

.308 WINCHESTER COME-UP CHART - 100 to 800 m

Federal Gold Medal Match 168 gr BTHP - G1 0.462, 808 m/s at the muzzle. Zero 100 m, sight 50 mm. Drop, MOA and mil at each distance.

Come-up from a 100 m zero

Distance	Drop	Drop (m)	MOA up	Mil up	Velocity	Time
100 m	0 mm	-	0.0	0.0	743 m/s	0.13 s
200 m	-129 mm	-	2.2	0.6	682 m/s	0.27 s
300 m	-468 mm	-	5.4	1.6	624 m/s	0.42 s
400 m	-1060 mm	1.06 m	9.1	2.7	568 m/s	0.59 s
500 m	-1960 mm	1.96 m	13.5	3.9	516 m/s	0.78 s
600 m	-3227 mm	3.23 m	18.5	5.4	468 m/s	0.98 s
700 m	-4944 mm	4.94 m	24.3	7.1	425 m/s	1.20 s
800 m	-7206 mm	7.21 m	31.0	9.0	387 m/s	1.45 s

Reading this chart

- MOA up and Mil up are what you dial, not what you hold. Both are taken from the same trajectory: 1 mil subtends the distance in millimetres, so the mil column is the drop divided by the range.
- Computed with a G1 drag model at 15 C, 1013 hPa, sea level, no wind. Air density moves the far end of this table more than the near end - at 800 m a thousand metres of altitude is worth roughly a minute.
- Below about 380 m/s the bullet is entering transonic flight and a G1 curve describes it poorly. On this load that is past the end of this chart.
- Every figure assumes the zero above. Re-zero and the whole column moves.

CHECK BEFORE USE - this bar must measure exactly 100 mm. Print at 100%, not "fit to page".