

In-Furrow Starter Fertilizer on Soybeans

EXPERIMENT INFO

Planted: 05/29/2016

Harvested: 10/25/2016

Variety: PS2082NR2 with CruiserMaxx

Population: 160,000 seeds/ac

Row Width: 30"

Prev. Crop: Corn

Plot Size: 30' x 675'

Replications: 3

SOIL DATA

pH: min: 6.0; max: 7.0

CEC: min: 4.8; max: 5.6

% OM: min: 1.4; max: 1.6

% P: min: 20.0; max: 22.0

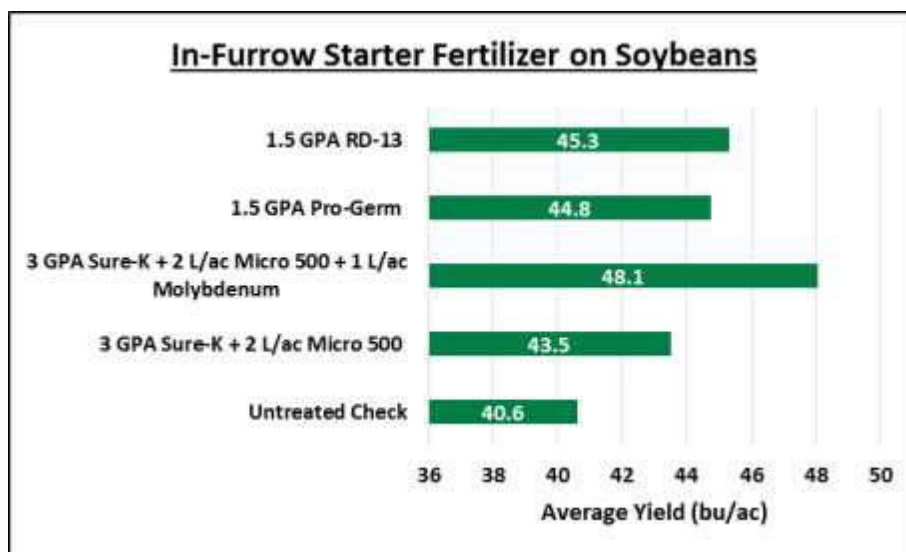
% K: min: 2.3; max: 3.1

% Mg: min: 10.4; max: 14.9

% Ca: min: 59.0; max: 68.5

Objective:

There is continued interest in increasing soybean yields, and growing interest in using starter fertilizer in soybean production. Historically, however, starter fertilizer has not produced consistent yield increases in soybeans (Staton, 2014). This lack of positive response to starter fertilizer has been at least partially attributed to not incorporating adequate amounts of the proper nutrients in the starter fertilizer (Staton, 2014). This trial aims to provide insight into which nutrients are most likely to produce a positive yield response when included in a starter fertilizer program for soybeans.



Conclusions:

In last year's in-furrow starter fertilizer on soybeans trial, we saw notable yield boosts with the 1 L/ac Moly + 7 L/ac water treatment, as well as with the 3 GPA Sure-K + 2 L/ac Micro 500 treatment.

This year, we modified our starter fertilizer treatments so that the strongest-performing elements were combined into one program.

The strongest results in 2016 came from 3 GPA Sure-K + 2 L/ac Micro 500 + 1 L/ac Molybdenum. This treatment provided a 7.5 bu/ac yield advantage over the untreated check.

1.5 GPA RD-13 and 1.5 GPA Pro-Germ also gave notable yield advantages of 4.7 bu/ac and 4.2 bu/ac, respectively.