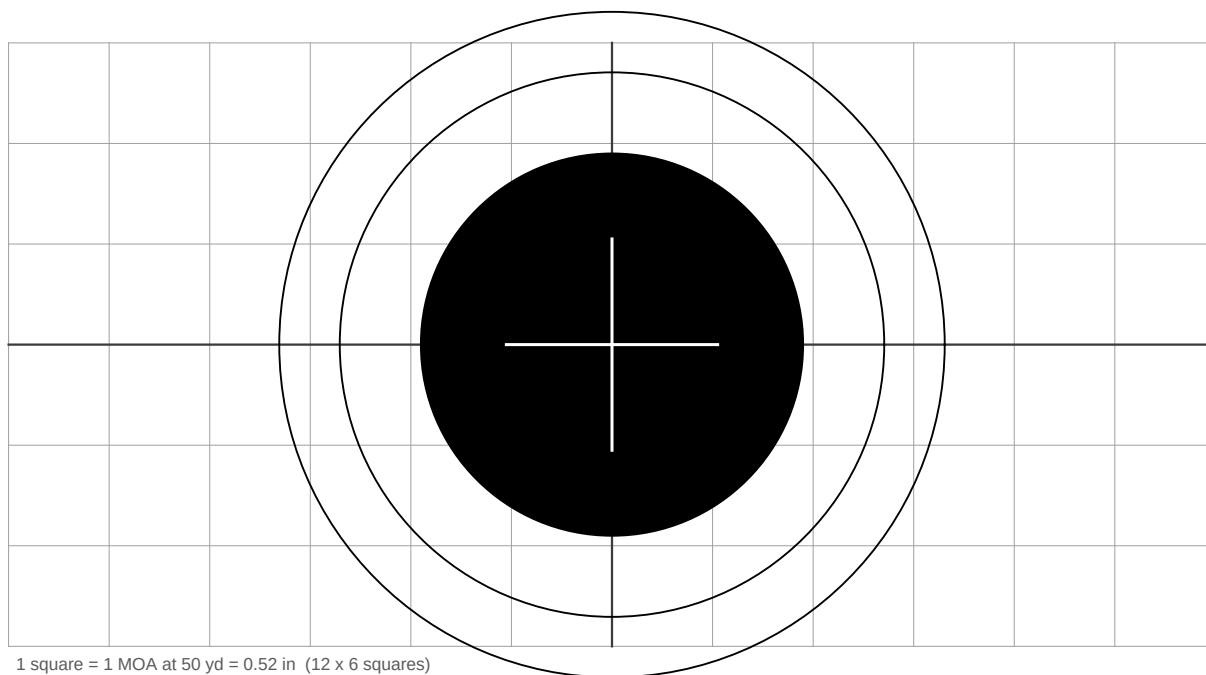


ZEROING TARGET - 5.56x45mm NATO - 50 YARD ZERO

Zero: 50 yd - M193 55 gr FMJ and M855 62 gr FMJ (green tip) - sight height 2.6 in



1 square = 1 MOA at 50 yd = 0.52 in (12 x 6 squares)

Black centre = 2 in

What a 50 yd zero confirms - computed, not assumed

Load	Barrel	Muzzle	Far zero	Max rise
M193	16 in carbine	3100 fps	220 yd	+1.9 in @ 137 yd
M193	20 in rifle	3240 fps	238 yd	+2.2 in @ 146 yd
M855	16 in carbine	2900 fps	205 yd	+1.7 in @ 128 yd
M855	20 in rifle	3020 fps	220 yd	+1.9 in @ 135 yd

Point of impact relative to point of aim - the correction is what to dial, so its sign is the opposite

Load	Distance	POI (in)	Sight corr. (MOA)	Velocity (fps)	Energy (ft-lb)
M193	25 yd	-1.2	+4.5	2995	1095
M193	50 yd	0.0	0.0	2894	1023
M193	100 yd	+1.5	-1.5	2700	891
M193	200 yd	+0.8	-0.4	2336	667
M193	300 yd	-6.3	+2.0	2001	489
M855	25 yd	-1.2	+4.4	2822	1095
M855	50 yd	0.0	0.0	2743	1036
M855	100 yd	+1.4	-1.4	2592	926
M855	200 yd	+0.2	-0.1	2306	732
M855	300 yd	-7.5	+2.4	2037	571

Negative POI = impact below point of aim. Far zero is where the bullet crosses the line of sight coming down; it moves with muzzle velocity and sight height, which is why both barrels are listed rather than one round number. BallisticEngine G1 model, 59 F, sea level, no wind.

