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TO: W. A. BEST

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:

M/721-722
and M/760

There were no Group Size rejects reported.

POINT OF IMPACT:

M/760

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

M/721-722

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 Supervision, 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

BY

W. S. Bryant
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 Wm.</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"	No
Standard Deviation	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	No
No. Guns Rejected	1	3	0	0	0	0	Guns
% Guns Rejected	0.1%	0.6%	0.0%	0.0%	0.0%	0.0%	Guns
<u>300 Say.</u>							
Total No. Guns	380	99	102	140	No	No	No
Average Group Size	2.1"	2.2"	2.0"	2.1"	No	No	No
Standard Deviation	0.5"	0.5"	0.5"	0.5"	No	No	No
No. Guns Rejected	0	0	3	0	Guns	Guns	Guns
% Guns Rejected	0.0%	0.0%	3.0%	0.0%	Guns	Guns	Guns
<u>222 Rem.</u>							
Total No. Guns	2937	4017	883	1892	No	275	594
Average Group Size	1.7"	1.6"	1.6"	1.7"	No	1.6"	1.6"
Standard Deviation	0.4"	0.4"	0.4"	0.4"	No	0.5"	0.5"
No. Guns Rejected	70	29	1	3	Guns	0	0
% Guns Rejected	2.4%	1.0%	0.1%	0.2%	Guns	0.0%	0.0%
<u>200 Nag.</u>							
Total No. Guns	278	4	149	21	No	No	No
Average Group Size	2.3"	-	2.1"	2.3"	No	No	No
Standard Deviation	0.5"	-	0.5"	0.5"	No	No	No
No. Guns Rejected	0	0	0	0	Guns	Guns	Guns
% Guns Rejected	0.0%	-	0.0%	0.0%	Guns	Guns	Guns
<u>257 Roberts</u>							
Total No. Guns	1239	368	209	29	No	105	144
Average Group Size	1.7"	1.6"	1.6"	1.7"	No	1.5"	1.6"
Standard Deviation	0.4"	-	-	-	No	0.4"	0.4"
No. Guns Rejected	44	0	0	0	No	0	0

MODEL 760

GALLERY TARGETING - GROUP SIZE

CALIBER & TREASURE	1953 Quarter				1954 Quarter and Current Month			
	First	Second	Third	Fourth	Jan.	Feb.	Mar.	
<u>30-06</u> Total No. Guns Average Group Size Standard Deviation No. Guns Rejected % Guns Rejected	8737 2.3" 0.6" 35 0.4%	9078 2.1" 0.5" 8 0.1%	956 2.2" 0.5" 2 0.2%	2213 2.2" 0.5" 0 0.0%	730 2.2" 0.5" 1 0.1%	119 2.3" 0.5" 1 0.8%	1181 2.2" 0.5" 0 0.0%	
<u>300 Sav.</u> Total No. Guns Average Group Size Standard Deviation No. Guns Rejected % Guns Rejected	3205 2.1" 0.6" 20 0.6%	3238 2.0" 0.5" 0 0.0%	570 2.0" 0.5" 3 0.5%	50 2.2" - 0 0.0%	41 2.1" 0.5" 0 0.0%	202 2.4" 0.5" 0 0.0%	8 2.5" - 0 0.0%	
<u>35 Rem.</u> Total No. Guns Average Group Size Standard Deviation No. Guns Rejected % Guns Rejected	2873 2.2" 0.7" 10 0.4%	No Guns	338 2.1" 0.5" 0 0.0%	93 2.1" 0.5" 0 0.0%	149 2.0" 0.5" 0 0.0%	24 2.25" 0.5" 0 0.0%	1 - - 0 -	
<u>270 Win.</u> Total No. Guns Average Group Size Standard Deviation No. Guns Rejected % Guns Rejected	4315 2.2" 0.6" 14 0.3%	8762 2.0" 0.5" 3 0.0%	681 2.1" 0.5" 0 0.0%	38 2.1" 0.45 0 0.0%	No Guns	737 2.1" 0.5" 0 0.0%	160 2.3" 0.5" 0 0.0%	
<u>30-06 (M/740)</u> Total No. Guns Average Group Size Standard Deviation No. Guns Rejected % Guns Rejected							12 2.5" 0.5" 0 0.0%	

GALLERY TARGETING - POINT OF IMPACT

MARCH 1954
MODEL 721 - 722

Caliber	No. Guns	No. Rejects	High	Low	Right	Left	% Rejec
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	5.3

MODEL 760

CALIBER	No. Guns	No. Rejects	High	Low	Right	Left	% Rejec
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