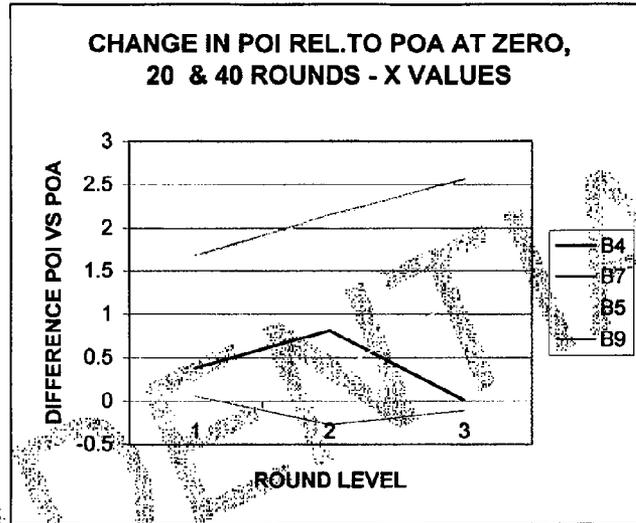


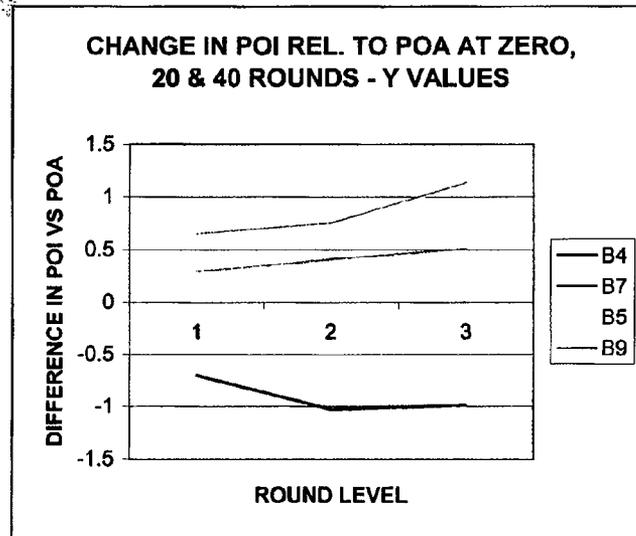
CHART OF POI VS. POA  
MODEL 710 CENTERFIRE RIFLE

PROJECT 242095  
TLW0323  
10 OCT. 2000

X	ROUND LEVEL		
	0	20	40
B4	0.38	0.81	0.004
B7	1.67	2.14	2.55
B5	0.23	0.29	1.22
B9	0.05	-0.28	-0.12



Y	ROUND LEVEL		
	0	20	40
B4	-0.71	-0.03	-0.99
B7	0.29	0.4	0.5
B5	-0.21	-0.04	-0.23
B9	0.64	0.75	1.13



ET06714

One-way Analysis of Variance - POI VS. POA -  
CHANGE FROM ZERO ROUNDS TO 20 ROUNDS TO 40 ROUNDS.

MODEL 710 - PHASE II TEST  
PROJECT 241095  
TLW0323  
10 OCTOBER 2000

Analysis of Variance - X VALUES

Source	DF	SS	MS	F	P
Factor	2	0.22	0.11	0.10	0.902
Error	9	9.51	1.06		
Total	11	9.73			

Individual 95% CIs For Mean  
Based on Pooled StDev

Level	N	Mean	StDev
ZERO RDS	4	0.582	0.737
20 ROUND	4	0.740	1.034
40 ROUND	4	0.913	1.247

Pooled StDev = 1.028

One-way Analysis of Variance - Y VALUES

Source	DF	SS	MS	F	P
Factor	2	0.023	0.011	0.02	0.981
Error	9	5.343	0.594		
Total	11	5.366			

Individual 95% CIs For Mean  
Based on Pooled StDev

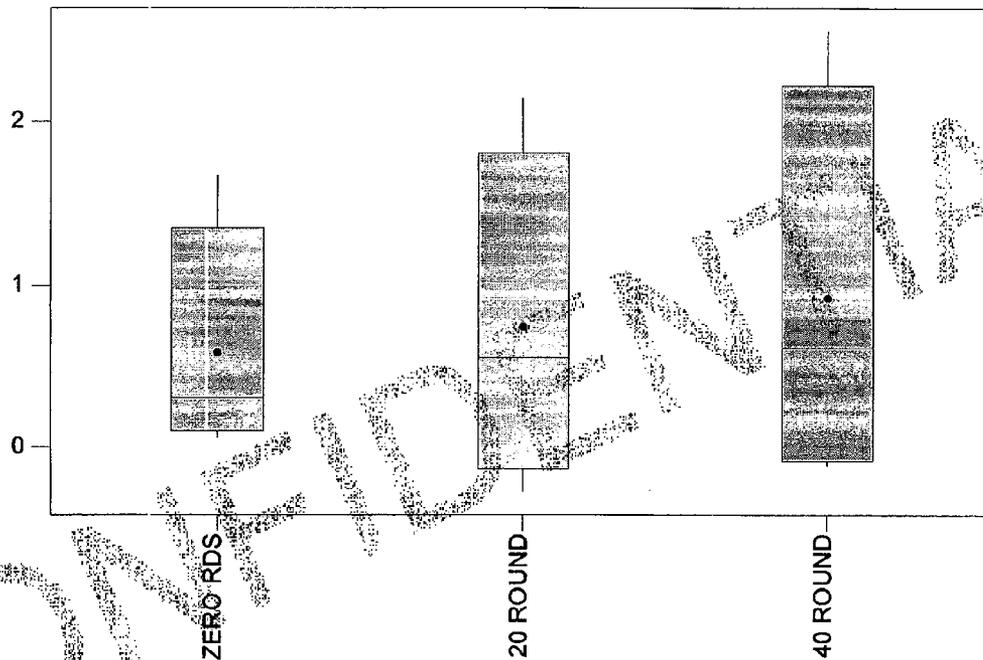
Level	N	Mean	StDev
ZERO RDS	4	0.0025	0.5893
20 ROUND	4	0.0200	0.7710
40 ROUND	4	0.1025	0.9161

Pooled StDev = 0.7705

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### Boxplots of ZERO RDS - 40 ROUND - X

(means are indicated by solid circles)

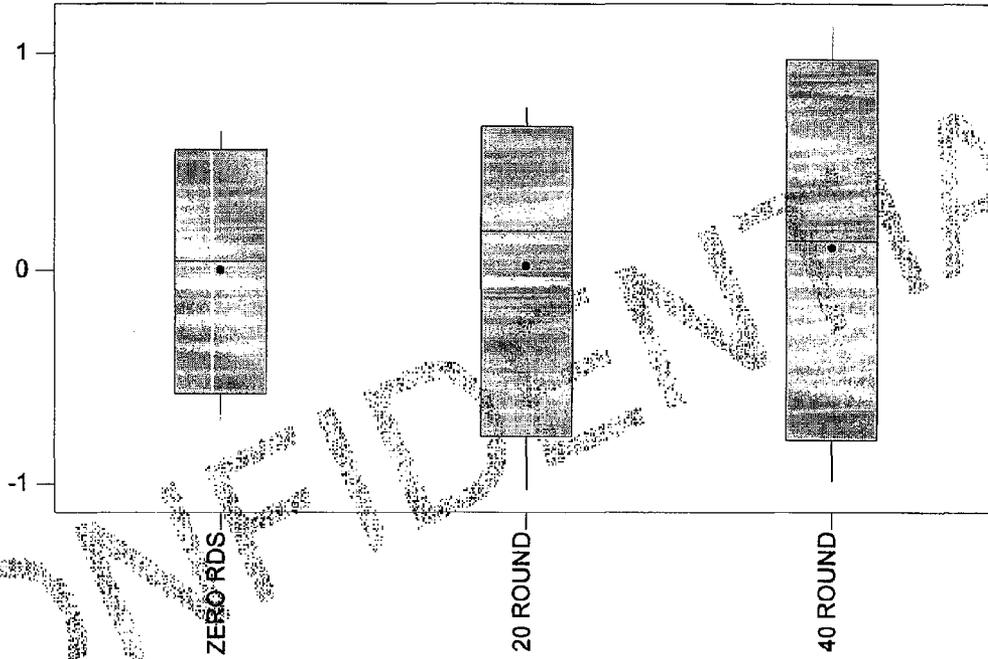


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### Boxplots of ZERO RDS - 40 ROUND - Y

(means are indicated by solid circles)



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ET06717

# Test Lab Work Request Form

Rev.3 -20 April, 2000

Date Submitted: 10/4/00	Tracking # : TLW 0323
Project # : 241095	Engineer: S. Franz for M. Keeney
<b>Test Objective: To determine if POI and Group Size change on a scoped M/710 .30-06 Cal. Rifle over a 40 rd. firing interval. Two different scopes will be tested. The first is the proposed Bushnell Scope and the second a Tasco. (See Mike Keeney for scopes and mounts.)</b>	
<b>Test Description:</b> <ul style="list-style-type: none"> <li>• Use 4 of the guns used in the SAAMI Drop, Jar-Off and Rotation Tests (TLW0319) after this testing is complete.</li> <li>• Inspect these guns thoroughly to be sure there are no broken parts or damage caused by the drop tests. Repair these guns as needed.</li> <li>• Check headspace, trigger pull and engagement. Make sure barrels and Bolt heads<sup>3</sup> were previously proofed. If not headspace, proof and headspace before continuing.</li> <li>• See Mike Keeney to obtain 2 Bushnell scopes and 2 Tasco scopes (w/mounts)</li> <li>• Mount each of these scopes to a different M/710.</li> <li>• Select one Remington Ammo type for all testing. (Record Lot #)</li> <li>• All testing to be done in the Long range.</li> <li>• Each gun to be tested as follows: <ul style="list-style-type: none"> <li>• Shoot 2 shots to warm the barrel and seat the action and scope.</li> <li>• Zero the gun in at 100 yds. (Do not adjust after this)</li> <li>• Shoot 3 5-shot groups for POI and Group Size determination. Shoot from the shoulder using the accuracy bench. (Do not adjust the scope)</li> <li>• Allow the gun to cool.</li> <li>• Shoot 20 rds. from the shoulder in a standing position. Accuracy and POI data not required for this phase of testing. (Use as much shoulder padding as needed)</li> <li>• Cool the gun.</li> <li>• Shoot 2 warmer shots and then 3 5-shot groups for POI and Group Size determination. Shoot from the shoulder using the accuracy bench. (Do not adjust the scope)</li> <li>• Cool the Gun</li> <li>• Shoot 20 rds. from the shoulder in a standing position. Accuracy and POI data not required for this phase of testing. (Use as much shoulder padding as needed)</li> <li>• Cool the Gun</li> <li>• Shoot 2 warmer shots and then 3 5-shot groups for POI and Group Size determination. (From the accuracy bench)</li> <li>• For each 5-shot group determine Group Size and POI relative to POA.</li> </ul> </li> </ul>	
<b>Resource Usage:</b> Manpower Requirements -2 techs.	<b>Test Results Required:</b> Formal Report:            Data Only: X

ET06718

Facility Requirements –Long Range	Requested Completion Date:
Required Materials/Parts/Equipment (include quantities):	
Test Parts Availability Date:	
Start Date: Completion Date: Report Date:	Test Assigned To: Assignment Date:

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