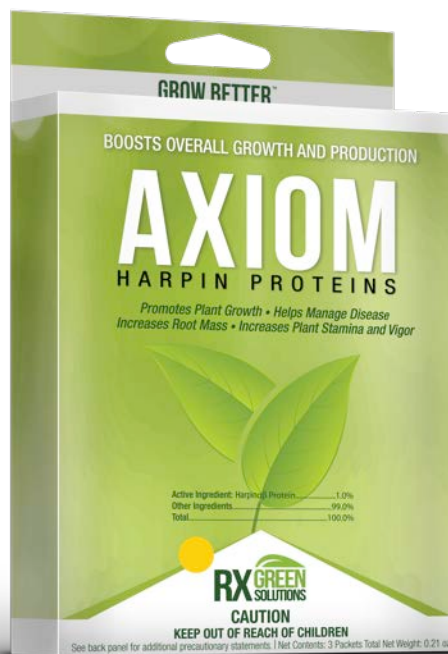


Rx Green Solutions

Efficacy Results: Harpin Proteins



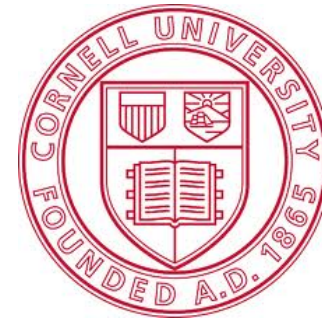
Axiom Harpin Protein

- Harpin proteins are secreted by plant pathogens when they attack plants.
- These Harpin Proteins induce a localized hypersensitive response (HR) in the area of attack.
- This HR is mediated by a specific set of genes in the plant.
- Once “turned on” locally these genes create a cascade of effects which promote a Systemic Acquired Resistance (SAR) throughout the plant.



Product Pedigree

- Technology originated from Cornell University
- Cover of Science Magazine: 1992
- Endorsed by a variety of organizations:
- American Rose Society (Messenger® endorsement)
- Environmental Protection Agency (EPA) Approved
- Presidential Green Award: 2002
- 112 Domestic & International Patents
(USA, Brazil, Japan and Western European Countries)
- Over a dozen patent pending filings
- Numerous Demonstrable Plant Benefits
- Plant Yield Increases
- Plant Health Increases
- Extended Shelf Life of Fresh Cut Plants



Axiom Harpin Proteins

- Axiom Harpin Proteins are a Plant Health Promoter and Plant Growth Stimulator that activates a plant's immune system activating growth and defense genes resulting in improved plant growth, increased yields, increased quality and extended shelf-life. Harpin Proteins are produced in nature by certain bacterial plant pathogens and plants have developed receptors on their seeds, roots, and foliage to detect the presence of Harpin Proteins. When Axiom is present, it triggers an “early warning system” resulting in increased plant yields and health.
- *Harpin is approved and registered by the EPA and covered by over 100 Domestic and International Patents*



Harpin Results Overview

Multi-year commercial, university and replicated field trials results include:

- **Row Crops Yield Increase:** Increased yields from 8% – 20% in row crops
 - Corn: +7 Bushels per acre
 - Cotton +65 – +70 lbs per acre
 - Soybeans +2.5 bushels per acre
 - Wheat +2.9 bushels per acre
- **Vegetable Crop Yield Increase:** Increase yields from 10% – 30% in vegetable crops (tomato, pepper, cucurbit, strawberry and peach, etc.)
 - Tomato: +120 – +140 boxes per acre
 - Pepper +100 – +120 boxes per acre
 - Watermelon / Cantaloupe 10% – 30% increase in marketable
 - Strawberries +15% by count, +30% by weight
- **Nematode Reduction:** Reduces nematode populations by 50% or more
- **Increased Shelf Life:** Increase shelf life and storability of fresh cut vegetables from 3 – 7+ days

Row Crops

Soybeans

Soybeans +2.5 bushels per acre



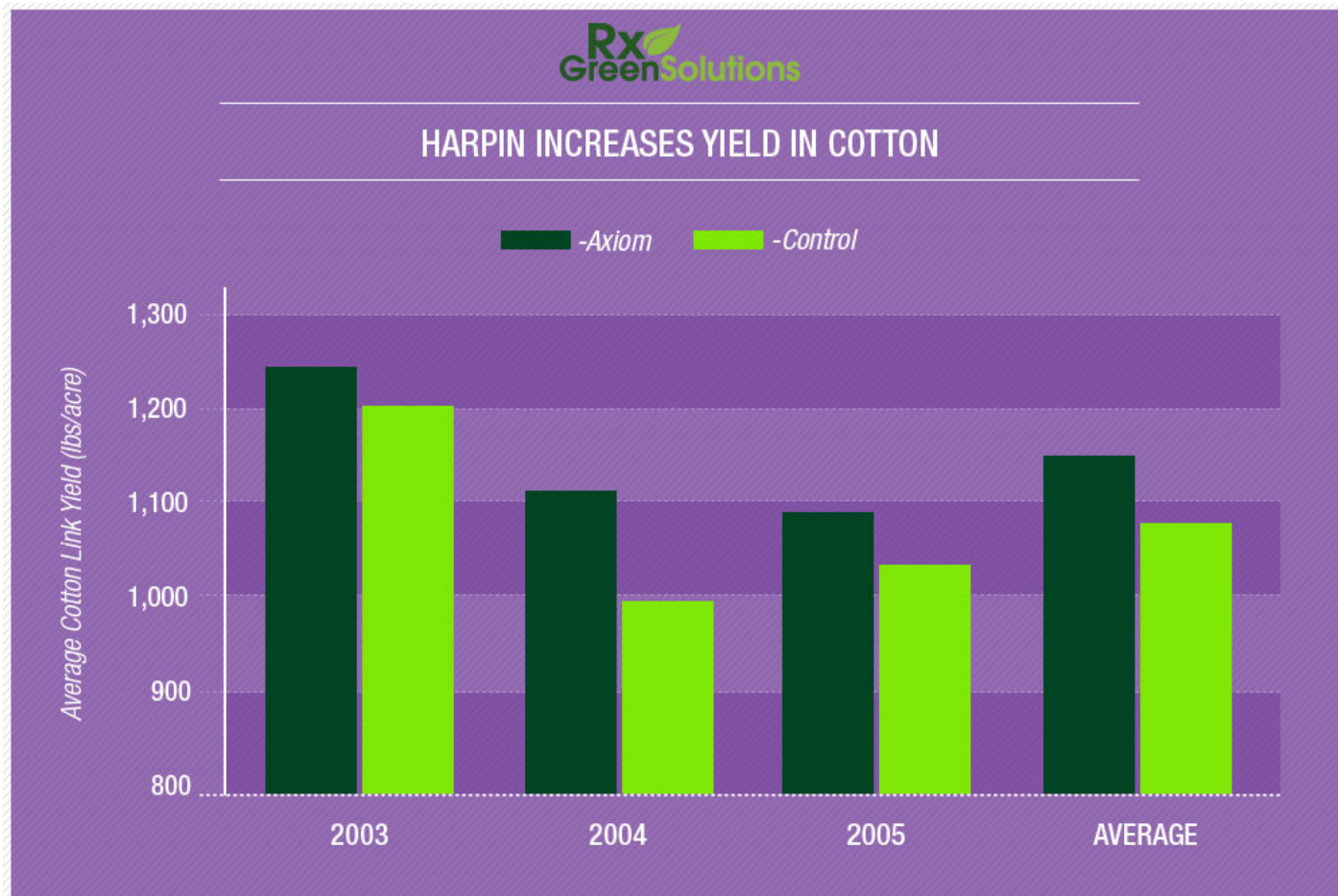
Field & Sweet Corn

Corn: +7 Bushels per acre



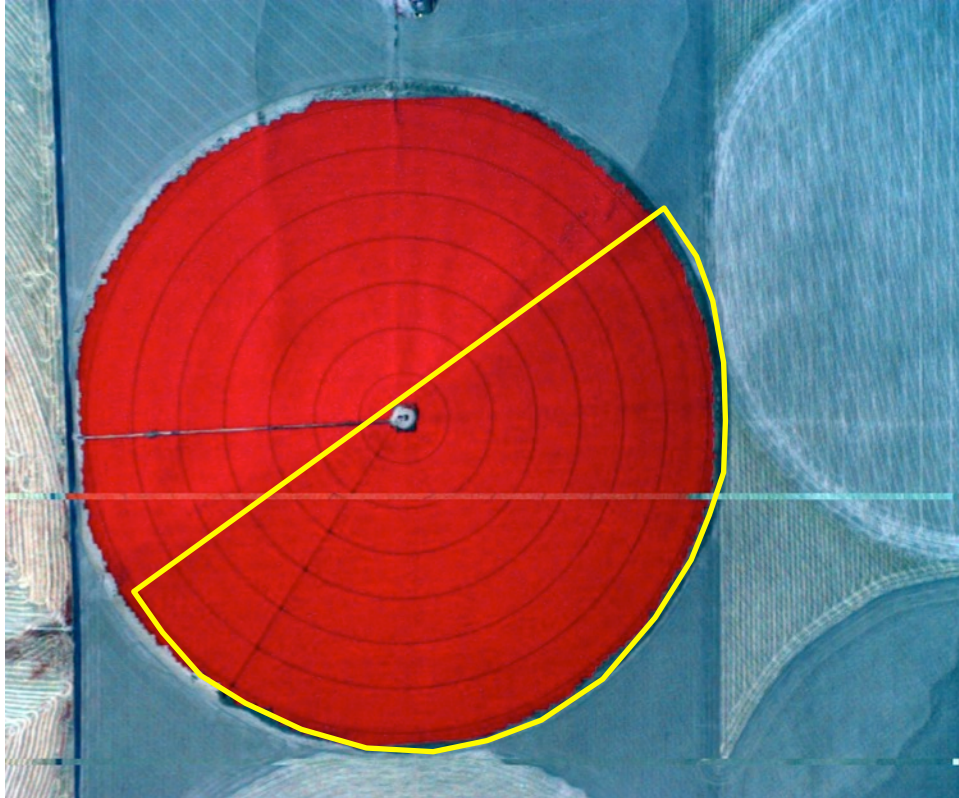
Cotton

Cotton +65 – +70 lbs per acre



Russet Burbank Potatoes

Russet Burbank Potatoes Images and Infrared



Treated Area, Darker = Higher Yield



Untreated

Treated

Altura Potatoes

Untreated Alturas



28 Aug 2012



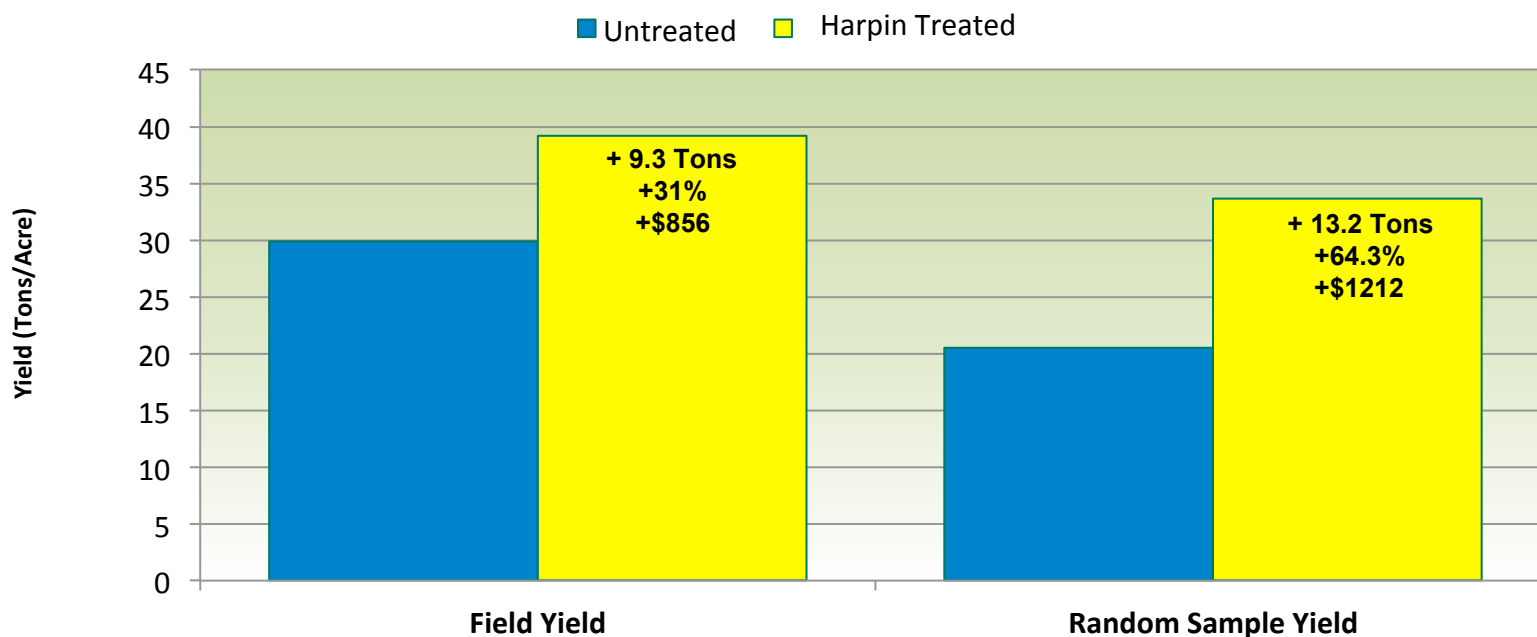
12 Sep 2012

Harpinαβ Treated Alturas



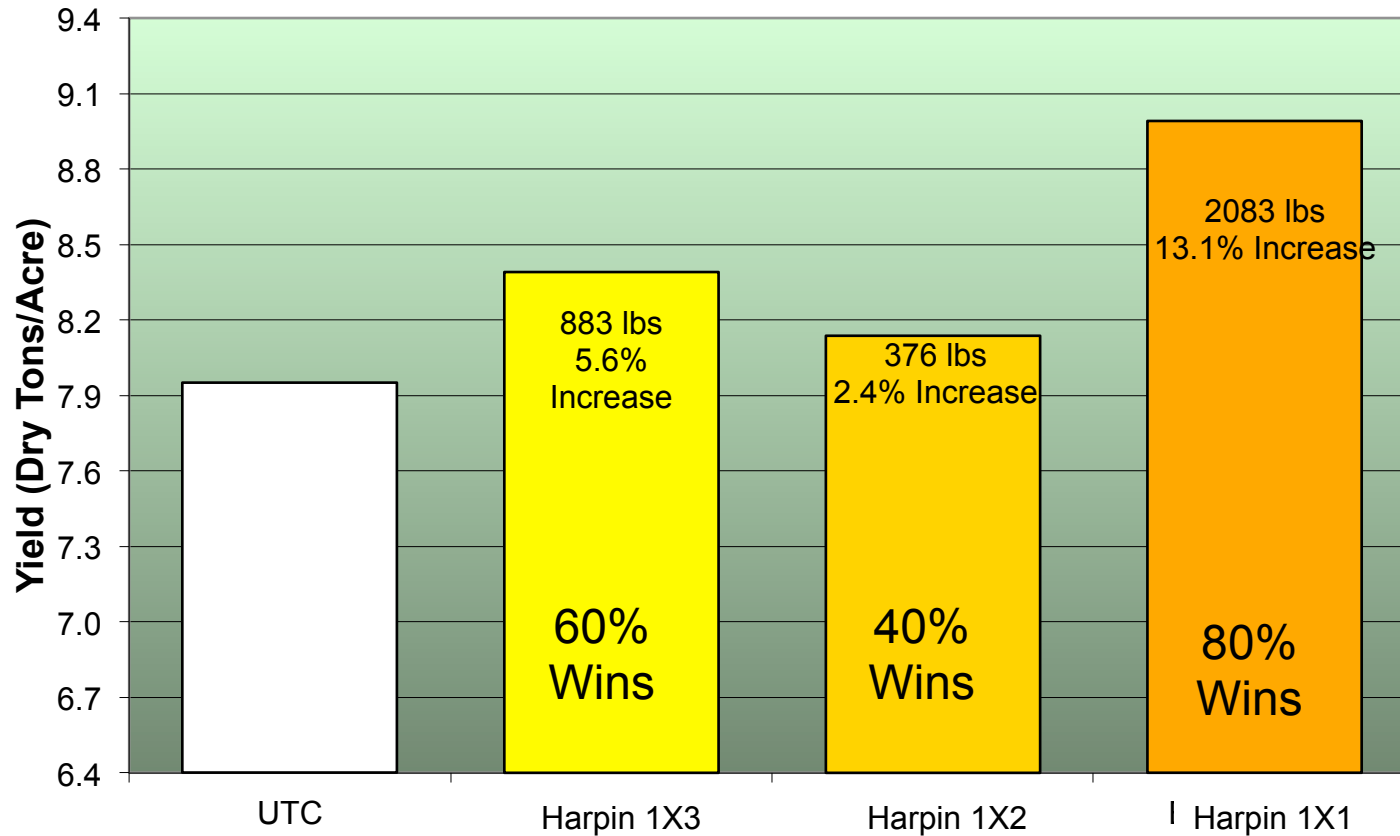
Altura Potatoes

- 6 random samples were pulled from the treated and untreated fields. Samples contained the same number of plants, since the treatments were made too late to influence stand. “Field Yield” is the actual per acre yield from the grower, which includes field effects in addition to treatment effects.



Trial 212036 – 2 apps of Harpin (@ 2 oz) via chemigation

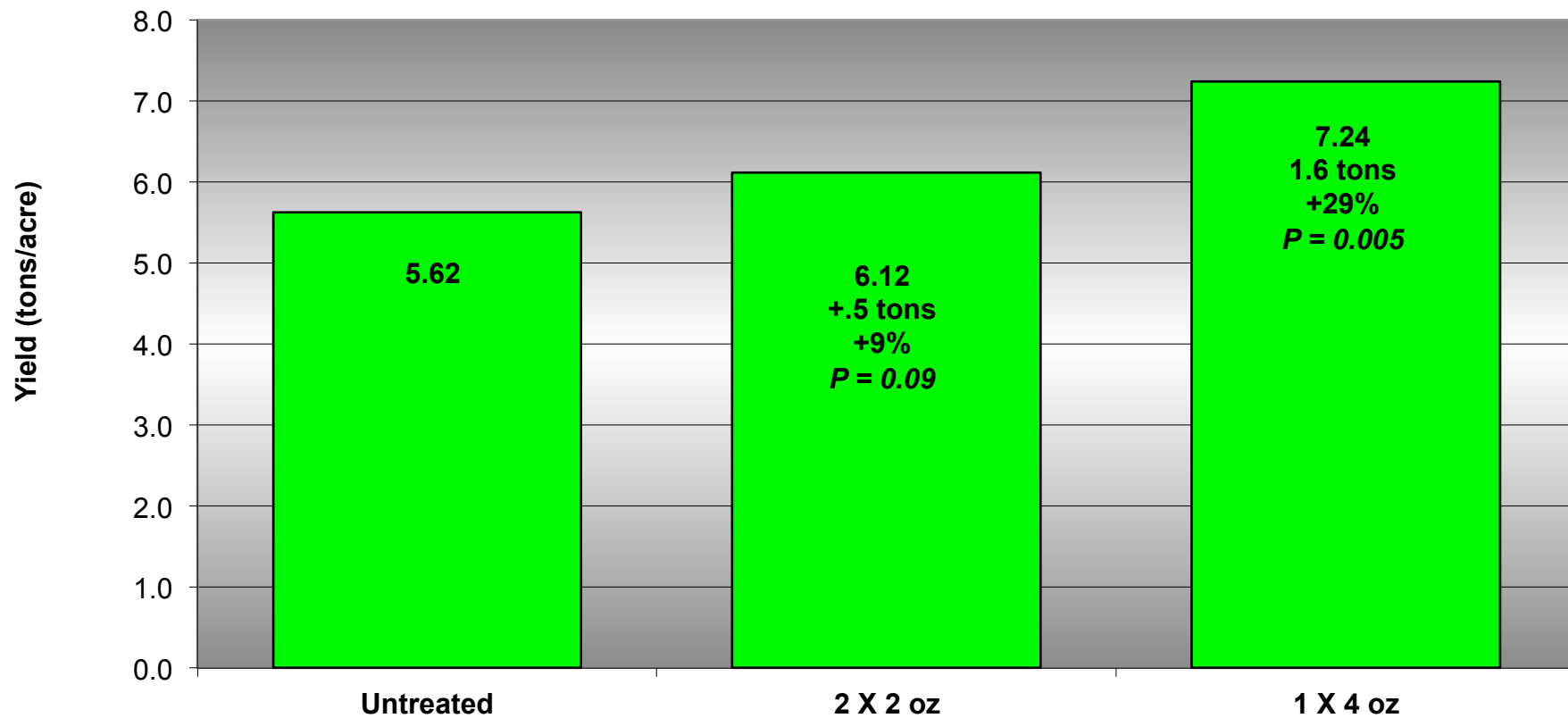
Alfalfa



Average of 209016, 209017, 209018, 209019, 209020: Harpin applied @1 oz/acre at 14 days before 1st cutting (“1X1”), 14 days before 1st & 2nd cutting (“1X2”), or 14 days before all 3 cuttings (“1X3”).

Snap Beans

Calculated Yields from 5 Replicated Small Plot Trials at Budbreak



Consistency = 100%

Winter Wheat

Harpin applied to highlighted section

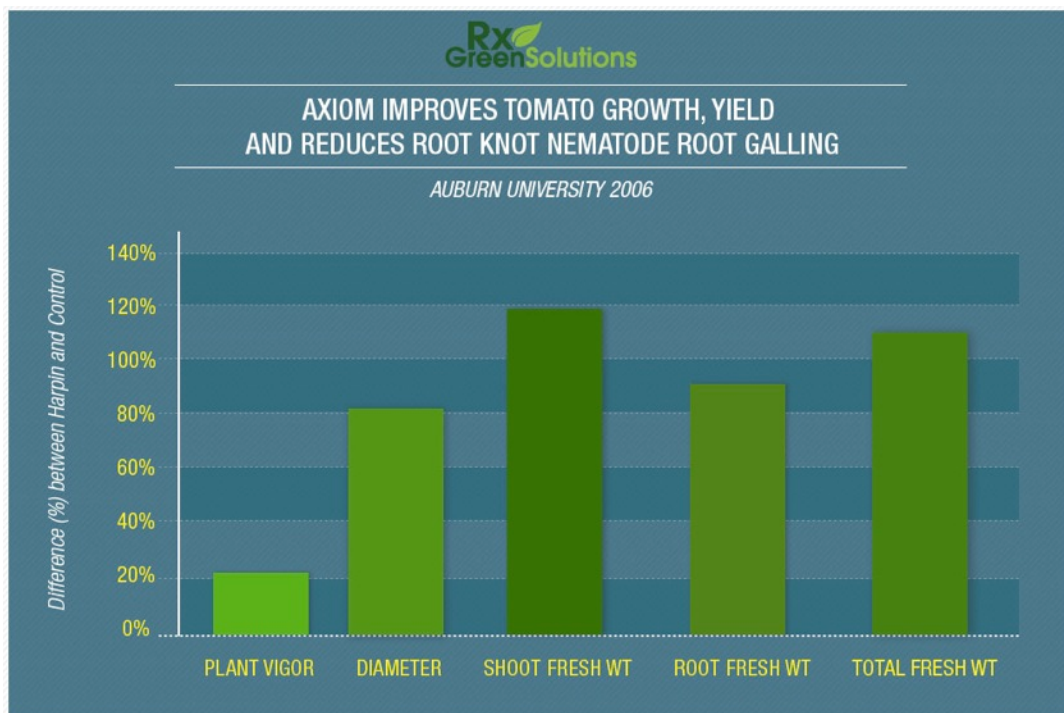


Vegetables

Tomatoes

Tomato Yield Increases

- Tomato: +120 – +140 boxes per acre (10 – 15% increase)
- \$60+ per acre increase of saleable
- 2:1 ROI



Tomatoes

Tomato Yield Increases



TOMATO: PERCENT INCREASE IN YIELD FROM AXIOM TREATED PLOT

13 TRIALS CONDUCTED IN CA



Peppers

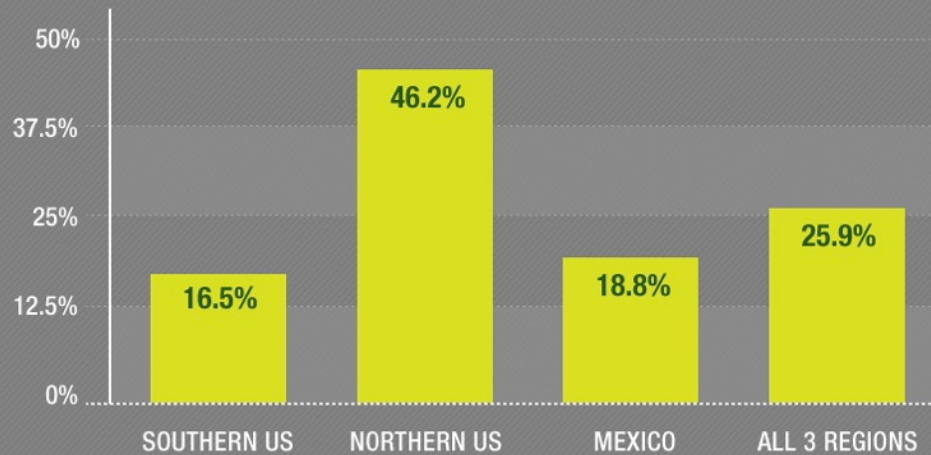
Pepper Yield Increases

- +100 – +120 boxes per acre (10 – 50% increase)



AXIOM INCREASE IN PEPPER YIELDS

17 TRIALS IN NC, GA, FL, NM, VA, WI & MEXICO WITH VARIOUS PEPPER TYPES
INCLUDING ANAHEIM, BELL, JALAPENOS AND BANANA

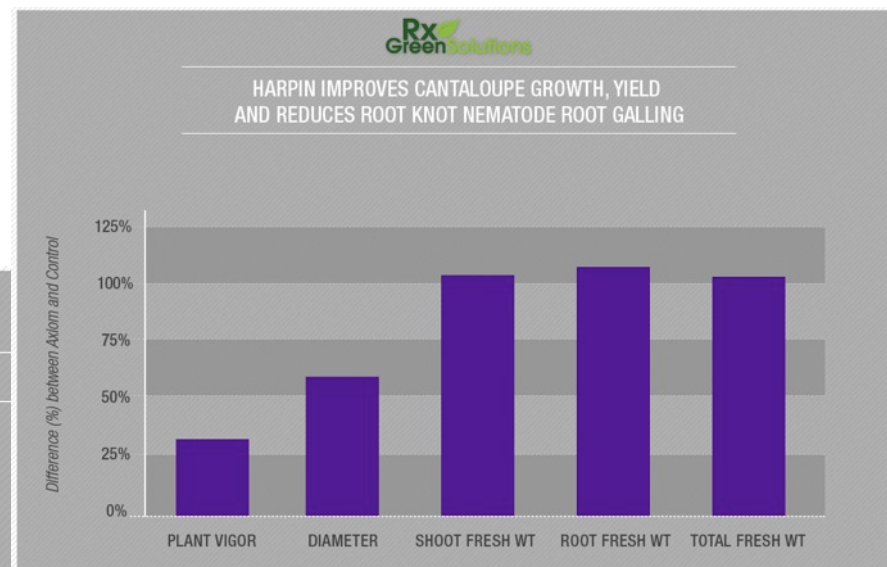
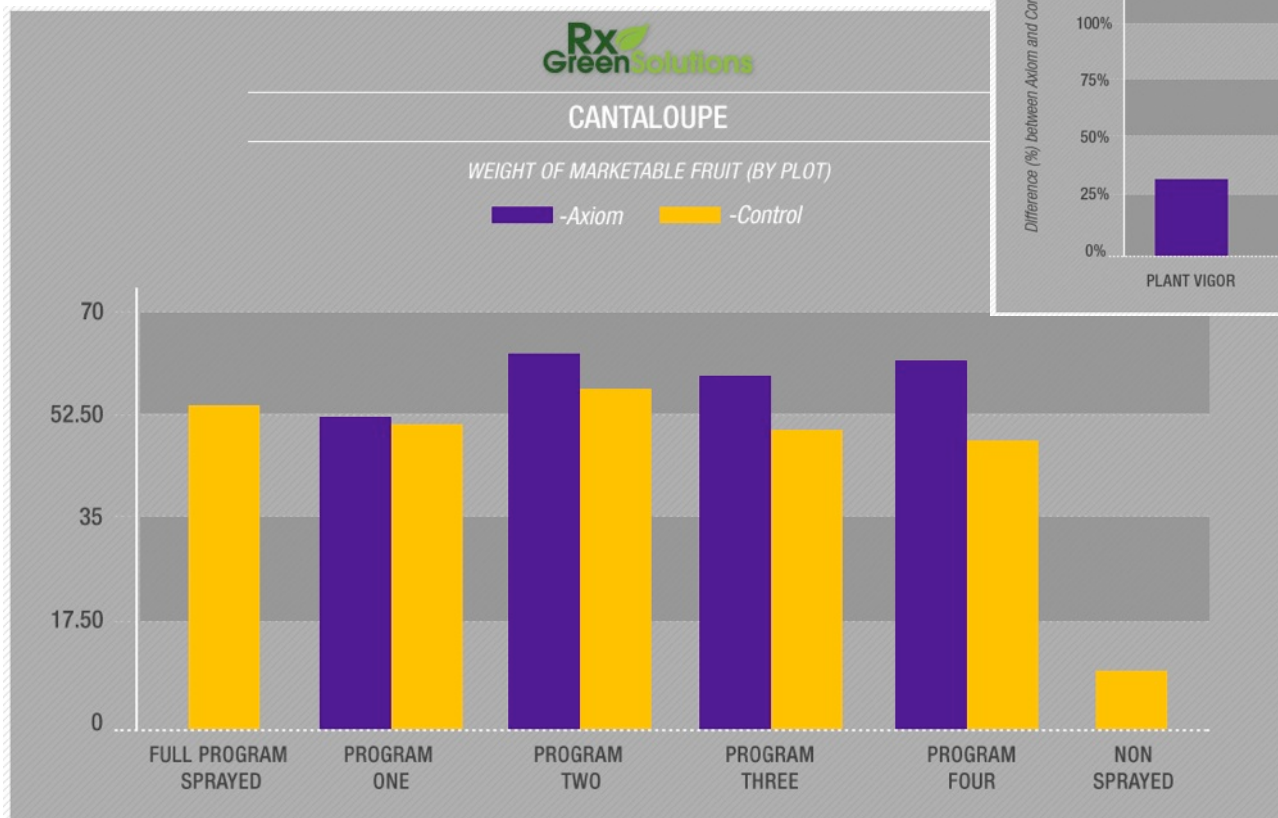


Two Pepper plants grown in the same pot, under exact same conditions, except the plant on the right used Axiom. Image taken 5 days (7/25/12) after first application

Melons

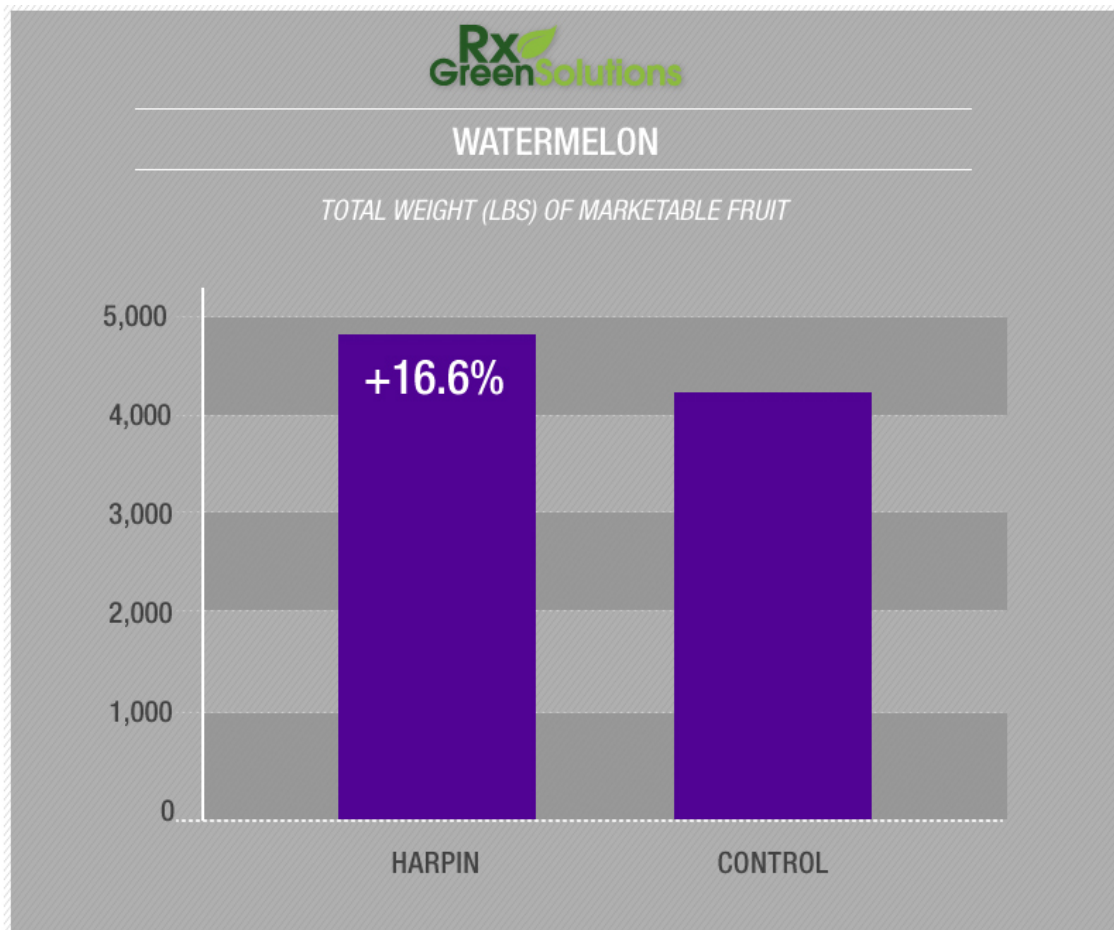
Cucurbit Yield Increases (Cantaloupe)

- Watermelon / Cantaloupe 10% – 30% increase in marketable



Melons

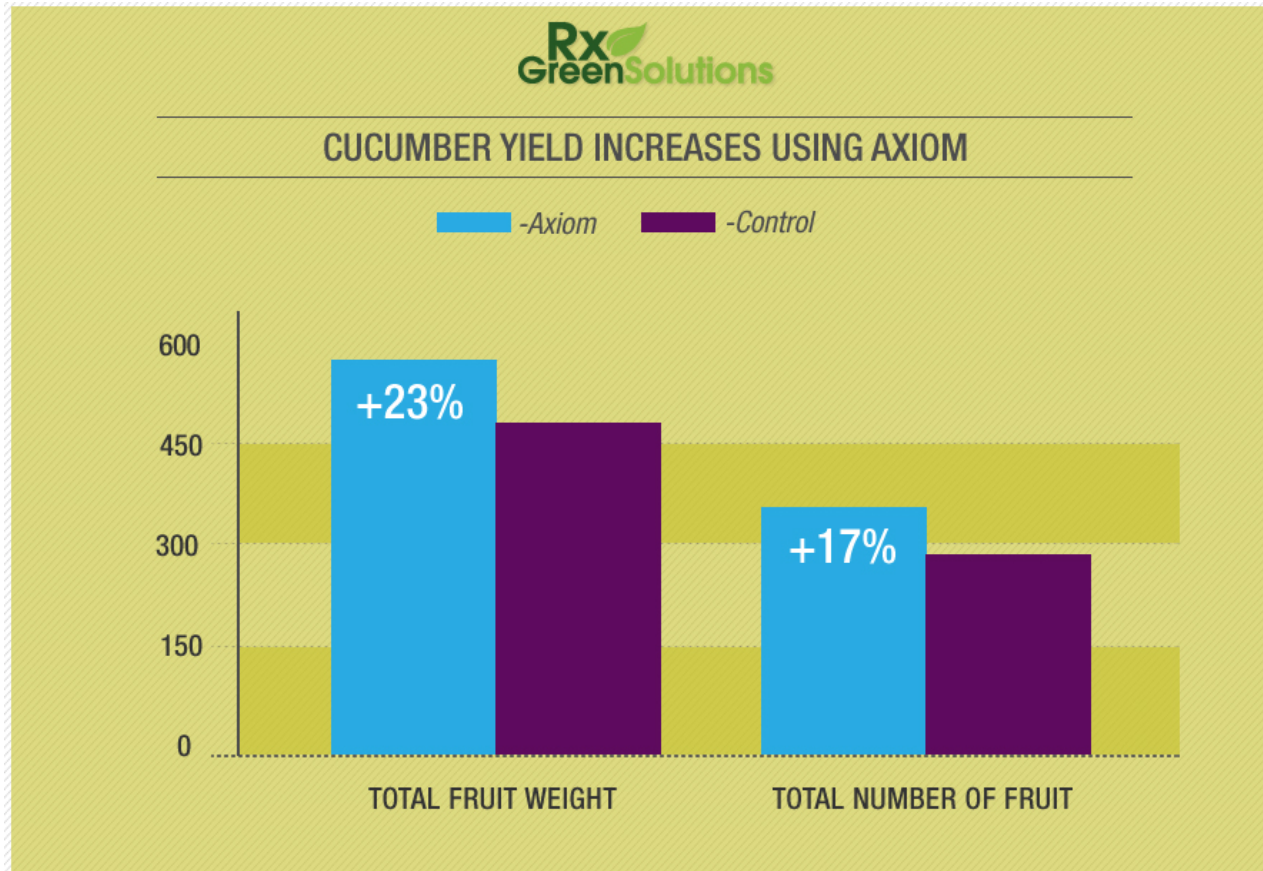
Watermelon Yield Increases



Trial 3200, by 6L's Farm. Variety 'Fiesta'

Cucumbers

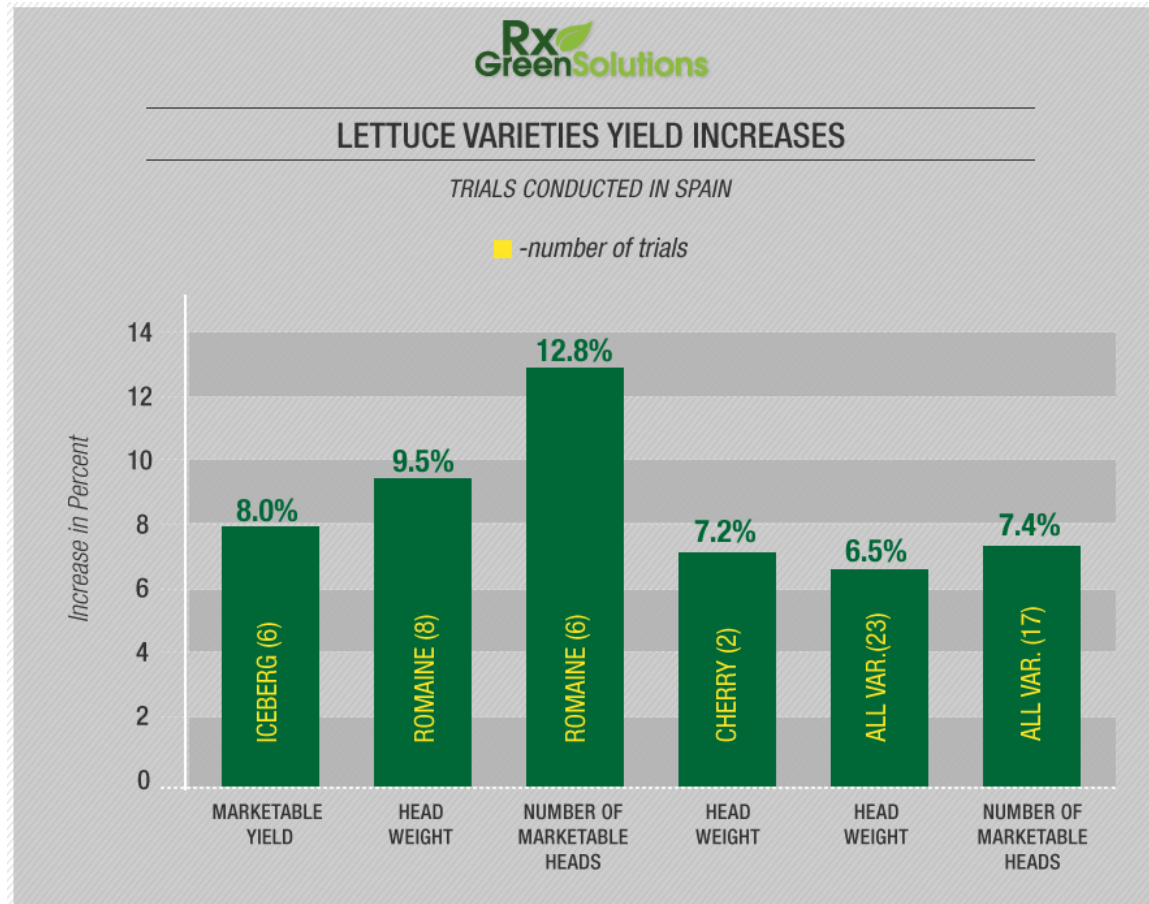
Cucumber Yield Increases



Trial 3201 by 6L's Farm. Variety 'Slice Mor

Lettuce

Lettuce Varieties Yield Increases



Lettuce

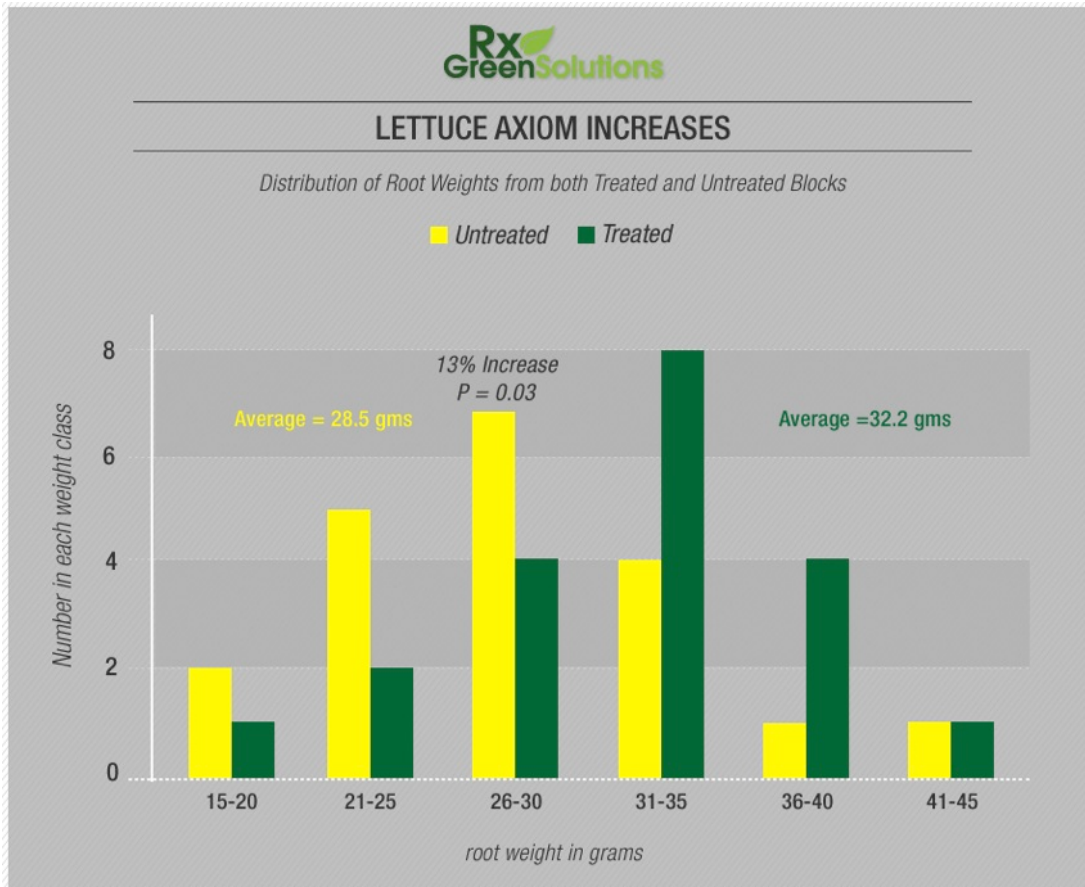
Lettuce Yield Increases



Sheppard Farms, Cedarville, NJ

Lettuce

Lettuce Root Yield Increases



Sheppard Farms, Cedarville, NJ

Celery



Blueberries

Treated had not been treated in two years

Farmer noticed a major difference in rows and took pictures



HARPIN PROTEINS

Increase Shelf Life

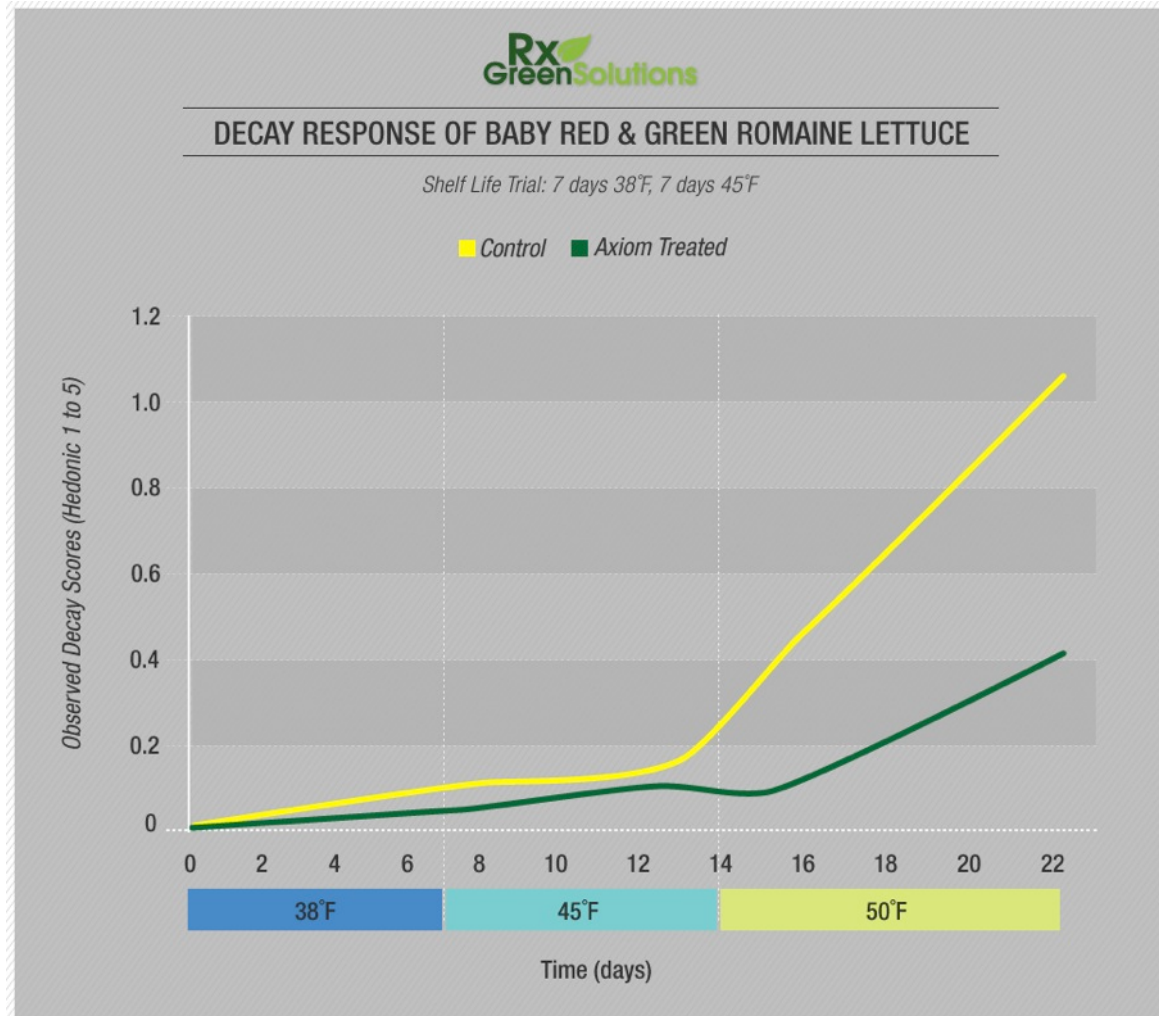
Lettuce

Assessment made 23 days after harvest



Lettuce

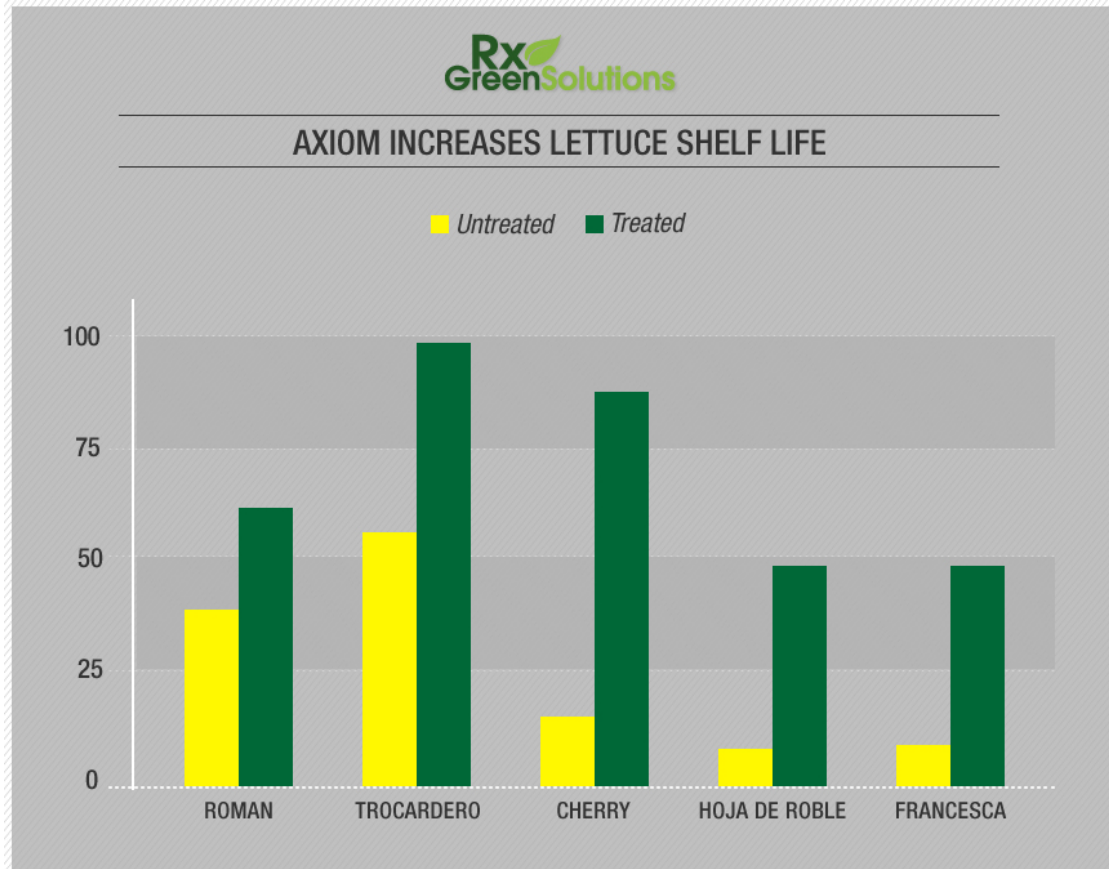
Lettuce Shelf Life Evaluation



Lettuce

Lettuce Shelf Life Evaluation

Percent Marketable Heads after 7 days at Room Temperature



Spinach

Spinach Shelf Life Evaluation

Spinach after 7 days in chilled storage (Average of 5 degrees C)

Rx
GreenSolutions



UNTREATED



TREATED with **AXIOM**

Harpin Shelf Life Data

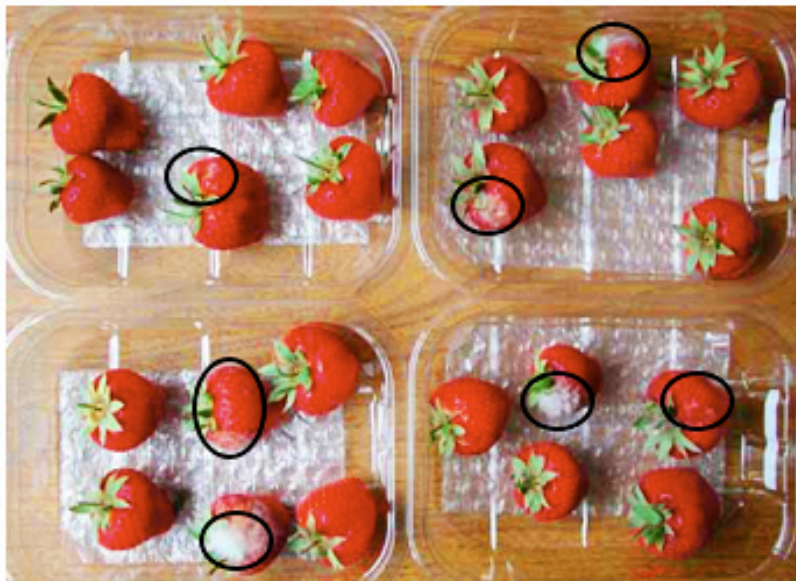
Strawberry Shelf Life Evaluation



AXIOM INCREASED STRAWBERRY SHELF LIFE

Control- 20% rots developed at 20°C over two weeks

Axiom- 8% rots developed at 20°C over two weeks



UNTREATED



TREATED with **AXIOM**

Harpin Proteins are Healthy & Safe!

Easy to use, Just Mix and Spray!

- Harpin Proteins are environmentally safe and virtually non-toxic!
- They will not harm your pollinators
- Or your family pets



Axiom Applications

- 2gram packet mixed with 1 gallon of water (2oz option available)
 - 1 gallon covers 1,000 square feet
 - Re-seal opened packets to minimize exposure to air and moisture; use opened packets within 3 weeks
 - Maintain tank pH between 5-10
- Plants can be sprayed, fogged, drenched, or dipped
- Axiom is compatible with a wide range of other products
 - Always mix Axiom first, then add other products
 - Do not use with oxidizing agents
- Always read labels prior to use

