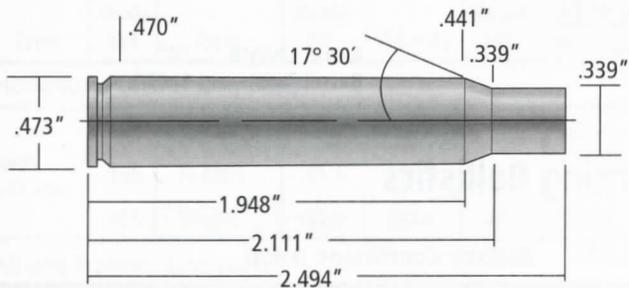


30-06 Springfield



Origin	USA
Ammunition Available	1906
Bullet Diameter	0.308"
Maximum Cartridge O.A.L.	3.340"
Maximum Case Length	2.494"
Trim Length	2.484"

About the Cartridge

The 30-06 Springfield is as American as apple pie and baseball, while at the same time ammunition for it can be had in virtually every country throughout the world where sporting ammunition is sold. For the one-gun hunter in North America, the nearly 100-year-old 30-06 is often recommended as the best cartridge choice. It is the ultimate do-everything round. At the same time, the 30-06 is decidedly shootable, without a lot of muzzle blast or recoil, unlike bigger-cased 30-caliber magnums. Hunters manage its recoil more readily without a flinch and usually place shots more precisely with it than with the younger magnum rounds. The 30-06 established an excellent reputation in the game fields long before today's popular belted magnums were introduced. For many years the 30-06 topped the popularity list and is the most successful centerfire cartridge ever developed.



Bullet Specifications

Scirocco™ Spitzer (.308" diameter)

Grain Weight		B.C.	Sec. Den.
150		.430	.226
	1.270"		
165		.470	.248
	1.350"		
180		.520	.271
	1.435"		

A-Frame™ Semi-Spitzer (.308" diameter)

Grain Weight		B.C.	Sec. Den.
165		.367	.248
	1.140"		
180		.400	.271
	1.215"		
200		.444	.301
	1.315"		

Loaded Cartridge Example

Scirocco™
(180 grain)

A-Frame™
(180 grain)



Reloading Data

150 Grain Scirocco™



Bullet		Powder	Starting Load		Maximum Load		
Type	Grain Wt.	Type	Grain Wt.	Velocity	Grain Wt.	Velocity	Load Density
Hodgdon Powder Company							
Swift Scirocco	150	H-414	52.5	2736	56.5	2955	95%
	150	H-4350	53.0	2618	57.0	2911	96%
	150	Varget	47.4	2645	51.0	2890	86%
Alliant Powder Company							
Swift Scirocco	150	RL-15	47.0	2659	50.5	2900	85%
	150	RL-19	53.9	2563	58.0	2833	97%
	150	*RL-22	57.7	2581	62.0	2815	104%
IMR Powder Company							
Swift Scirocco	150	IMR-4064	46.5	2629	50.0	2927	84%
	150	IMR-4350	52.5	2656	56.5	2928	95%
	150	IMR-4831	53.9	2617	58.0	2884	97%

*Lowest Standard Deviation on Velocity

■ Indicates maximum load—never exceed maximum load!
Loads less than minimum charges shown are not recommended

30-06 Springfield 150 Grain Scirocco™

Test Components

Case	Federal	Barrel Length	24"
Primer	Federal 210	Barrel Twist	1-10"
Test Barrel	Wiseman		

Optimum Hunting Ballistics

200 yard zero

Sectional Density: 0.226 Ballistic Coefficient: 0.430

Distance in Yards	Muzz.	100	150	200	250	300	350	400	500
Velocity	2750	2541	2441	2342	2246	2152	2060	1971	1799
Energy	2519	2152	1985	1828	1681	1543	1414	1294	1079
Bullet Path	-1.5	+1.9	+1.7	zero	-3.3	-8.3	-15.2	-24.1	-48.9
Deflection @ 10 MPH	--	0.8	1.8	3.2	5.1	7.5	10.5	14.0	22.8
Velocity	2800	2589	2487	2388	2291	2195	2103	2012	1838
Energy	2612	2233	2061	1899	1748	1606	1473	1349	1126
Bullet Path	-1.5	+1.8	+1.6	zero	-3.2	-8.0	-14.6	-23.1	-47.0
Deflection @ 10 MPH	--	0.8	1.7	3.1	5.0	7.3	10.2	13.6	22.2
Velocity	2850	2637	2534	2433	2335	2239	2145	2053	1877
Energy	2706	2316	2139	1973	1816	1670	1533	1405	1174
Bullet Path	-1.5	+1.8	+1.6	zero	-3.0	-7.6	-14.0	-22.2	-45.1
Deflection @ 10 MPH	--	0.7	1.7	3.1	4.9	7.2	9.9	13.3	21.6
Velocity	2900	2684	2580	2479	2379	2282	2188	2095	1917
Energy	2802	2401	2218	2047	1886	1735	1594	1462	1224
Bullet Path	-1.5	+1.7	+1.5	zero	-2.9	-7.3	-13.4	-21.4	-43.3
Deflection @ 10 MPH	--	0.7	1.6	3.0	4.7	7.0	9.7	12.9	21.1
Velocity	2950	2732	2627	2524	2424	2326	2230	2136	1956
Energy	2899	2487	2299	2123	1957	1802	1657	1520	1274
Bullet Path	-1.5	+1.6	+1.4	zero	-2.8	-7.1	-12.9	-20.5	-41.7
Deflection @ 10 MPH	--	0.7	1.6	2.9	4.6	6.8	9.4	12.6	20.5

Reloading Data

165 Grain Scirocco™



Bullet		Powder	Starting Load		Maximum Load		
Type	Grain Wt.	Type	Grain Wt.	Velocity	Grain Wt.	Velocity	Load Density
Hodgdon Powder Company							
Swift Scirocco	165	H-414	50.7	2640	54.5	2829	94%
	165	H-4350	51.2	2520	55.0	2772	95%
	165	Varget	46.0	2546	49.5	2764	85%
Alliant Powder Company							
Swift Scirocco	165	*RL-15	45.6	2550	49.0	2764	85%
	165	RL-19	52.5	2503	56.5	2736	98%
	165	RL-22	54.9	2416	59.0	2729	102%
IMR Powder Company							
Swift Scirocco	165	*IMR-4064	45.1	2530	48.5	2804	84%
	165	IMR-4350	49.8	2439	53.5	2761	92%
	165	IMR-4831	52.1	2496	56.0	2786	97%

*Lowest Standard Deviation on Velocity

■ Indicates maximum load—never exceed maximum load!
Loads less than minimum charges shown are not recommended

30-06 Springfield

165 Grain Scirocco™

Test Components

Case	Federal	Barrel Length	24"
Primer	Federal 210	Barrel Twist	1-10"
Test Barrel	Wiseman		

Optimum Hunting Ballistics

200 yard zero

Sectional Density: 0.248 Ballistic Coefficient: 0.470

Distance in Yards	Muzz.	100	150	200	250	300	350	400	500
Velocity	2650	2463	2372	2284	2197	2112	2028	1947	1791
Energy	2574	2223	2062	1911	1768	1634	1508	1390	1176
Bullet Path	-1.5	+2.1	+1.8	zero	-3.5	-8.8	-16.1	-25.4	-51.2
Deflection @ 10 MPH	--	0.7	1.7	3.1	4.9	7.2	10.0	13.3	21.7
Velocity	2700	2511	2419	2330	2242	2156	2072	1989	1831
Energy	2672	2310	2145	1989	1842	1703	1573	1450	1229
Bullet Path	-1.5	+2.0	+1.7	zero	-3.3	-8.4	-15.4	-24.4	-49.1
Deflection @ 10 MPH	--	0.7	1.7	3.0	4.8	7.0	9.7	13.0	21.1
Velocity	2750	2559	2466	2375	2287	2200	2115	2031	1871
Energy	2771	2399	2229	2068	1916	1773	1639	1512	1283
Bullet Path	-1.5	+1.9	+1.7	zero	-3.2	-8.1	-14.8	-23.4	-47.1
Deflection @ 10 MPH	--	0.7	1.6	2.9	4.6	6.8	9.5	12.6	20.5
Velocity	2800	2607	2513	2421	2332	2244	2158	2073	1911
Energy	2873	2490	2314	2149	1992	1845	1706	1576	1338
Bullet Path	-1.5	+1.8	+1.6	zero	-3.1	-7.8	-14.2	-22.4	-45.2
Deflection @ 10 MPH	--	0.7	1.6	2.8	4.5	6.6	9.2	12.3	19.9
Velocity	2850	2654	2560	2467	2377	2288	2201	2116	1951
Energy	2977	2582	2402	2231	2070	1918	1775	1640	1395
Bullet Path	-1.5	+1.7	+1.5	zero	-3.0	-7.4	-13.6	-21.5	-43.4
Deflection @ 10 MPH	--	0.7	1.5	2.8	4.4	6.5	9.0	12.0	19.4

Reloading Data

180 Grain Scirocco™



Bullet		Powder	Starting Load		Maximum Load		
Type	Grain Wt.	Type	Grain Wt.	Velocity	Grain Wt.	Velocity	Load Density
Hodgdon Powder Company							
Swift Scirocco	180	H-414	48.4	2462	52.0	2678	92%
	180	*H-4350	50.7	2474	54.5	2700	97%
	180	H-4831	56.7	2447	61.0	2718	108%
Alliant Powder Company							
Swift Scirocco	180	RL-15	43.7	2400	47.0	2659	83%
	180	RL-19	53.5	2500	57.5	2709	102%
	180	RL-22	55.8	2456	60.0	2699	107%
IMR Powder Company							
Swift Scirocco	180	IMR-4064	42.8	2351	46.0	2657	82%
	180	IMR-4350	49.8	2426	53.5	2707	95%
	180	IMR-4831	53.0	2503	57.0	2748	101%

*Lowest Standard Deviation on Velocity

■ Indicates maximum load—never exceed maximum load!
Loads less than minimum charges shown are not recommended

30-06 Springfield

180 Grain Scirocco™

Test Components

Case	Federal	Barrel Length	24"
Primer	Federal 210	Barrel Twist	1-10"
Test Barrel	Wiseman		

Optimum Hunting Ballistics

200 yard zero

Sectional Density: 0.271 Ballistic Coefficient: 0.520

Distance in Yards	Muzz.	100	150	200	250	300	350	400	500
Velocity	2550	2384	2304	2225	2147	2071	1997	1924	1784
Energy	2600	2273	2122	1979	1843	1715	1594	1480	1272
Bullet Path	-1.5	+2.3	+2.0	zero	-3.7	-9.3	-17.0	-26.8	-53.7
Deflection @ 10 MPH	--	0.7	1.6	2.9	4.7	6.8	9.4	12.6	20.4
Velocity	2600	2432	2351	2271	2193	2116	2041	1967	1825
Energy	2703	2365	2210	2062	1922	1790	1665	1547	1331
Bullet Path	-1.5	+2.2	+1.9	zero	-3.6	-8.9	-16.3	-25.7	-51.4
Deflection @ 10 MPH	--	0.7	1.6	2.8	4.5	6.6	9.2	12.2	19.8
Velocity	2650	2481	2398	2317	2238	2160	2084	2010	1865
Energy	2808	2460	2299	2147	2003	1866	1737	1615	1391
Bullet Path	-1.5	+2.1	+1.8	zero	-3.4	-8.6	-15.6	-24.6	-49.2
Deflection @ 10 MPH	--	0.7	1.5	2.8	4.4	6.4	8.9	11.9	19.2
Velocity	2700	2529	2445	2364	2284	2205	2128	2052	1906
Energy	2914	2556	2391	2234	2085	1944	1810	1684	1453
Bullet Path	-1.5	+2.0	+1.7	zero	-3.3	-8.2	-14.9	-23.6	-47.2
Deflection @ 10 MPH	--	0.7	1.5	2.7	4.3	6.3	8.7	11.5	18.7
Velocity	2750	2577	2493	2410	2329	2250	2172	2095	1947
Energy	3023	2655	2484	2322	2169	2023	1885	1755	1516
Bullet Path	-1.5	+1.9	+1.6	zero	-3.1	-7.9	-14.3	-22.6	-45.3
Deflection @ 10 MPH	--	0.6	1.5	2.6	4.2	6.1	8.4	11.2	18.2

Reloading Data

165 Grain A-Frame™



Bullet		Powder	Starting Load		Maximum Load		
Type	Grain Wt.	Type	Grain Wt.	Velocity	Grain Wt.	Velocity	Load Density
Hodgdon Powder Company							
Swift A-Frame	165	H-414	53.5	2705	57.5	2905	93%
	165	H-4350	54.4	2627	58.5	2880	95%
	165	Varget	47.4	2613	51.0	2841	83%
Alliant Powder Company							
Swift A-Frame	165	RL-15	47.4	2589	51.0	2846	83%
	165	RL-19	55.8	2594	60.0	2807	98%
	165	*RL-22	59.5	2606	64.0	2847	104%
IMR Powder Company							
Swift A-Frame	165	IMR-4064	46.5	2565	50.0	2845	81%
	165	*IMR-4350	53.9	2657	58.0	2882	94%
	165	IMR-4895	46.0	2531	49.5	2811	80%

*Lowest Standard Deviation on Velocity

■ Indicates maximum load—never exceed maximum load!
Loads less than minimum charges shown are not recommended

30-06 Springfield

165 Grain A-Frame™

Test Components

Case	Federal	Barrel Length	24"
Primer	Federal 210	Barrel Twist	1-10"
Test Barrel	Wiseman		

Optimum Hunting Ballistics

200 yard zero

Sectional Density: 0.248 Ballistic Coefficient: 0.367

Distance in Yards	Muzz.	100	150	200	250	300	350	400	500
Velocity	2700	2459	2344	2231	2121	2015	1912	1812	1624
Energy	2672	2216	2013	1824	1649	1488	1340	1204	967
Bullet Path	-1.5	+2.1	+1.9	zero	-3.6	-9.1	-16.8	-26.9	-55.2
Deflection @ 10 MPH	--	0.9	2.2	3.9	6.3	9.3	12.9	17.4	28.6
Velocity	2750	2507	2390	2276	2165	2057	1953	1852	1661
Energy	2771	2302	2093	1898	1718	1551	1398	1257	1011
Bullet Path	-1.5	+2.0	+1.8	zero	-3.5	-8.8	-16.1	-25.8	-52.9
Deflection @ 10 MPH	--	0.9	2.1	3.8	6.1	9.0	12.6	16.9	27.8
Velocity	2800	2554	2436	2321	2209	2100	1994	1892	1697
Energy	2873	2390	2174	1974	1788	1616	1457	1311	1056
Bullet Path	-1.5	+1.9	+1.7	zero	-3.3	-8.4	-15.5	-24.7	-50.8
Deflection @ 10 MPH	--	0.9	2.0	3.7	6.0	8.8	12.3	16.4	27.0
Velocity	2850	2601	2482	2366	2252	2142	2035	1931	1734
Energy	2977	2480	2257	2051	1859	1682	1518	1367	1102
Bullet Path	-1.5	+1.8	+1.6	zero	-3.2	-8.1	-14.8	-23.7	-48.7
Deflection @ 10 MPH	--	0.9	2.0	3.6	5.8	8.6	11.9	16.0	26.3
Velocity	2900	2648	2528	2410	2296	2185	2076	1971	1771
Energy	3082	2570	2342	2129	1932	1749	1580	1424	1150
Bullet Path	-1.5	+1.7	+1.5	zero	-3.0	-7.7	-14.3	-22.8	-46.8
Deflection @ 10 MPH	--	0.8	1.9	3.5	5.7	8.3	11.6	15.6	25.6

Reloading Data

180 Grain A-Frame™



Bullet		Powder	Starting Load		Maximum Load		
Type	Grain Wt.	Type	Grain Wt.	Velocity	Grain Wt.	Velocity	Load Density
Hodgdon Powder Company							
Swift A-Frame	180	H-414	51.2	2562	55.0	2755	92%
	180	H-4350	52.5	2509	56.5	2733	94%
	180	H-4831	56.7	2422	61.0	2689	101%
Alliant Powder Company							
Swift A-Frame	180	RL-15	44.6	2396	48.0	2669	80%
	180	*RL-19	54.4	2494	58.5	2739	97%
	180	RL-22	56.7	2455	61.0	2708	101%
IMR Powder Company							
Swift A-Frame	180	IMR-4064	44.2	2371	47.5	2695	79%
	180	IMR-4350	51.2	2438	55.0	2732	92%
	180	IMR-4831	53.5	2496	57.5	2753	96%

*Lowest Standard Deviation on Velocity

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Loads less than minimum charges shown are not recommended

30-06 Springfield

180 Grain A-Frame™

Test Components

Case	Federal	Barrel Length	24"
Primer	Federal 210	Barrel Twist	1-10"
Test Barrel	Wiseman		

Optimum Hunting Ballistics

200 yard zero

Sectional Density: 0.271 Ballistic Coefficient: 0.400

Distance in Yards	Muzz.	100	150	200	250	300	350	400	500
Velocity	2550	2336	2233	2132	2034	1939	1846	1757	1588
Energy	2600	2181	1993	1817	1654	1502	1363	1234	1008
Bullet Path	-1.5	+2.4	+2.1	zero	-4.0	-10.1	-18.5	-29.5	-60.2
Deflection @ 10 MPH	--	0.9	2.1	3.9	6.2	9.2	12.8	17.1	28.0
Velocity	2600	2383	2279	2177	2078	1981	1888	1797	1625
Energy	2703	2271	2077	1895	1726	1570	1425	1291	1056
Bullet Path	-1.5	+2.3	+2.0	zero	-3.8	-9.7	-17.7	-28.2	-57.6
Deflection @ 10 MPH	--	0.9	2.1	3.8	6.0	8.9	12.4	16.6	27.2
Velocity	2650	2431	2325	2223	2122	2024	1929	1837	1662
Energy	2808	2363	2162	1975	1800	1638	1488	1349	1105
Bullet Path	-1.5	+2.2	+1.9	zero	-3.7	-9.3	-17.0	-27.0	-55.1
Deflection @ 10 MPH	--	0.9	2.0	3.7	5.9	8.6	12.0	16.1	26.4
Velocity	2700	2479	2372	2268	2166	2067	1971	1878	1700
Energy	2914	2456	2249	2056	1876	1709	1553	1409	1155
Bullet Path	-1.5	+2.1	+1.8	zero	-3.5	-8.9	-16.3	-25.9	-52.8
Deflection @ 10 MPH	--	0.9	2.0	3.6	5.7	8.4	11.7	15.6	25.7
Velocity	2750	2526	2418	2313	2210	2110	2013	1918	1738
Energy	3023	2551	2338	2139	1953	1781	1620	1471	1207
Bullet Path	-1.5	+2.0	+1.7	zero	-3.4	-8.5	-15.6	-24.8	-50.6
Deflection @ 10 MPH	--	0.8	1.9	3.5	5.6	8.2	11.4	15.2	24.9

Reloading Data

200 Grain A-Frame™



Bullet		Powder	Starting Load		Maximum Load		
Type	Grain Wt.	Type	Grain Wt.	Velocity	Grain Wt.	Velocity	Load Density
Hodgdon Powder Company							
Swift A-Frame	200	H-414	47.9	2361	51.5	2552	88%
	200	H-4350	50.2	2372	54.0	2575	92%
	200	H-4831	55.8	2369	60.0	2605	103%
Alliant Powder Company							
Swift A-Frame	200	RL-15	43.2	2290	46.5	2505	79%
	200	RL-19	52.1	2364	56.0	2574	96%
	200	RL-22	55.3	2386	59.5	2598	102%
IMR Powder Company							
Swift A-Frame	200	*IMR-4350	49.3	2340	53.0	2570	91%
	200	IMR-4831	51.6	2391	55.5	2601	95%
	200	IMR-7828	53.9	2302	58.0	2540	99%

*Lowest Standard Deviation on Velocity

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Loads less than minimum charges shown are not recommended

30-06 Springfield

200 Grain A-Frame™

Test Components

Case Federal
Primer Federal 210
Test Barrel Wiseman

Barrel Length 24"
Barrel Twist 1-10"

Optimum Hunting Ballistics

200 yard zero

Sectional Density: 0.301 Ballistic Coefficient: 0.444

Distance in Yards	Muzz.	100	150	200	250	300	350	400	500
Velocity	2400	2213	2123	2034	1948	1865	1784	1705	1556
Energy	2559	2176	2002	1839	1686	1545	1413	1291	1076
Bullet Path	-1.5	+2.8	+2.4	zero	-4.5	-11.2	-20.5	-32.5	-65.7
Deflection @ 10 MPH	--	0.9	2.1	3.8	6.1	8.9	12.4	16.5	27.0
Velocity	2450	2261	2169	2080	1993	1908	1825	1745	1594
Energy	2666	2271	2091	1922	1764	1617	1480	1353	1128
Bullet Path	-1.5	+2.7	+2.3	zero	-4.3	-10.7	-19.6	-31.0	-62.7
Deflection @ 10 MPH	--	0.9	2.0	3.7	5.9	8.6	12.0	16.0	26.1
Velocity	2500	2309	2216	2126	2038	1951	1868	1786	1632
Energy	2776	2368	2182	2007	1844	1692	1549	1417	1182
Bullet Path	-1.5	+2.5	+2.1	zero	-4.1	-10.2	-18.7	-29.6	-59.9
Deflection @ 10 MPH	--	0.9	2.0	3.6	5.7	8.4	11.6	15.5	25.4
Velocity	2550	2357	2263	2172	2082	1995	1910	1827	1670
Energy	2888	2467	2275	2095	1926	1768	1620	1483	1239
Bullet Path	-1.5	+2.4	+2.0	zero	-3.9	-9.8	-17.9	-28.3	-57.3
Deflection @ 10 MPH	--	0.8	1.9	3.5	5.5	8.1	11.3	15.1	24.6
Velocity	2600	2404	2310	2217	2127	2039	1952	1869	1708
Energy	3003	2568	2370	2184	2009	1846	1693	1551	1297
Bullet Path	-1.5	+2.3	+1.9	zero	-3.7	-9.4	-17.1	-27.1	-54.8
Deflection @ 10 MPH	--	0.8	1.9	3.4	5.4	7.9	11.0	14.6	23.9