

APR 27 1954

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April 26, 1954.

FROM: QUALITY CONTROL DEPARTMENT

SUBJECT: GALLERY TARGETING REPORT - M/721-722 and M/760 - MARCH 1954.

A Summary of Gallery Targeting data, as reported by Range Personnel, is attached. We make the following comments: -

GROUP SIZE:

There were no Group Size rejects reported.

POINT OF IMPACT:

For the sixth consecutive month, an excellent yield level between 97% and 99% was maintained.

A somewhat improved yield of 94.6% was realized, but the troublesome caliber - 30-06 - was out of the line.

At the request of Barrel Shop Supervizion, a program for determining causes of M/721 30-06 targeting rejects has been undertaken. Minutes of Meeting are attached.

QUALITY CONTROL DEPARTMENT
A. D. Gordon, Supervisor

W. S. Bryant

WSB/MAB

MODEL 721-722
GALLERY TARGETING - GROUP SIZE

CALIBER & MEASURE	1953 Quarter				1954 Quarter and Current Month				
	First	Second	Third	Fourth	Jan.	Feb.	Mar.		
<u>30-06</u>									
Total No. Guns	1809	799	1628	356	215	76	15		
Average Group Size	2.4"	2.2"	2.2"	2.3"	2.3"	2.4"	2.0"		
Standard Deviation	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"		
No. Guns Rejected	7	1	1	0	0	0	0		
% Guns Rejected	0.4%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%		
<u>270 Wsn.</u>									
Total No. Guns	952	510	590	313	45	18	No		
Average Group Size	2.1"	2.1"	2.1"	2.3"	1.9"	2.0"			
Standard Deviation	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"			
No. Guns rejected	1	3	0	0	0	0			
% Guns Rejected	0.1%	0.6%	0.0%	0.0%	0.0%	0.0%	Guns		
<u>300 Sav.</u>									
Total No. Guns	380	99	102	140	No	No	No		
Average Group Size	2.1"	2.2"	2.0"	2.1"					
Standard Deviation	0.5"	0.5"	0.5"	0.5"					
No. Guns Rejected	0	0	3	0					
% Guns Rejected	0.0%	0.0%	3.0%	0.0%	Guns	Guns	Guns		
<u>222 Rem.</u>									
Total No. Guns	2937	4017	883	1802	No	275	594		
Average Group Size	1.7"	1.6"	1.6"	1.7"		1.6"	1.6"		
Standard Deviation	0.4"	-	-	-		0.25"	-		
No. Guns Rejected	70	39	1	3		0	0		
% Guns Rejected	2.4%	1.0%	0.1%	0.2%	Guns	0.0%	0.0%		
<u>300 Nag.</u>									
Total No. Guns	278	4	149	21	No	No	No		
Average Group Size	2.3"	-	2.1"	2.3"					
Standard Deviation	0.5"	-	0.5"	0.5"					
No. Guns Rejected	0	0	0	0					
% Guns Rejected	0.0%	-	0.0%	0.0%	Guns	Guns	Guns		
<u>257 Roberts</u>									
Total No. Guns	1239	368	209	20	No	104	144		
Average Group Size	1.7"	1.6"	1.6"	1.7"		1.5"	1.6"		
Standard Deviation	0.4"	-	-	-		0.4"	-		
No. Guns Rejected	44	0	0	0		0	0		
% Guns Rejected	3.6%	0.0%	0.0%	0.0%		0.0%	0.0%		

MODEL 760

GALLERY TARGETING - GROUP SIZE

CALIBER & MEASURE	1953 Quarter				1954 Quarter and Current Month				
	First	Second	Third	Fourth	Jan.	Feb.	Mar.		
<u>30-06</u>									
Total No. Guns	8737	9078	956	2213	730	119	1181		
Average Group Size	2.3"	2.1"	2.2"	2.2"	2.2"	2.3"	2.2"		
Standard Deviation	0.6"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"		
No. Guns Rejected	35	8	2	0	1	1	0		
% Guns Rejected	0.4%	0.1%	0.2%	0.0%	0.1%	0.8%	0.0%		
<u>300 Sav.</u>									
Total No. Guns	3205	3238	570	50	41	202	8		
Average Group Size	2.1"	2.0"	2.0"	2.2"	2.1"	2.4"	2.5"		
Standard Deviation	0.6"	0.5"	0.5"	-	0.5"	0.5"	-		
No. Guns Rejected	20	0	3	0	0	0	0		
% Guns Rejected	0.6%	0.0%	0.5%	0.0%	0.0%	0.0%	0.0%		
<u>35 Rem.</u>									
Total No. Guns	2873	No	338	93	149	24	1		
Average Group Size	2.2"		2.1"	2.1"	2.0"	2.25"	-		
Standard Deviation	0.7"		0.5"	0.5"	0.5"	0.5"	-		
No. Guns Rejected	10		0	0	0	0	0		
% Guns Rejected	0.4%	Guns	0.0%	0.0%	0.0%	0.0%	-		
<u>270 Win.</u>									
Total No. Guns	4315	8762	681	38	No	737	160		
Average Group Size	2.2"	2.0"	2.1"	2.1"		2.1"	2.3"		
Standard Deviation	0.6"	0.5"	0.5"	0.45		0.5"	0.5"		
No. Guns Rejected	14	3	0	0		0	0		
% Guns Rejected	0.3%	0.0%	0.0%	0.0%	Guns	0.0%	0.0%		
<u>30-06 (M/740)</u>									
Total No. Guns							13		
Average Group Size							2.5"		
Standard Deviation							0.5"		
No. Guns Rejected							0		
% Guns Rejected							0.0%		

GALLERY TARGETING - POINT OF IMPACT

MARCH 1954
MODEL 721 - 722

Caliber	No. Guns	No. Rejects	High	Low	Right	Left	% Reject
270	6	0	0	0	0	0	0.0%
30-06	174	4	0	4	0	0	2.3
257	1498	77	4	38	5	30	5.1
222	635	44	0	31	12	1	6.9
300 Sav.	-	-	-	-	-	-	-
300 Mag.	-	-	-	-	-	-	-
TOTAL	2313	125	4	73	17	31	5.4%

MODEL 760

CALIBER	No. Guns	No. Rejects	High	Low	Right	Left	% Reject
270	1528	45	14	2	16	13	2.9%
35 Rem.	10	0	0	0	0	0	0.0
300 Sav.	53	1	0	0	0	1	1.9
30-06	10490	138	15	42	66	15	1.3
30-06(740)	20	3	0	3	0	0	15.0
TOTAL	12101	187	29	47	82	29	1.5%