



Connaught Ranges
45 Shirley Boulevard
Nepean, ON
K2K 2W6 Canada

Dominion of Canada Rifle Association ***Association de Tir Dominion du Canada***

Telephone: (613) 829-8281
FAX: (613) 829-0099
E-mail: office@dcra.ca
Website : <http://www.dcra.ca>

BALLISTIC LIMITS AT 2017 FCNC & ICFRA FCWC

In releasing our most recent edition of our Bullet/Max MV table we became aware of disproportionately high BC claims being made by one manufacturer, and the resultant effect that it had on the allowable MV for their projectile. The manner in which the BC was determined was fundamentally different than that used by other manufacturers, and in effect was forcing shooters using that bullet to run it significantly slower than other similar bullets in the same class.

Our mandate as the hosts of the 2017 F-Class World Championship is to run a fair and safe competition, and we felt that the BCs we were using to make our determination of maximum muzzle velocity needed to be consistent in how they were derived. We reached out to Applied Ballistics LLC, the acknowledged leader in ballistic testing, and they graciously offered their knowledge and assistance.

Below is our Bullet/ Max MV table that was vetted using data provided to us by the team at Applied Ballistics. In all cases there has either been a slight decrease in BC from that claimed by the manufacturer, or no change. What this means is that loads that previously may have been close to the line now may have a slight safety margin. What it should not mean, at this late stage, is redeveloping loads to wring out every last foot of permitted muzzle velocity.

Bullet	G1 BC	Max MV (fps)
Berger 7mm 180 gr Hybrid	0.673	3020
Berger 7mm 180 gr VLD	0.679	3008
Berger 7mm 195 gr Hybrid	0.743	2848
Berger .30 Cal 200 gr Hybrid	0.616	3108
Berger .30 Cal 200.20x Hybrid	0.639	3071
Berger .30 Cal 210 gr VLD	0.621	3100
Berger .30 Cal 215 gr Hybrid	0.691	2986
Berger .30 Cal 230 gr Hybrid	0.717	2928
Hornady 6.5 mm 147 gr ELD Match	0.654	3048
Hornady 7mm 175 gr ELD-X	0.689	2990
Hornady 7mm 162 gr ELD-X	0.631	3084
Hornady 7mm 180gr ELD Match	0.703	2963
Hornady .30 Cal 208gr ELD Match	0.661	3036
Hornady .30 Cal 212gr ELD-X	0.663	3033
Hornady .30 Cal 220gr ELD-X	0.650	3055
Hornady .30 Cal 225gr ELD Match	0.752	2759
KP Ballistics .30 Cal 200 Jack	0.698	2973
Lapua 7mm 180 gr Scenar-L	0.621	3100
Lapua .30 Cal 220 gr Scenar-L	0.624	3096
Sierra 7mm 183gr MatchKing	0.707	2957
Sierra 7mm 197gr MatchKing	0.780	2750

 = Data from Applied Ballistics

On behalf of the organizers I would like to extend our sincere thanks to Bryan Litz, Alan Barnhart, and the staff at Applied Ballistics LLC for their support and for their quick response to ensure our competitors had the best available data to work with.

We apologize for any inconvenience this may have caused, and trust that you understand that we have undertaken this in the best interest of our competitors.

Best regards,

A handwritten signature in black ink, appearing to be 'S. Bissett', with a stylized flourish at the end.

Scott Bissett
Match Director
2017fcwc@dcra.ca