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V. PRELIMINARY MEASUREMENTS

The preliminary measurements recorded on the twenty-five rifles were within Remington Standards. Complete data sheets with all the recorded measurements is found in Appendix C, Data Sheet Nos. 2, 3, 4, 5, & 6.

Included on these data sheets are:

Headspace	Center of Gravity
Firing Pin Indent	Bolt Open Forces
Trigger Pull	Bore & Groove
Safe ON-OFF	Twist
Weight & Length	Safety Check
Chamber Cast Measurements	

The groove measurements taken on the barrels are incomplete because many of the barrels are four groove. The air gauges we currently have in the plant can only measure six groove barrels. The four grooved rifles are:

- Browning BBR - 3 rifles, all 30-06 Cal.
- Smith & Wesson M1500 - all five rifles
- Winchester M70XTR - 3 rifles, all 30-06 Cal.

Note: There was no reference made in any of the three manufacturer's literature or their catalogs stating that the barrels are four groove.

VI. LOCK TIME

Lock time was measured on five rifles consisting of one model from each manufacturer. The results are:

Remington M700	3.29 Msec.
Browning BBR	3.38 Msec.
Smith & Wesson M1500	3.81 Msec.
Winchester M70XTR	4.00 Msec.
Ruger M77	4.19 Msec.

Each of the above numbers is the mean of ten individual measurements per rifle. Refer to Appendix C, Data Sheet No. 7.