

REMINGTON ARMS COMPANY, INC.
LONOKE, ARKANSAS

JUNE 29, 1993

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

12 GA. PREMIER SLUG

This product is again running on 527 Simplex loader. There were no problems in setting up the machine, and the product continues to run well within specifications.

The purchase specifications for the copper slug and shotgun sabots have been approved and issued.

The inspection procedures for the incoming slugs and sabots have been issued to the vendor.

12 GA. 3" PREMIER SLUG

The .400" PBW shell did not work out as planned. We were unable to get the velocity E.V.'s low enough to produce acceptable accuracy.

We are presently looking at two concepts, both of which look promising in preliminary testing. The first is a .57 cal., 500 g slug at 1400 fps, and the second is our present slug with a .250 PBW shell and a .280" Pkl wad at 1600 fps.

The larger slug will have less energy and greater trajectory and momentum than the present 425 g slug, which will have greater energy but less trajectory and momentum.

	<u>Velocity</u>	<u>Energy</u>	<u>Momentum</u>	<u>Drop at 100 Yds.</u>
.57 Cal. 500 g	1400	1984	2.73	4.7
.52 Cal. 425 g	1600	2415	3.02	3.5
.52 Cal. 425 g	1450	2217	3.17	4.2

20 GA. 2 3/4" PREMIER SLUG

Testing of the W.W. BRI 20 ga. slugs produced a velocity of 1375 fps with 3" accuracy out of a 26" test barrel at 100 yards.

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20 Ga. 2 3/4" Premier Slug Cont'd

Our sabot mold has been completed and the first sample of sabots have been tested. They produced accuracy that averaged 3 1/2" at 100 yards, but there is a problem with fliers, probably due to the loss of petals when the sabots are fired. A minor rework of the mold is underway, and a second sample of sabots should be available for testing in two weeks.

The orders for 10,000 slugs and Noryl disks have been placed; these should take us through testing and an experimental production run.

SUPPRESSED POWDER

Testing of the NSTL 12 Mag TT and PR 12 3.5-6's for breach and muzzle flash produced no difference between the shells loaded with the regular 380 and 381 powder and those loaded with the suppressed 380 and 381. The powder vendor felt that we were seeing the primary flash and that the suppressant would not reduce this primary flash, but only reduce the secondary flash.

Pictures of the muzzle and breach flash are being sent to the vendor for him to study.

12 GA. 3 1/2" STEEL

We have been promised 200M wads by the end of this week. A second wad test indicated that the wads were acceptable.

410 2 1/2" SKEET LOADS

Of the three powders tested from Hercules, only the HM 90 sample looked like it might work for this product. A larger sample has been requested for testing.

W.W. is also sending a couple of Ball powder samples that they feel we might be able to use.

These powders will probably work in our new R.C. shell as well.

410 - 28 GA. R.C. SKEET

No change from last month.

BELL COW TARGET LOADS

No change from last month.

12 GA. TARGET LOADS

W. W. is submitting a sample of modified WAA90 for our testing.

458 WIN MAG 450 SWIFT

No change from last month.

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7m/m REM MAG SWIFT (SAFARI LINE)

The loaded rounds with both 160 and 180 g Swift bullets were sent to Wilmington to be used on the safari. The accuracy for both of these bullets was in the 1 1/2 inch range. The 180 g bullets had a velocity of 2700 fps, and the 160 g, 2900 fps.