

Experiment Info:

Planted: 5/28
Variety: Pioneer 95Y70
Row Spacing: 19"
Previous Crop: soybeans
Harvested: 11/10

Soil Test Values (ppm):

pH: 6.8
CEC: 10.2
% OM: 1.8
M3-P: 56
M3-K: 107
M3-S: 8
% K: 2.5
% Mg: 29.6
% Ca: 63.3
% H: 3.0
% Na: 1.6
Zn: 1.5
Mn: 22
B: 1.2

Objective:

Evaluate MicroLink Molybdenum as part of seed treatment for soybeans.

In this part of the country, soybean seed is treated with an inoculant as well as with molybdenum which has shown benefits for soybean growth. However, it is reported that molybdenum can have an adverse effect on the live Rhizobia bacteria that is the inoculant. As such, it is recommended that treated soybean seed should be planted the same day as the seed treatment. This, of course, can be very impractical. So an experiment was established to evaluate several soybean treatments for effects on soybean yield. The treatments are: no seed treatment; inoculant only (Launcher); inoculant + RTA Moly; and inoculant + microLink Molybdenum. Product application rates (per bushel of seed) are: Launcher: 1.7 oz; RTA Moly: 2.5 oz; and microLink Molybdenum: 2 oz. Treatments were mixed in a tub to simulate mechanized seed treatment. Part of the experiment had soybeans planted within hours of treatment and then another planting five days later. Treatment and yields appear in the table.

Effect of Soybean Seed Treatment and Planting Date			
R&D Research. Washington, LA - 2012			
		Yield - Bu/A	
		Planting date	
seed treatment (5/23)		23-May	28-May
1	check	44.7	
2	Launcher only	51.7	48.1
3	Launcher + RTA Moly	51.3	50.9
4	Launcher + microLink Moly	53.9	51.8

LSD(0.1): 4.5; LSD(0.2): 2.6; CV: 9.4%

Conclusions:

- All of the seed treatments increased yield over that with no seed treatment (check).
- The Launcher + microLink Moly treatment had the highest yield on both planting dates.
- There was a slight yield decrease with planting five days after seed treatment. But it appeared that both of the molybdenum treatments increased the yield of the Launcher only.
- These results will be discussed with professionals in the seed treatment business to further understand the role of molybdenum and to determine the potential for the new treatment of microLink Moly. Further testing will follow in 2013.