Nebraska On-Farm Research Network

Years:	2012
Title:	Inoculant
Crop:	Soybeans
Study ID:	073081201202
County:	Hamilton
Objective:	Study effect of inoculant on soybean production and profitability.
Treatments:	Check vs XiteBio Inoculant

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Information: 2012
Soybean - Innoculant
Varieties:
AgVenture 31K3 & 33X1

Soil:
Hastings Silt Loam

Establish
Verdict @ 5 oz
Roundup @ 24 oz
Sugar @ 1 qt
Targa @ 5 oz
Headline 3 oz

XiteBio® SoyRhizo
For Soybean

Features of SoyRhizo:

- **Active Ingredient:**
  2×10⁹ *Bradyrhizobium japonicum*
- **Formulation:**
  Ready-to-Use Liquid
- **For use on:**
  Soybean
- **Application:**
  On-seed or In-furrow
- **Package size:**
  2.5 L (4x50 Unit Case)
  10 L (1x200 Unit Case)
- **Application Rate:**
  On-seed:
  2.0 fl oz/60 lbs (60 ml/27 kg)
  In-furrow:
  0.5 fl oz/100 ft row (15 ml/304 m row)
- **Seed Treatment Compatibility:**
  Compatible with most popular soybean seed treatments
- **Yield Increase:**
  As high as 26 bu/ac
  9 bu/ac on average in 2011 trials

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Results: 2012

Soybeans-Yield

Inoculant

Treatment	Check	XiteBio
Yield, bu/ac @13%	73.0	75.9
Cost/Acre	---	$3.40
Prob>/T/ 0.5027 ns	A	A

Variety	31K3	33X1
Yield, bu/ac @13%	82.2	66.8
Cost/Acre	$54	$54
Prob>/T/ 0.0038**	A	B

Variety * Treatment	31K3+Xite	31K3	33X1+Xite	33X1
Yield, bu/ac @13%	83.6	80.8	68.3	65.2
Cost/Acre	$64	$54	$64	$54
Prob>/T/ 0.9706 ns	A	AB	AB	B

Summary: There was a significant difference in yield between the two soybean hybrids in this study, but no significant difference between the check and the XiteBio treatment.

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Results: 2012 Soybeans-Moisture

Inoculant

Treatment	Check	XiteBio
Yield, bu/ac @13%	10.4	10.1
Prob>/T/ 0.1404 ns	A	A

Hybrid	31K3	33X1
Yield, bu/ac @13%	10.3	10.3
Prob>/T/ 0.9413 ns	A	A

Hybrid * Treatment	31K3+Xite	31K3	33X1+Xite	33X1
Yield, bu/ac @13%	10.4	10.1	10.2	10.4
Prob>/T/ 0.7136 ns	A	A	A	B

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Extension is a Division of the Institute of Agriculture and Natural Resources at the University of Nebraska–Lincoln cooperating with the Counties and the United States Department of Agriculture.