

PROGRESS REPORT
M/721 - .30-06 Testing
M/722 - .220 Swift Testing

Period: January 23, 1946, to March 13, 1946
Project: FTD-151-2 W.O. 70243 - M/721
W.O. 70244 - M/722
Amount Authorized: W.O. 70243 - \$400.00 Spent \$519.44
W.O. 70244 - \$400.00 Spent: \$59.42
Previous Progress Reports: None
Notebook #334
Prepared By: R. W. Angell, J. F. Finnegan and C. J. Kirchen

Introduction

This is the third report on testing the various calibers of the M/721 and 722, earlier ones having dealt with the .300 Savage and .300 H and H Magnum (September 24, 1945), and the .270 Winchester and .257 Remington Roberts (February 15, 1946). Extractor and Sear difficulties encountered in the first testing had been overcome, so testing has been aimed at checking firing performance of the model and thus has been less extensive.

The guns were assembled from the parts list in effect September 24, 1945.

Objective

The testing was designed to investigate the accuracy and performance of the models in the .30-06 and .220 Swift calibers.

Work Program

The testing schedule involved thirty-one steps of tests for each gun, including 6260 functional cycles: 1860 live fire and 5000 dry fire with dummies; and quantitative tests such as trigger pull, firing pin indentation, and bolt lift. The guns were cleaned at intervals of 500 rounds.

It should be noted that, except for the barrel, the guns had the same parts that were in the M/721-.270 Winchester and M/722-.257 Roberts, so this report alone reflects approximately only one-half the total testing on the guns, exclusive of the barrels. For reasons given below, the M/722-.220 Swift was withdrawn from testing, but the schedule was finished on the M/721-.30-06.

Remington ammunition fired in the .30-06 covered what was available at the time. These types of cartridges are denoted by an asterisk (*) in the following list of Remington and Peters ammunition: