
# Wind Zero Ballistic Calc Upgrade Instructions



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Wind Zero

## Wind Zero Ballistic Calc Upgrade


### Specifications

- Ballistic Calculator with advanced computations
- Estimates bullet wind drift and drop
- Ability to model different wind zones
- Supports optional factors like the Coriolis effect, aerodynamic jump, and spin drift
- Display results in MOA or MIL units

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### Profiles

To set up a profile, enter the following details for the Bullet and Rifle:

- **Bullet:** Enter Diameter, Length, Weight, BC, Drag Model, and Muzzle Velocity.
- **Rifle:** Provide Sight Height, Zero Range, Twist Rate, and Twist Direction.

### Environment Options

Configure the environment options based on your needs:

- **Aerodynamic Jump:** Choose whether to include an aerodynamic jump.
- **Spindrift:** Choose whether to include spin drift.
- **Coriolis:** Choose whether to include the Coriolis effect.
- **Wind Zones:** Choose whether to include wind zones.

### Wind Zones

To define wind zones, specify the Start Distance and Meter ID for each zone.

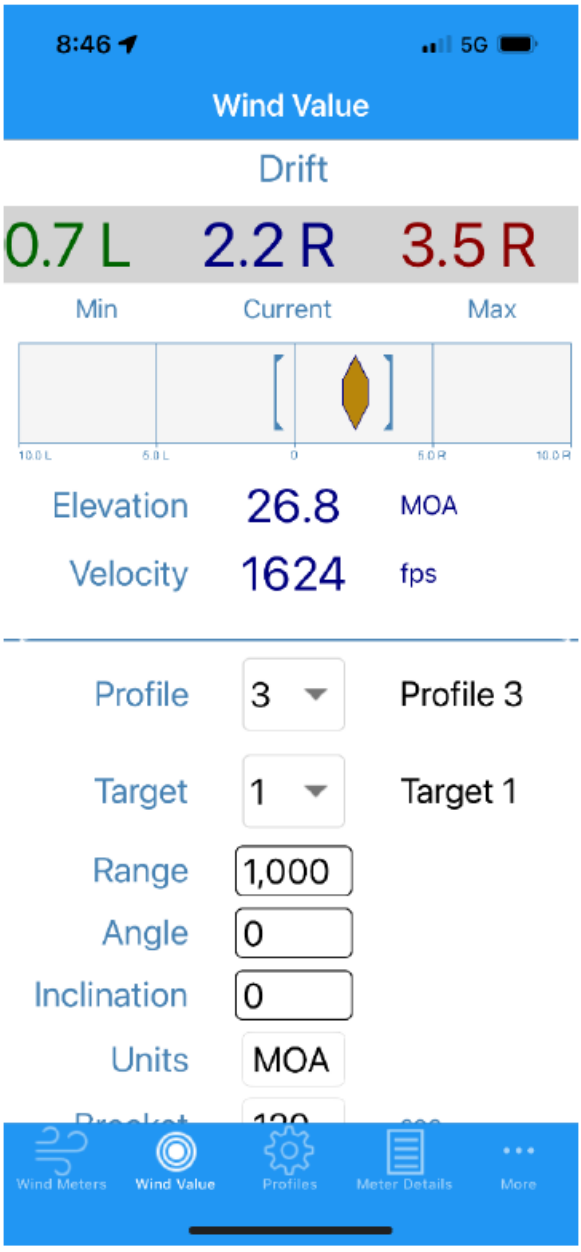
### Targets

Set the range, horizontal angle, inclination angle, and stage of the target.

**Introduction**
The Wind Zero App now includes a ballistic calculator to estimate bullet wind drift and drop. It uses advanced ballistics computations, including optional factors like the Coriolis effect, aerodynamic jump, and spin drift, to return detailed trajectory information. It also includes the capability to model different wind zones and the ability to assign a wind meter to each.

| Distance | Wind Zero Location |
|---|---|
| 0 | Meter 1 |
| 300 | Meter 2 |
| 600 | Meter 3 |

**Wind Drift**

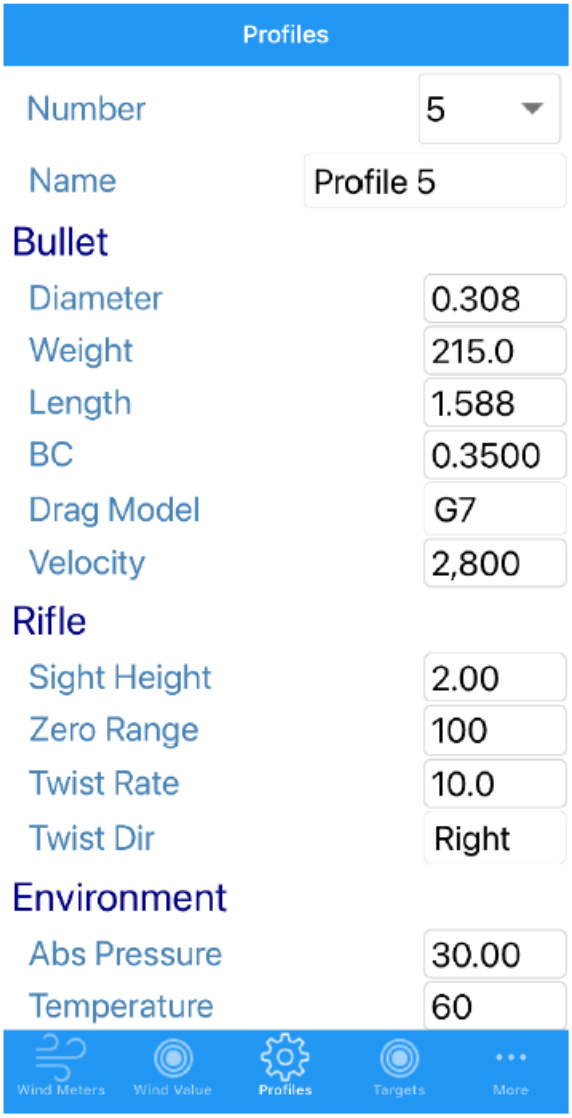


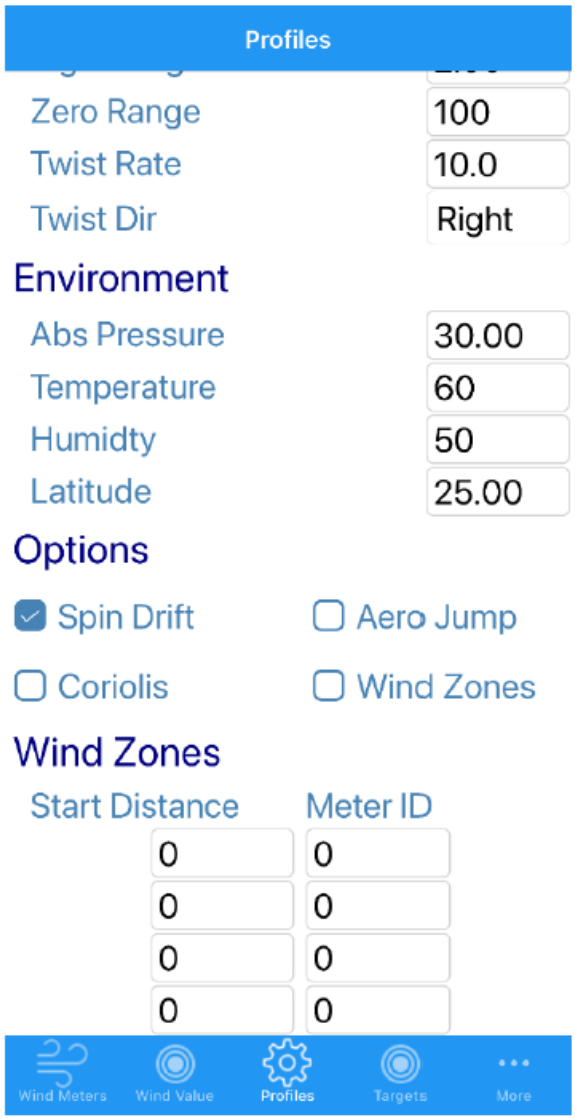

The Wind Drift page displays the current real-time wind drift based on the wind meter readings. The values displayed are the current calculated drift as well as the maximum and minimum values during the previous user-

defined period (Bracket). The elevation and velocity at target are also displayed. The values are shown in numeric values as well as a chart with the current value shown as a diamond and the min snf msx values shown as a bracket.

- **Profile**: Select the Profile number (1 – 10). The name of the profile will be displayed
- **Target**: Select the Target number (1-20). The name of the target will be displayed.
- Range: Target range (yards).
- Angle: Angle of target from Wind Zero direction. Positive right, Negative left
- **Inclination:** Target inclination angle (degrees). Positive for up, negative for down.
- **Units**: Display results in MOA or MIL
- **Bracket**: Wind high/low bracket period (15,30,60,120 seconds}

**Profiles**




**Profile**
**Number**: Select the Profile number (1 – 10) to display
**Name**: Name of profile

**Bullet**

- **Diameter:** Diameter of the bullet (inches).
- **Length:** Length of the bullet (inches).
- **Weight:** Weight of the bullet (grains).
- **BC:** Ballistic coefficient of the bullet.
- **Drag Model:** G7 or G1 drag curve.
- **Velocity –** Muzzle velocity (ft/s).

**Rifle**

- Sight Height: Height of the scope above the bore (inches). Zero Range: Distance (yards) where the bullet is zeroed.
- Twist Rate: Barrel twist rate (inches per turn).
- Twist Direction: Direction of rifling twist: Right or Left

**Environment**

- Pressure: Absolute Atmospheric pressure (inHg). Temperature: Temperature (°F).
- Humidity: Relative humidity (%).
- Latitude: The Shooter's latitude (degrees) for Coriolis calculations.

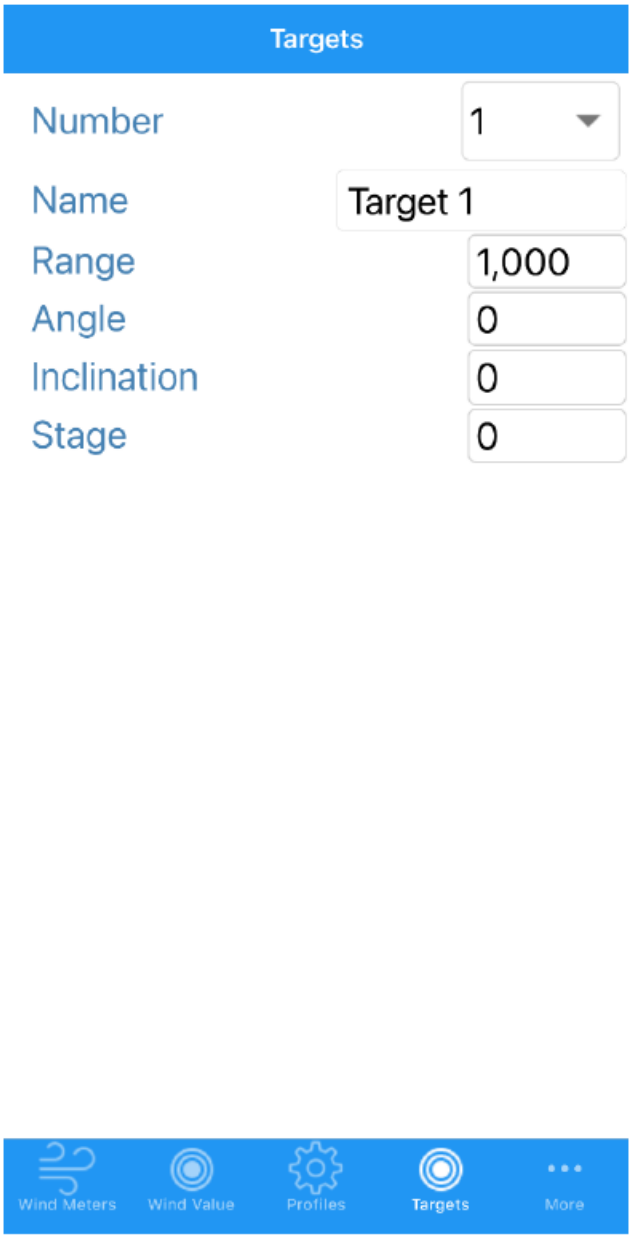
**Options**

- Use Aerodynamic Jump: Whether to include aerodynamic jump. Use Spindrift: Whether to include spin drift.
- Use Coriolis: Whether to include the Coriolis effect.
- Use Wind Zones: Whether to include wind zones

**Wind Zones**

Start Distance: Start ranges (yards) for each wind zone
**. Meter ID:** Wind Zero meter ID for the wind zone

**Targets**




- **Number:** Enter the Target number (1 – 20) to display
- **Name**: Name of target**Range:** Target range (yards).
- **Angle:** Horizontal angle of target from Wind Zero direction.
- **Inclination:** Target inclination angle (degrees).. Positive for up, negative for down. Stage: Stage # of Target

## FAQS

**Q: How do I change the unit for displaying results?**
A: You can change the unit (MOA or MIL) in the settings menu of the Wind Zero App.

**Q: Can I input multiple profiles for different bullets and rifles?**
A: Yes, you can create and save multiple profiles within the app for different setups.

## Documents / Resources

| | |
|---|---|
|  | Wind Zero Ballistic Calc Upgrade [pdf] Instructions<br>Ballistic Calc Upgrade, Calc Upgrade, Upgrade |

## References

- User Manual