

JBM Ballistics Calculator- DOPE for 22lr Training Course

JBM Ballistics Calculator: <https://www.jbmballistics.com/cgi-bin/jbmtraj-5.1.cgi>

Match Values Shown Unless Otherwise Specified.

Library (Select bullet or enter BC and Weight below.) [?]
None

Ballistic Coefficient [Links] (0.010 to 2.000) [0.5] [?]
0.148 G1

Bullet Weight (5.0 to 15000.0 gr) [220.0] [?]
40 gr

Caliber (0.100 to 2.000 in) [0.308] [?]
0.22 in

Muzzle Velocity (500.0 to 4800.0 ft/s) [3000.0] [?]
1091.0 ft/s

Distance to Chronograph (0.0 to 100.0 yd) [10.0] [?]
0 ft

Ballistic Coefficient:

- For .22lr, this will be somewhere in the 0.12 to 0.15 area, I have found 0.148 works well for SK Long Range, 0.145 for CCI Standard from my rifles.

Muzzle velocity:

- 1091fps for SK Long Range
- 1086fps for CCI Standard

Sight Height (-100.00 to 100.00 in) [1.5] [?]
1.5 in

Sight Offset (-100.00 to 100.00 in) [0.0] [?]
0.0 in

Zero Height (-100.00 to 100.00 in) [0.0] [?]
0.0 in

Zero Offset (-100.00 to 100.00 in) [0.0] [?]
0.0 in

Windage (-300.000 to 300.000 MOA) [0.0] [?]
0.0 mil

Elevation (-300.000 to 300.000 MOA) [0.0] [?]
0.0 mil

Line Of Sight Angle (-90.0 to 90.0 deg) [0.0] [?]
0.0

Cant Angle (-90.0 to 90.0 deg) [0.0] [?]
0.0

Sight height:

- Measurement from the centre of the rifle bore axis to the centre of the scope bore axis. This is important to measure accurately to ensure data alignment with real world observation.

Wind Speed (0.0 to 100.0 mph) [10.0] [?] 5 mph	Wind Angle (0.0 to 360.0 deg) [90.0] [?] 90.0
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Wind Speed:

- As selected by you, from experience average at Monarto Range is 4-6mph.

Target Speed (0.0 to 100.0 mph) [10.0] [?] 0 mph	Target Angle (-90.0 to 90.0 deg) [90.0] [?] 90.0
Target Height (2.0 to 100.0 in) [12.0] [?] 12.0 in	

Minimum Range (0 to 3999) [0] [?] 50	Maximum Range (1 to 4000) [1000] [?] 300
Range Increment (1 to 4000) [100] [?] 5	Zero Range (1 to 4000) [100] [?] 50

Temperature (-40.0 to 140.0 °F) [59.0] [?] 20 °C	Pressure (15.00 to 40.00 in Hg) [29.92] [?] 1013 mb
Humidity (0.0 to 100.0 %) [0.0] [?] 20	Altitude (-4000.0 to 15000.0 ft) [0.0] [?] 100 m
<input type="checkbox"/> Std. Atmosphere at Altitude [?]	<input checked="" type="checkbox"/> Pressure is Corrected [?]
Vital Zone Radius (2.0 to 100.0 in) [5.0] [?] 5.0 in	"Energy Column" Formula [?] Energy (ft·lbs)
Column 1 Units (0.05 to 10.00 MOA) [1.00] [?] 1.00 in	Column 2 Units (0.05 to 10.00 MOA) [1.00] [?] 1.00 MOA
<input checked="" type="checkbox"/> Elevation Correction for Zero Range [?]	<input type="checkbox"/> Windage Correction for Zero Range [?]
<input checked="" type="checkbox"/> Ranges in Meters [?]	<input checked="" type="checkbox"/> Target Relative Drops [?]
<input type="checkbox"/> Zero at Max. Point Blank Range [?]	<input type="checkbox"/> Mark Sound Barrier Crossing [?]
<input type="checkbox"/> Include Extra Rows [?]	<input type="checkbox"/> Round Output to Whole Numbers [?]
<input type="checkbox"/> Include Danger Space [?]	

Select MOA or Mil here, depending on you scope turrents and reticule. Then select calculate.