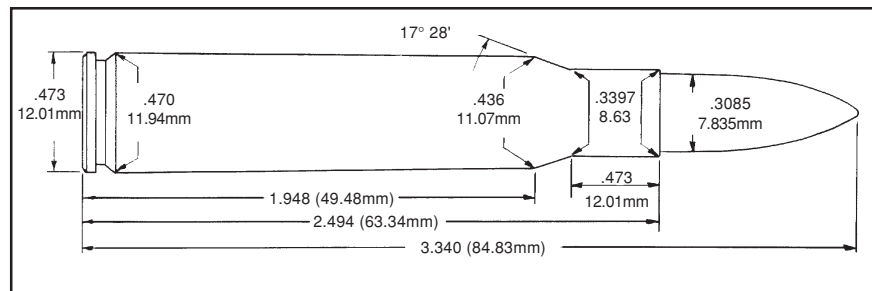


.30-06 SPRINGFIELD

The .30-06 Springfield is actually a modified version of the Cartridge, Caliber .30, Model of 1903. The original cartridge had a 220-grain, round-nosed FMJ bullet with a muzzle velocity of 2,300 FPS. The 1903 version was chambered by Winchester in the 1895 lever action rifle.



As a result of ballistic experiments in Europe, the U. S. Army modified the .30-03 cartridge by shortening the neck 0.070" and loading a short pointed bullet weighing 150 grains to a muzzle velocity of 2,700 FPS. This cartridge then became known as the Caliber .30, Model of 1906 or simply the .30-06 Springfield.

Since its introduction, the .30-06 has been one of the most popular cartridges available to shooters in this country. While fans of the modern "magnum" cartridges attempt to relegate the .30-06 to obsolescence, it continues to maintain its popularity with the shooting public. Whether the game is cast bullet shooting, hunting, or high-power rifle competition, the .30-06 has repeatedly demonstrated its ability to excel.

When loaded with proper bullets, a .30-06 is adequate for any North American game. The availability of low-cost surplus military ammunition and components no doubt contributed greatly to the popularity of this cartridge.

Shooters are well advised to exercise caution if they encounter U.S. military ammunition made prior to 1956 as well as ammo of foreign manufacture due to corrosive primers. While safe to shoot, special care must be taken in cleaning the weapon to prevent irreversible damage to the bore.

Improvements in smokeless propellants since the introduction of the .30-06 Springfield have served to enhance its performance to nearly the same level as the original ballistics of the .300 Holland & Holland.

Shooters should exercise caution when loading military cases as the increased thickness of these cases may require charge weight reduction of up to 10%. Although the IMI cases used were of the same weight as the U.S. Government specifications (200 grains), other makes of foreign brass may not be.

The SAAMI Maximum Average Pressure for the .30-06 cartridge is 60,000 P.S.I. and 50,000 C.U.P.

.30-06 SPRINGFIELD

Gun	WILSON	Max Length	2.494"
Barrel Length	24"	Trim Length	2.474"
Primer	CCI 250/200	OAL Max	3.340"
Case	IMI	OAL Min	2.940"

Bullet	START LOADS			MAXIMUM LOADS			P.S.I.	Cartridge Length	Comment
	Powder	Grains	Vel.	Powder	Grains	Vel.			
152 (L) RNGC *	5744	30.2	2157	5744	33.5	2451	47,100	3.035"	LY311466
	2015	36.0	2308	2015	40.0	2623	48,300		
	2230	36.9	2276	2230	41.0	2586	46,600		
	2460	36.9	2286	2460	41.0	2598	50,100		
	2495	37.8	2143	2495	42.0	2435	31,800		
	2520	37.8	2272	2520	42.0	2582	44,300		
	4064	41.4	2286	4064	46.0	2598	39,500		
	2700	41.4	2200	2700	46.0	2500	42,500		
	4350	45.9	2138	4350	51.0	2430	34,100		
	3100	47.7	1990	3100	53.0	2261	27,300		
	8700	54.0	1760	8700	60.0	2000	24,900	Compressed	
180 (L) FNGC *	5744	28.8	2057	5744	32.0	2337	41,100	3.015"	LY31141
	2015	36.0	2174	2015	40.0	2470	49,600		
	2230	36.9	2131	2230	41.0	2422	45,600		
	2460	36.9	2117	2460	41.0	2406	42,800		
	2495	37.8	2156	2495	42.0	2450	42,300		
	2520	37.8	2123	2520	42.0	2412	43,400		
	4064	40.5	2148	4064	45.0	2441	36,000		
	2700	41.4	2078	2700	46.0	2361	38,900		
	4350	45.9	2134	4350	51.0	2425	37,200		
	3100	47.7	2041	3100	53.0	2319	31,300		
	8700	54.0	1759	8700	60.0	1999	26,600	Compressed	
210 (L) RNGC *	5744	27.0	1778	5744	30.0	2021	40,600	3.195"	LY311284
	2015	32.4	1925	2015	36.0	2188	49,600		
	2230	34.2	1924	2230	38.0	2186	45,400		
	2460	34.7	1928	2460	38.5	2191	46,300		
	2495	36.0	1965	2495	40.0	2233	44,500		
	2520	36.0	1964	2520	40.0	2232	46,600		
	4064	38.7	2027	4064	43.0	2304	43,900		
	2700	39.6	1932	2700	44.0	2196	42,000		
	4350	45.9	2093	4350	51.0	2378	43,600		
	3100	47.7	2028	3100	53.0	2304	40,000		
	8700	54.0	1772	8700	60.0	2014	30,000	Compressed	
SPR 100 Plinker	2015	49.5	3119	2015	55.0	3544	58,300	2.600"	
	2230	51.3	3058	2230	57.0	3475	54,900		
	2460	51.8	3045	2460	57.5	3460	57,800		
	2495	52.2	3135	2495	58.0	3563	60,000		
	2520	54.0	3024	2520	60.0	3436	60,000		
	4064	53.1	2945	4064	59.0	3347	46,000		

Bullet	START LOADS			MAXIMUM LOADS			P.S.I.	Cartridge Length	Comment
	Powder	Grains	Vel.	Powder	Grains	Vel.			
HDY 110 RN	2015	48.2	2969	2015	53.5	3374	56,400	2.900"	Compressed
	2230	51.3	2979	2230	57.0	3385	55,700		
	2460	52.7	3010	2460	58.5	3421	57,000		
	2495	52.2	3032	2495	58.0	3446	59,600		
	2520	54.0	3024	2520	60.0	3436	60,000		
	4064	52.2	2992	4064	58.0	3401	55,400		
	2700	55.8	2886	2700	62.0	3280	53,400		
SRA 125 SP	2015	46.8	2806	2015	52.0	3189	56,200	3.150"	Compressed
	2230	48.0	2791	2230	53.3	3172	58,200		
	2460	48.2	2750	2460	53.5	3125	56,300		
	2495	48.6	2834	2495	54.0	3220	56,700		
	2520	48.6	2751	2520	54.0	3126	55,800		
	2700	55.8	2812	2700	62.0	3195	56,300		
	4350	54.0	2545	4350	60.0	2892	39,400		
NOS 125 BT	4064	51.3	2891	4064	57.0	3286	56,400	3.310"	
HDY 130 SP	2015	46.4	2763	2015	51.5	3140	55,300	3.150"	Compressed
	2230	47.4	2738	2230	52.7	3111	57,700		
	2460	48.0	2723	2460	53.3	3094	57,900		
	2495	47.7	2790	2495	53.0	3170	59,800		
	2520	48.6	2732	2520	54.0	3104	57,900		
	2700	54.9	2750	2700	61.0	3125	55,500		
	4350	54.0	2522	4350	60.0	2866	42,400		
SPR 130 HP	4064	48.6	2785	4064	54.0	3165	57,000	3.185"	
SRA 150 SP	2015	43.2	2535	2015	48.0	2881	58,400	3.250"	Compressed Compressed
	2230	44.5	2521	2230	49.4	2865	57,900		
	2460	44.6	2519	2460	49.5	2862	58,500		
	2495	46.4	2558	2495	51.5	2907	58,300		
	2520	46.1	2526	2520	51.2	2870	58,200		
	2700	53.1	2580	2700	59.0	2932	54,900		
	4350	53.1	2477	4350	59.0	2815	50,300		
3100	53.1	2297	3100	59.0	2610	41,000			
NOS 150 BT	4064	47.2	2648	4064	52.5	3010	59,800	3.335"	
BAR 150-X	2015	40.5	2468	2015	45.0	2805	58,400	3.285"	Compressed Compressed
	2230	43.7	2460	2230	48.5	2796	56,400		
	2460	43.7	2462	2460	48.5	2798	57,100		
	2495	42.8	2480	2495	47.5	2818	59,400		
	2520	45.0	2479	2520	50.0	2817	57,800		
	4064	46.3	2608	4064	51.5	2964	59,800		
	2700	51.3	2544	2700	57.0	2891	57,900		
	4350	51.3	2516	4350	57.0	2859	54,100		
	3100	53.1	2353	3100	59.0	2674	46,900		

.30-06 SPRINGFIELD (continued)

Bullet	START LOADS			MAXIMUM LOADS			P.S.I.	Cartridge Length	Comment
	Powder	Grains	Vel.	Powder	Grains	Vel.			
BAR 165-X	2015	38.7	2304	2015	43.0	2618	58,600	3.245"	
	2230	39.6	2237	2230	44.0	2542	57,800		
	2460	40.5	2272	2460	45.0	2582	60,000		
	2495	41.0	2328	2495	45.5	2645	58,500		
	2520	42.8	2347	2520	47.5	2667	60,000		
	4064	46.3	2487	4064	51.5	2827	57,900		
	2700	48.6	2382	2700	54.0	2707	58,500		
	4350	51.3	2428	4350	57.0	2759	56,300		Compressed
3100	53.1	2268	3100	59.0	2577	46,300	Compressed		
SRA 168 HPBT	5744	28.8	2018	5744	32.0	2293	38,300	3.295"	
	2015	41.0	2385	2015	45.5	2710	59,000		
	2230	41.4	2343	2230	46.0	2663	58,800		
	2460	42.0	2340	2460	46.7	2659	58,800		
	2495	42.3	2382	2495	47.0	2707	57,300		
	2520	42.8	2359	2520	47.5	2681	58,000		
	2700	48.6	2404	2700	54.0	2732	57,700		
	4350	53.1	2486	4350	59.0	2825	56,200		
3100	53.1	2300	3100	59.0	2614	48,800	Compressed		
SRA 175 HPBT	2015	40.0	2359	2015	44.5	2681	58,800	3.290"	
	2230	39.6	2323	2230	44.0	2640	59,500		
	2460	40.9	2334	2460	45.5	2653	58,700		
	2495	42.7	2385	2495	47.5	2711	56,400		
	2520	41.8	2341	2520	46.5	2661	57,000		
	2700	48.6	2429	2700	54.0	2761	58,200		
	4350	51.3	2486	4350	57.0	2825	56,300		Compressed
	3100	53.1	2341	3100	59.0	2661	48,800		Compressed
SRA 180 HPBT	5744	29.7	2036	5744	33.0	2314	42,900	3.290"	
	2015	40.1	2277	2015	44.5	2588	59,300		
	2230	39.6	2260	2230	44.0	2568	60,000		
	2460	41.2	2255	2460	45.8	2563	55,800		
	2495	41.0	2284	2495	45.5	2595	59,500		
	2520	42.1	2275	2520	46.8	2585	57,000		
	4064	43.6	2379	4064	48.5	2704	58,300		
	2700	49.5	2328	2700	55.0	2646	56,000		
4350	51.3	2389	4350	57.0	2715	56,400	Compressed		
3100	53.1	2298	3100	59.0	2611	53,300	Compressed		
BAR 180-X	2015	36.9	2176	2015	41.0	2473	58,100	3.320"	
	2230	39.2	2179	2230	43.5	2476	57,900		
	2460	40.1	2218	2460	44.5	2521	59,000		
	2495	40.5	2238	2495	45.0	2543	59,300		
	2520	41.4	2251	2520	46.0	2558	58,900		
	4064	42.7	2333	4064	47.5	2652	59,400		
	2700	48.6	2329	2700	54.0	2647	58,800		
	4350	50.0	2357	4350	55.5	2678	60,000		
3100	53.1	2281	3100	59.0	2592	52,400	Compressed		
WIN 180 FS	2015	35.5	2112	2015	39.5	2400	50,000**	3.115"	
	2230	38.2	2165	2230	42.5	2461	49,300**		
	2460	39.1	2200	2460	43.5	2500	50,000**		
	2495	39.1	2156	2495	43.5	2451	50,000**		
	2520	41.4	2241	2520	46.0	2547	48,000**		
	2700	46.8	2262	2700	52.0	2571	49,100**		
	4350	47.7	2266	4350	53.0	2575	48,800**		
	3100	53.1	2267	3100	59.0	2577	47,600**		Compressed

Bullet	START LOADS			MAXIMUM LOADS			P.S.I.	Cartridge Length	Comment
	Powder	Grains	Vel.	Powder	Grains	Vel.			
SRA 190 HPBT	5744	30.6	2041	5744	34.0	2319	48,200	3.325"	
	2015	38.7	2193	2015	43.0	2492	60,000		
	2230	39.6	2180	2230	44.0	2477	56,600		
	2460	41.0	2233	2460	45.5	2537	58,400		
	2495	39.6	2193	2495	44.0	2492	59,100		
	2520	41.0	2212	2520	45.5	2514	58,400		
	4064	42.7	2310	4064	47.5	2626	59,700		
	2700	46.8	2217	2700	52.0	2519	53,700		
	4350	50.0	2343	4350	55.5	2663	60,000		Compressed
	3100	53.1	2265	3100	59.0	2574	53,200		Compressed
	8700	55.8	1912	8700	62.0	2173	31,400	Compressed	
NOS 200 (Part)	2015	37.8	2062	2015	42.0	2343	54,800	3.295"	
	2230	39.2	2100	2230	43.5	2386	57,300		
	2460	40.1	2138	2460	44.5	2429	58,500		
	2495	38.7	2094	2495	43.0	2379	59,900		
	2520	40.5	2140	2520	45.0	2432	58,900		
	4064	41.4	2178	4064	46.0	2475	57,300		
	2700	46.4	2148	2700	51.5	2441	53,900		
	4350	49.5	2261	4350	55.0	2569	58,800		Compressed
	3100	53.1	2254	3100	59.0	2561	58,900		Compressed
		8700	55.8	1925	8700	62.0	2187		34,800
SRA 220 RN	2015	37.8	1983	2015	42.0	2253	59,500	3.200"	
	2230	38.3	1978	2230	42.5	2248	58,400		
	2460	38.7	1996	2460	43.0	2268	58,600		
	2495	38.3	1955	2495	42.5	2222	56,900		
	2520	39.6	2013	2520	44.0	2288	59,000		
	4064	40.5	2037	4064	45.0	2315	57,900		
	2700	44.6	2048	2700	49.5	2327	58,200		
	4350	49.5	2171	4350	55.0	2467	59,400		
	3100	53.1	2174	3100	59.0	2470	59,900		Compressed
		8700	55.8	1908	8700	62.0	2168		38,700
.30 Caliber Sabots									
REM 55 SABOT	2230	56.7	3598	2230	63.0	4089	50,300**	3.025"	Compressed

* CCI 250 Primers
** Pressure data in C.U.P.

Caliber 30-06 Springfield
Barrel: H&S Precision 24"
Case: Remington
Primer: CCI 200

Case length **Min:** 2.474
 Max: 2.494
Cartridge length **Min:** 2.940
 Max: 3.340

Bullet Make Type	Bullet Weight Grains	Powder Type	Start Load grains	Start Velocity Fps	Start Pressure kPsi	Maximum Load Grains	Maximum Velocity Fps	Maximum Pressure kPsi	AOL inches
Sierra SPBT Spitzer	150	Magpro	64.6	2841	46.4	68.0*	2938	50.1	3.290
Sierra SPFB Spitzer	180	Magpro	61.7	2673	48.6	65.0*	2763	51.9	3.340
Sierra HPBT Match	200	Magpro	58.9	2562	49.0	62.0*	2669	55.4	3.340

*Since Magpro is actually too slow burning for the 30-06Springfield, all maximum loads

are compressed with a loading density of approx 108%

To maintain combustion efficiency, the "Start" load was reduced by only 5%, and not the customary 10%.

We also advise to use a long drop tube when filling the case.

To create the maximum case volume, the AOL on the 180grain and 200gr bullets were at the maximum SAAMI limit of 3.340"

WARNING!! ALWAYS BEGIN LOADING AT THE RECOMMENDED MINIMUM OR "START" LOAD