

Table 1

Case brand and info	Case Volume (gr)	Charge Weight (gr)	As a percentage of case volume	Velocity (FPS)
Peterson, Fed 215 primer, Stable 6.5, 143gr ELDX, and Case Volume is 52.02. Notes: 41°F, raining. 2nd firing cases, OAL 2.810-2.815. 42.9Gr seems to be a stable node., as is 44.1gr (round down to 44?). 82.5%, and 84.5%; pick the slower node at 43gr with Peterson Brass. 42.9GR	52.02	42.0	0.807381776239908	2773
	52.02	42.0	0.807381776239908	2805
	52.02	42.3	0.813148788927336	2810
	52.02	42.3	0.813148788927336	2815
	52.02	42.6	0.818915801614764	2808
	52.02	42.6	0.818915801614764	2845
	52.02	42.9	0.824682814302191	2843
	52.02	42.9	0.824682814302191	2848
	52.02	43.2	0.830449826989619	2860
	52.02	43.2	0.830449826989619	2863
	52.02	43.5	0.836216839677047	2883
	52.02	43.5	0.836216839677047	2894
	52.02	43.8	0.841983852364475	2884
	52.02	43.8	0.841983852364475	2919
	52.02	44.1	0.847750865051903	2920
	52.02	44.1	0.847750865051903	2923
Normal Brass, second firing. 2.810 OAL. Case Volume 52.72. Fed 215 primer, Stable 6.5, 143gr ELDX. Nodes again around 43gr and 44gr. 81.5%, moreso at 83%; 43gr node would be safer. 42.9gr	52.72	42.0	0.796661608497724	2709
	52.72	42.0	0.796661608497724	2706
	52.72	42.3	0.802352048558422	2730
	52.72	42.3	0.802352048558422	2748
	52.72	42.6	0.80804248861912	2755
	52.72	42.6	0.80804248861912	2783
	52.72	42.9	0.813732928679818	2797
	52.72	42.9	0.813732928679818	2801
	52.72	43.2	0.819423368740516	2784
	52.72	43.2	0.819423368740516	2810
	52.72	43.5	0.825113808801214	2844
	52.72	43.5	0.825113808801214	2848
	52.72	43.8	0.830804248861912	2866
	52.72	43.8	0.830804248861912	2834
	52.72	44.1	0.83649468892261	2844
	52.72	44.1	0.83649468892261	2861
Hornady Brass, Case Vol of 53.16, 143gre ELDX, Fed 215 Primer, Stable 6.5; 41°F. Node at 43.5gr; 42.9gr	53.16	42.0	0.790067720090293	2715
	53.16	42.0	0.790067720090293	2730
	53.16	42.3	0.795711060948081	2748
	53.16	42.3	0.795711060948081	2772
	53.16	42.6	0.801354401805869	2773
	53.16	42.6	0.801354401805869	2802
	53.16	42.9	0.806997742663657	2797
	53.16	42.9	0.806997742663657	2811
	53.16	43.2	0.812641083521445	2820
	53.16	43.2	0.812641083521445	2802

Case brand and info	Case Volume (gr)	Charge Weight (gr)	As a percentage of case volume	Velocity (FPS)
	53.16	43.5	0.818284424379233	2842
	53.16	43.5	0.818284424379233	2840
	53.16	43.8	0.82392776523702	2859
	53.16	43.8	0.82392776523702	2843
	53.16	44.1	0.829571106094808	2851
	53.16	44.1	0.829571106094808	2868
Desert Tech Brass, Fed 215 Primer, 143gr ELDX rounds, 2.810 OAL; 42.9gr.....NB, it seems 42.9gr of Staball is the magic number. Rather, that 82% of case volume is the magic percentage....	51.58	42.0	0.81426909654905	2770
	51.58	42.0	0.81426909654905	2799
	51.58	42.3	0.820085304381543	2822
	51.58	42.3	0.820085304381543	2812
	51.58	42.6	0.825901512214036	2816
	51.58	42.6	0.825901512214036	2850
	51.58	42.9	0.83171772004653	2855
	51.58	42.9	0.83171772004653	2861
	51.58	43.2	0.837533927879023	2850
	51.58	43.2	0.837533927879023	2901
	51.58	43.5	0.843350135711516	2876
	51.58	43.5	0.843350135711516	2881
	51.58	43.8	0.849166343544009	2912
	51.58	43.8	0.849166343544009	2920
	51.58	44.1	0.854982551376503	2930
	51.58	44.1	0.854982551376503	2926