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July 25, 1951

TO: W. A. Best
 FROM: E. K. Wheat
 SUBJECT: GALLERY TARGETING - MODEL 721-722

The following report summarizes the .270 Cal. group size targeting data which has been recorded by gallery personnel during the period 4-30-51 to 7-20-51. The data reflects the extreme spread of the shots upon which a decision was made to pass or reject a gun for group size characteristics and includes both device and shoulder shooting. Guns listed as rejects were eventually accepted after re-shooting and/or repairing.

Total No. of Guns	- 2,908
Average Group Size	- 1.97"
Standard Deviation	- .6 "
No. of Guns Rejected (over 3½")	- 6
No. of Guns having one stamp (Bore Variation of .0005)	- 2,319
Average Group Size for Guns in this classification	- 1.95 inches
Standard Deviation " " " "	- .61 inches
No. of Guns Rejected (over 3½") " "	- 6
No. of Guns having two stamps (Bore Variation less than .0005)	- 589
Average Group Size for Guns in this classification	- 2.06 inches
Standard Deviation " " " "	- .54 inches
No. of Guns Rejected (over 3½") " "	0

Previous data gathered on the 270 Cal. during 1948 and 1949 is listed for comparative purposes.

	<u>Average Group Size (X)</u>	<u>Standard Deviation ()</u>
12-15-48	2.24"	.74"
3-28-49	2.23"	1.31"
3-23-49	2.15"	.91"
3-23-49	2.27"	1.04"
3-31-49	2.35"	.70"
4-16-51 to 4-30-51	1.76"	.53"
4-30-51 to 7-20-51	1.97"	.6"

By P. H. Eccleston
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