



ROCKET SEEDS™ NUTRITIONAL SEED-APPLIED PRODUCTS IN SOYBEANS

KEY FINDINGS:

**ROCKET SEEDS
MOLY LIQUID**

+ PROACQUA® PULSE

INCREASES YIELD BY

+10.8 BU/AC

VS. THE GSP ALONE

OBJECTIVE:

A plant nutrition program that includes nickel, cobalt and molybdenum is fundamental to support biological nitrogen fixation and maximize yield potential in soybeans. The objective of this study was to demonstrate the benefit of Compass Minerals Rocket Seeds Moly Liquid seed treatment applied in combination with foliar applications of ProAcqua Pulse in soybean production.

OVERVIEW:

Rocket Seeds Moly Liquid seed treatment is a unique blend of micronutrients that is readily available to the developing plant early in the season. Moly Liquid helps catalyze early season nodule growth while ProAcqua extends the life of nodules in nitrogen fixing crops allowing for more nitrogen uptake to increase yield.

FIELD TRIAL DETAILS:

Location(s): Brazil, one location

Trial Design: Large Strip Trial, Randomized Complete Block Design w/ Three Replicates

Crop: 'P46A93X' Soybean

Soil Profile: pH = 5.7 Soil Texture = Clay

Stats: General Linear Model,
Least Squares Means Student's t ($P \leq 0.05$)

Treatments:

1. Grower Standard Practice (GSP)
40 lb P_2O_5 /ac + 80 lb K_2O /ac + 54 lb S/ac + Liquid Inoculant
2. GSP w/ **Moly Liquid Seed Treatment**
ProAcqua Pulse Foliar Applied at 6 oz/ac @ V6



ROCKET SEEDS™



PROACQUA®

RESULTS:

Application of Moly Liquid seed treatment followed by an in-season application of ProAcqua Pulse at V6 significantly increased the fresh mass of nodules per plant by 52% relative to the GSP alone (Figure 1). The number of nodules also increased from 61 to 72 nodules per plant, although this was not statistically significant.

RESULT: +52% fresh nodule mass

The combination of Moly Liquid seed treatment and ProAcqua Pulse applied at V6 also increased soybean yield by more than 10 bushels per acre relative to the GSP alone (Figure 2).

RESULT: +10.8 bu/ac

Soybean yield

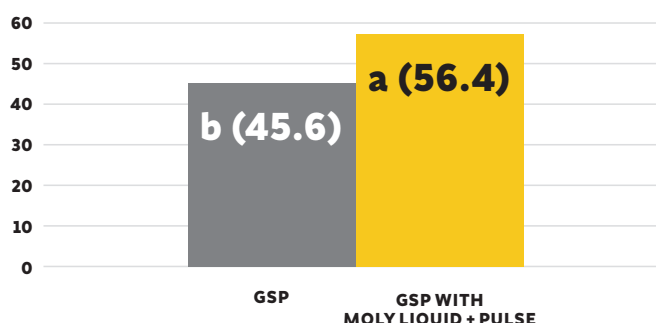


FIGURE 2. Soybean yield (bu/ac). P<0.05

Fresh mass of nodules

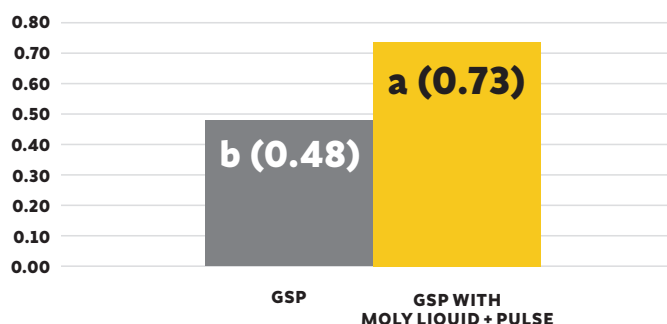


FIGURE 1. Fresh mass of nodules (g/plant) at R3. P<0.10

SUMMARY:

The results of this field study demonstrate the potential synergistic benefits of applying Moly Liquid seed treatment in combination with ProAcqua Pulse at V6. The combination of these two products supplies nickel, cobalt and molybdenum for biological nitrogen fixation, which is known to contribute to maximizing yield potential.

Rocket Seeds Moly Liquid seed treatment is a unique blend of micronutrients that is readily available to the developing plant early in the season. Moly Liquid helps catalyze early season nodule growth which can translate into additional yield. **Apply Rocket Seeds Moly Liquid seed treatment followed by a foliar application of ProAcqua Pulse at V6 to ensure adequate nitrogen metabolism in soybean crops.**



For more information visit
rocketseedsnutrition.com or compasscrops.com.

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