

## Trajectory

Calculate a trajectory from bullet, velocity, firearm and atmospheric parameters.

Explanation of [terms](#)

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[Library](#) (Select bullet or enter BC and Weight below.) [\[?\]](#)  
 Speer, 0.375 cal, 235 gr, Semi-Spitzer SP

Ballistic Coefficient [\[Links\]](#) (0.010 to 2.000) [\[?\]](#)      Bullet Weight (5.0 to 15000.0 gr) [\[220.0\]](#) [\[?\]](#)  
 0.5         220.0

Caliber (0.100 to 2.000 in) [\[0.308\]](#) [\[?\]](#)  
 0.308

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Muzzle Velocity (500.0 to 4800.0 ft/s) [\[3000.0\]](#) [\[?\]](#)      Distance to Chronograph (0.0 to 100.0 yd) [\[10.0\]](#) [\[?\]](#)  
 2600         0

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Sight Height (-100.00 to 100.00 in) [\[1.5\]](#) [\[?\]](#)      Sight Offset (-100.00 to 100.00 in) [\[0.0\]](#) [\[?\]](#)  
 1.625         0.0

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

Windage (-300.000 to 300.000 MOA) [\[0.0\]](#) [\[?\]](#)      Elevation (-300.000 to 300.000 MOA) [\[0.0\]](#) [\[?\]](#)  
 0.0         0.0

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

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Wind Speed (0.0 to 100.0 mph) [\[10.0\]](#) [\[?\]](#)      Wind Angle (0.0 to 360.0 deg) [\[90.0\]](#) [\[?\]](#)  
 3         90.0

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Target Speed (0.0 to 100.0 mph) [\[10.0\]](#) [\[?\]](#)      Target Angle (-90.0 to 90.0 deg) [\[90.0\]](#) [\[?\]](#)  
 10.0         90.0

Target Height (2.0 to 100.0 in) [\[12.0\]](#) [\[?\]](#)  
 12.0

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Minimum Range (0 to 3999) [\[0\]](#) [\[?\]](#)      Maximum Range (1 to 4000) [\[1000\]](#) [\[?\]](#)  
 0         300

Range Increment (1 to 4000) [\[100\]](#) [\[?\]](#)      Zero Range (1 to 4000) [\[100\]](#) [\[?\]](#)  
 5         100

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Temperature (-40.0 to 140.0 °F) [\[59.0\]](#) [\[?\]](#)      Pressure (15.00 to 40.00 in Hg) [\[29.92\]](#) [\[?\]](#)  
 59.0         29.92

Humidity (0.0 to 100.0 %) [\[0.0\]](#) [\[?\]](#)      Altitude (-4000.0 to 15000.0 ft) [\[0.0\]](#) [\[?\]](#)  
 0.0         0.0

Std. Atmosphere at Altitude [\[?\]](#)       Pressure is Corrected [\[?\]](#)

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Vital Zone Radius (2.0 to 100.0 in) [\[5.0\]](#) [\[?\]](#)      "Energy Column" Formula [\[?\]](#)  
 3         Energy (ft-lbs)

Column 1 Units (0.05 to 10.00 MOA) [\[1.00\]](#) [\[?\]](#)      Column 2 Units (0.05 to 10.00 MOA) [\[1.00\]](#) [\[?\]](#)  
 1.00         1.00

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Elevation Correction for Zero Range [\[?\]](#)       Windage Correction for Zero Range [\[?\]](#)  
 Ranges in Meters [\[?\]](#)       Target Relative Drops [\[?\]](#)  
 Zero at Max. Point Blank Range [\[?\]](#)       Mark Sound Barrier Crossing [\[?\]](#)  
 Include Extra Rows [\[?\]](#)       Round Output to Whole Numbers [\[?\]](#)  
 Include Danger Space [\[?\]](#)

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**Note 1** →

**Note 2** →

**Note 3** →

**Note 4** →

**Note 1:** Scope Height is height of rings plus height of scope base above bore centerline. On the LR308, the height of the rail above the center of the bore is 1.25 inches so using 1.5 inch rings gives a 2.75 Sight / Scope Height.

**Note 2:** Use a 3 mph wind speed which is below the threshold of feeling air movement on your skin.

**Note 3:** A 6 inch diameter vital zone is a 3 inch vital zone radius. Increasing vital zone radius will increase the Max Point Blank Range and Decreasing vital zone radius will decrease the Max Point Blank Range.

**Note 4:** Make this selection to automatically set the zero for Max Point Blank Range.