

THE NEXT GENERATION OF SDS PROTECTION HAS ARRIVED.

Syngenta has launched Saltro® seed treatment, a major advancement in Sudden Death Syndrome (SDS) seed treatments.



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Soybean Growth & Development

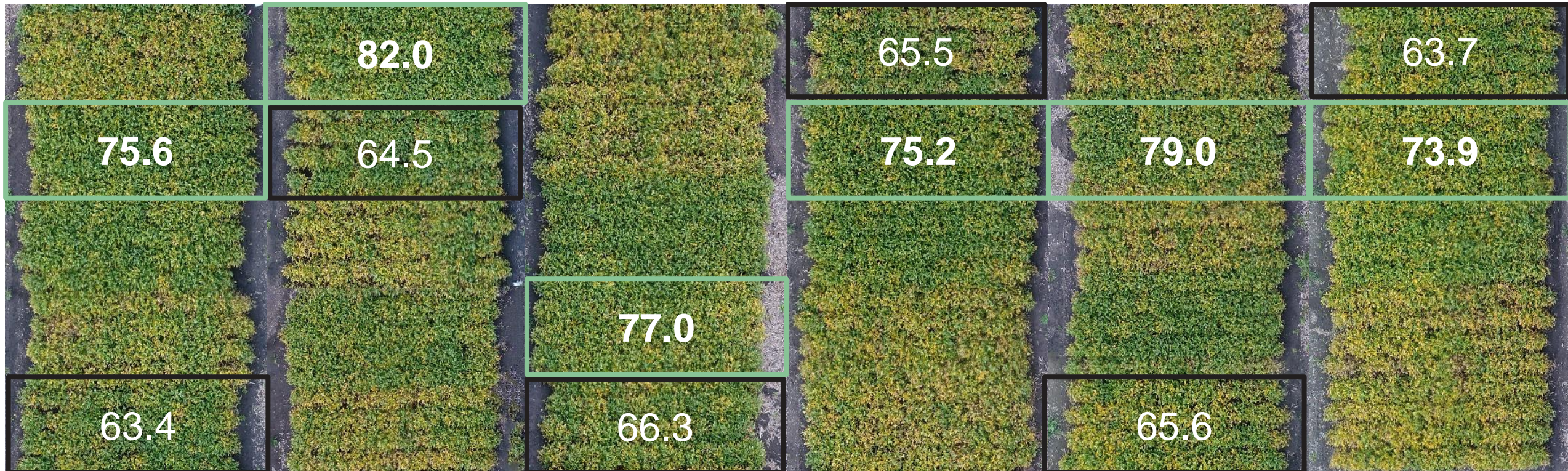
- Soybean performance reflects variety interacting with biotic and abiotic stresses during each season
- Root growth during early Vegetative Growth Stage is critical
- Any stress that reduces growth and development rate is critical, as early growth lost may NOT be regained later during Reproduction
- As the plant transitions from Vegetative into Reproductive (flowering/early pod development) Growth Stage the rate of Root Development necessarily slows, in relative terms, in lieu of Flower/Pod development
- Therefore, avoiding early Vegetative Growth Rate reduction should be priority

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Saltro + CMV vs. ILEVO + Obvius Plus under heavy SDS pressure

Source: U of MN, D. Malvick, Rosemount MN, 2020

9/16



**Saltro® + CMV
Average** **77.1**

**ILEVO® + Obvius®
Plus Average** **64.8**

**Saltro + CMV
Advantage** **+12.3**

* Yields from ILEVO-treated and Saltro-treated plots listed. Yields from untreated check or other treatment plots not listed.

SCN count: 250 eggs/100cc soil

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CMV = CruiserMaxx® Vibrance®

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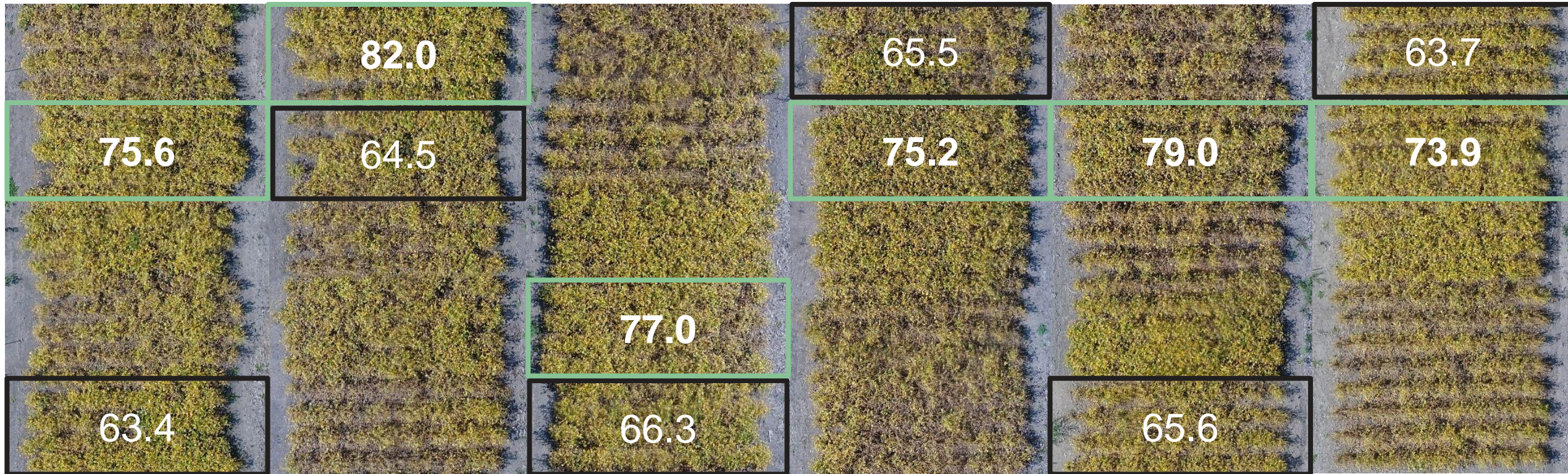
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Saltro + CMV vs. ILEVO + Obvius Plus under heavy SDS pressure

Source: U of MN, D. Malvick, Rosemount MN, 2020

9/23



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Average** **77.1**

**ILEVO® + Obvius®
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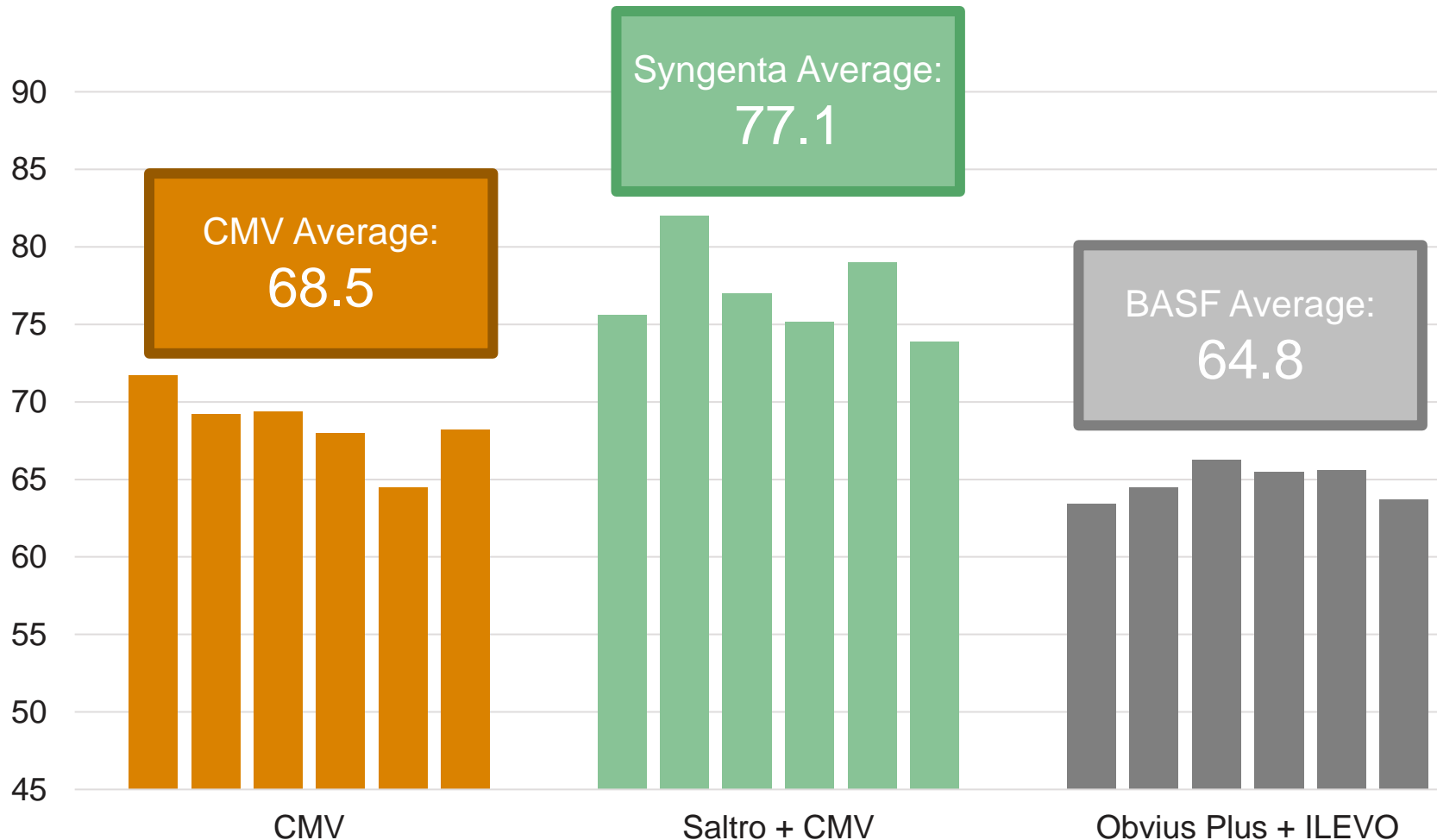
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Syngenta vs. BASF Packages under heavy SDS pressure

Source: U of MN, D. Malvick, Rosemount MN, 2020



Superior SDS Protection

Strong SCN activity

No stress from the “halo”

Proven
Cruiser® Vigor Effect

Industry Leading Fungicide
Package

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SCN count: 250 eggs/100cc soil

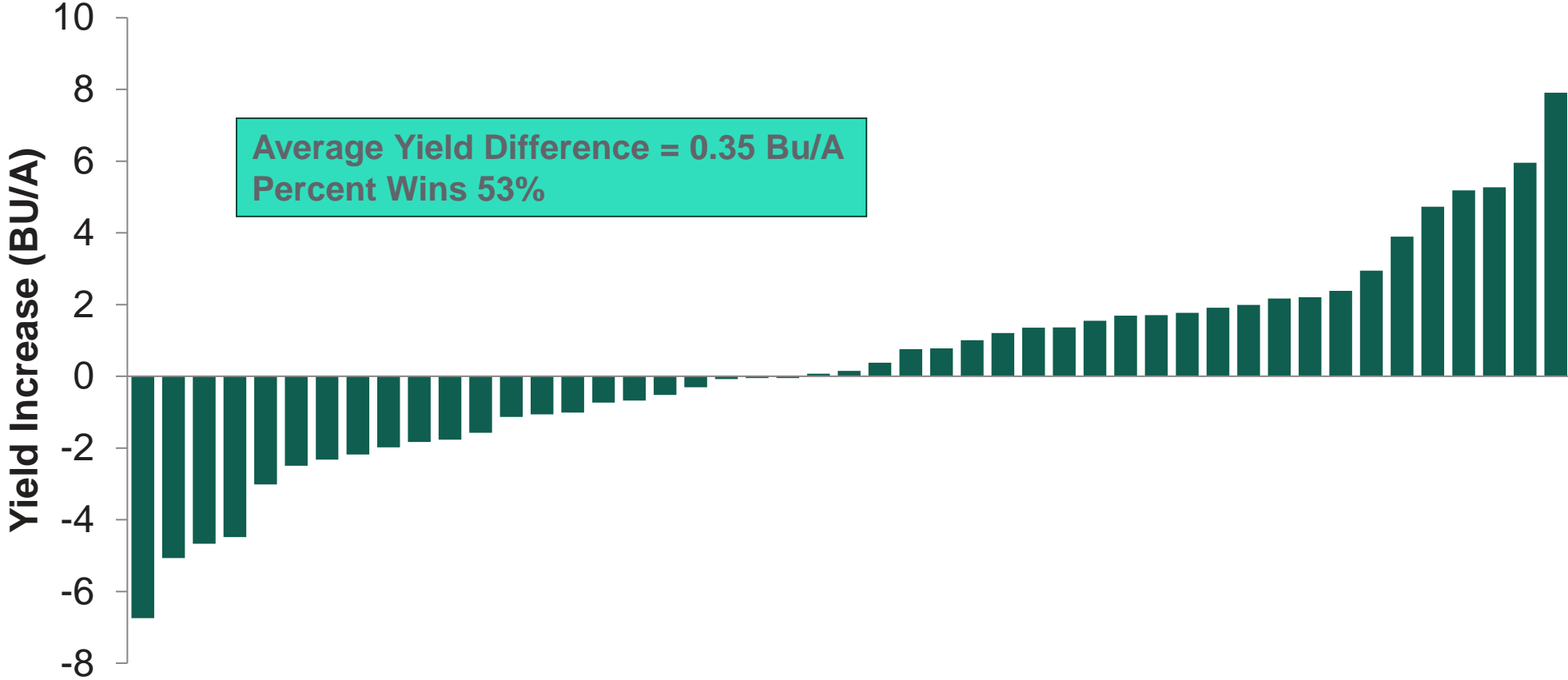
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Soybean Cyst Nematode all trials – No observable SDS foliar symptoms

Yield Difference Saltro 0.075 mg vs. ILEVO 0.15 mg



Source: University, Contractor & Syngenta Internal Trials with SCN present without SDS reported (n=47)

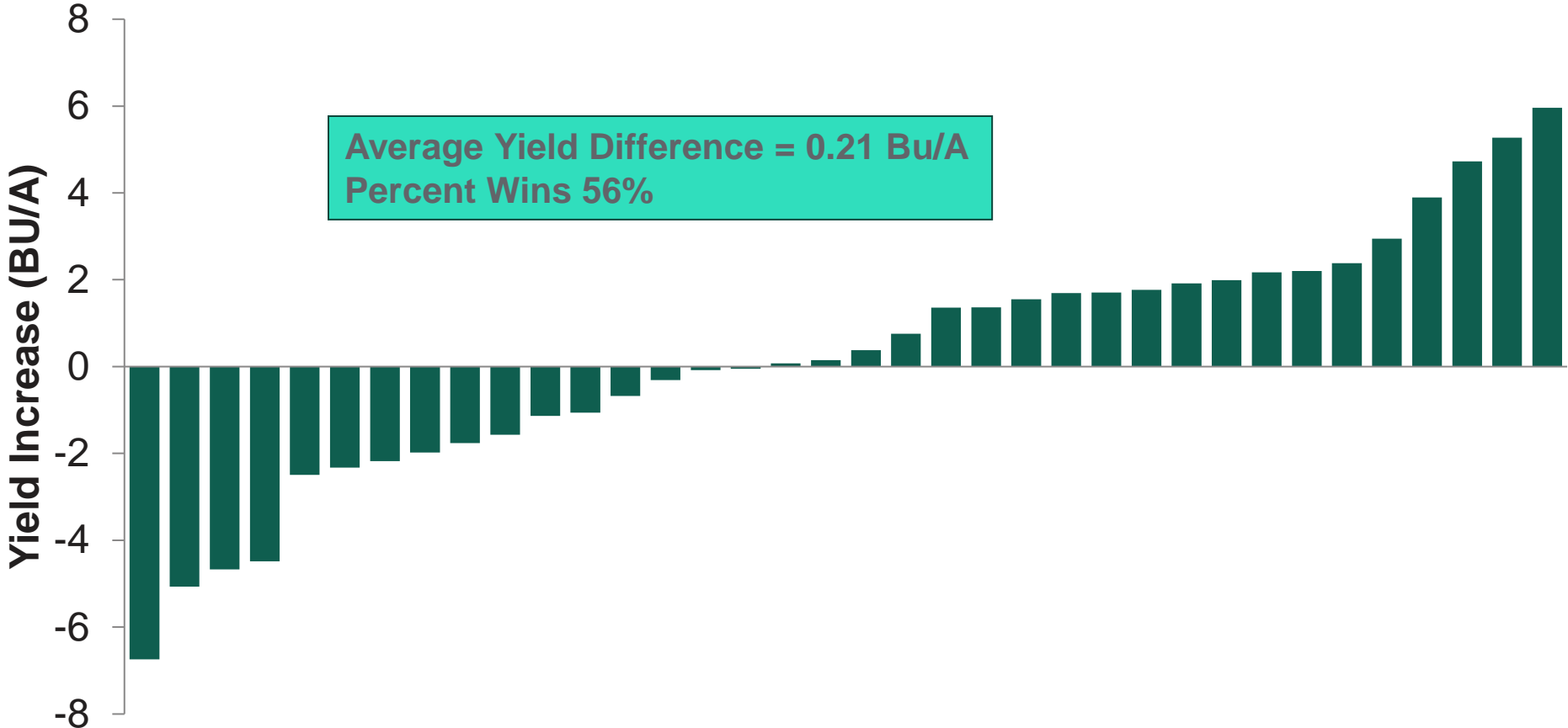
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Soybean Cyst Nematode all trials >500 SCN eggs/100 ccs soil (No observable SDS foliar symptoms)

Yield Difference Saltro 0.075 mg vs. ILEVO 0.15 mg



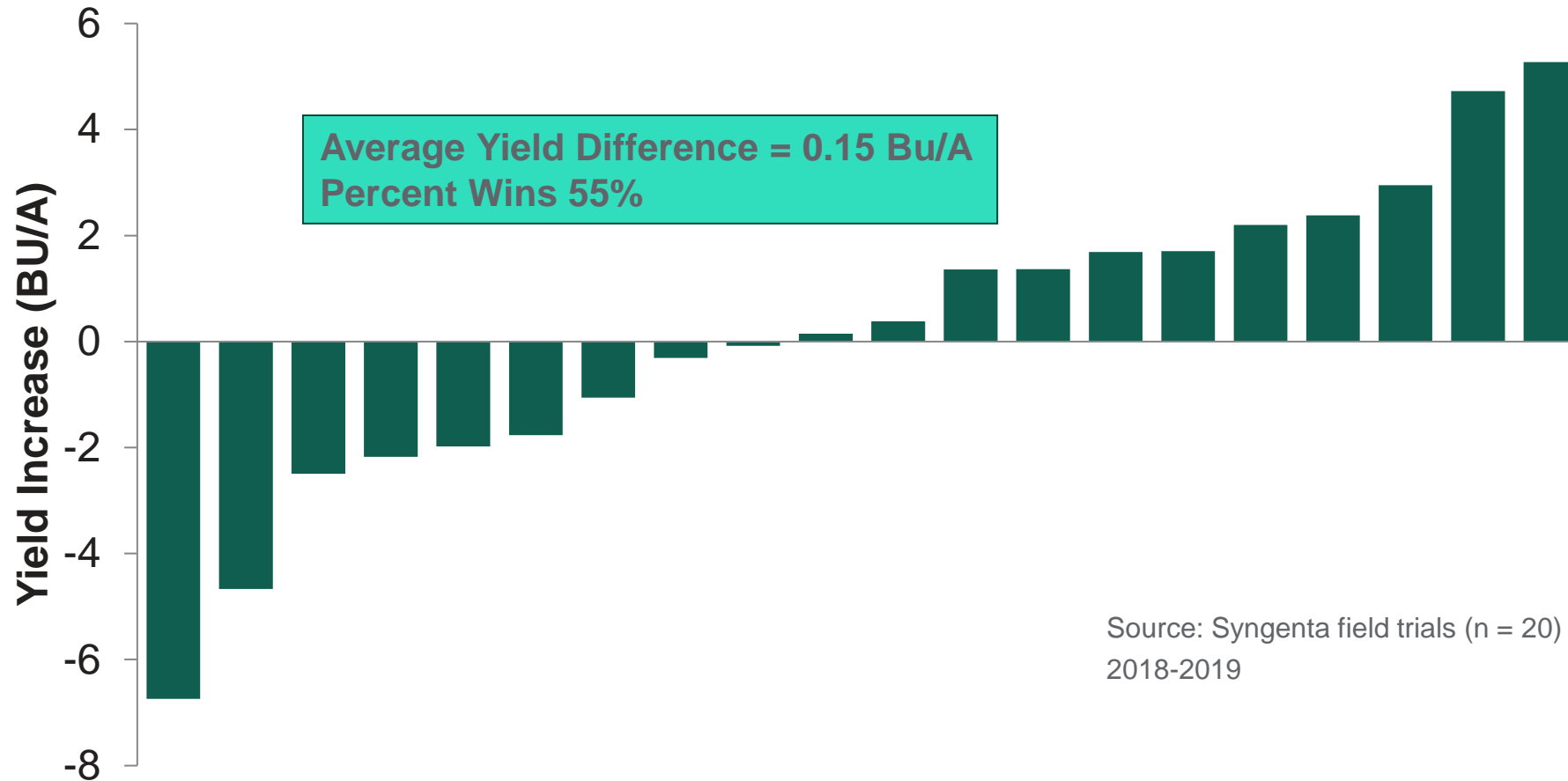
Source: University, Contractor & Syngenta Internal Trials with SCN present without SDS reported (n=36)

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Soybean Cyst Nematode all trials >1000 SCN eggs/100 ccs soil (No observable SDS foliar symptoms) Yield Difference Saltro 0.075 mg vs. ILEVO 0.15 mg



Source: Syngenta field trials (n = 20)
2018-2019

Source: University, Contractor & Syngenta Internal Trials with SCN present without SDS reported (n=20)

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Boundary 6.5 EC / Saltro vs. Fierce XLT / ILeVO

Dixon Grow More™ Experience Site, Dixon IL



Boundary® 6.5 EC herbicide in combination with **Saltro®** seed treatment. No crop response.
Canopy cover = 18.4%



Fierce® XLT herbicide in combination with **Ilevo®** seed treatment. Significant crop response.
Canopy cover = 5.1%

Canopy cover calculated use Canopeo app.

Syngenta Trials: Dixon, IL– 5/12/21, 5/19/21
KRS 06/21

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Who is paying **BOUNTY** for dead nematodes?

- No one pays for dead nematodes
- Larger root system provides greater yield stability across environments
- Protecting root systems is therefore **PRIORITY** for Seedcare solution
- **Larger Root = Larger Yield Potential!**

Right?



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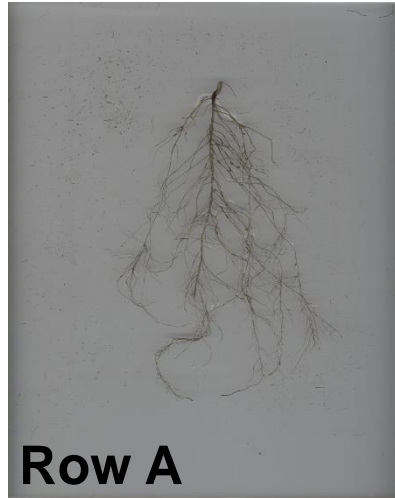


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Size Does Matter! (not how many nematodes you kill)

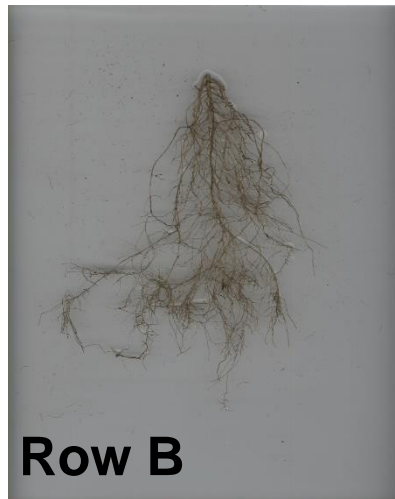
- 34 DAP

- Which row of soybean root masses do you prefer?



- Why?

- Does the size of early root mass influence later season root mass?



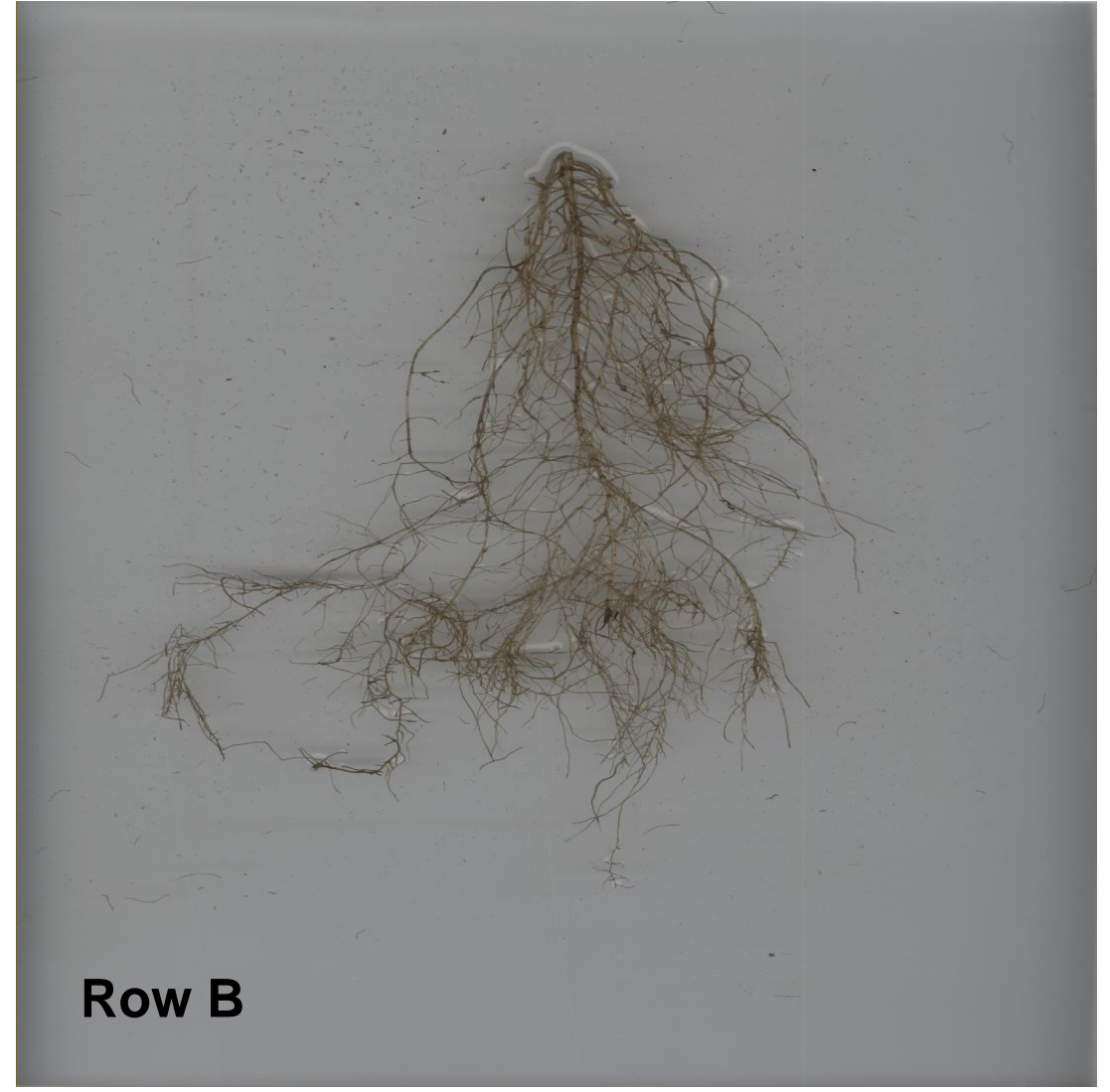
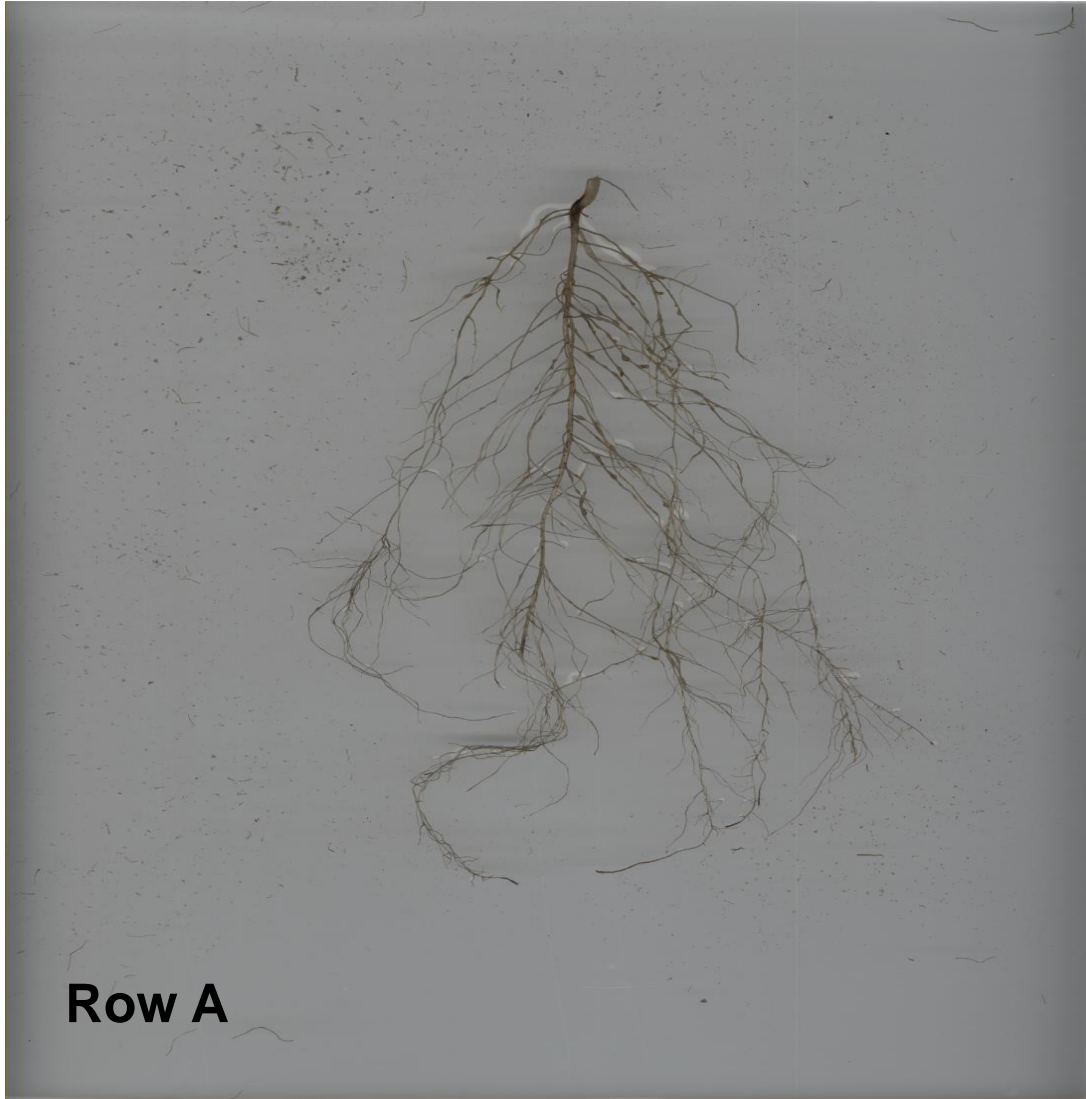
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How should you evaluate nematicide performance?

(other than final seed yield)

Cysts per Gram of Root

- Measure root mass
- Count soybean cysts present

Trt 1

- Root mass = 3.24 grams
- Cyst count = 33
- **Cysts/gram of root 10.2**

Trt 2

- Root mass = 1.42 grams
- Cyst count = 18.3
- **Cysts/gram of root 12.9**

**Ultimately, you want the largest, healthiest
ROOT MASS!! – RIGHT???**

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Non-infected roots (left) vs SCN infected roots (right)

Image: Syngenta

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Nematodes x Fungi take things from bad to worse....

- We know Nematodes are bad...
- We know Fungi are bad...
- Nematodes x Fungi take things from bad to worse....

SYNERGY!!

- Nematodes provide an avenue for fungi, molds and bacteria to enter the root system....

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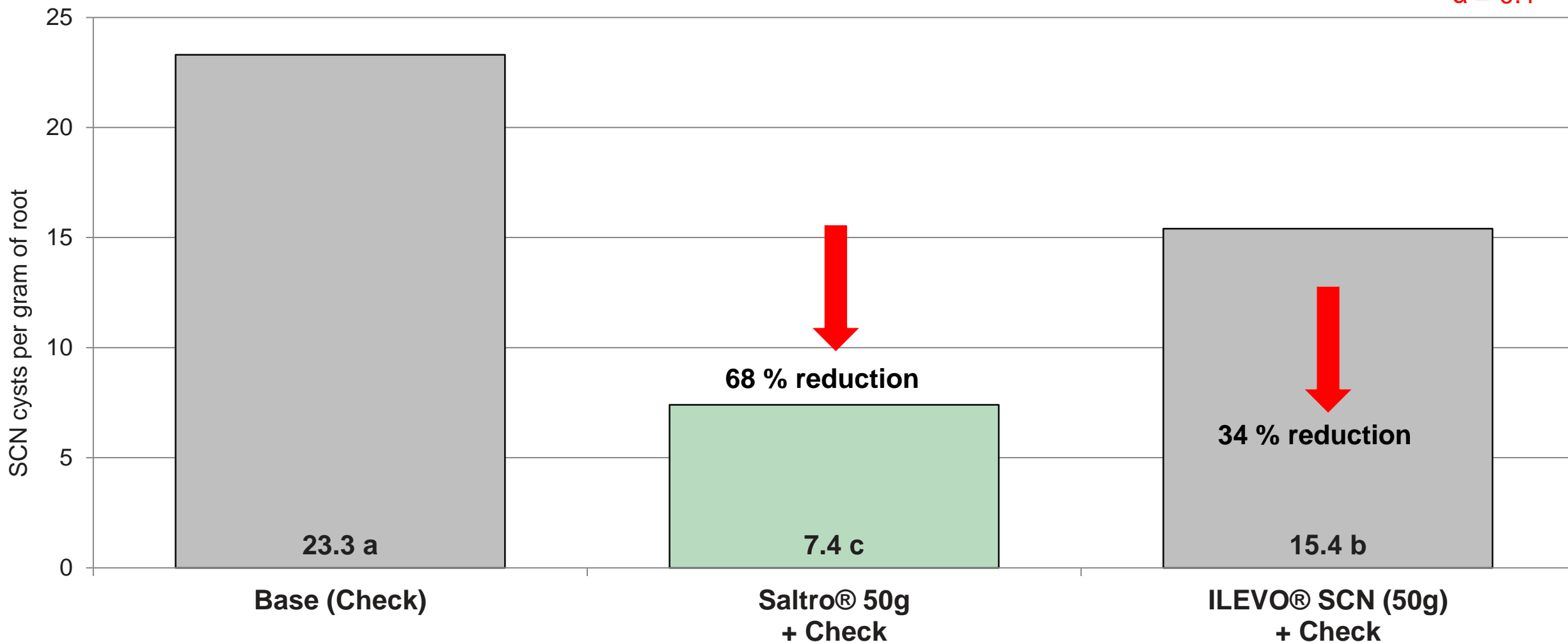
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Field Trial #1 SCN Evaluation – SCN cysts per gram of root 38 DAP

$\alpha = 0.1$



Base – Vibrance® Trio
Vero Beach Research Center - 2021

Inoculated with 2500 SCN eggs per ft/row
Levels not connected by same letter are significantly different

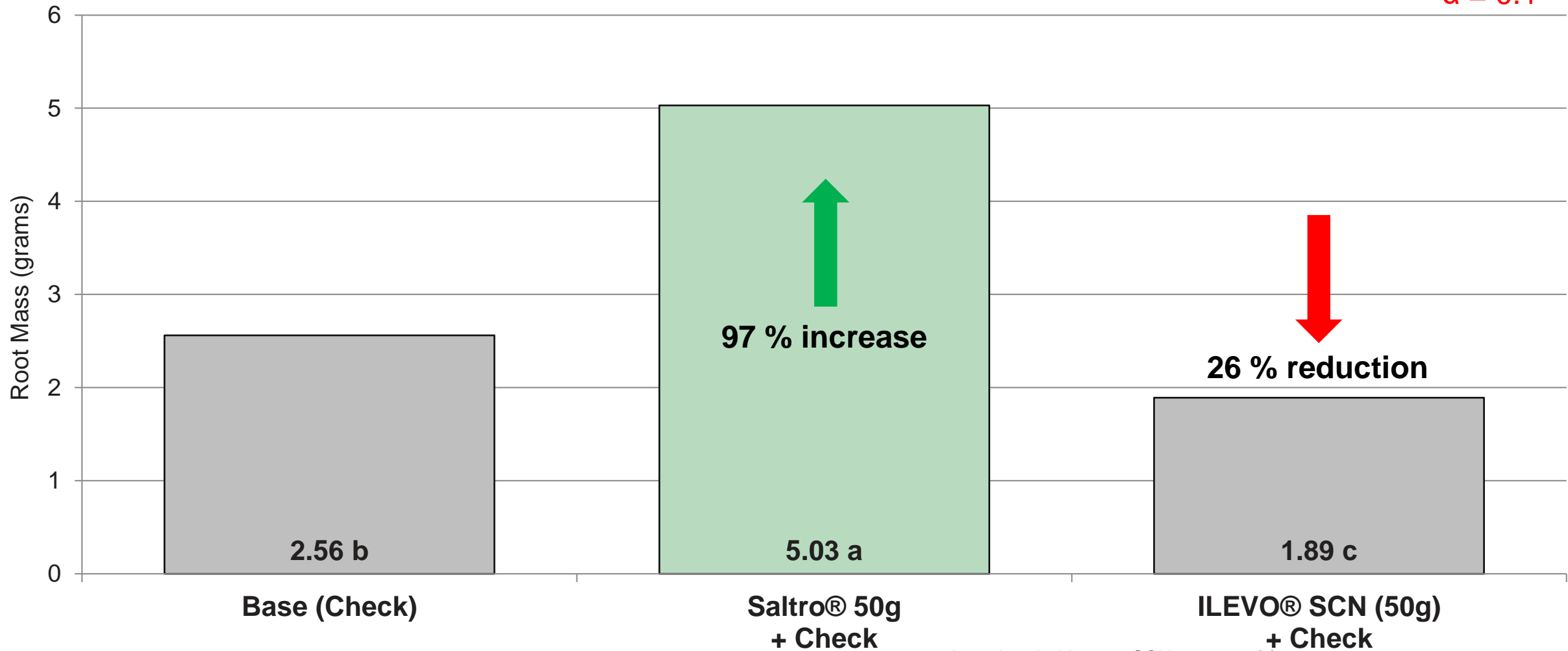
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Field Trial #1 SCN Evaluation – root mass 38 DAP

$\alpha = 0.1$



Base – Vibrance® Trio

Vero Beach Research Center - 2021

Inoculated with 2500 SCN eggs per ft/row

Levels not connected by same letter are significantly different

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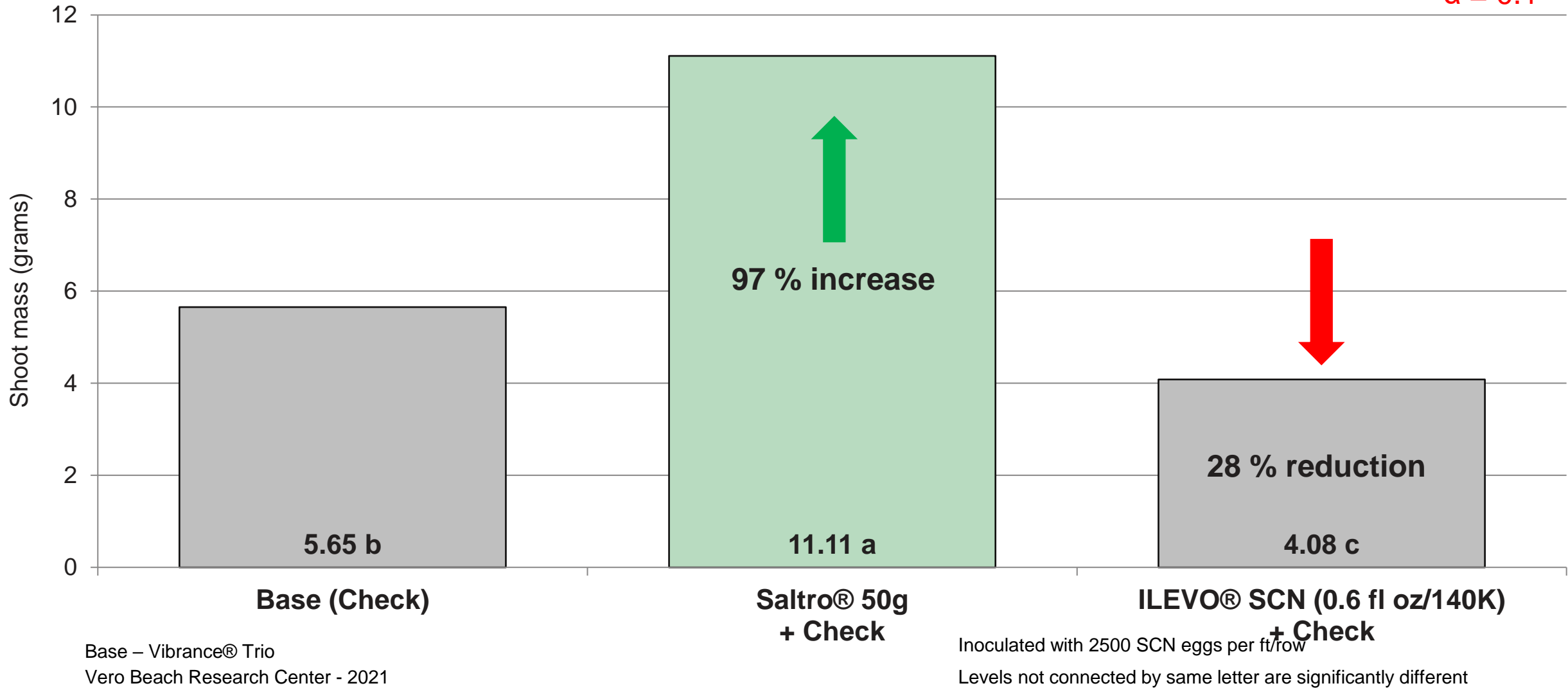
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Field Trial #1 SCN Evaluation – shoot mass 38 DAP

$\alpha = 0.1$



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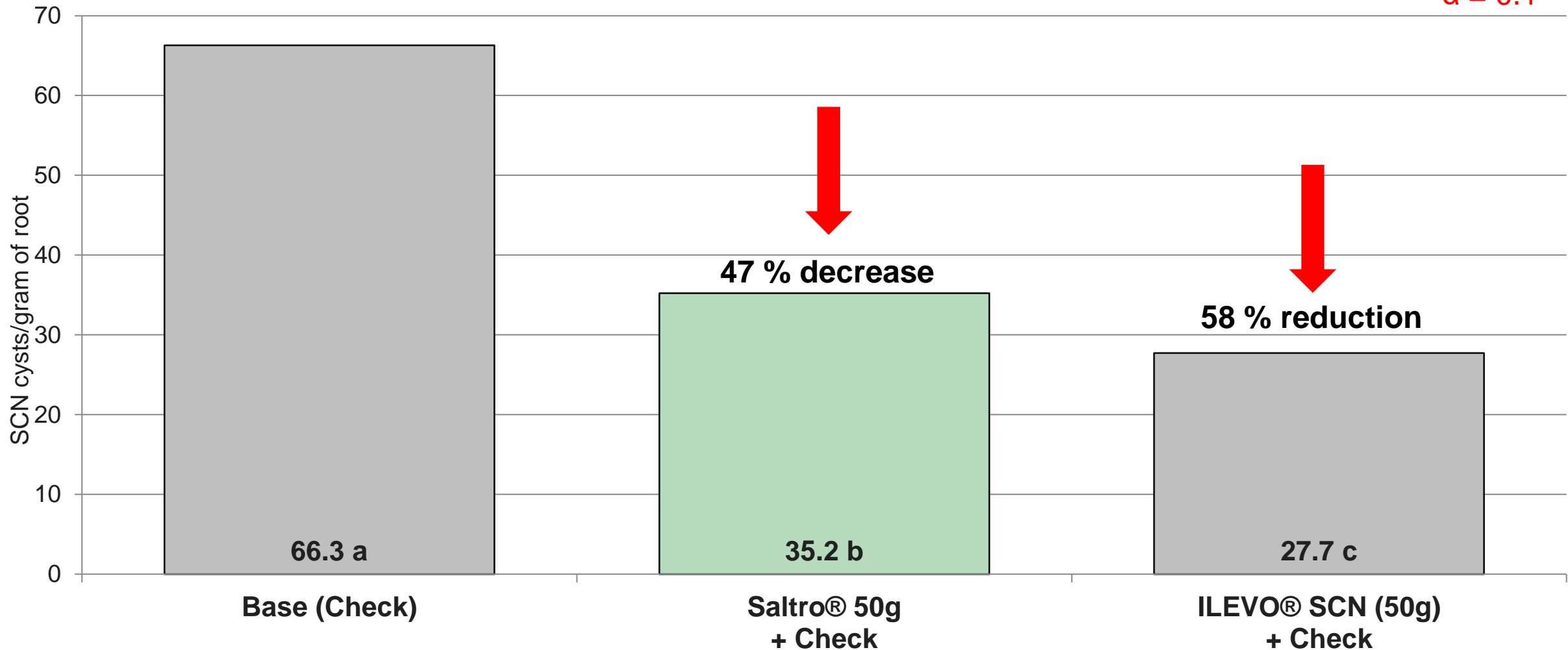
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Field Trial #2 SCN Evaluation – SCN cysts per gram of root 38 DAP

$\alpha = 0.1$



Base – Vibrance® Trio

Vero Beach Research Center - 2021

Inoculated with 2500 SCN eggs per ft/row

Levels not connected by same letter are significantly different

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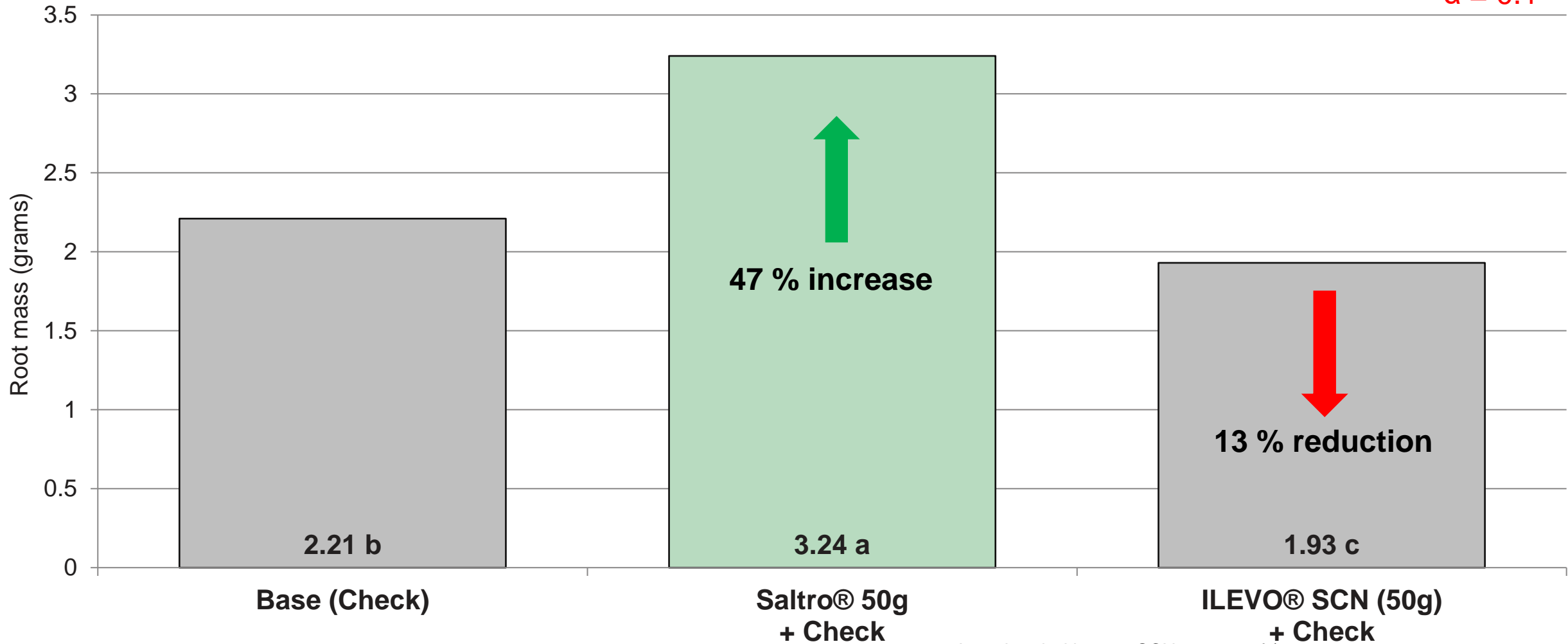
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Field Trial #2 SCN Evaluation – root mass 38 DAP

$\alpha = 0.1$



Base – Vibrance Trio

Vero Beach Research Center - 2021

Inoculated with 2500 SCN eggs per ft/row

Levels not connected by same letter are significantly different

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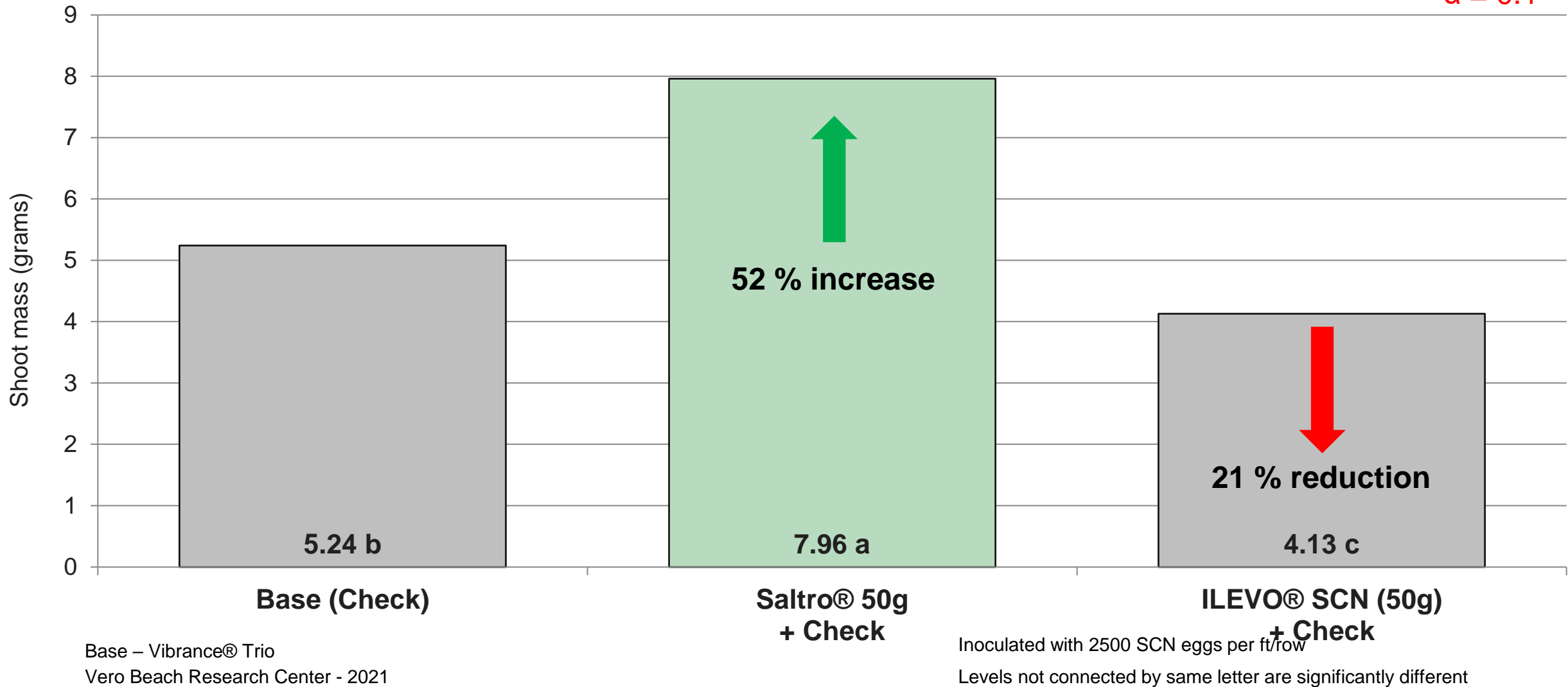
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Field Trial #2 SCN Evaluation – shoot mass 38 DAP

$\alpha = 0.1$



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More Yield is the Better Deal

- More Root Mass
- More Shoot Mass
- More Yield Potential

More VALUE from Syngenta Seedcare!!

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Saltro is Safer than ILEVO (on Rhizobia inoculant, too)!

- Based on 3rd Party research, **Saltro®** is **proven safer on seed-applied Rhizobia** inoculant viability life
- Apply up to 3X earlier than ILEVO® with same effectiveness
- Especially important for upstream conditioning and application ease and inventory management flexibility
- Additional confidence to begin treating soybean early with no loss in Rhizobia inoculant viability

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SOYBEAN			
TagTeam® LCO XC	Planting Window		
	Sequential	Simultaneous	Tank Mix
Acceleron® Seed Applied Solutions BASIC	120 days	120 days	Not Recommended
Acceleron® Seed Applied Solutions BASIC + Poncho®/VOTiVO®	120 days	120 days	Not Recommended
Acceleron® Seed Applied Solutions STANDARD	120 days	120 days	Not Recommended
ApronMaxx®RTA®	20 days	20 days	Not Recommended
Clariva® Complete Beans	90 days	90 days	Not Recommended
Clariva® Elite Beans	Not Tested	120 days	Not Tested
Clariva® Elite Beans + Saltro®	Not Tested	120 days	Not Tested
Clariva® Elite Beans + Mertect® 340-F	Not Tested	120 days	Not Tested
CruiserMaxx® Advanced with Vibrance®	120 days	120 days	Not Recommended
CruiserMaxx® Vibrance® Beans	120 days	120 days	Not Recommended
CruiserMaxx® Vibrance® Beans + Saltro®	Not Tested	120 days	Not Tested
EverGol® Energy	120 days	120 days	Not Recommended
EverGol® Energy + Stress Shield	120 days	120 days	Not Recommended
ILeVO®	40 days	40 days	Not Recommended
Inovate®	Not Tested	120 days	Not Recommended
Poncho®/ VOTiVO®	Not Tested	120 days	Not Recommended
PPST 2030	Not Tested	120 days	Not Recommended
Seed Shield® Beans	120 days	120 days	Not Recommended
Seed Shield® Max Beans	Not Tested	120 days	Not Tested
Vibrance® Trio	Not Tested	120 days	Not Tested
Bare seed	120 days		

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Superior SDS Protection
Clear SCN Activity
No Halo Effect
Better on the Broad Acre



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