# Nebraska On-Farm Research Network

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| ***Years:*** | 2013 |
| ***Title:*** | Soybean Inoculant |
| ***Crop:*** | Soybean |
| ***County:*** | Hamilton |
| ***Study ID:*** | 073081201303 |
| ***Objective:*** | To determine and document the effect of Magnify inoculant on the profitability of soybean production. Check no inoculant |
| ***Treatments:*** | Conklin Magnify LST Inoculant 8.4 fl oz per acre in-furrow |

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## Information: 2013 Soybean - Inoculant

### Conklin Magnify - Live Microbial Soybean Seed Inoculant

Inoculation is the most cost-effective method of providing nitrogen to legume crops. In order to maximize your crop's yield, many leading university research studies recommend inoculation with a high-quality, high-potency product like Magnify LST. Conklin's live microbial liquid soybean inoculant uses superior technology that effectively grows your soybean yields at a low cost per acre. Magnify LST, when used at designated rates, will provide 10 - 20 times the level of live, nitrogen-fixing bacteria to each seed in a soybean planting system than traditional technology. Magnify LST is a liquid seed inoculant containing three billion viable bacteria cells per gram. These bacteria, Bradyrhizobium japonicum, provide nitrogen for plant growth by a process called nitrogen fixation. The symbiotic relationship between the bacteria and plant allows the bacteria to perform efficient, effective nodulation on the soybean root allowing more nitrogen fixation to occur. And the bacteria derive nutrition from the plant. Higher soybean yields and protein content, healthier plants and increased profits are proven results on both new and repeat soybean acreage.

- High Potency
- Safe and easy-to-use
- Scientifically-proven to increase yields
- Convenient, non-frozen, non-refrigerated formula
- Flexible seed treatment and in-furrow application methods

Application Rates

**For seed application:** Apply as is at a rate of 2.1 oz. per 50 lbs. of soybean seed.

**For in-furrow application:** Apply 8.4 oz. per acre in water volume sufficient to provide uniform coverage. In-furrow application must deliver inoculant on seed to be effective.

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## Results: 2013

### Soybean - Inoculant

| | Yield | Moisture | Cost |
|---|---|---|---|
| Check | 84.2 A | 10.6 A | -- |
| Innoculant | 82.3 A | 10.7 A | $1.63 |
| Prob>/T/ | ns | ns | |

**SUMMARY:** The untreated yield was higher than the treated yield, but the differnce was not supported by the statistical analysis.

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