



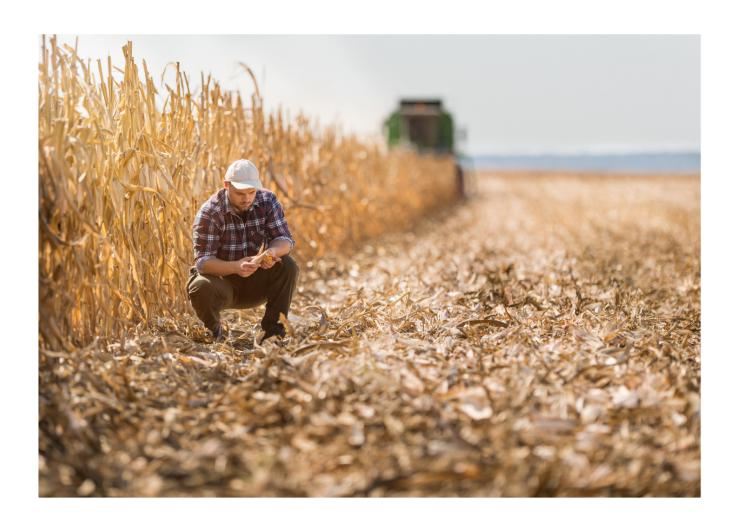
BIO 800⁺

Soil Health. Yield. Sustainability.

Holganix Bio 800⁺ harnesses the power of over 800 species of soil microbes to increase the farm's profit per acre by improving yield, reducing inputs, and driving soil health.

By charging soils with diverse microbes we help our farmers improve the health of their soils, investing in the legacy of their farm for future generations.

- Increase Profit Per Acre Through Yield Improvements And Reduced Inputs
- Improve Soil Health
- Nurture Faster Establishment
- Boost Roots; Contributing To Soil Organic Matter And Plant Resistance To Stress
- Build Stronger Plants That are Better Able To Stand Up To Wind, Heavy Rain And Hail
- Restore Needed Beneficial Soil Microbes Depleted By Tillage, Freezing, Flooding, Fungicides And Other Stressors



CORN DATA

- Rate Recommendation: 0.5 gal per acre at planting
- Typical Yield Increase: 6-11 bu/acre
- Key Benefits:
 - Increased root mass
 - Thicker stalks
 - Larger ears with better fill

Several years of university and grower data have been compiled on Holganix Bio 800⁺on corn. The photos and testimonials enclosed are just a sample. For additional information please visit: www.Holganix.com/Ag-data



CORN, CENTRAL ILLINOIS

Unsolicited Customer Photo

This farmer saw a +15 to +30 bushel per acre advantage. The corn was planted on June 7 and was a corn on corn rotation. Picture was taken on October 1. Corn was planted on side-by-side rows 30 inches apart. The grower randomly decided a starting point and pulled 20 ears per row.

Rate:	0.5 gal per acre
App Timing:	At planting
App Method:	In-furrow
Other Products Used:	3.5 gal per acre 10-34-0 Fertilizer



CORN, INDIANA

Unsolicited Customer Photo

Rate:	0.5 gal per acre
App Timing:	At planting
App Method:	In-furrow
Other Products Used:	Starter Fertilizer. All other inputs were replicated in the control.





CORN, WESTERN MISSOURI

Unsolicited Customer Photo

Farmer planted on April 27. Photos above were taken on May 10. The Holganix Bio 800⁺ treated crop demonstrates improved root formation compared to the control.

Rate:	0.5 gal per acre
App Timing:	At planting
App Method:	In-furrow
Other Products Used:	All other inputs used were replicated in the control.



CORN, WESTERN MISSOURI

Unsolicited Customer Photo

The Holganix Bio 800⁺ treated crop has improved root formation compared to the control. The grower also saw a +5 bushel per acre advantage.

Rate:	0.5 gal per acre
App Timing:	At planting
App Method:	In-furrow
Other Products Used:	Starter Fertilizer. All other inputs were replicated in the control.



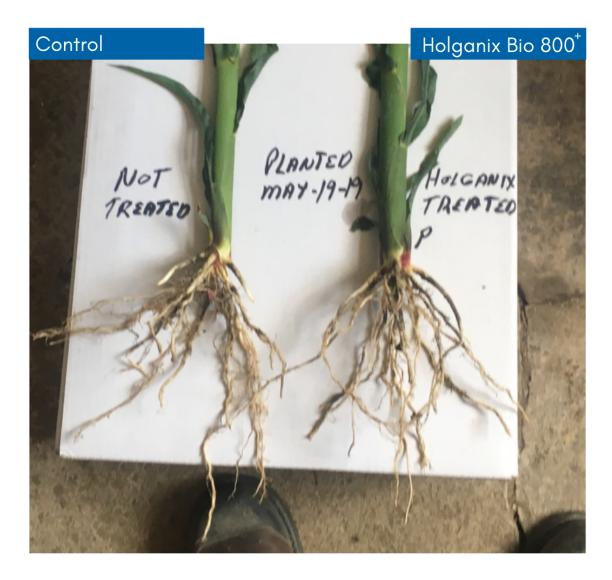


CORN, CENTRAL ILLINOIS

Unsolicited Customer Photo

Corn was planted June 6. Picture was taken on June 28. Notice the improved crop development. According to the grower, "You can see the difference between the Holganix and the control in color and height from the road!"

Rate:	0.5 gal per acre
App Timing:	At planting
App Method:	In-furrow
Other Products Used:	Starter Fertilizer. All other inputs were replicated in the control.



CORN, ONTARIO, CANADA

Unsolicited Customer Photo

This grower saw a +16.8 bushel per acre advantage. The corn was planted May 19. Grower determined that the Holganix Bio 800⁺ treated corn has larger brace roots and thicker stalks.

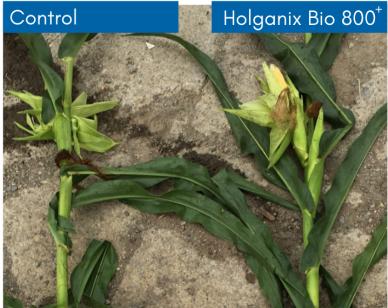
Rate:	0.5 gal per acre
App Timing:	3 weeks after planting
App Method:	Foliar
Other Products Used:	

CORN, ONTARIO, CANADA

Unsolicited Customer Photo







Photos are from the same grower on page 8. The photos demonstrate an increase in root mass and a thicker stalk on the Holganix Bio 800⁺ treated crop.

CORN, NORTHEAST COLORADO

Unsolicited Customer Photo



Both plants were treated with Holganix Bio 800[†]. According to the grower, "I dug one up and was like, there's no way they all look that good. So I dug another one up."

The grower saw a +4 bushel per acre increase in yield

Rate:	0.5 gal per acre
App Timing:	Planting
App Method:	In-furrow
Other Products Used:	10-34-0

CORN, SPRINGFIELD, ILLINOIS

Unsolicited Customer Photo



The crop was planted May 12 and the picture was taken June 19. There was no measurable rain since the crop had been planted. This was a corn-on-corn rotation.

Rate:	0.5 gal per acre
App Timing:	
App Method:	In-furrow
Other Products Used:	10-34-0 at 3.5 gal per acre

CORN, SPRINGFIELD, ILLINOIS

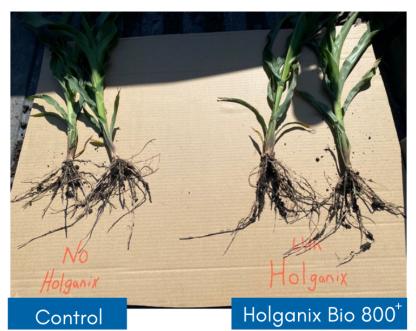
Unsolicited Customer Photo



Same crop and farmer from the previous page. See previous page for photo information.

CORN, EASTERN, SOUTH DAKOTA

Unsolicited Customer Photo





The Holganix Bio 800^+ treated crop is taller with longer, thicker roots. The grower saw a +2 to +5 bushel per acre increase in yield.

Rate:	0.5 gal per acre
App Timing:	At planting
App Method:	In-furrow
Other Products Used:	

CORN, JONESBORO, INDIANA

Unsolicited Customer Photo



The grower saw a +5 bushel per acre yield increase over the control.

Rate:	0.5 gal per acre
App Timing:	2 weeks after emergence
App Method:	Sprayed over the top
Other Products Used:	Only 10 gallons of water

CORN, NORTHWEST MISSOURI

Unsolicited Customer Photo



Rate:	0.5 gal per acre
App Timing:	
App Method:	In-furrow
Other Products Used:	

CORN, NORTHWEST ILLINOIS

Unsolicited Customer Photo

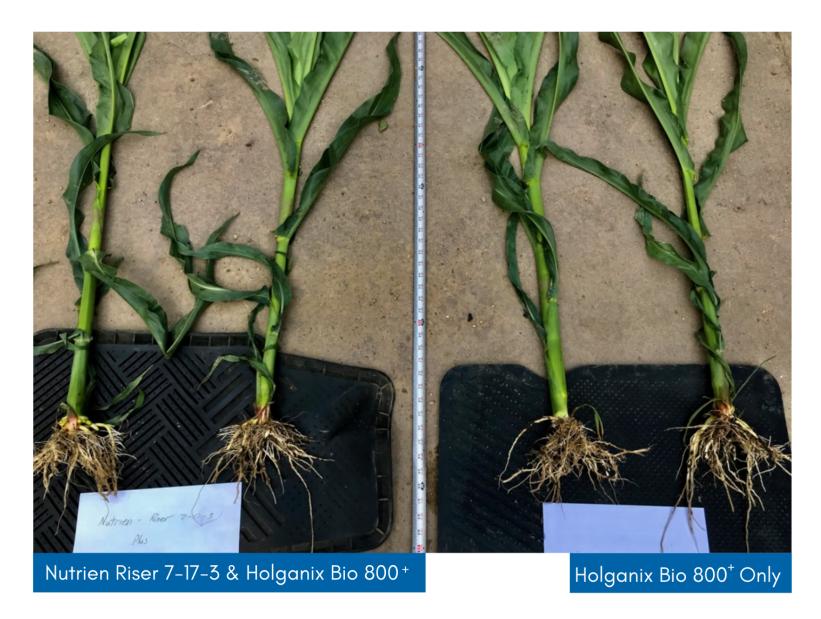
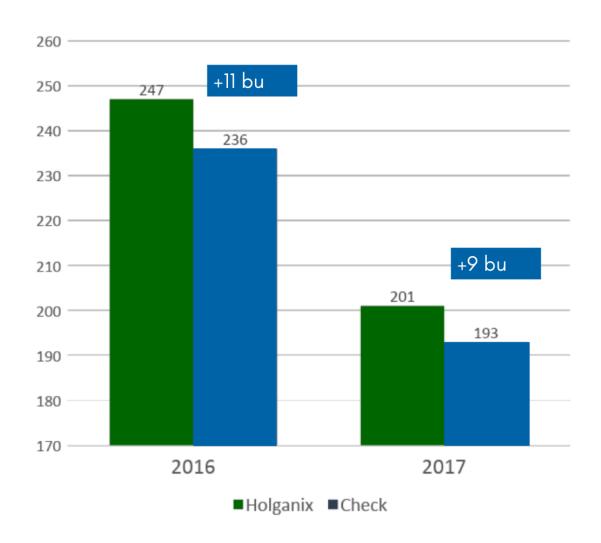


Photo taken June 27. Holganix Bio 800+ was applied at 0.5 gal per acre.

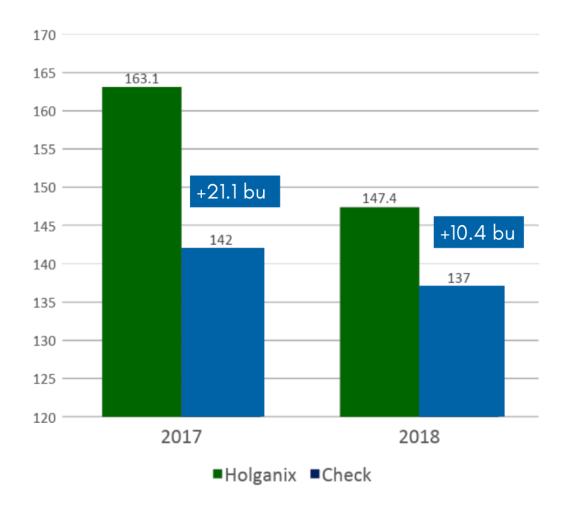


CORN, NORTH CENTRAL ILLINOIS

Third Party Research Farm Data

Replicated plots on non-irrigated land. The 2016 rotation was off of soy.

Rate:	0.5 gal per acre
App Timing:	At planting
App Method:	In-furrow
Other Products Used:	All other inputs were replicated in the control.



CORN, WESTERN MISSOURI

Third Party Research Farm Data

"Best looking corn plot on the farm!" - Researcher.

Replicated plots, with 4 rows per rep. Rows were 500 feet. Land was not irrigated. In 2018, the land saw minimal rain and was very stressed.

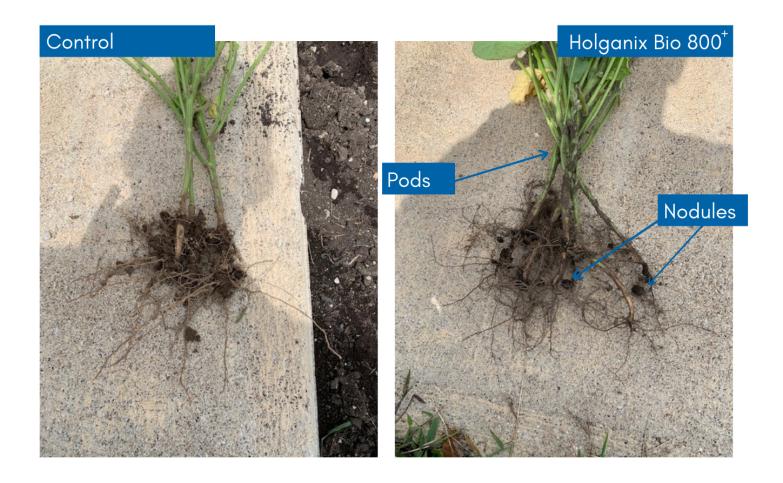
Rate:	0.5 gal per acre
App Timing:	At planting
App Method:	In-furrow
Other Products Used:	Standard Fertilizer. All other inputs were replicated in the control.



SOYBEAN DATA

- Rate Recommendation: 0.5 gal per acre at planting
- Typical Yield Increase: 2-6 bu/acre
- Key Benefits:
 - Stronger stems
 - Improved pod set

Several years of university and grower data have been compiled on Holganix Bio 800⁺on soybeans. The photos and testimonials enclosed are just a sample. For additional information please visit: www.Holganix.com/Ag-data

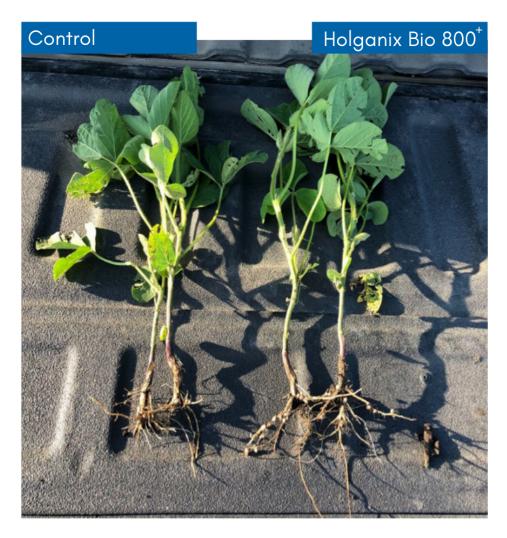


SOYBEAN, WESTERN MISSOURI

Unsolicited Customer Photo

Organic soybeans show improved root, nodule and pod formations with Holganix Bio 800.⁺

Rate:	0.5 gal per acre
App Timing:	
App Method:	
Other Products Used:	



SOYBEAN, NORTH DAKOTA

Unsolicited Customer Photo

Soybeans were planted on June 15 due to hail damage that effected an earlier crop. According to the grower, "We noticed a difference in the rooting between the Holganix crop and the control pretty quickly."

Rate:	0.5 gal per acre
App Timing:	5 days after planting
App Method:	Foliar
Other Products Used:	



SOYBEAN, NORTH DAKOTA

Unsolicited Customer Photo

Same crop from previous page with picture taken just after flowering. The Holganix Bio 800^{\dagger} treated taproot runs 8 inches into the soil. The untreated crop did not penetrate hardpan below seed level.

Just prior to harvest, 11 inches of snow hit the field. The snow flattened the control, while the Holganix Bio 800⁺ treated crop pulled 33 bu/ac.

SOYBEAN, EASTERN, SOUTH DAKOTA

Unsolicited Customer Photo



According to the grower, other growers he works with in the area using Holganix Bio 800⁺ saw a 12 bushel per acre yield increase over the control.

Rate:	0.5 gal per acre
App Timing:	At planting
App Method:	In-furrow
Other Products Used:	

SOYBEAN, NORTHERN ILLINOIS

Unsolicited Customer Photo



The crop was planted on May 31. Holganix Bio 800⁺ was applied to the crop on the left at 2 qts per acre, in-furrow. The grower says he saw a +5 bushel per acre yield increase over the control.

Rate:	0.5 gal per acre
App Timing:	At planting
App Method:	In-furrow
Other Products Used:	

SOYBEAN, CENTRAL INDIANA

Unsolicited Customer Photo



According to the grower, he saw +4 bushel per acre increase in yield over the control.

Rate:	0.5 gal per acre
App Timing:	2 weeks after emergence
App Method:	Foliar
Other Products Used:	10 gallons of water

SOYBEAN, NORTHWEST MISSOURI

Unsolicited Customer Photo

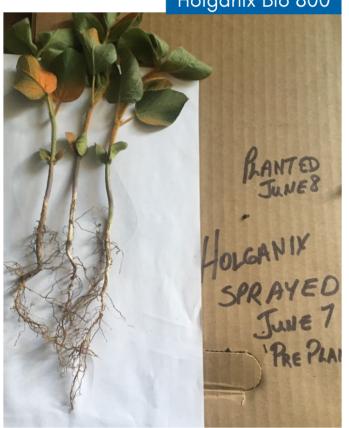


The Holganix treated crop has thicker roots and more root hairs. It also has thicker stems.

Rate:	0.5 gal per acre
App Timing:	
App Method:	In-furrow
Other Products Used:	

Control Holganix Bio 800⁺





SOYBEAN, ONTARIO, CANADA

Unsolicited Customer Photo

The grower saw a +3 to +8 yield advantage. The grower also saw longer roots with more root hairs with Holganix Bio 800^{+} crop. Note the orange spray paint was used by the grower to mark treated plants.

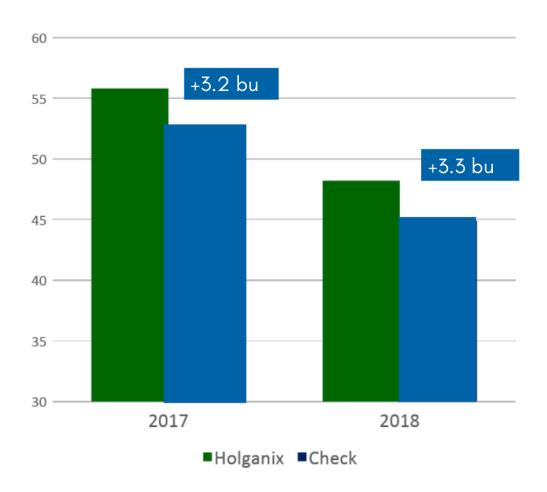
Rate:	0.5 gal per acre
App Timing:	One day pre-plant
App Method:	Foliar
Other Products Used:	All other inputs were replicated in the control.



SOYBEAN, ONTARIO, CANADA

Unsolicited Customer Photo

Rate:	0.5 gal per acre
App Timing:	One day pre-plant
App Method:	Foliar
Other Products Used:	All other inputs were replicated in the control.



SOYBEAN, WESTERN MISSOURI

Third Party Research Farm Data

Conditions: Replicated plots, with 4 rows per rep. Rows were 500 feet. Land was non irrigated. In 2018, the land saw minimal rain and was very stressed.

Rate:	0.5 gal per acre
App Timing:	At planting
App Method:	In-furrow
Other Products Used:	Standard Fertilizer. All other inputs were replicated in the control.



WHEAT DATA

- Rate Recommendation: 0.5 gal per acre at planting
- Key Benefits:
 - o Increased root mass
 - More seed rows per head

Several years of university and grower data have been compiled on Holganix Bio 800⁺ on wheat. The photos and testimonials enclosed are just a sample. For additional information please visit: www.Holganix.com/Ag-data



WINTER WHEAT, KANSAS

Unsolicited Customer Photo

The Holganix Bio 800^{+} treated crop has thicker, deeper roots than the control. The grower saw a +12 to +18 bushel per acre advantage.

Rate:	0.5 gal per acre in 15 gallons of water
App Timing:	5 days after planting
App Method:	Foliar
Other Products Used:	



WINTER WHEAT, KANSAS

Unsolicited Customer Photo

Same grower and spot as the previous pictures. Photo take in spring, 2019. Holganix Bio 800⁺ treated crop is 43 inches tall with 17 rows of seed compared to the control at 39 inches tall and 13 rows of seed.

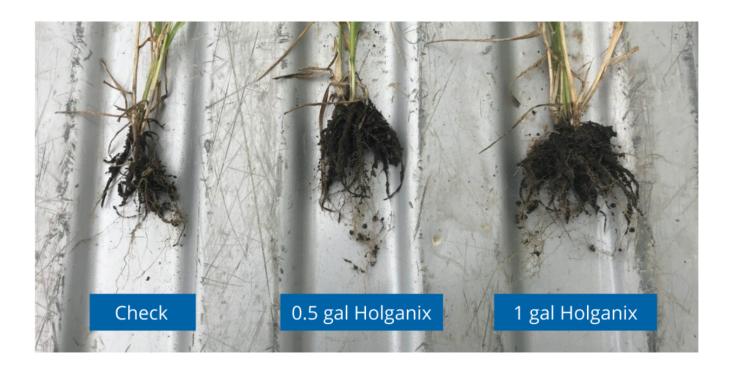
Holganix Bio 800[†] Treatment:

Control

Rate:	0.5 gal per acre in 15 gallons of water		
App Timing:	5 days after planting		
App Method:	Foliar		
Other Products Used:			

WINTER WHEAT, KANSAS

Unsolicited Customer Photo



Organic winter wheat, photo taken May 12. Holganix Bio 800⁺ applied one time, in the spring.

Rate:	As shown in picture		
App Timing:	Spring application		
App Method:	Foliar		
Other Products Used:			

WINTER WHEAT

Third Party Research

Application	Spring Only		Fall Only		Fall & Spring	
Holganix Cohort	% +/- control	Win/total trials	% +/- control	Win/total trials	% +/- control	Win/total trials
1	10%	4/5	4%	2/2	2%	1/1
2	11%	5/5	1%	1/1		
3	-7%	3/5	1%	1/1	1%	1/1
4	8%	1/1	8%	1/1	8%	1/1
5	2%	4/6	11%	2/2	3%	1/1
6	32%	1/1				
7	2%	1/1	2%	1/1	2%	1/1
Weighted Average	4.2%	19/24 (79%)	5.8%	7/8 (88%)	3.8%	5/5 (100%)

Holganix partnered with third-party researchers to evaluate Holganix Bio 800⁺ performance on 5,000 acres of winter wheat across 37 locations, spanning 7 states from Oklahoma to Ohio.

- Eight locations were treated with Holganix Bio 800⁺at 0.5 gallons per acre at planting in the fall. The fall treated locations saw 88% wins over the control.
- 24 locations received spring applications at 0.5 gallons per acre when the crop began growing again. The spring treated locations saw 79% wins.
- Five locations received both a fall and spring application and saw 100% wins.

For many major agtech companies, a product is deemed commercially viable if the win total % exceeds 70%. A 79% win would be viewed as a strong result, while 88% or 100% would be viewed as exceptional.

DURUM WHEAT, MONTANA

Unsolicited Customer Data



	Yield bu/acre	Return/acre*	Total acres
Holganix	47.29	\$283.72	58.72
Check	42.42	\$254.51	31.5
Holganix benefit	4.87	\$29.21	
Holganix	51.07	\$306.39	57.2
Check	46.69	\$280.15	19.96
Holganix benefit	4.38	\$26.24	

The data above is from two different fields but each time the treated and check were adjacent fields to one another. The rate is 0.5 gal per acre and was applied as a spring application.

^{*\$6} per bushel price



PRODUCE & SPECIALTY DATA

- Rate Recommendation: Vary depending on crop
- Key Results:
 - Higher yield
 - More extensive roots
 - Higher brix
 - Stronger plants

Several years of university and grower data have been compiled on Holganix Bio 800⁺on produce and specialty crops. The photos and testimonials enclosed are just a sample. For additional information please visit: www.Holganix.com/Ag-data



DATIL PEPPER, FLORIDA

Unsolicited Customer Photo

According to the grower, "After growing Datil's for 15 years, I have never seen a crop so beautiful with fruit so large." The grower reports that the Bio 800° crop has increased vigor and a heavier fruit set compared to the control.

Rate:	2.25 gal per acre
App Timing:	Every other week
App Method:	Drip irrigation
Other Products Used:	50% less fertilizer used than the control



SWEET PEPPER, INDIANA

Unsolicited Customer Photo

According to the grower, "The high tunnel is 3,000 square feet but planted as if it were an acre. In other words, it's planted very tight. Results were terrific! I just pulled the pepper plant and the roots looked like they were trees."

Holganix Bio 800[†] First App:

Rate:	1.5 gals per acre
App Timing:	Applied when plants were very young
App Method:	Foliar
Other Products Used:	Standard inputs

Holganix Bio 800[†] Second App:

Rate:	1 gal per acre
App Timing:	Two weeks after first app
App Method:	Drip
Other Products Used:	Standard inputs

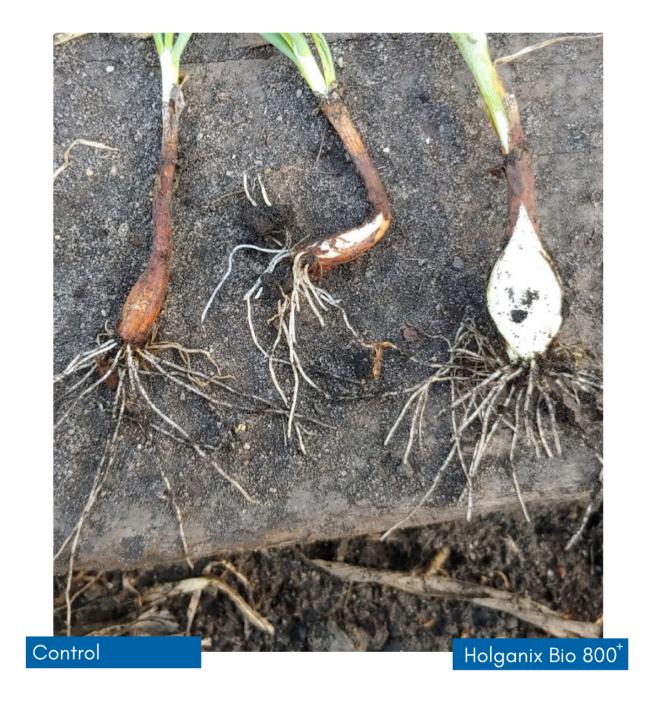


EGGPLANT, PENNSYLVANIA

Research Grower Data

The Holganix Bio 800⁺ treated crops were taller, had more and earlier flowering compared to the control and had more extensive roots than the control.

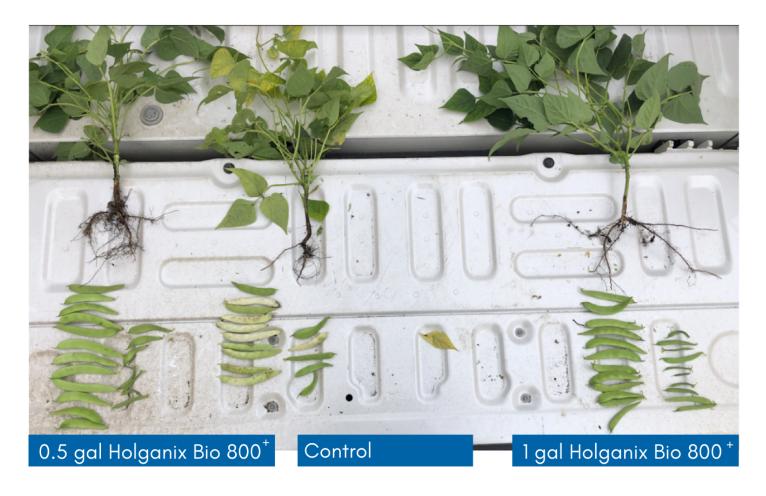
Rate:	2 ounces per gallon of water
App Timing:	Immediately after planting, second application four weeks later
App Method:	Drench over the planted row
Other Products Used:	All inputs were replicated in the control.



ONIONS, NORTH DAKOTA

Unsolicited Customer Photo

The Holganix Bio 800^{\dagger} treated crop is larger and more developed than the control.



PINTO BEANS, NORTH DAKOTA

Unsolicited Customer Photo

This picture demonstrates Holganix Bio 800^{+} at 0.5 gals per acre, at 1 gal per acre, compared to a control.

Rate:	0.5 gal and 1 gal depending on row
App Timing:	Post-emergence
App Method:	Foliar
Other Products Used:	All other inputs were replicated in the control.



TOMATO, NORTHERN ILLINOIS

Unsolicited Customer Photo

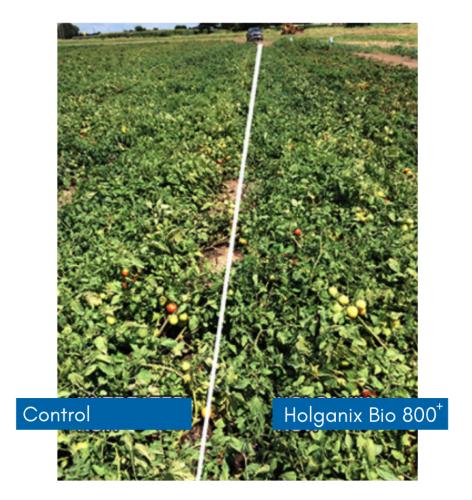
According to the grower, "The Holganix Bio 800⁺ crops are very big and already setting tomatoes. I would say they are a good week ahead of the control."

Holganix Bio 800[†] Treatment:

Rate:	1 quart per gal of water
App Timing:	At emergence, again when plant was 1 ft tall
App Method:	Foliar
Other Products Used:	

Control Treatment:

Rate:	1 gal per acre
App Timing:	Two weeks after first app
App Method:	Foliar
Other Products Used:	



TOMATO, INDIANA

Research Grower Data

According to the grower, "Bio 800[†] treated Tomatoes yielded 51.3 tons per acre while the untreated came in at 46.7 tons per acre. That's a 10x payback over the cost of the Bio 800[†] used per acre." The grower used the product over 4 years on processing tomatoes and saw 2 to 4 tons per acre yield increases.

Holganix Bio 800⁺ First App:

Rate:	2 gal per acre
App Timing:	At planting
App Method:	Foliar
Other Products Used:	Standard Inputs

Holganix Bio 800⁺ Second & Third App:

Rate:	1 gal per acre
App Timing:	At 4 and 8 weeks after transplanting
App Method:	Foliar
Other Products Used:	Standard Inputs



TOMATO, MASSACHUESETS

Unsolicited Customer Photo

These tomatoes were grown in the ground in a greenhouse. The Holganix Bio 800^{+} treated crops flowered two weeks earlier, the flowers were more profuse and they reached first fruit earlier than the control.

Rate:	2 oz per gallon of water
App Timing:	At transplanting
App Method:	Root dip
Other Products Used:	All other inputs were replicated in the control.

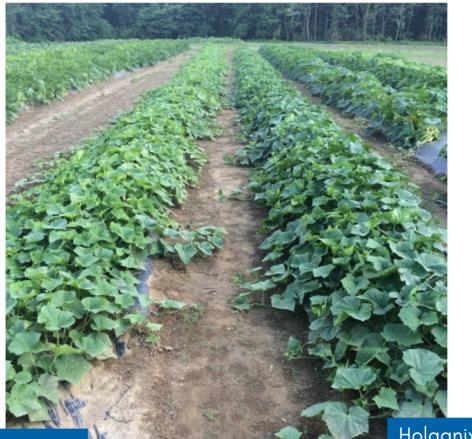


PUMPKIN, NORTHERN ILLINOIS

Unsolicited Customer Photo

According to the grower, "the Holganix Bio 800⁺ pumpkins are very vigorous with very large blooms and very big plants."

Rate:	1.25 gal per acre in 20 gal of water
App Timing:	Emergence, with two additional apps
App Method:	Foliar
Other Products Used:	Herbicides



Control

Holganix Bio 800⁺

CUCUMBER, KENTUCKY

Unsolicited Customer Photo

The grower was able to harvest the Holganix Bio 800^{+} crop earlier than the control, and the Bio 800^{+} crop had a higher yield than the control.

Rate:	First application at 2 gal per acre, additional apps at 1 gal.
App Timing:	At planting, then apps at 4 & 8 weeks
App Method:	
Other Products Used:	



HEMP, OREGON

Unsolicited Customer Photo

All crops were treated with Bio 800. The grower saw 3.2 to 4.1 lbs of flower per plant compared to neighboring fields that saw 2.2 pounds. The grower also saw an 18 to 21% oil yield and he saw a 0.01% loss after transplant. Please note that this is higher than our standard rate. For this grower, his ROI on yield far outweighed the cost of the product.

Rate:	2.25 gallons per acre		
App Timing:	Weekly		
App Method:	Injection/drip tape		
Other Products Used:	15-15-15 Fertilizer		



GUAVA, FLORIDA

Unsolicited Customer Photo

This grower has sandy and rocky soils. Notice the steep drop off in color between the Holganix Bio 800⁺ treated crop and the control.

Rate:	2.25 gal per 100 gal of water		
App Timing:	1 application every 3 months		
App Method:	Soil drench		
Other Products Used:	All other inputs were replicated in the control.		



STRAWBERRIES, CALIFORNIA

Research Grower Data

In Ventura County, California, a researcher used Holganix Bio 800⁺ on a commercial field. He achieved a \$3,000 per acre higher yield in the strawberries and was able to harvest earlier than other growers.

Rate:	2.4 gal per acre		
App Timing:	1 application every month		
App Method:	Drip		
Other Products Used:	All other inputs were replicated in the control.		



WINE, MASSACHUSETTS

Research Grower Data

Alfalfa Farm Winery reports a 55% average increase in yield in their Sevyal Blanc, Leon Millot and Marechal Foch. In addition, they report that their brix index has increased by an average of 26% compared to the control. According to the grower, "we are very excited to see how Holganix continues to promote the health of our grapes."

Rate:	0.5 gal per acre		
App Timing:	Weekly from greening to harvest		
App Method:	Mister sprayed to runoff		
Other Products Used:	Insecticides		



TREE NURSERY, NEW YORK

Unsolicited Customer Photo

The picture was taken in 2018 in late summer when temperatures were both hot and dry. The red maple trees were bare root planted in the spring of 2018. The trees that were treated with Bio 800⁺ are a foot larger in growth and a 30% larger caliber.

Rate:	3.5 ounces per tree
App Timing:	At planting
App Method:	Soil drench
Other Products Used:	



