

## Green Bean Study- September 2012

*This green bean production trial was designed to evaluate the efficacy of TerReplenish as a foliar spray to improve yield, marketability, disease and insect resistance. The plot design is a simple side by side in like soil. This trial at Beaver Creek Gardens, Poplar Grove, IL was a late summer trial.*

**Cultivar-** Speedy Beans, 50 days, very productive with light green, straight pods on a bush type plants.

**Planting-** Direct seeded in well tilled soil 7/22/12

Row Spacing- 2 rows on 60" beds with rows 14" apart and in-row spacing of 15 seeds per foot

**Irrigation-** .25 gpm dripline on 12" spacings. Treated and untreated areas received simultaneous watering.

**Soil-** Sandy clay loam, ph 7.2, O.M. 3.5%. Previous crop- oats with red clover.

**Fertility:** 10 tons composted horse manure per acre

**Pesticides: None**

**TerReplenish Application-** Treated area was foliar sprayed using TerReplenish at a 50-1 dilution with water and applied at 6.875 gal per acre rate- 6 times. 41.25 GPA equivalent.

First application- Aug 6

Second application-Aug 13

Third application-Aug 20

Fourth application-Aug 27

Fifth application- Sept 3

Six application- Sept 10

### Harvest:

	Treated	Untreated	Row length
9/19 (lbs)	15.67	11.97	50'
Average per foot	.31	.24	30.9%

Summary: Disease and insect pressure was absent in both treated and untreated plots. Although plant height was similar in both plots, the treated plot had more uniformly mature beans that were plumper accounting for an increase of 30.9% yield by weight over the untreated. Treated left, untreated right.

