

**MAJOR FACTORS CONTRIBUTING TO POOR ACCURACY**

**(Point of Impact and Group Size)**

<b><u>Cause</u></b>	<b><u>Probable Effect</u></b>
1. Bent Barrels a. Long Sweeps b. Bent under Ramp c. Eccentric mass due to ramp	Point of Impact
2. Enlargement of rifling (draw) and/or (cut) under ramp. a. Variation between lands and grooves b. Opening up under ramp	Group Size
3. Non-Uniform Rifling a. Oversize (over spec's) b. Bell mouth c. Tapered	Group Size
4. Muzzle Burrs a. Crowning burr b. Angular cut off c. Pilot damage d. Handling	Group Size and Point of Impact Group Size Point of Impact
5. Bedding a. Off center b. Too much pull	Group Size and Point of Impact
6. Damaged or pitted rifling (visual inspection)	Group Size
7. Eccentric Barrels a. O. D. with I. D. b. Ramp off center	Point of Impact
8. Twist (Gaged at Rifling)	Group Size and Point of Impact
9. Alignment of Barrel & Receiver (Not gaged at present)	Point of Impact
10. Stock stability a. Change of bedding	Point of Impact
11. Chambers a. Shallow & deep throat b. Eccentric bullet seat	Point of Impact and Group Size
12. Ammunition a. Sub-Standard b. Palma for rechecking (under consideration)	Point of Impact and Group Size

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|--|--------------------------------|
| 13. Shooter                              | Point of Impact and Group Size |
| a. Variable results in border-line cases |                                |
| 14. Material                             |                                |
| a. Barrel                                |                                |
| b. Bullet                                |                                |

Compiled by E. K. Wheat  
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ml