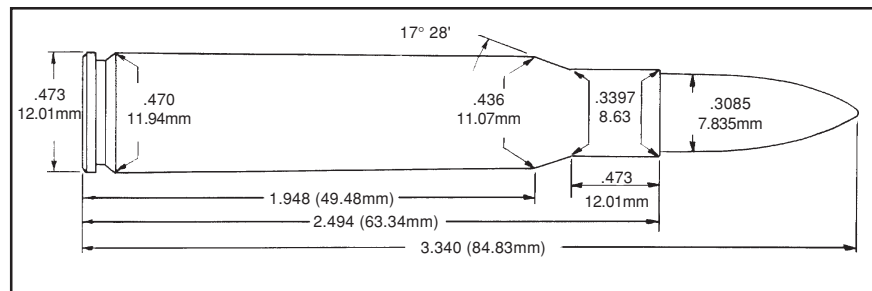


# **.30-06 SPRINGFIELD**

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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 *	<b>5744</b>	30.2	2157	<b>5744</b>	33.5	2451	47,100	3.035"	LY311466
	<b>2015</b>	36.0	2308	<b>2015</b>	40.0	2623	48,300		
	<b>2230</b>	36.9	2276	<b>2230</b>	41.0	2586	46,600		
	<b>2460</b>	36.9	2286	<b>2460</b>	41.0	2598	50,100		
	<b>2495</b>	37.8	2143	<b>2495</b>	42.0	2435	31,800		
	<b>2520</b>	37.8	2272	<b>2520</b>	42.0	2582	44,300		
	<b>4064</b>	41.4	2286	<b>4064</b>	46.0	2598	39,500		
	<b>2700</b>	41.4	2200	<b>2700</b>	46.0	2500	42,500		
	<b>4350</b>	45.9	2138	<b>4350</b>	51.0	2430	34,100		
	<b>3100</b>	47.7	1990	<b>3100</b>	53.0	2261	27,300		
	<b>8700</b>	54.0	1760	<b>8700</b>	60.0	2000	24,900	Compressed	
180 (L) FNGC *	<b>5744</b>	28.8	2057	<b>5744</b>	32.0	2337	41,100	3.015"	LY31141
	<b>2015</b>	36.0	2174	<b>2015</b>	40.0	2470	49,600		
	<b>2230</b>	36.9	2131	<b>2230</b>	41.0	2422	45,600		
	<b>2460</b>	36.9	2117	<b>2460</b>	41.0	2406	42,800		
	<b>2495</b>	37.8	2156	<b>2495</b>	42.0	2450	42,300		
	<b>2520</b>	37.8	2123	<b>2520</b>	42.0	2412	43,400		
	<b>4064</b>	40.5	2148	<b>4064</b>	45.0	2441	36,000		
	<b>2700</b>	41.4	2078	<b>2700</b>	46.0	2361	38,900		
	<b>4350</b>	45.9	2134	<b>4350</b>	51.0	2425	37,200		
	<b>3100</b>	47.7	2041	<b>3100</b>	53.0	2319	31,300		
	<b>8700</b>	54.0	1759	<b>8700</b>	60.0	1999	26,600	Compressed	
210 (L) RNGC *	<b>5744</b>	27.0	1778	<b>5744</b>	30.0	2021	40,600	3.195"	LY311284
	<b>2015</b>	32.4	1925	<b>2015</b>	36.0	2188	49,600		
	<b>2230</b>	34.2	1924	<b>2230</b>	38.0	2186	45,400		
	<b>2460</b>	34.7	1928	<b>2460</b>	38.5	2191	46,300		
	<b>2495</b>	36.0	1965	<b>2495</b>	40.0	2233	44,500		
	<b>2520</b>	36.0	1964	<b>2520</b>	40.0	2232	46,600		
	<b>4064</b>	38.7	2027	<b>4064</b>	43.0	2304	43,900		
	<b>2700</b>	39.6	1932	<b>2700</b>	44.0	2196	42,000		
	<b>4350</b>	45.9	2093	<b>4350</b>	51.0	2378	43,600		
	<b>3100</b>	47.7	2028	<b>3100</b>	53.0	2304	40,000		
	<b>8700</b>	54.0	1772	<b>8700</b>	60.0	2014	30,000	Compressed	
SPR 100 Plinker	<b>2015</b>	49.5	3119	<b>2015</b>	55.0	3544	58,300	2.600"	
	<b>2230</b>	51.3	3058	<b>2230</b>	57.0	3475	54,900		
	<b>2460</b>	51.8	3045	<b>2460</b>	57.5	3460	57,800		
	<b>2495</b>	52.2	3135	<b>2495</b>	58.0	3563	60,000		
	<b>2520</b>	54.0	3024	<b>2520</b>	60.0	3436	60,000		
	<b>4064</b>	53.1	2945	<b>4064</b>	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	<b>2015</b>	48.2	2969	<b>2015</b>	53.5	3374	56,400	2.900"	Compressed
	<b>2230</b>	51.3	2979	<b>2230</b>	57.0	3385	55,700		
	<b>2460</b>	52.7	3010	<b>2460</b>	58.5	3421	57,000		
	<b>2495</b>	52.2	3032	<b>2495</b>	58.0	3446	59,600		
	<b>2520</b>	54.0	3024	<b>2520</b>	60.0	3436	60,000		
	<b>4064</b>	52.2	2992	<b>4064</b>	58.0	3401	55,400		
	<b>2700</b>	55.8	2886	<b>2700</b>	62.0	3280	53,400		
SRA 125 SP	<b>2015</b>	46.8	2806	<b>2015</b>	52.0	3189	56,200	3.150"	Compressed
	<b>2230</b>	48.0	2791	<b>2230</b>	53.3	3172	58,200		
	<b>2460</b>	48.2	2750	<b>2460</b>	53.5	3125	56,300		
	<b>2495</b>	48.6	2834	<b>2495</b>	54.0	3220	56,700		
	<b>2520</b>	48.6	2751	<b>2520</b>	54.0	3126	55,800		
	<b>2700</b>	55.8	2812	<b>2700</b>	62.0	3195	56,300		
	<b>4350</b>	54.0	2545	<b>4350</b>	60.0	2892	39,400		
NOS 125 BT	<b>4064</b>	51.3	2891	<b>4064</b>	57.0	3286	56,400	3.310"	
HDY 130 SP	<b>2015</b>	46.4	2763	<b>2015</b>	51.5	3140	55,300	3.150"	Compressed
	<b>2230</b>	47.4	2738	<b>2230</b>	52.7	3111	57,700		
	<b>2460</b>	48.0	2723	<b>2460</b>	53.3	3094	57,900		
	<b>2495</b>	47.7	2790	<b>2495</b>	53.0	3170	59,800		
	<b>2520</b>	48.6	2732	<b>2520</b>	54.0	3104	57,900		
	<b>2700</b>	54.9	2750	<b>2700</b>	61.0	3125	55,500		
	<b>4350</b>	54.0	2522	<b>4350</b>	60.0	2866	42,400		
SPR 130 HP	<b>4064</b>	48.6	2785	<b>4064</b>	54.0	3165	57,000	3.185"	
SRA 150 SP	<b>2015</b>	43.2	2535	<b>2015</b>	48.0	2881	58,400	3.250"	Compressed Compressed
	<b>2230</b>	44.5	2521	<b>2230</b>	49.4	2865	57,900		
	<b>2460</b>	44.6	2519	<b>2460</b>	49.5	2862	58,500		
	<b>2495</b>	46.4	2558	<b>2495</b>	51.5	2907	58,300		
	<b>2520</b>	46.1	2526	<b>2520</b>	51.2	2870	58,200		
	<b>2700</b>	53.1	2580	<b>2700</b>	59.0	2932	54,900		
	<b>4350</b>	53.1	2477	<b>4350</b>	59.0	2815	50,300		
<b>3100</b>	53.1	2297	<b>3100</b>	59.0	2610	41,000			
NOS 150 BT	<b>4064</b>	47.2	2648	<b>4064</b>	52.5	3010	59,800	3.335"	
BAR 150-X	<b>2015</b>	40.5	2468	<b>2015</b>	45.0	2805	58,400	3.285"	Compressed Compressed
	<b>2230</b>	43.7	2460	<b>2230</b>	48.5	2796	56,400		
	<b>2460</b>	43.7	2462	<b>2460</b>	48.5	2798	57,100		
	<b>2495</b>	42.8	2480	<b>2495</b>	47.5	2818	59,400		
	<b>2520</b>	45.0	2479	<b>2520</b>	50.0	2817	57,800		
	<b>4064</b>	46.3	2608	<b>4064</b>	51.5	2964	59,800		
	<b>2700</b>	51.3	2544	<b>2700</b>	57.0	2891	57,900		
	<b>4350</b>	51.3	2516	<b>4350</b>	57.0	2859	54,100		
	<b>3100</b>	53.1	2353	<b>3100</b>	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	<b>2015</b>	38.7	2304	<b>2015</b>	43.0	2618	58,600	3.245"	
	<b>2230</b>	39.6	2237	<b>2230</b>	44.0	2542	57,800		
	<b>2460</b>	40.5	2272	<b>2460</b>	45.0	2582	60,000		
	<b>2495</b>	41.0	2328	<b>2495</b>	45.5	2645	58,500		
	<b>2520</b>	42.8	2347	<b>2520</b>	47.5	2667	60,000		
	<b>4064</b>	46.3	2487	<b>4064</b>	51.5	2827	57,900		
	<b>2700</b>	48.6	2382	<b>2700</b>	54.0	2707	58,500		
	<b>4350</b>	51.3	2428	<b>4350</b>	57.0	2759	56,300		Compressed
<b>3100</b>	53.1	2268	<b>3100</b>	59.0	2577	46,300	Compressed		
SRA 168 HPBT	<b>5744</b>	28.8	2018	<b>5744</b>	32.0	2293	38,300	3.295"	
	<b>2015</b>	41.0	2385	<b>2015</b>	45.5	2710	59,000		
	<b>2230</b>	41.4	2343	<b>2230</b>	46.0	2663	58,800		
	<b>2460</b>	42.0	2340	<b>2460</b>	46.7	2659	58,800		
	<b>2495</b>	42.3	2382	<b>2495</b>	47.0	2707	57,300		
	<b>2520</b>	42.8	2359	<b>2520</b>	47.5	2681	58,000		
	<b>2700</b>	48.6	2404	<b>2700</b>	54.0	2732	57,700		
	<b>4350</b>	53.1	2486	<b>4350</b>	59.0	2825	56,200		
<b>3100</b>	53.1	2300	<b>3100</b>	59.0	2614	48,800	Compressed		
SRA 175 HPBT	<b>2015</b>	40.0	2359	<b>2015</b>	44.5	2681	58,800	3.290"	
	<b>2230</b>	39.6	2323	<b>2230</b>	44.0	2640	59,500		
	<b>2460</b>	40.9	2334	<b>2460</b>	45.5	2653	58,700		
	<b>2495</b>	42.7	2385	<b>2495</b>	47.5	2711	56,400		
	<b>2520</b>	41.8	2341	<b>2520</b>	46.5	2661	57,000		
	<b>2700</b>	48.6	2429	<b>2700</b>	54.0	2761	58,200		
	<b>4350</b>	51.3	2486	<b>4350</b>	57.0	2825	56,300		Compressed
	<b>3100</b>	53.1	2341	<b>3100</b>	59.0	2661	48,800		Compressed
SRA 180 HPBT	<b>5744</b>	29.7	2036	<b>5744</b>	33.0	2314	42,900	3.290"	
	<b>2015</b>	40.1	2277	<b>2015</b>	44.5	2588	59,300		
	<b>2230</b>	39.6	2260	<b>2230</b>	44.0	2568	60,000		
	<b>2460</b>	41.2	2255	<b>2460</b>	45.8	2563	55,800		
	<b>2495</b>	41.0	2284	<b>2495</b>	45.5	2595	59,500		
	<b>2520</b>	42.1	2275	<b>2520</b>	46.8	2585	57,000		
	<b>4064</b>	43.6	2379	<b>4064</b>	48.5	2704	58,300		
	<b>2700</b>	49.5	2328	<b>2700</b>	55.0	2646	56,000		
<b>4350</b>	51.3	2389	<b>4350</b>	57.0	2715	56,400	Compressed		
<b>3100</b>	53.1	2298	<b>3100</b>	59.0	2611	53,300	Compressed		
BAR 180-X	<b>2015</b>	36.9	2176	<b>2015</b>	41.0	2473	58,100	3.320"	
	<b>2230</b>	39.2	2179	<b>2230</b>	43.5	2476	57,900		
	<b>2460</b>	40.1	2218	<b>2460</b>	44.5	2521	59,000		
	<b>2495</b>	40.5	2238	<b>2495</b>	45.0	2543	59,300		
	<b>2520</b>	41.4	2251	<b>2520</b>	46.0	2558	58,900		
	<b>4064</b>	42.7	2333	<b>4064</b>	47.5	2652	59,400		
	<b>2700</b>	48.6	2329	<b>2700</b>	54.0	2647	58,800		
	<b>4350</b>	50.0	2357	<b>4350</b>	55.5	2678	60,000		
<b>3100</b>	53.1	2281	<b>3100</b>	59.0	2592	52,400	Compressed		
WIN 180 FS	<b>2015</b>	35.5	2112	<b>2015</b>	39.5	2400	50,000**	3.115"	
	<b>2230</b>	38.2	2165	<b>2230</b>	42.5	2461	49,300**		
	<b>2460</b>	39.1	2200	<b>2460</b>	43.5	2500	50,000**		
	<b>2495</b>	39.1	2156	<b>2495</b>	43.5	2451	50,000**		
	<b>2520</b>	41.4	2241	<b>2520</b>	46.0	2547	48,000**		
	<b>2700</b>	46.8	2262	<b>2700</b>	52.0	2571	49,100**		
	<b>4350</b>	47.7	2266	<b>4350</b>	53.0	2575	48,800**		
	<b>3100</b>	53.1	2267	<b>3100</b>	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	<b>5744</b>	30.6	2041	<b>5744</b>	34.0	2319	48,200	3.325"	
	<b>2015</b>	38.7	2193	<b>2015</b>	43.0	2492	60,000		
	<b>2230</b>	39.6	2180	<b>2230</b>	44.0	2477	56,600		
	<b>2460</b>	41.0	2233	<b>2460</b>	45.5	2537	58,400		
	<b>2495</b>	39.6	2193	<b>2495</b>	44.0	2492	59,100		
	<b>2520</b>	41.0	2212	<b>2520</b>	45.5	2514	58,400		
	<b>4064</b>	42.7	2310	<b>4064</b>	47.5	2626	59,700		
	<b>2700</b>	46.8	2217	<b>2700</b>	52.0	2519	53,700		
	<b>4350</b>	50.0	2343	<b>4350</b>	55.5	2663	60,000		Compressed
	<b>3100</b>	53.1	2265	<b>3100</b>	59.0	2574	53,200		Compressed
	<b>8700</b>	55.8	1912	<b>8700</b>	62.0	2173	31,400	Compressed	
NOS 200 (Part)	<b>2015</b>	37.8	2062	<b>2015</b>	42.0	2343	54,800	3.295"	
	<b>2230</b>	39.2	2100	<b>2230</b>	43.5	2386	57,300		
	<b>2460</b>	40.1	2138	<b>2460</b>	44.5	2429	58,500		
	<b>2495</b>	38.7	2094	<b>2495</b>	43.0	2379	59,900		
	<b>2520</b>	40.5	2140	<b>2520</b>	45.0	2432	58,900		
	<b>4064</b>	41.4	2178	<b>4064</b>	46.0	2475	57,300		
	<b>2700</b>	46.4	2148	<b>2700</b>	51.5	2441	53,900		
	<b>4350</b>	49.5	2261	<b>4350</b>	55.0	2569	58,800		Compressed
	<b>3100</b>	53.1	2254	<b>3100</b>	59.0	2561	58,900		Compressed
		<b>8700</b>	55.8	1925	<b>8700</b>	62.0	2187		34,800
SRA 220 RN	<b>2015</b>	37.8	1983	<b>2015</b>	42.0	2253	59,500	3.200"	
	<b>2230</b>	38.3	1978	<b>2230</b>	42.5	2248	58,400		
	<b>2460</b>	38.7	1996	<b>2460</b>	43.0	2268	58,600		
	<b>2495</b>	38.3	1955	<b>2495</b>	42.5	2222	56,900		
	<b>2520</b>	39.6	2013	<b>2520</b>	44.0	2288	59,000		
	<b>4064</b>	40.5	2037	<b>4064</b>	45.0	2315	57,900		
	<b>2700</b>	44.6	2048	<b>2700</b>	49.5	2327	58,200		
	<b>4350</b>	49.5	2171	<b>4350</b>	55.0	2467	59,400		
	<b>3100</b>	53.1	2174	<b>3100</b>	59.0	2470	59,900		Compressed
		<b>8700</b>	55.8	1908	<b>8700</b>	62.0	2168		38,700
<b>.30 Caliber Sabots</b>									
REM 55 SABOT	<b>2230</b>	56.7	3598	<b>2230</b>	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**