

IX.

	Measurement Location		
	A	B	C
"O" Rounds Cast	.5150"	.4930"	.3170"
"O" Proof Round	.5140"	.4930"	.3260"
Cast No. 1 (New Bolt)	.5275"	.4990"	.3260"
Cast No. 2 (New Bolt)	.527 "	.4980"	.3250"
Fired Proof Round (New bolt)	.527 "	.4980"	.3240"
Unfired Factory Round	.507"	.4930"	.3130"

Note: There were 225 rounds fired on this rifle between "O" rounds and the proof testing of the new bolt.

The "A" dimension went from .5150" to an avg. .5275". This is an expansion of .0121".

The "B" dimension went from .4930" to an avg. .4983". This is an expansion of .0053".

The "C" dimension went from .3170" to an avg. .3250". This is an expansion of .008".

A careful examination of the barrel revealed that the O.D. of the chamber area expanded .0095". This figure was derived by disassembling an older Winchester M-70 and measuring its O.D. at the chamber area for comparison.

Refer to Appendix A, Data Sheet No. 1, for the calculations.

Malfunctions

The malfunction rates recorded for endurance testing are low with exception of the Winchester M-70XTR - 7mm Rem.Mag.. It was removed from endurance testing at the 120 rd. level because of a defective bolt.

<u>Browning BBR</u>	<u>No. of Rds.</u>	<u>Malf.</u>	<u>Rate</u>
30-06 Cal. #0403RP117	0-500	3 - Follower Binds	0.6%
	501-1,000	5 - Stem Lows	1.0%
	1,000	8	0.8%
7mm Rem.Mag #09143RP117	0-500	0	0%
	501-1,000	4 - Stem low	4.4%
	1,000	18 - Shell Jumps Mag	2.2%
<u>Two Rifle Total</u>	<u>2,000</u>	<u>30</u>	<u>3.0%</u>