

CC: S. M. Alvis  
E. S. Foote

November 7, 1949

TO: H. J. Hackman (2)  
FROM: W. E. Leek  
SUBJECT: ACCURACY & FIELD PERFORMANCE - 222 REMINGTON AMMUNITION

The following is a report pertaining to our findings concerning the inherent accuracy of Lot U28M104, 222 Remington Ammunition and the results of actual field tests on vermin. Specifications of the accuracy test were as follows.

1. Bull gun with 20 power scope.
2. Ammunition lot U28M104.
3. Firing rate - 1 shot every 30 seconds.
4. Bench type gun rest with sand bag support at fore-end and stock.
5. 2 shooters - C. J. Theriault & W. E. Leek.
6. Enclosed 100 yard range.
7. Extreme spread measurements (inside to inside) 6 ten shot groups.

Results of the accuracy test were as follows.

| Shooter         | Target | E. S. | V. S. | H. S. |
|-----------------|--------|-------|-------|-------|
| W. E. Leek      | 1      | .7    | .65   | .4    |
|                 | 2      | .9    | .65   | .85   |
| C. J. Theriault | 1      | 1.3   | .4    | 1.3   |
|                 | 2      | .9    | .7    | .9    |
|                 | 3      | .6    | .5    | .6    |
|                 | 4      | 1.2   | .7    | 1.0   |
| Total           |        | 5.6   | 3.6   | 5.05  |
| Av.             |        | .9    | .6    | .84   |

The objective in the field test conducted by W. E. Leek and the writer was to determine performance of the 22 grain bullet on vermin, at various ranges, brush penetration, ricochets on rocks (wet and dry ground), etc.

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-2-

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Results of this test show the following.

1. Complete ricochets were not possible under any circumstance.
2. Effect on vermin such as crows and chucks was very good giving good clean kills up to 200 yards.
3. Brush penetration tests show that complete disintegration of the bullet can be expected when fired thru green trees 1/2" in diameter.

REMARKS:

It is the writer's opinion that the accuracy of the 222 ammunition, if held to the specifications of Lot UC8M104, will be satisfactory for vermin shooting and that the bullet disintegrates satisfactorily preventing dangerous ricochets.

W. E. Leek  
Arms Technical Division

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