	2.4	0	-10.8	-32.6	-69.2
DG	375 Ruger	300 gr. DGX	82333	2660	2345	2052	1782	1539	1330	4713	3662	2804	2114	1577	1177	-1.5	2.4	0	-10.8	-32.6	-69.2
DG	404 Jeffery	400 gr. DGX	8238	2300	2053	1823	1611	—	—	4698	3743	2950	2306	—	—	-1.5	0	-6.8	-24.1	—	—
DG	404 Jeffery	400 gr. DGS	8239	2300	2053	1823	1611	—	—	4698	3743	2950	2306	—	—	-1.5	0	-6.8	-24.1	—	—
C	405 Win	300 gr. InterLock SP	8241	2200	1890	1612	1371	—	—	3224	2380	1730	1252	—	—	-1.5	0	-8.3	-30.2	—	—
DG	416 Rem Mag	400 gr. DGX	82673	2400	2142	1901	1679	—	—	5116	4076	3211	2504	—	—	-1.5	3.1	0	-12.7	—	—
DG	416 Rem Mag	400 gr. DGS	82674	2400	2142	1901	1679	—	—	5116	4076	3211	2504	—	—	-1.5	3.1	0	-12.7	—	—
DG	416 Ruger	400 gr. DGX	82665	2400	2142	1901	1679	—	—	5116	4076	3211	2504	—	—	-1.5	3.1	0	-12.7	—	—
DG	416 Ruger	400 gr. DGS	82666	2400	2142	1901	1679	—	—	5116	4076	3211	2504	—	—	-1.5	3.1	0	-12.7	—	—
DG	416 Rigby	400 gr. DGX	82663	2415	2156	1915	1691	—	—	5180	4130	3256	2540	—	—	-1.5	0	-6.0	-21.6	—	—
DG	416 Rigby	400 gr. DGS	8265	2415	2156	1915	1691	—	—	5180	4130	3256	2540	—	—	-1.5	0	-6.0	-21.6	—	—
SF	444 Marlin	265 gr. InterLock FP	82453	2400	1974	1601	1295	—	—	3389	2294	1508	987	—	—	-1.5	3.8	0	-17.5	—	—
LE	444 Marlin	265 gr. FTX	82744	2325	1971	1654	1381	—	—	3181	2286	1609	1123	—	—	-1.5	3.8	0	-16.6	—	—
LE	45-70 Govt	250 gr. MonoFlex	82741	2025	1616	1285	1068	—	—	2276	1449	917	634	—	—	-1.5	6.1	0	-27.2	—	—
LE	45-70 Govt	325 gr. FTX	82747	2000	1685	1413	1197	—	—	2886	2049	1441	1035	—	—	-1.5	5.5	0	-23.0	—	—
LE	450 Marlin	325 gr. FTX	82750	2225	1887	1587	1332	—	—	3572	2570	1816	1280	—	—	-1.5	4.2	0	-18.1	—	—
C	450 Marlin	350 gr. InterLock FP	8250	2100	1720	1398	1156	—	—	3427	2299	1518	1038	—	—	-1.5	0	-10.4	-38.9	—	—
DG	450/400 Nit Exp	400 gr. DGS	8242	2050	1820	1609	1420	—	—	3732	2940	2298	1791	—	—	-0.9	0	-9.7	-32.8	—	—
DG	450/400 Nit Exp	400 gr. DGX	82433	2050	1820	1609	1420	—	—	3732	2940	2298	1791	—	—	-0.9	0	-9.7	-32.8	—	—
DG	450 Nitro Express	480 gr. DGX	8255	2150	1881	1635	1418	—	—	4927	3769	2850	2144	—	—	-1.5	0	-8.4	-29.9	—	—
DG	450 Nitro Express	480 gr. DGS	8256	2150	1881	1635	1418	—	—	4927	3769	2850	2144	—	—	-1.5	0	-8.4	-29.9	—	—
C	450 Bushmaster	250 gr. FTX (20" Bbl)	82244	2200	1835	1515	1255	—	—	2687	1868	1274	874	—	—	-2.4	4.1	0	-19.3	—	—
DG	458 Win Mag	500 gr. DGX	85833	2140	1880	1643	1432	—	—	5084	3924	2996	2276	—	—	-1.5	0	-8.4	-29.8	—	—
DG	458 Win Mag	500 gr. DGS	8585	2140	1880	1643	1432	—	—	5084	3924	2996	2276	—	—	-1.5	0	-8.4	-29.8	—	—
DG	458 Lott	500 gr. DGX	82613	2300	2029	1778	1551	—	—	5873	4569	3509	2671	—	—	-1.5	0	-7.0	-25.1	—	—
DG	458 Lott	500 gr. DGS	8262	2300	2029	1778	1551	—	—	5873	4569	3509	2671	—	—	-1.5	0	-7.0	-25.1	—	—
DG	470 Nitro Express	500 gr. DGX	8263	2150	1885	1643	1429	—	—	5132	3945	2998	2267	—	—	-0.9	0	-8.9	-30.8	—	—
DG	470 Nitro Express	500 gr. DGS	8264	2150	1885	1643	1429	—	—	5132	3945	2998	2267	—	—	-0.9	0	-8.9	-30.8	—	—
DG	500 Nitro Express	570 gr. DGX	8268	2150	1889	1651	1439	—	—	5850	4518	3450	2621	—	—	-0.9	0	-8.9	-30.6	—	—
DG	500 Nitro Express	570 gr. DGS	8269	2150	1889	1651	1439	—	—	5850	4518	3450	2621	—	—	-0.9	0	-8.9	-30.6	—	—
M	50 BMG	750 gr. A-MAX (36" Bbl)	8270	2815	2727	2641	2557	2474	2393	13196	12386	11619	10889	10196	9538	-1.8	1.4	0	-6.4	-18.2	-35.6

# Handgun Ballistics

## Hornady® Product Lines:

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

Ammo Description					Velocity (fps)			Energy (ft/lb)		
CARTRIDGE	BULLET	ITEM #	BARREL LENGTH		MUZZLE	50 yds	100 yds	MUZZLE	50 yds	100 yds
CD	22 WMR	45 gr. FTX	83200	1 7/8 V"	1000	920	857	100	85	73
C	25 Auto	35 gr. XTP	90012	2"	900	813	742	63	51	43
C	32 Auto	60 gr. XTP	90062	4"	1000	905	833	133	109	92
CD	32 NAA	80 gr. FTX	90070	4"	1000	933	880	178	155	137
CD	32 H&R	80gr. FTX	90060	4"	1150	1039	963	235	192	165
C	380 Auto	90 gr. XTP	90102	4"	1000	912	845	200	166	143
CD	380 Auto	90 gr. FTX	90080	4"	1000	912	845	200	166	143
C	9MM Luger	115 gr. XTP	90252	4"	1155	1038	958	341	275	234
S	9MM Luger	115 gr. HAP	90271	4"	1155	1038	958	341	275	234
CD	9MM Luger	115 gr. FTX	90250	4"	1135	1025	949	329	268	230
C	9MM Luger	124 gr. XTP	90242	4"	1110	1027	965	339	290	257
T	9MM Luger	124 gr. TAP-FPD	90248	4"	1110	1027	965	339	290	257
S	9MM Luger	125 gr. HAP	90275	4"	1110	1024	960	342	291	256
DUTY	9MM Luger	135 gr. FlexLock	90236	4"	1010	960	918	306	276	253
DUTY	9MM Luger +P	135 gr. FlexLock	90226	4"	1110	1038	983	369	323	289
C	9MM Luger	147 gr. XTP	90282	4"	975	934	899	310	285	264
C	9 x 18MM Makarov	95 gr. XTP	91002	4"	1000	929	873	211	182	161
CD	9 x 18MM Makarov	95 gr. FTX	91000	4"	1000	913	846	211	176	151
CD	38 Special Lite	90 gr. FTX	90300	4"	1200	1037	938	288	215	176
CD	38 Special	110 gr. FTX	90310	4" V	1010	939	882	249	215	190
CD	38 Special+P	110 gr. FTX	90311	4" V	1090	996	928	290	242	210
C	38 Special	125 gr. XTP	90322	4" V	900	856	817	225	203	185
C	38 Special	158 gr. XTP	90362	4" V	800	775	751	225	210	198
CD	357 Magnum	125 gr. FTX	90500	8" V	1500	1312	1163	624	478	376
C	357 Magnum	125 gr. XTP	90502	8" V	1500	1313	1165	624	479	377
C	357 Magnum	140 gr. XTP	90552	8" V	1350	1207	1099	567	453	375
LE	357 Magnum	140 gr. FTX	92755	8" V	1440	1281	1154	645	510	414
C	357 Magnum	158 gr. XTP	90562	8" V	1250	1149	1072	548	463	403
C	357 SIG	124 gr. XTP	9130	4"	1350	1204	1095	502	399	330
C	357 SIG	147 gr. XTP	9131	4"	1225	1132	1060	490	418	367
C	40 S&W	155 gr. XTP	9132	4"	1180	1060	978	479	387	329
T	40 S&W	155 gr. TAP-FPD	91328	4"	1180	1060	978	479	387	329
CD	40 S&W	165 gr. FTX	91340	3"	1045	971	914	400	345	306
DUTY	40 S&W	175 gr. FlexLock	91376	4"	1010	948	899	396	350	314
S	40 S&W	180 gr. HAP	91362	4"	950	902	861	361	325	297
C	40 S&W	180 gr. XTP	9136	4"	950	902	861	361	325	297
C	10MM Auto	155 gr. HP/XTP	9122	5"	1265	1118	1018	551	430	357
C	10MM Auto	180 gr. XTP	9126	5"	1180	1077	1002	556	463	402
C	10MM Auto	200 gr. XTP	9129	5"	1050	993	947	490	438	398
C	44-40 Cowboy	205 gr. Cowboy	9075	7 1/2" V	725	689	655	239	216	195
CD	44 Special	165 gr. FTX	90700	2.5" V	900	847	802	297	263	235
C	44 Special	180 gr. XTP	9070	7 1/2" V	1000	934	881	400	349	310
C	44 Rem Mag	180 gr. XTP	9081	7 1/2" V	1550	1339	1172	960	716	549
C	44 Rem Mag	200 gr. XTP	9080	7 1/2" V	1500	1332	1194	999	788	633
LE	44 Rem Mag	225 gr. FTX	92782	7 1/2" V	1410	1233	1102	993	760	607
C	44 Rem Mag	240 gr. XTP	9085	7 1/2" V	1350	1230	1133	971	806	684
C	44 Rem Mag	300 gr. XTP	9088	7 1/2" V	1150	1083	1030	881	781	706
C	45 Auto	185 gr. XTP	9090	5"	970	911	862	386	341	305
CD	45 Auto	185 gr. FTX	90900	3"	900	853	811	333	299	270
S	45 Auto	185 gr. HAP	90982	3"	900	853	811	333	299	270
C	45 Auto	200 gr. XTP	9112	5"	900	856	817	360	325	296
T	45 Auto +P	200 gr. TAP-FPD	91128	5"	1055	981	924	494	427	379
DUTY	45 Auto +P	220 gr. FlexLock	90926	5"	975	927	887	464	420	384
C	45 Auto +P	200 gr. XTP	9113	5"	1055	981	924	494	427	379
C	45 Auto +P	230 gr. XTP	9096	5"	950	908	871	461	421	388
C	45 Auto	230 gr. FMJRN ENC	9097	5"	850	819	790	369	342	319
T	45 Auto +P	230 gr. TAP-FPD	90958	5"	950	908	871	461	421	388
S	45 ACP	230 gr. HAP	90985	5"	850	819	790	369	342	319
CD	45 Colt	185 gr. FTX	92790	3" V	920	870	826	348	311	280
C	45 Colt	255 gr. Cowboy	9115	4 3/4" V	725	687	651	298	267	240
LE	45 Colt	225 gr. FTX	92792	4 3/4" V	960	903	855	460	407	366
C	454 Casull	240 gr. XTP MAG	9148	7 1/2" V	1900	1678	1478	1924	1500	1164
C	454 Casull	300 gr. XTP MAG	9150	7 1/2" V	1650	1474	1319	1813	1447	1158
LE	460 S&W	200 gr. FTX	9152	8 3/8"	2200	1941	1703	2149	1673	1288
C	475 Linebaugh	400 gr. XTP MAG	9140	7 1/2"	1300	1176	1083	1501	1229	1041
C	480 Ruger	325 gr. XTP MAG	9138	7 1/2"	1350	1191	1077	1315	1024	837
C	480 Ruger	400 gr. XTP MAG	9144	7 1/2"	1100	1026	970	1075	935	835
C	50 AE	300 gr. XTP/HP	9245	6"	1475	1251	1092	1449	1043	795
LE	500 S&W	300 gr. FTX	9249	8 1/2"	1950	1653	1396	2533	1819	1298
C	500 S&W	350 gr. XTP MAG	9250	8 1/2"	1700	1478	1289	2246	1697	1290
C	500 S&W	500 gr. FP-XTP	9252	8 1/2"	1300	1178	1085	1876	1541	1308

# Shotgun/Muzzleloader Ballistics

## Shotgun Ammunition

Ammo Description			Velocity (fps)					Energy (ft/lb)					Trajectory Tables (inches)				
AMMO DESCRIPTION	WEIGHT	ITEM #	MUZ	50 yd	100 yd	150 yd	200 yd	MUZ	50 yd	100 yd	150 yd	200 yd	MUZ	50 yd	100 yd	150 yd	200 yd
20 ga. SST Shotgun Slug	250 gr.	86232	1800	1628	1471	1331	1212	1798	1471	1201	983	815	-1.5	2.6	3.3	0.0	-8.2
20 ga. Superformance Shotgun Slug	250 gr.	86237	1800	1628	1471	1331	1212	1798	1471	1201	983	815	-1.5	2.6	3.3	0.0	-8.2
12 ga. SST Shotgun Slug	300 gr.	8623	2000	1814	1641	1483	1342	2664	2192	1795	1465	1199	-1.5	1.9	2.6	0.0	-6.5
12 ga. Superformance Shotgun Slug	300 gr.	86236	1950	1742	1552	1383	1239	2533	2022	1605	1274	1022	-1.5	2.1	2.9	0.0	-7.4
12 ga. SST Lite Shotgun Slug	300 gr.	86230	1575	1423	1289	1178	1091	1652	1348	1107	924	793	-1.5	3.6	4.5	0.0	-10.7

AMMO DESCRIPTION	SHELL LENGTH	ITEM #	10 yds
12 Gauge #4 Buck	2 3/4"	86243	1299
12 Gauge Critical Defense 00 Buck (8 Pellets)	2 3/4"	86240	1510
12 Gauge Superformance 00 Buck (8 Pellets)	2 3/4"	86246	1510
12 Gauge TAP-FPD 00 Buck (8 Pellets)	2 3/4"	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 (inches)					
DESCRIPTION	WEIGHT	ITEM #	MUZ	50 yd	100 yd	150 yd	200 yd	250 yd	MUZ	50 yd	100 yd	150 yd	200 yd	250 yd	MUZ	50 yd	100 yd	150 yd	200 yd	250 yd
45 Cal. SST-ML Low Drag Sabot	200 gr.	67132	2325	2171	2022	1880	1744	1616	2400	2092	1815	1569	1351	1160	-1.5	2.0	3.0	2.0	-1.0	-7.1
50 Cal. SST-ML Lock-N-Load Speed Sabot	250 gr.	67270	2250	2031	1852	1684	1529	1389	2735	2290	1904	1574	1297	1070	-1.5	1.8	3.0	1.7	-2.7	-11.0
50 Cal. SST-ML Low Drag Sabot	250 gr.	67273	2250	2031	1852	1684	1529	1389	2735	2290	1904	1574	1297	1070	-1.5	1.8	3.0	1.7	-2.7	-11.0
50 Cal. MonoFlex Lock-N-Load Speed Sabot	250 gr.	67269	2250	2031	1852	1684	1529	1389	2735	2290	1904	1574	1297	1070	-1.5	1.8	3.0	1.7	-2.7	-11.0
50 Cal. MonoFlex High Speed Low Drag Sabot	250 gr.	67274	2250	2031	1852	1684	1529	1389	2735	2290	1904	1574	1297	1070	-1.5	1.8	3.0	1.7	-2.7	-11.0
50 Cal. SST-ML Lock-N-Load Speed Sabot	300 gr.	67271	2130	1974	1826	1686	1554	1433	3022	2597	2221	1893	1609	1368	-1.5	1.9	3.0	1.6	-2.9	-11.1
50 Cal. SST-ML Low Drag Sabot	300 gr.	67263	2130	1974	1826	1686	1554	1433	3022	2597	2221	1893	1609	1368	-1.5	1.9	3.0	1.6	-2.9	-11.1
50 Cal. FPB (150 gr. charge)	300 gr.	6605	2100	1942	1792	1650	1518	1397	2937	2512	2139	1814	1535	1301	-0.9	2.2	3.0	1.1	-8.1	-12.9
50 Cal. FPB (100 gr. charge)	300 gr.	6605	1800	1658	1525	1404	1295	1202	2158	1830	1549	1313	1117	962	-0.9	2.7	3.0	-0.3	-8.1	-21.1
50 Cal. FPB (150 gr. charge)	350 gr.	6600	1950	1821	1697	1581	1473	1372	2955	2577	2238	1942	1685	1463	-1.5	2.0	3.0	0.9	-4.7	-14.2
50 Cal. FPB (100 gr. charge)	350 gr.	6600	1620	1509	1406	1312	1230	1159	2039	1769	1536	1338	1176	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 case feeder plates are used with the Lock-N-Load® Case Feeder featured on page 62. 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			
9MM	10MM Auto	17 Hornet	6MM Rem.	.284 Win.	.356 Win.	.300 RCM
9 x 21	.357 Mag.	7.62 x 39	6.5MM Rem. Mag.	.30 Rem.	.358 Win.	.300 Rem. Saum
.38 Super	.357 Rem. Max.	.17 Rem.	6.5 x 55 Swedish Mauser	.30-06 Springfield	.375 H&H Mag.	.300 WSM
9 x 18 Makarov	.38 Long Colt	.218 Bee	7MM Mauser (7 x 57)	.30-30 Win.	.375 Win.	.300 Dakota
9MM Win Mag.	.38 Short Colt	204 Ruger	7MM Rem. Mag.	.30-40 Krag	.38-55 Win.	30 T/C
.30 Luger	.38 S&W	.22 Hornet	7MM WBY Mag.	.300 H&H Mag.	.416 Rem. Mag.	.300 Rem. Ultra Mag.
32 ACP	.38 Spl.	.222 Rem./Rem. Mag.	7MM-08 Rem.	.300 Savage	.416 Rigby	.338 RCM
.32 H&R Mag	.41 Rem. Mag.	.223 Rem. (5.56MM)	7-30 Waters	.300 WBY Mag.	.444 Marlin	.338 Win. Mag.
.32 Long Colt	.44 Spl/Mag.	6.5 Grendel	8MM Mauser (8 x 57)	.300 Win. Mag.	.45-70 Govt.	.338 Rem. Ultra Mag.
.32 Short Colt	.45 ACP	.30 Carbine	8MM Rem. Mag.	.303 British	.458 Win. Mag.	.340 WBY Mag.
.32 S&W	.45 Auto Rim.	300 Whisper	.22-250	.303 Savage	.458 Lott	.375 Ruger
.32 S&W LRG	.45 Colt	.32-20 Win	.220 Swift	.307 Win.	.450 Marlin	.378 WBY Mag.
.380 Auto	.45 Win. Mag.	.351 Win. Self Loading	.225 Win.	.308 Win.	.376 Steyr	.404 Jeffery
.40 S&W	.454 Casull	.25-20 Win.	.243 Win.	.32 Rem.	.405 Win.	.460 S&W
	9 x 25		.25-06	.32 Win. Spl.	.240 WBY Mag.	.460 WBY Mag.
	.22 Rem. Jet		.25-35 Win.	.32-40 Win.	.257 WBY Mag.	50 AE
	.256 Win. Mag.		.250 Savage	.338 Win. Mag.	.270 WBY Mag.	500 S&W
	.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.	