

Cartridge : .338 Lapua Mag.

Bullet : .338, 250, Lapua Scenar GB488 8017

Useable Case Capaci: 99.756 grain H₂O = 6.477 cm³ 114.19 Max case capacity Lapua brass.

Cartridge O.A.L. L6: 3.609 inch = 91.67 mm

Barrel Length : 25.8 inch = 654.1 mm

Powder : Vihtavuori N565 *C ?

Charge : 88.6 grains = 5.77 grams

Estimates of the progress of combustion:

NR.: x(in.) Z(%) v(fps) p(psi) t(ms)

0	0.00000	1.40	0.0	3626	0.0000
1	0.00002	1.43	1.0	3720	0.0011
2	0.00007	1.47	1.9	3813	0.0042
3	0.00019	1.51	2.9	3907	0.0086
4	0.00044	1.56	4.3	4047	0.0142
5	0.00087	1.63	6.3	4234	0.0209
6	0.00154	1.71	8.4	4443	0.0286
7	0.00255	1.81	11.1	4698	0.0372
8	0.00398	1.93	14.2	4998	0.0467
9	0.00595	2.07	17.8	5343	0.0570
10	0.00857	2.22	21.8	5732	0.0680
11	0.01197	2.40	26.6	6186	0.0797
12	0.01630	2.61	31.9	6694	0.0920
13	0.02170	2.84	37.9	7264	0.1049
14	0.02834	3.10	44.8	7905	0.1183
15	0.03641	3.40	52.4	8616	0.1322
16	0.04608	3.73	61.0	9415	0.1464
17	0.05756	4.11	70.7	10297	0.1609

18	0.07106	4.53	81.3	11262	0.1757
19	0.08681	5.00	93.3	12328	0.1907
20	0.10504	5.53	106.5	13490	0.2060
21	0.12600	6.11	121.1	14751	0.2213
22	0.14995	6.76	137.1	16110	0.2368
23	0.17716	7.48	154.7	17572	0.2523
24	0.20792	8.27	173.9	19132	0.2679
25	0.24252	9.15	194.9	20791	0.2835
26	0.28127	10.11	217.8	22545	0.2992
27	0.32448	11.16	242.5	24379	0.3148
28	0.37249	12.32	269.2	26293	0.3305
29	0.42564	13.58	297.9	28274	0.3461
30	0.48428	14.95	328.7	30315	0.3617
31	0.54879	16.44	361.6	32398	0.3773
32	0.61953	18.05	396.6	34510	0.3928
33	0.69690	19.79	433.8	36642	0.4083
34	0.78130	21.66	473.2	38773	0.4239
35	0.87314	23.68	514.7	40890	0.4393
36	0.97285	25.84	558.5	42981	0.4548
37	1.08087	28.15	604.3	45027	0.4703
38	1.19764	30.62	652.3	47016	0.4858
39	1.32362	33.25	702.3	48933	0.5013
40	1.45929	36.04	754.3	50768	0.5168
41	1.60513	39.00	808.2	52513	0.5324
42	1.76164	42.14	864.1	54156	0.5480
43	1.92709	45.39	920.9	55669	0.5634
44	2.07642	48.09	968.0	56629	0.5766
45	2.23028	50.72	1015.2	57354	0.5895
46	2.38918	53.28	1062.3	57859	0.6023

47	2.55363	55.77	1109.4	58160	0.6149
48	2.63810	56.99	1132.9	58238	0.6212
49	2.68092	57.59	1144.7	58260	0.6243
50	2.70248	57.89	1150.6	58267	0.6259
51	2.72415	58.19	1156.5	58271	0.6274
52	2.73502	58.34	1159.4	58271	0.6282
53	2.74046	58.42	1160.9	58272	0.6286
54	2.74591	58.49	1162.4	58272	0.6290
55	2.92388	60.84	1209.5	58183	0.6415
56	3.10905	63.11	1256.6	57931	0.6540
57	3.30200	65.32	1303.7	57527	0.6666
58	3.50334	67.46	1350.8	56983	0.6792
59	3.71372	69.54	1397.9	56309	0.6920
60	3.93381	71.54	1445.0	55516	0.7049
61	4.16436	73.48	1492.1	54614	0.7180
62	4.40617	75.35	1539.2	53612	0.7313
63	4.66009	77.15	1586.4	52519	0.7448
64	4.92705	78.88	1633.5	51345	0.7586
65	5.20808	80.54	1680.6	50097	0.7728
66	5.50426	82.14	1727.7	48784	0.7872
67	5.81680	83.67	1774.8	47413	0.8021
68	6.14703	85.12	1821.9	45992	0.8174
69	6.49639	86.52	1869.0	44528	0.8332
70	6.86647	87.84	1916.1	43027	0.8495
71	7.25903	89.09	1963.2	41497	0.8664
72	7.67601	90.28	2010.3	39943	0.8838
73	8.11956	91.39	2057.4	38372	0.9020
74	8.59207	92.44	2104.6	36789	0.9209
75	9.09619	93.43	2151.7	35200	0.9407

76	9.63488	94.34	2198.8	33609	0.9613	
77	10.21148	95.18	2245.9	32023	0.9829	
78	10.82970	95.96	2293.0	30445	1.0056	
79	11.49373	96.67	2340.1	28879	1.0295	
80	12.20830	97.31	2387.2	27331	1.0547	
81	12.97877	97.88	2434.3	25805	1.0814	
82	13.81122	98.38	2481.4	24303	1.1096	
83	14.71258	98.82	2528.5	22829	1.1396	
84	15.69079	99.18	2575.6	21387	1.1715	
85	16.75495	99.48	2622.8	19980	1.2056	
86	17.91557	99.71	2669.9	18611	1.2422	
87	19.18480	99.88	2717.0	17282	1.2814	
88	20.57679	99.97	2764.1	15995	1.3238	
89	21.90842	100.00	2805.3	14906	1.3636	
90	22.37274	100.00	2818.9	14555	1.3774	
91	22.83706	100.00	2832.1	14219	1.3911	
92	23.21614	100.00	2842.6	13955	1.4022	milliseconds bullet exit

Muzzle

Factor From Chris Long OBT Node 6 spread sheet for 25.25 inch bbl. At node 6 = 1.402