

REMINGTON ARMS COMPANY, INC.  
LONOKE, ARKANSAS

MAY 27, 1993

TO: T. C. DOUGLAS  
FROM: V. F. SCARLATA *RS*  
SUBJECT: PROGRESS REPORT, MAY, 1993

12 GA. PREMIER SLUG

From loading, tests are continuing to shoot very well with no problems with V-P or accuracy, which is in the 2.0" range.

While this project is being closed out, work will continue on improving the process and reducing cost.

The slug vendors are still having some problems with visual defects and chips in their shipments. Purchase specifications for copper slugs and shotgun Sabots have been completed and are being routed for approval. A third slug vendor has been approved for production.

The study on in-house slug manufacture, an alternate form of manufacturing is continuing.

12 GA. 3" PREMIER SLUG

We were unable to obtain acceptable accuracy using the present slug and Sabot in our present 3" shells at a velocity level of 1550 fps. We are presently looking at a 3" shell with a .400" PBW, which will allow us to use the regular Sabot wad column. Obtaining 1550 fps with this shell is not a problem, and accuracy testing is underway.

A second shooting of the competitive 3" BRI-style slug offering gave V-P an accuracy result much like the first test. Federal gave 1400 fps and WW 1550 fps, accuracy was in the 3" range.

20 GA. 2 3/4" PREMIER SLUG

The experimental mold should be completed by 6/15. Quotes for the manufacture of 10,000 20 ga. slugs for mold development and experimental run are being obtained. Prices for 10,000 Noryl wads have also been obtained and will be placed on order when the second vendor's quotes are in.

The slug hopper has been placed on order and should be ready by 7/1.

Ilion has a quantity of WW 20 ga. BRI product. They are sending a 100 rounds for testing.

16 GA. STEEL 15/16 OZ.

No change from last month.

SUPPRESSED POWDER

Experimental runs were made on NSL12MgTT using 280 and PR12 3.5-6 using 391. The hot and cold V-P testing showed little or no difference in the suppressed or regular powder. Pictures of the muzzle and break flash will have to be recorded to determine if and how much improvement has been made in the reduction of flash using these powders.

12 GA 3 1/2" STEEL

The vendor was not happy with the way the wad mold ran. Although acceptable product was produced, they felt that a rework of the mold was required. The tools are presently being reworked. A second sample of wads will be tested when the mold is ready.

410 2 1/3 SKEET (NEW POWDER)

Three samples of powder have been obtained from Hercules for handload development in this load.

A field test comparing old and new WW410 skeet loads to our present 410's the new R.C. shell and product loaded several years ago to see how they compared from an unburned powder standpoint produced the following results:

- o The old and new WW product was the same and had the most unburned powder.
- o The old Rem loaded several years ago(8188 - 205) had the least.
- o The R.C. shells and the present 410's were between the above.

410 2 1/2 SKEET R.C

The shells loaded last month were not acceptable as a replacement for our present product. Several changes are being made to the R.C. shells. Testing of the new design is underway.

28 Ga. R.C.

A field test was conducted comparing old and new WW, R.C. and our present 28 ga. skeet loads. The old and new WW shells, when fired, produced a large amount of unburned powder, the R.C. and present Remington 28 ga. shells were very clean and produced almost no unburned powder.

Reloading tests comparing WW, R.C. and our present shell indicates that all three can handle 10 reloads with minimal defects.

BELL COW TARGET LOADS

A run of 25,000 rounds of this special RTLM12 7 1/2 were made. The ballistics V-P was really excellent. We have or had  $\approx$  150,000 shells that can be used for this product.

12 GA. TARGET LOADS

Work is under way to improve the ballistic relationship of our target loads by optimizing the powder and primer relationships.

458 WIN MAG 450 g SWIFT

No change from last month.

7m/m REM MAG SWIFT (SAFARI LINE)

The 180 g bullets have been promised for 6/1. We hope to have 160 and 180 g available for the Safari in July.