

*File**Comp. Arms Co.
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April 27, 1964

M/70 ACCURACY

Two M/70 Win. 30-06 caliber rifles (new style) were received and tested for accuracy. Two M/700 30-06 rifles were also checked for comparative accuracy. It was noted that the M/70 Win. rifles were ordered from Olin-Mathieson; therefore, may have been select rifles.

The four rifles were shot from the shoulder with 4-Power scopes. Factory ammo (Rem) was used for the test. Three 5-shot groups were fired with the two bullet weights in each rifle. Groups were measured center to center. Rifles were cooled after three groups were fired.

The barrels (groove diameter) were checked with an air gage. The Win. M/70 barrel No. 708258 measured .3085" at the breech and .3083" at the muzzle end, with some variations in length of the barrel. The bore was inspected with a borescope and some roughness was noted. It was also noted that there was indication of the non-uniformity of the bore in the way that the bullet jacket material was deposited. Win. M/70 barrel No. 707363 was .3086" breech and .3083" at the muzzle end, with considerable pitting as well as non-uniformity.

The Remington M/700 No. 100428 breech end groove diameter was .3088" and muzzle end .3093". Rifle No. 99991 measured at breech end .3086" and muzzle end .3083". The bores appeared good.

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The target results were as follows:

<u>Rifle and Serial No.</u>	<u>150 Gr. PSP Rem Lot No. B08RD</u>	<u>220 Gr. S.P. Rem Lot No. C20LD</u>
Win 70 708258	4.1 3.6 <u>1.9</u> 3.2 Ave.	1.4 2.3 <u>3.5</u> 2.4 Ave.
Win. 70 707363	4.5 4.2 <u>3.32</u> 4.01 Ave.	1.94 1.16 <u>2.30</u> 1.80 Ave.
Rem M/700 99991	2.40 2.66 <u>1.50</u> 2.19 Ave.	3.24 2.36 <u>2.50</u> 2.70 Ave.
Rem M/700 100428	2.12 2.08 <u>1.42</u> 1.87 Ave.	2.50 2.16 <u>2.58</u> 2.41 Ave.
Win. M/70 with 150 Gr. PSP with 220 Gr. SP	3.60 <u>2.10</u> 2.85 Ave.	
Rem M/700 with 150 Gr. PSP with 220 Gr. SP	2.03 <u>2.55</u> 2.29 Ave.	

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