

Environmental Considerations

Weather

- Temperature
- Wind Speed / Direction
- Ground Temperature / Thermals
- Humidity
- Barometric Pressure

Altitude

- Air Density
- Gravity

Coriolis Effect

Light Conditions (direction and intensity)

Target Speed / Direction

External Physical Barriers

Shooter Controllable / Fundamentals Errors

- Body Position
- Head Position / Cheek Weld
- Non-Moving Solid Platform
- Sight Alignment
- Wrong Trigger Pull / Trigger Weight / Crisp Break / Finger Placement
- Breathing Control / Natural Point of Aim
- Muscle Relaxation
- Anticipation of Recoil / Avoiding Recoil / Poor Follow Through
- Weapon Cant
- Wrong DOPE (including Firing Angle / Slope DOPE)
- Inconsistent Shoulder Pressure
- Inconsistent Rifle Grip

Shooter Uncontrollable Influences

- Fatigue
- Anxiety / Heart Rate
- Startle Response to External Stimuli / Flinching
- Shooter Health

Equipment

Ammunition

- Ballistic Coefficient
- Consistency of Build
- Quality of Materials
- Round Deflection
- Spin Drift

Weapon

- Quality of Materials
- Barrel Erosion / Corrosion
- Length of Barrel
- Barrel Harmonics / Whip
- Free Float
- Cold Bore
- Muzzle Burrs / Damage
- Fouling / Copper Build-up / Moly build-up
- Loose Bedding / Vibration
- Chamber Temperature / Barrel Temperature
- Twist Rate wrong for Ammunition Weight
- Improper Head Space
- Loose Barrel / Receiver
- Suppressor
- Scope Mount Loose

Scope

- Scope Quality / Broken
- Scope Alignment / Cant
- Improper Sight Alignment / Cheek Weld
- Parallax / Focus / Mirage
- Rings Loose
- Shift in Zero