
AGRINOS TECHNOLOGY

iNvigorate®

Liquid Formulation
Soil Inoculant

iNvigorate® is produced by a fermentation process utilizing a consortium of microbes that creates a highly productive microbial system in the soil.

Features:

- Enhanced nutrient uptake
- Increases fertilizer use and efficiency
- Stimulates root growth and plant development
- Increase soil organic matter & microbial community

Benefits of iNvigorate®

- Stimulates root biomass formation resulting in a more vigorous root system.

- Enhances crop quality and yield under both favorable and stressful growth conditions

Agrinos®

B Sure®

Liquid Formulation
Foliar Application

B Sure® is a liquid nutrient solution derived by microbial fermentation that increases the activity of multiple critical metabolic pathways in the crop.

Features:

- Bioavailable nutrients to elicit and support photosynthesis
- Source of bioavailable nitrogen complimenting inorganic nitrogen

Benefits of B Sure®

- Boosts plant metabolism, increases photosynthesis and stimulates plant growth

- Enhances crop quality and yield under both favorable and stressful growth conditions.

Agrinos®

UpLift™ 5-0-0

Dry Formulation for Liquid Suspension

Uplift is a unique fertility solution derived by microbial fermentation that increases crop productivity and supports soil health.

Uplift contains organic, biologically-extracted chitin, amino acids and other crucial plant nutrients.

Benefits of Uplift

- Improves root structure to support plant growth and productivity
- Strengthens plant function to increase tolerance to environmental stresses
- Enhances soil health to support plant well-being

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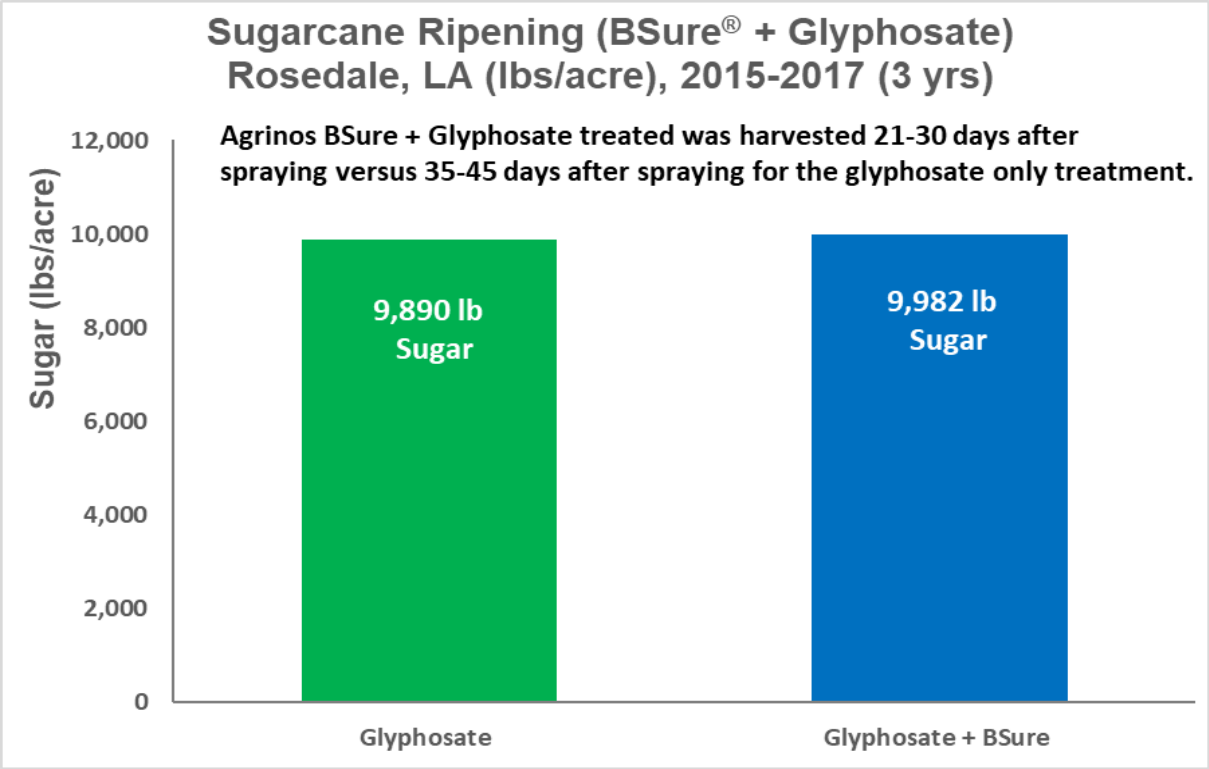
Agrinos®

Sugarcane Ripening Trials 2015 to 2017

USA – Sugarcane ripening time decreased with BSure® with no effect on sugar yield

2015-2017 Louisiana : 3 Year study



Period	Treatments sprayed in September / October each year
Crop / Hybrid	Sugarcane L01-299
Location	3 locations in Louisiana over 3 years of trialing
Products / Rates	Glyphosate applied at 5.3 oz/acre BSure® applied at 16 oz /acre
Field Size / Replications	Plot size = 2.2 acres
Trial performed by	*Sugar samples processed at each mill site*

Method Comments:

- Sugarcane sprayed each year with 5 gallons water/acre
- No differences in yield
- The Glyphosate + BSure® treatment (-14 days) signifies that sugarcane can be harvested 21-30 days after treatment, normal ripened cane was harvested 14 days later

BSure® mixed with Glyphosate can reduce the time to harvest without affecting sugar yield. Over a 3 year study this resulted in 14 fewer days to ripen cane.

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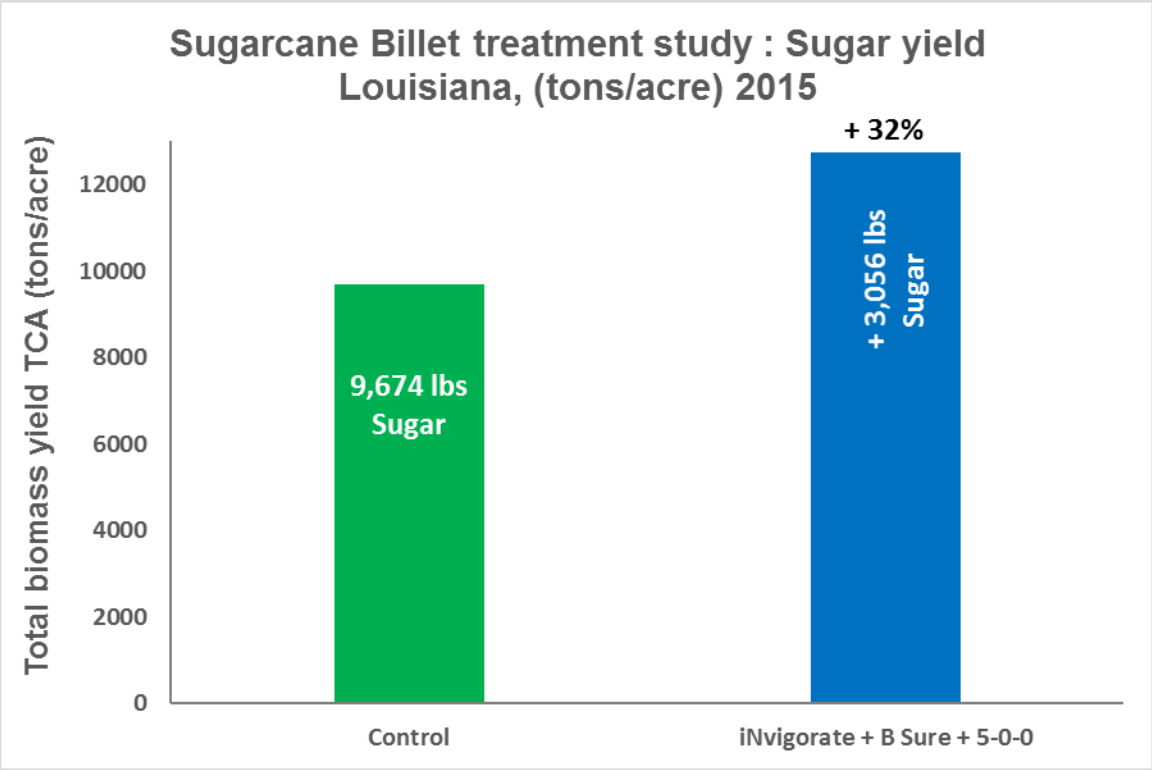
Sugarcane Billet Treatment Trial Results

2015 to 2016

USA – Sugarcane Billet Treatment Trial

2015 Louisiana



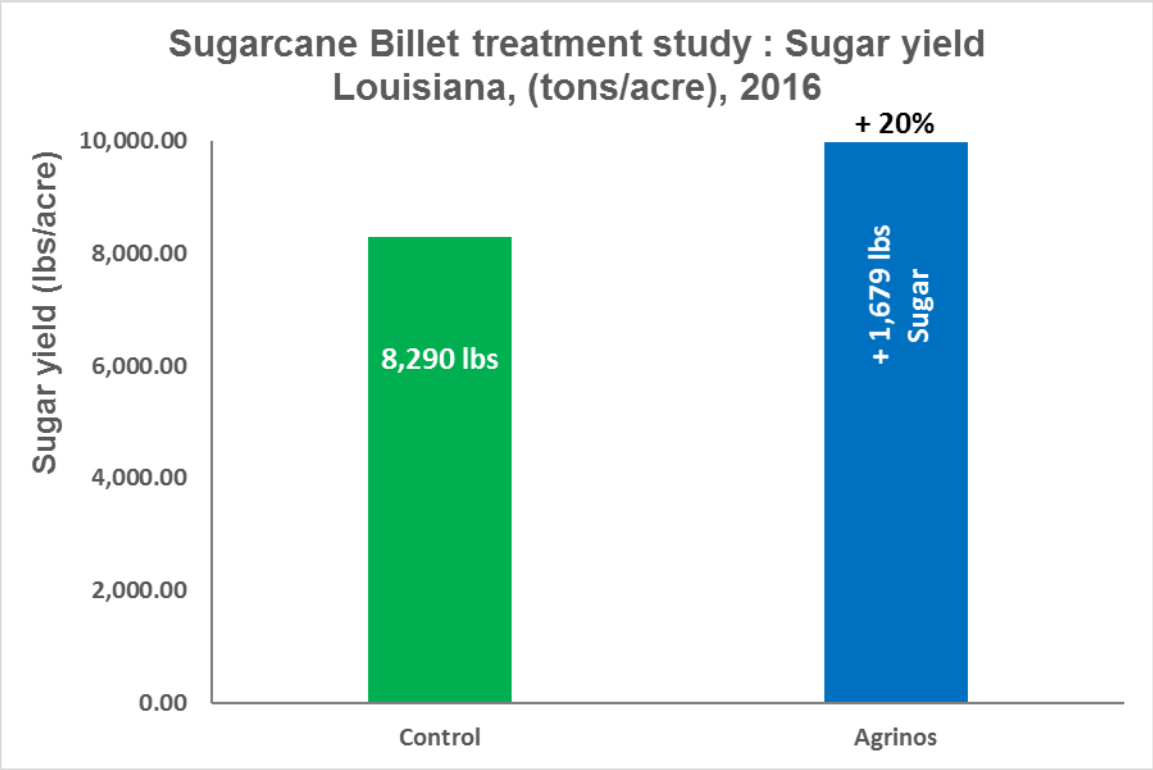
Period	Planted September 2014 Harvested December 2015
Crop / Hybrid	Sugarcane L01-299
Location	Rosedale, Louisiana
Products / Rates	iNvigorate® @ 2qt/acre + BSure® @ 2 qt/acre + Agrinos 5-00 @ 1 lb/acre Only control billets treated with 10 fl.oz. Azoxystrobin and Propiconazole fungicide
Field Size / Replications	Large acreage strip plots Agrinos 12 acres Control 1.2 acres 2 reps in study
Trial performed by	*Agrinos with grower*

Method Comments: Billets were planted with a Louivere planter with a slat conveyor system that had billets dropping through a sprayed treatment solution

Agrinos plots yielded 32% greater sugar yield than the standard farmers control.

USA – Sugarcane Billet Treatment Trial

2016 Louisiana



Period	Planted September 2015 Harvested 2016
Crop / Hybrid	Sugarcane L01-299
Location	Bunkie, Louisiana
Products / Rates	iNvigorate® @ 2qt/acre + BSure® @ 2 qt/acre + Agrinos 5-00 @ 1 lb/acre & All billets treated with Azoxystrobin and Propiconazole fungicide
Field Size / Replications	Large acreage strip plots Agrinos 40 acres Control 27 acres 2 reps in study
Trial performed by	*Agrinos with grower*

Method Comments:

Billets were planted with a Traube (Costa Rican) planter (dipped treatment style)

Agrinos plots yielded 20% greater sugar yield than the standard farmers control.

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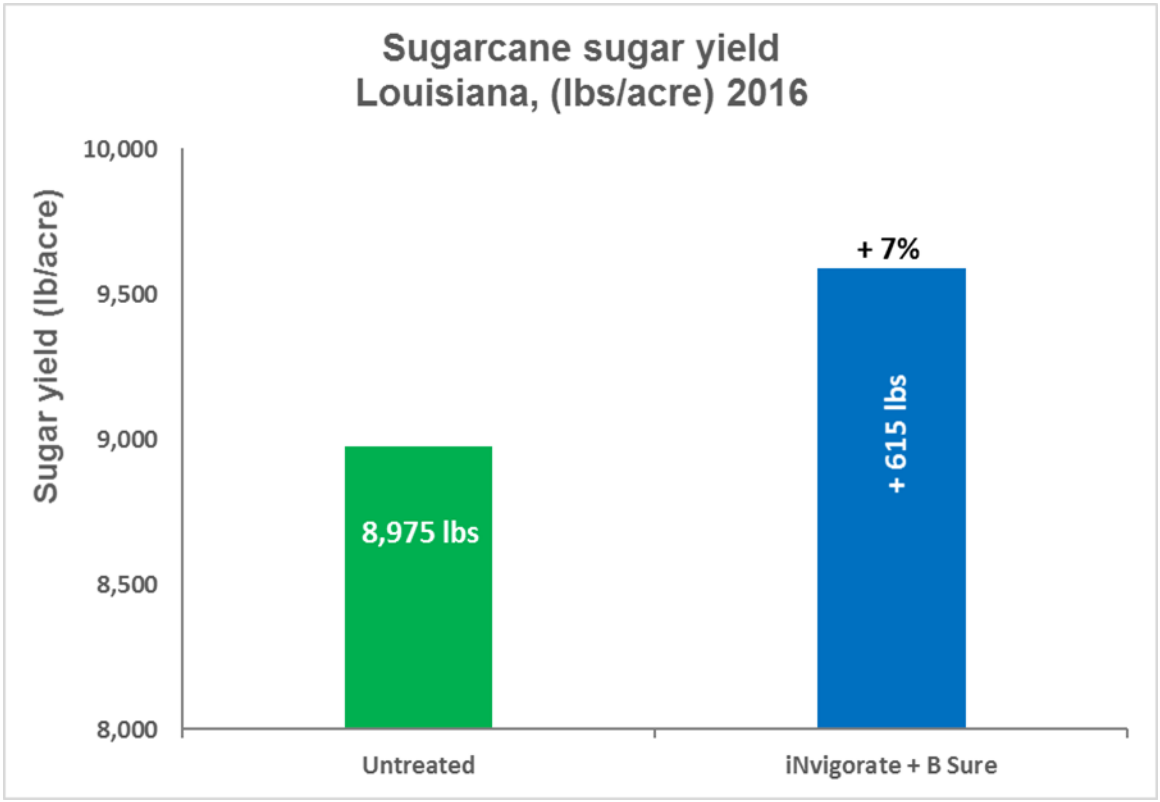
Sugarcane Residue Reduction Trial Results

2016

USA – Sugarcane iNvigorate + B Sure residue trial

2016 Louisiana



Period	Applied 11 December 2015 Harvested 19-21 Dec 2016
Crop / Hybrid	Sugarcane HoCP96-540
Location	Breaux Bridge, Louisiana
Products / Rates	iNvigorate® @ 1qt/acre + BSure® @ 1 qt/acre mixed and sprayed over the trash/shuck on harvested rows
Field Size / Replications	Plot size = 5 acre plots 4 reps
Trial performed by	*Agrinos with grower*

Method Comments:

- iNvigorate® + BSure® were mixed together and applied with 17 gallons water/acre rate
- Crop was harvested 1 year after application

Agrinos plots yielded 7% greater sugar yield than the standard farmers control.

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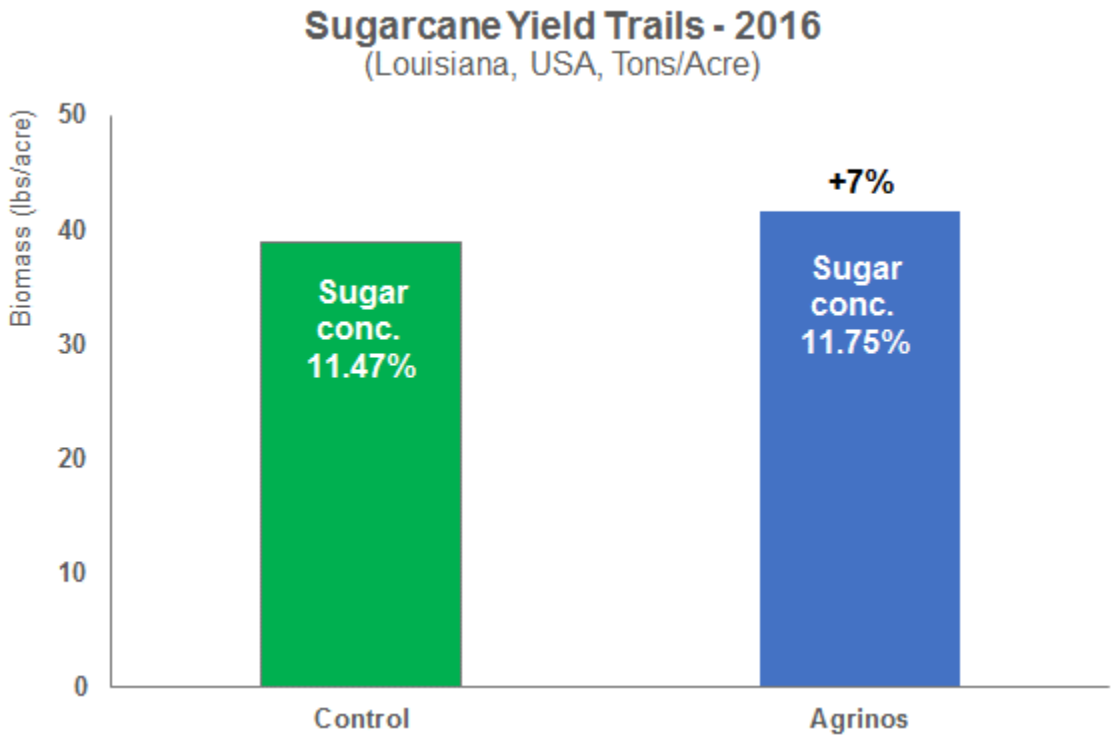
Combined Sugarcane Trial Results

2016

Sugarcane – Yield Trial Results

2016 Louisiana, USA



Planting / Harvest	2016
Crop / Hybrid	Sugarcane
Location	17 trial plots in total
Products / Rates	• iNvigorate - 2 qt/acre • B Sure - 2 qt/acre • Agrinos 5-0-0 -1 lb/acre • Applied at planting
Field Size	Large strip plots
Trial Performed By	Agrinos in cooperation with: Edgard Farms, HMC Farms, B&A Cane Inc., Tee&Sons Farms, Ted Brousard Farms

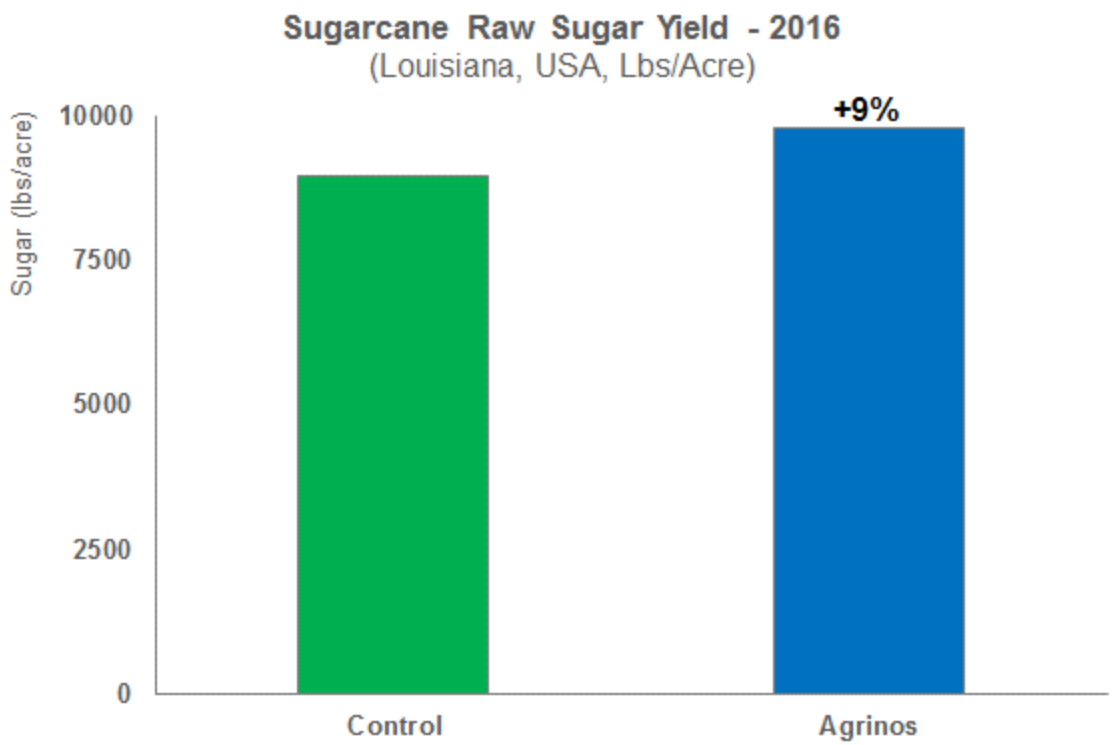
Method Comments:

- Trails planted in strip plots
- No irrigation
- Of the 17 trial plots measured 88% had higher sugar/acre yields than the farmers control.
- Average sugar increase across all trial plots was 838 lbs/acre greater than the control

Agrinos increased biomass yield by an average of 2.76 tons/acre

Sugarcane – Raw sugar yield results

2016 Louisiana, USA



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Agrinos increased sugar yield by an average of 838 lbs/acre