

ThryvOn Cotton in the Midsouth

UofA DIVISION OF AGRICULTURE
RESEARCH & EXTENSION
University of Arkansas System



Cotton
Incorporated

Bollgard³
ThryvOn™
With **XTENDFLEX™**
TECHNOLOGY

May 12



May 15



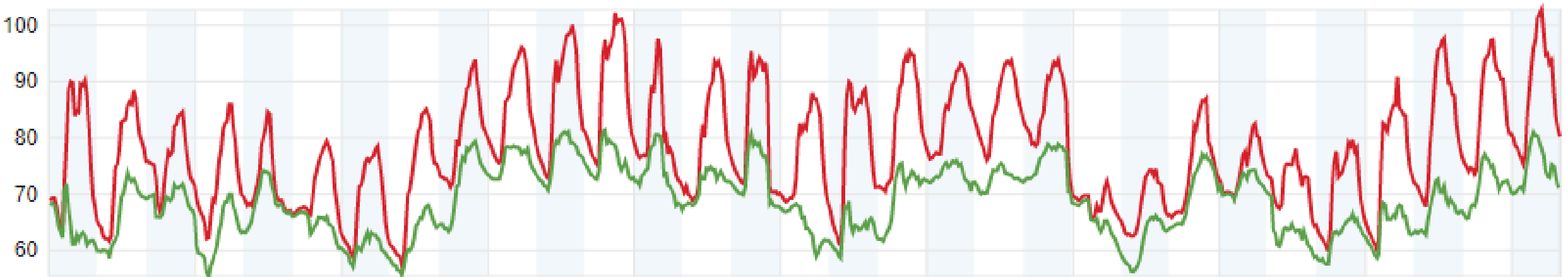
May 12

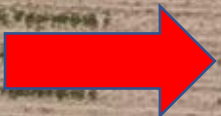
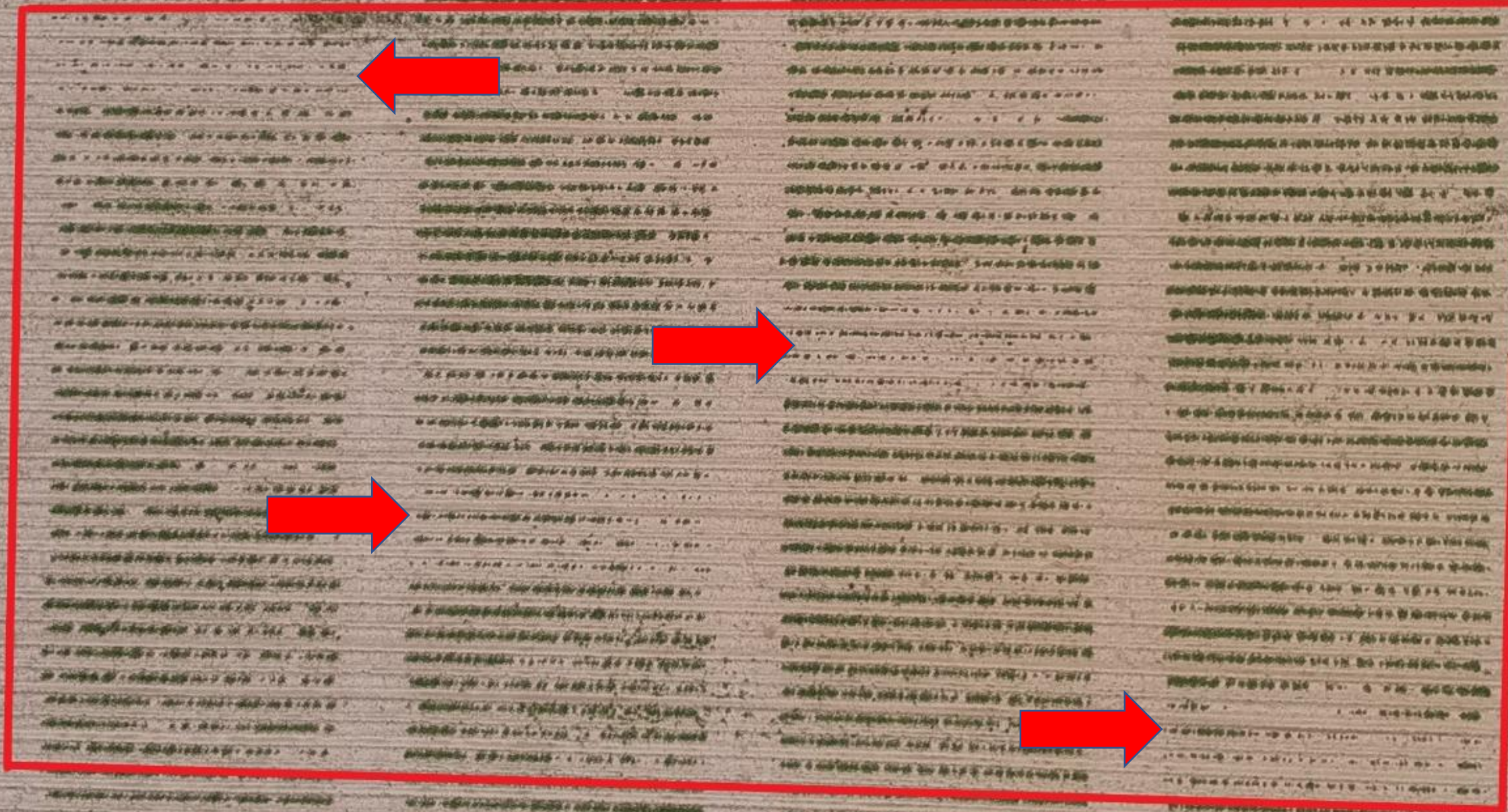


May 15



May 01 May 04 May 07 May 10 May 13 May 16 May 19 May 22 May 25 May 28 May 31 Jun 01

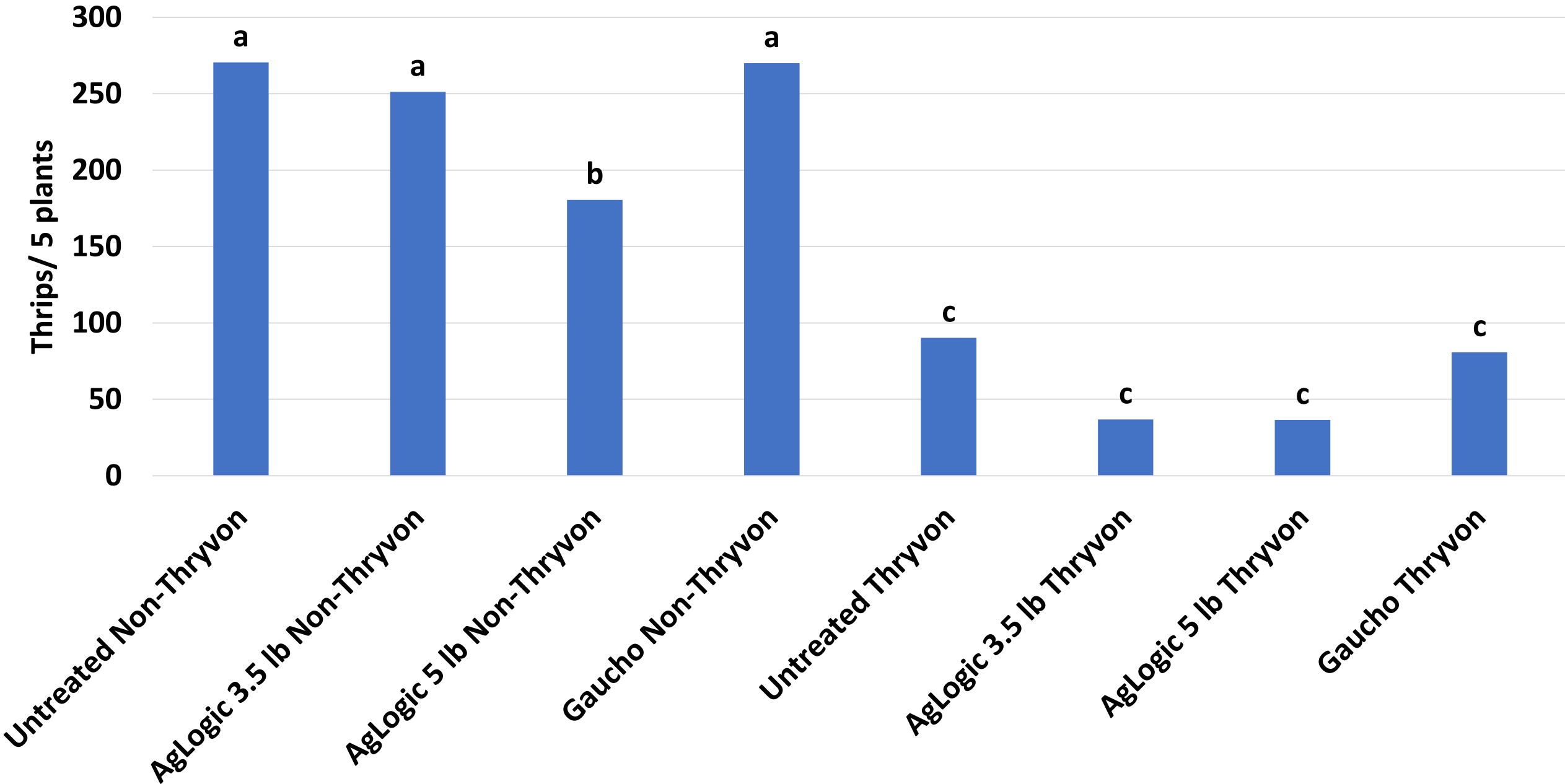




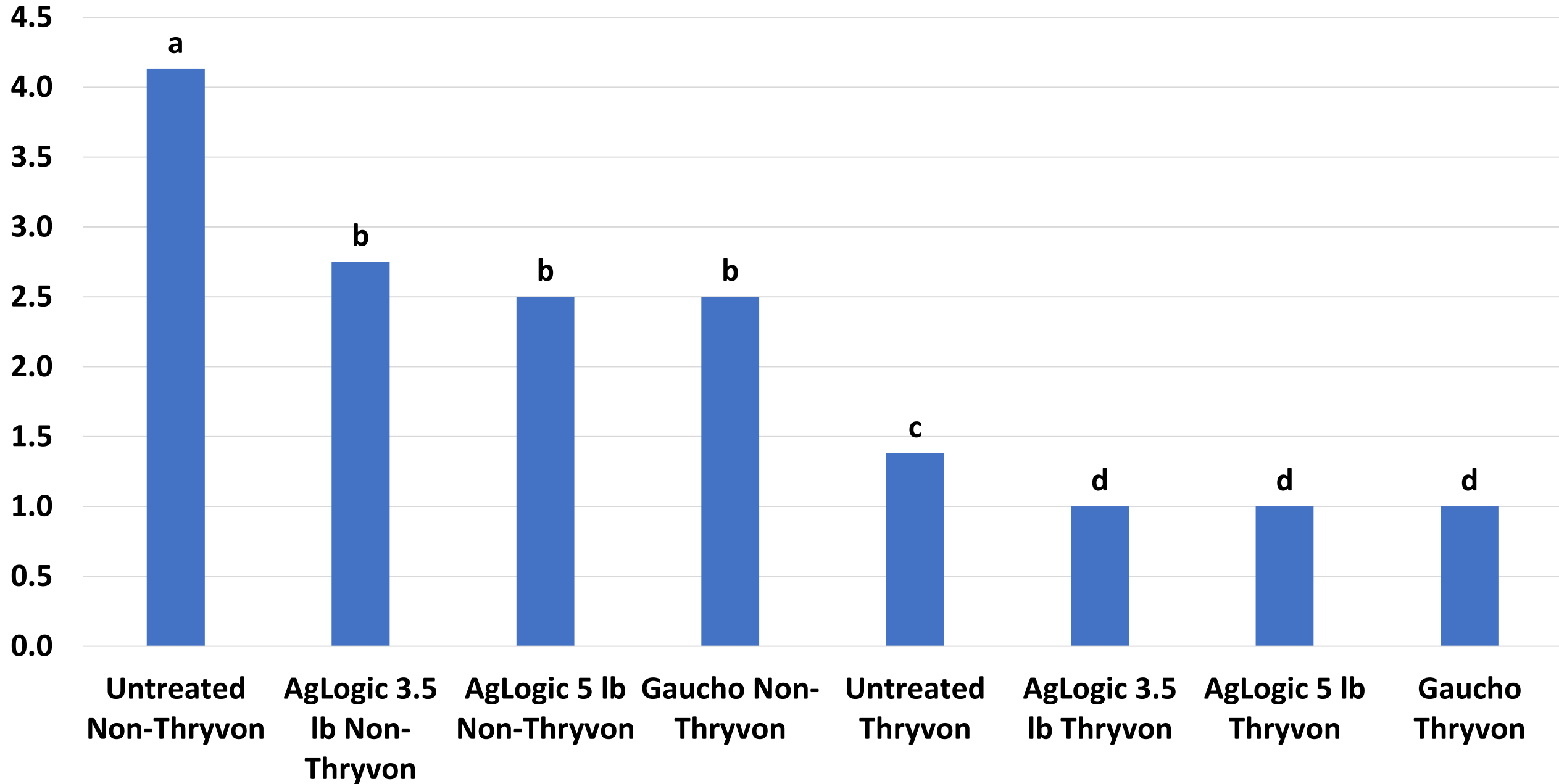
Untreated Non-Thryvon vs Untreated Thryvon



Thryvon Thrips Marianna, AR



Thryvon Damage Rating (1 good-5 dead)







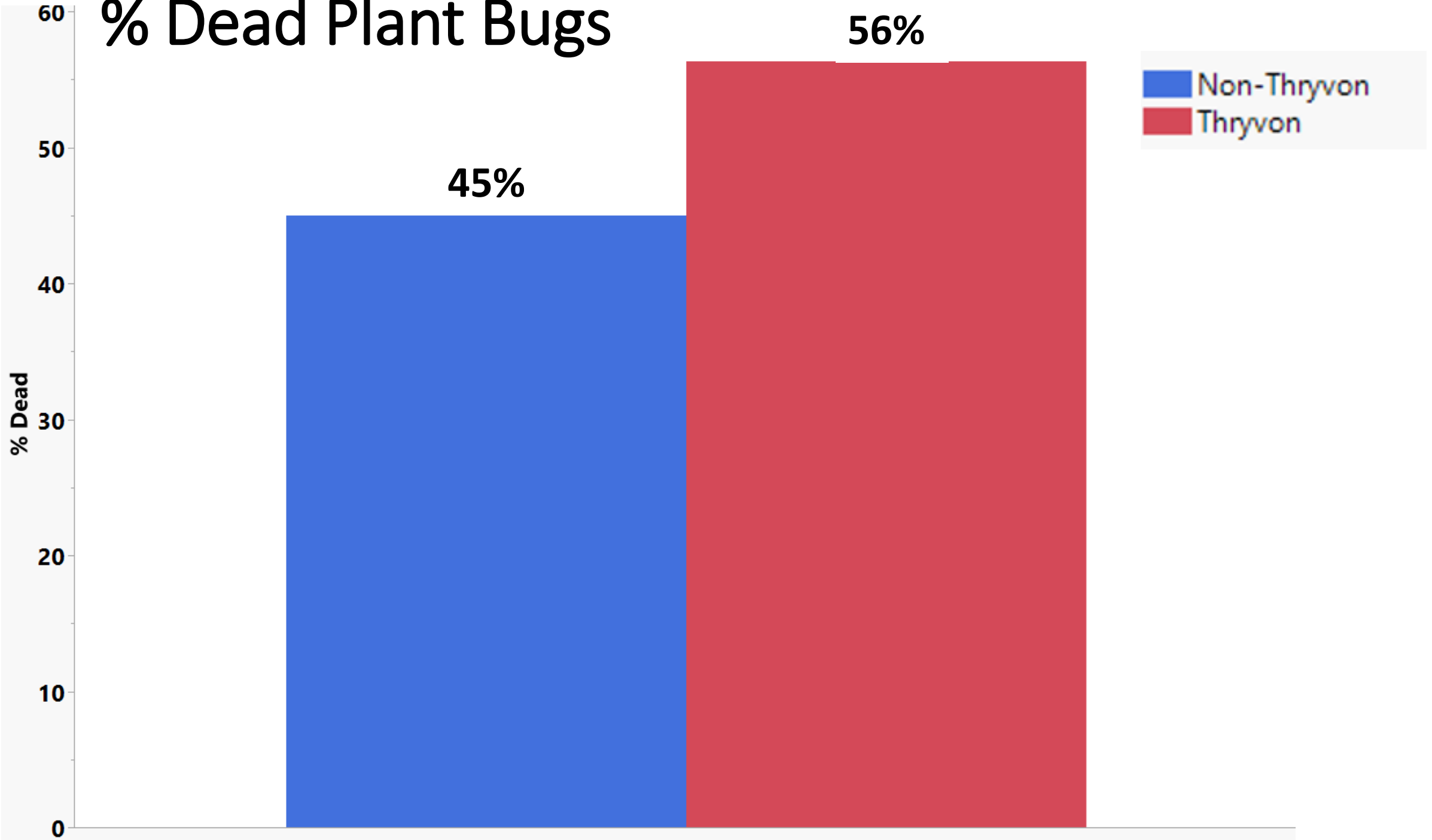


An aerial photograph of a vast agricultural field, likely a cornfield, showing dense rows of crops. The field is divided into several rectangular sections by narrow paths or roads. A semi-transparent white text box is centered over the middle of the image, containing the text "How is Thryvon controlling plant bugs?". The surrounding area includes a dirt road on the left and some trees and a blue object on the right.

How is Thryvon controlling plant bugs?

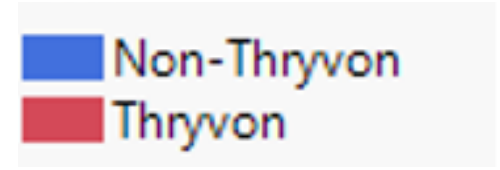


% Dead Plant Bugs



% Squares Missing

% Damage



15

10

5

0

0

1

3

Infested

6.4%

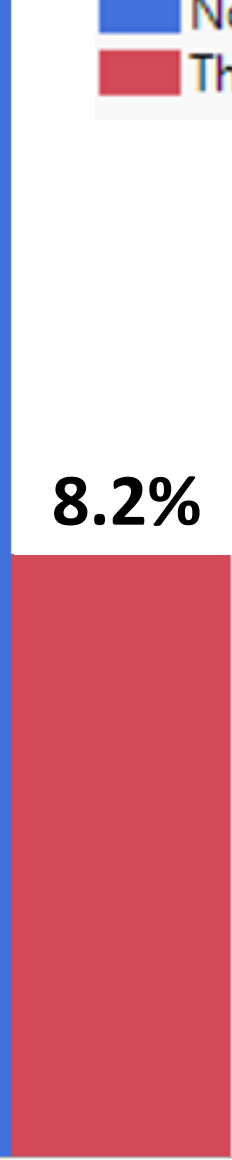
6.2%

14.5%

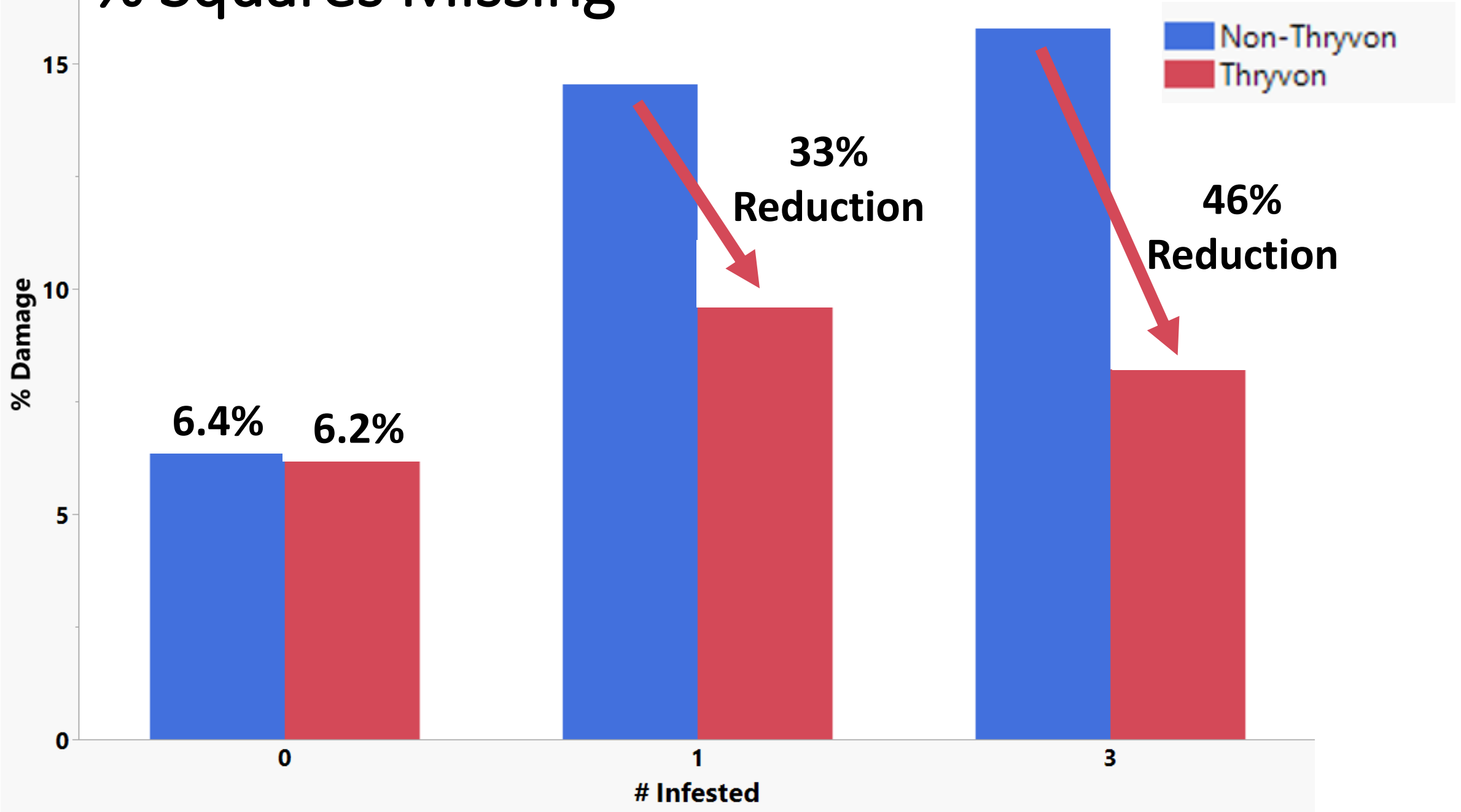
9.6%

15.8%

8.2%

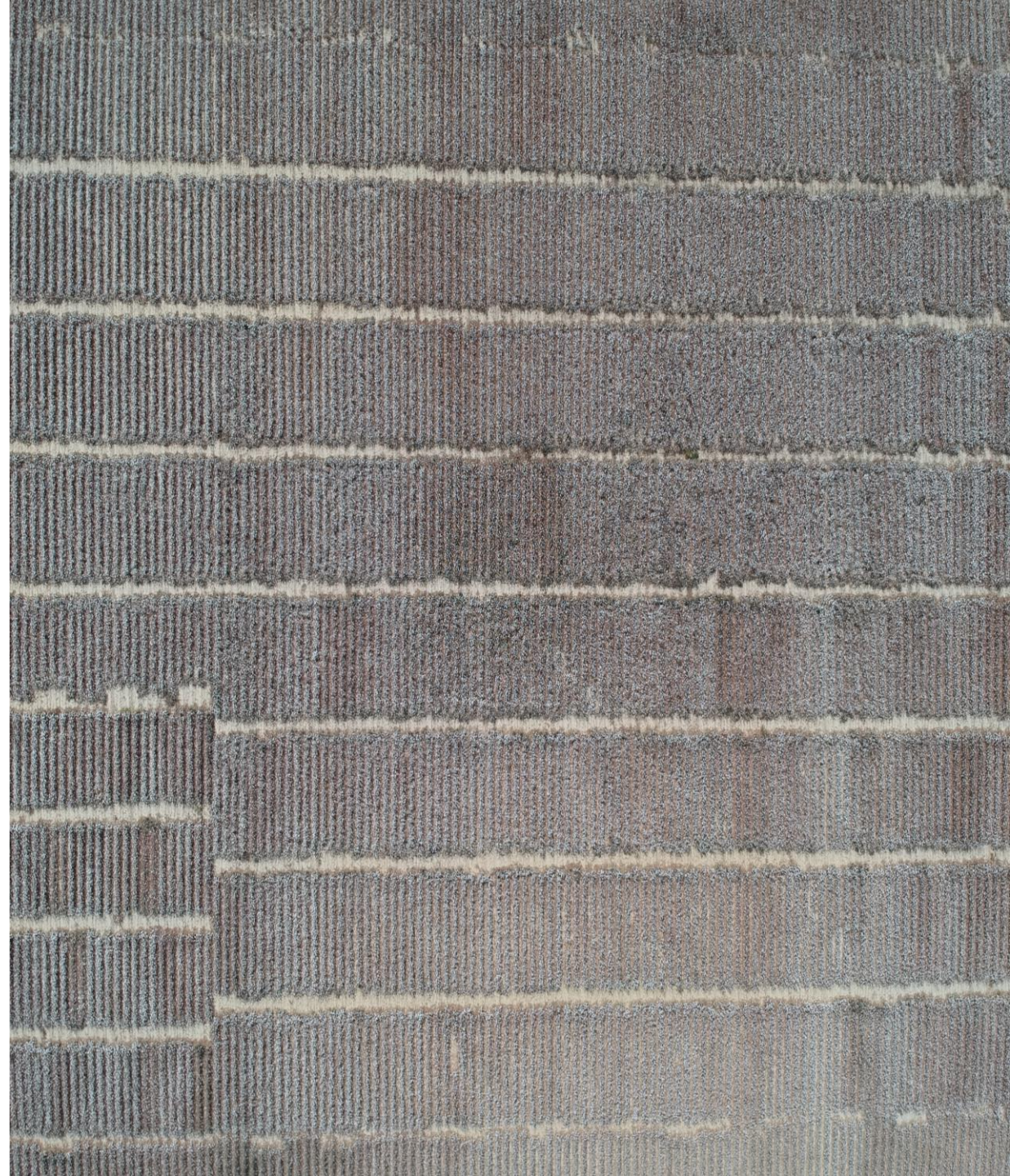


% Squares Missing



Threshold Study

- Untreated
- 1x threshold
- 2x threshold
- 3x threshold
- 3 large nymphs
- 6 large nymphs



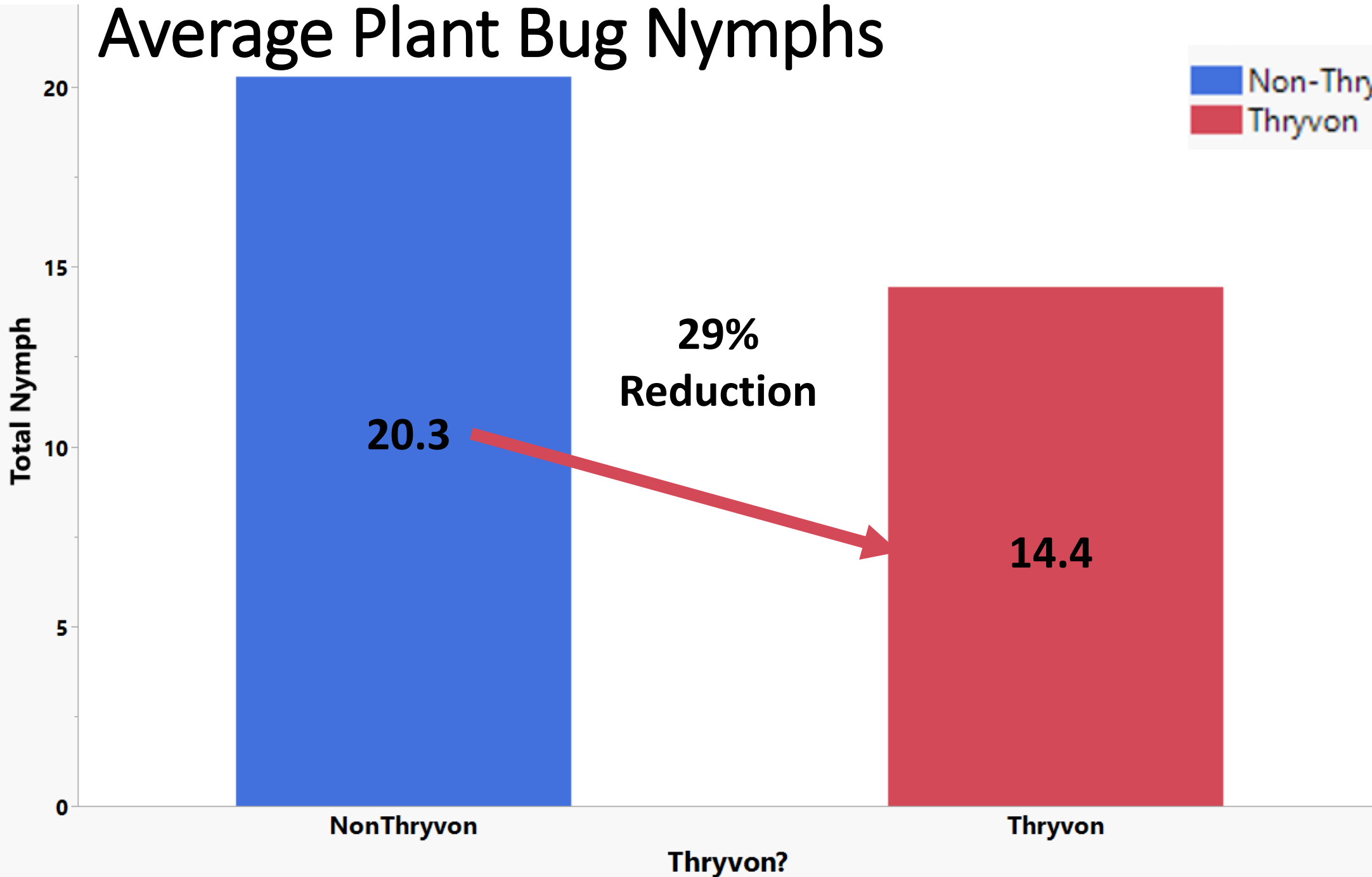
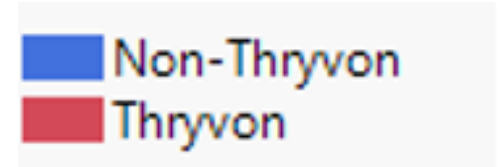
Threshold Study

- Untreated
- 1x threshold
- 2x threshold
- 3x threshold
- ~~3 large nymphs~~
- ~~6 large nymphs~~
- 80% square retention
- 85% square retention

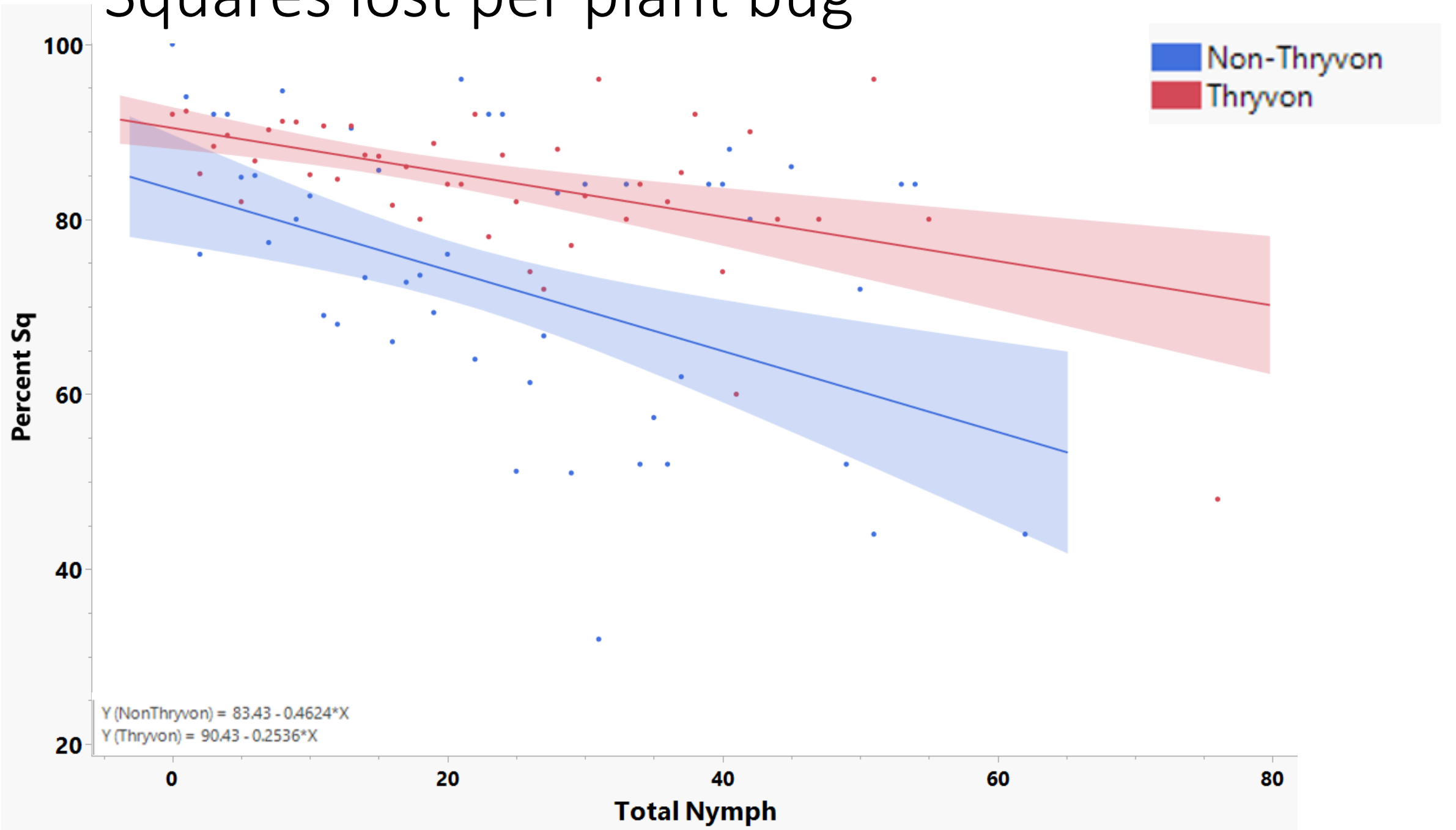




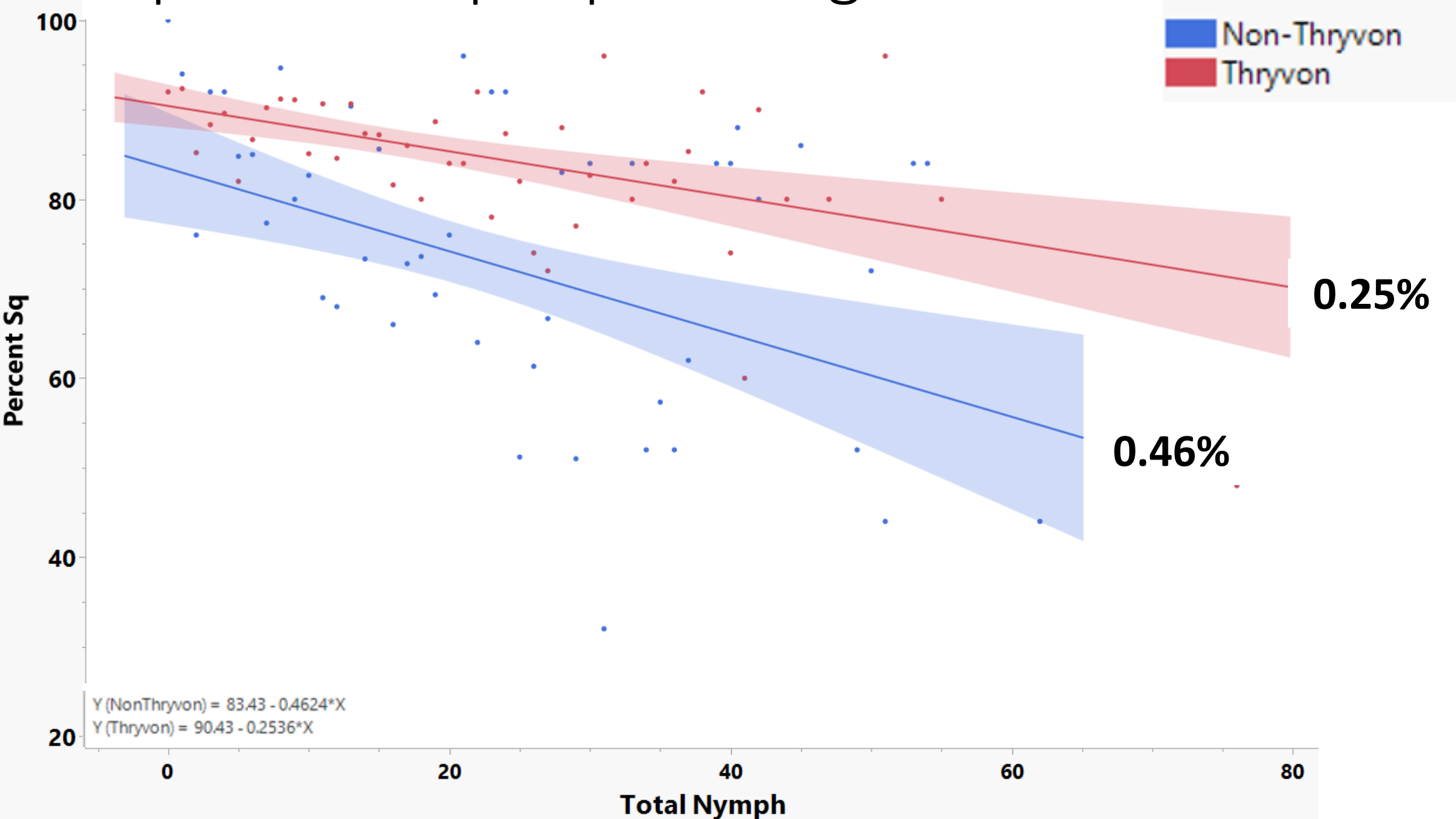
Average Plant Bug Nymphs



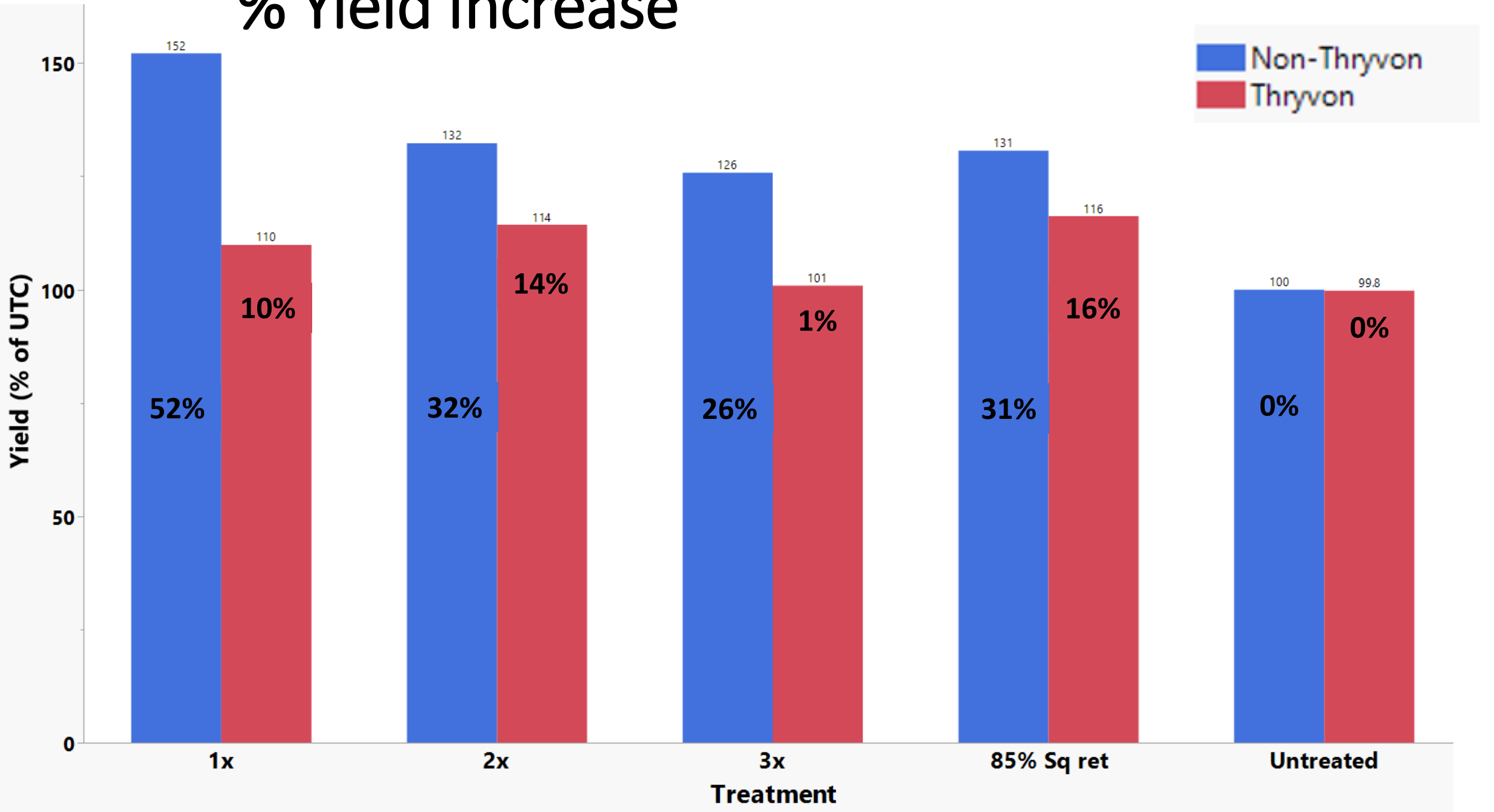
Squares lost per plant bug



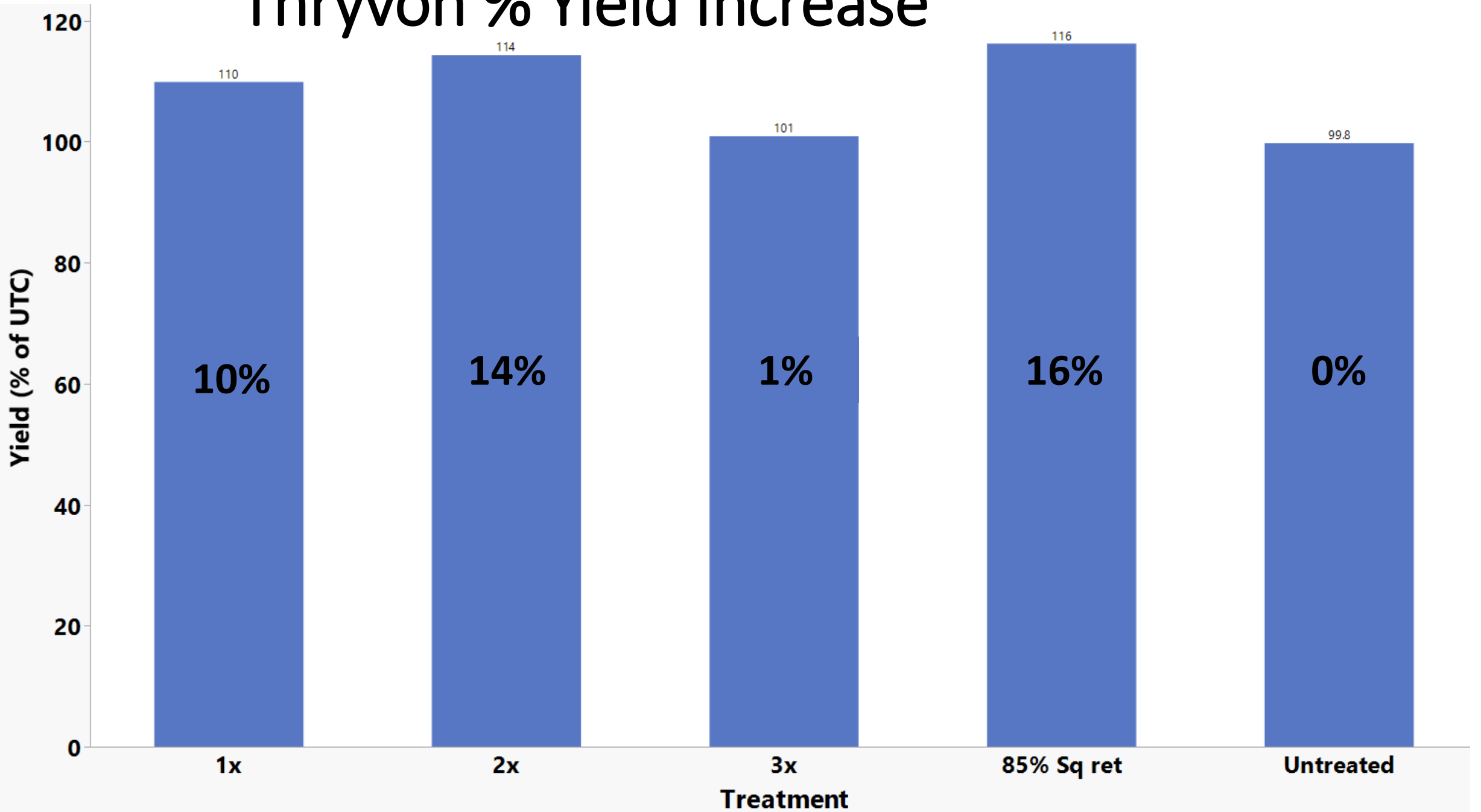
Squares lost per plant bug



% Yield Increase



Thryvon % Yield Increase

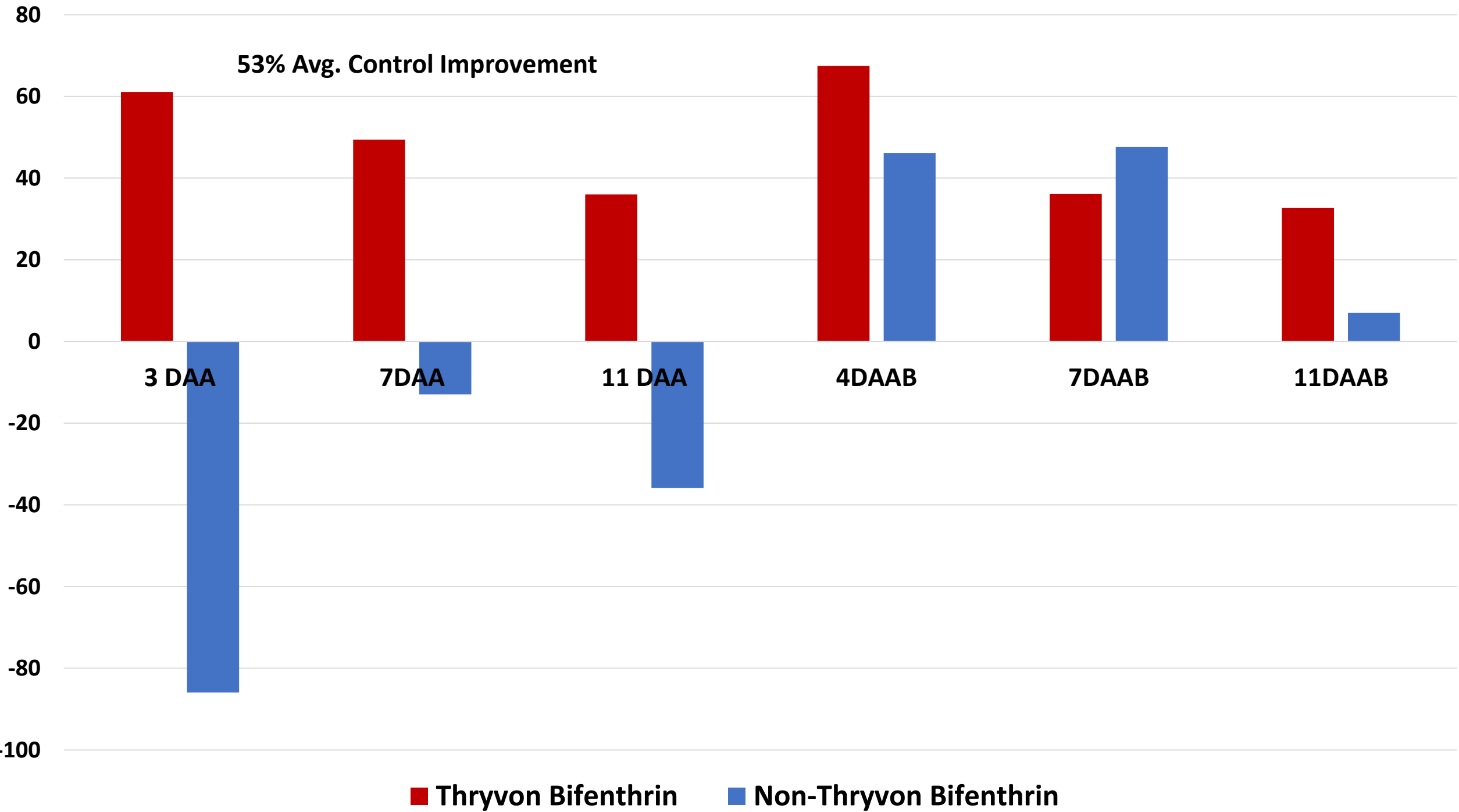


What insecticide should I use?

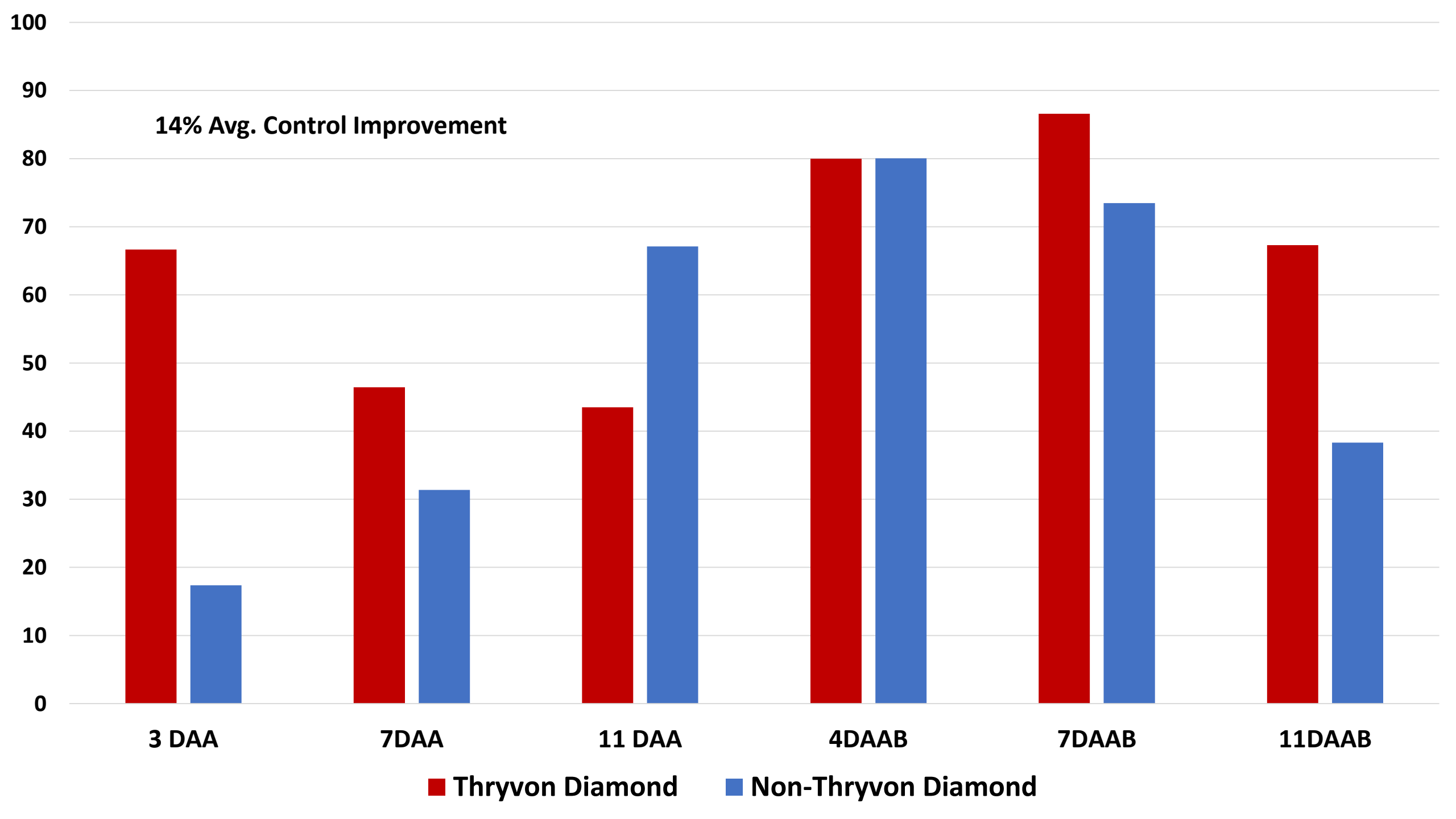




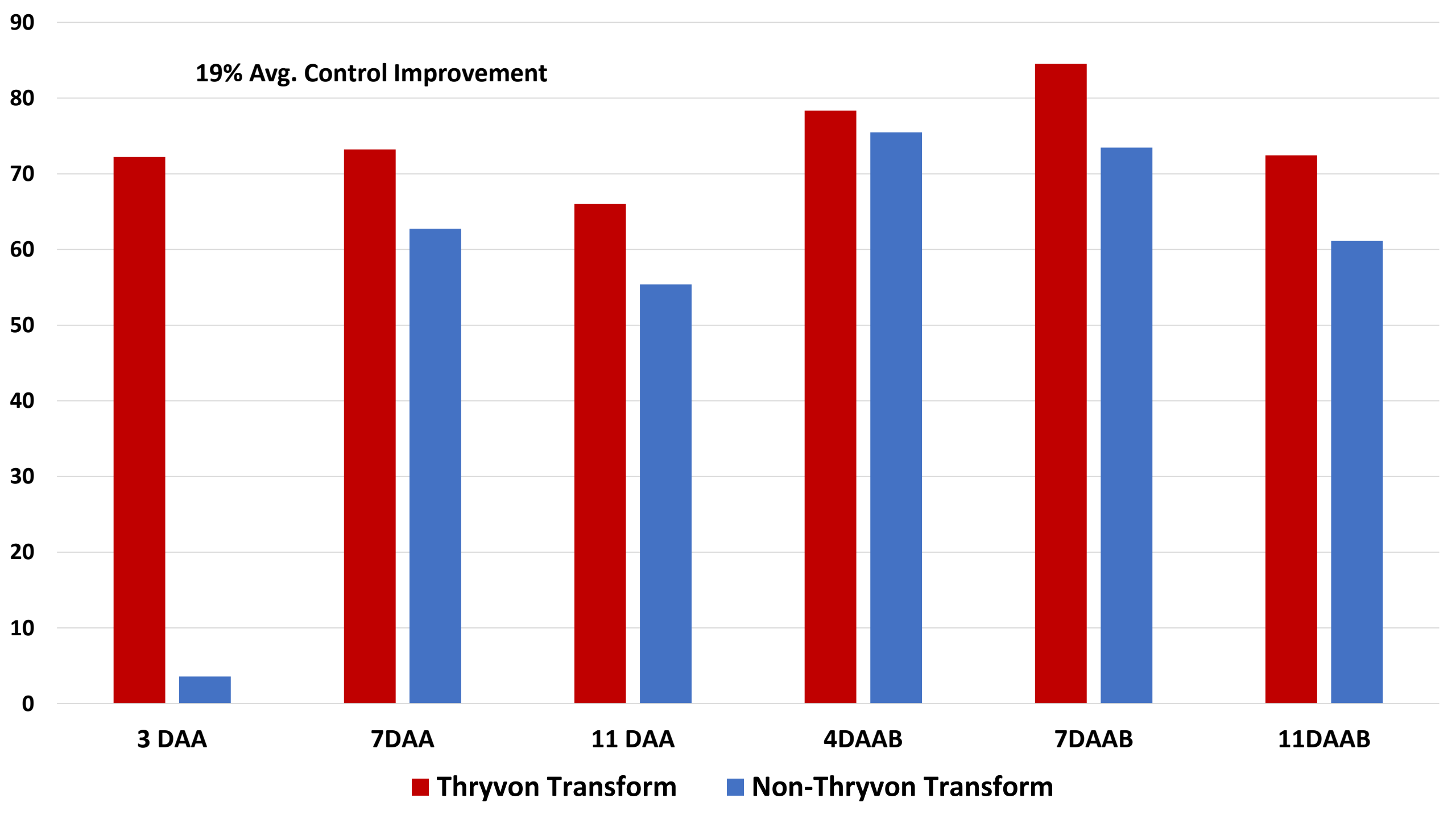
53% Avg. Control Improvement

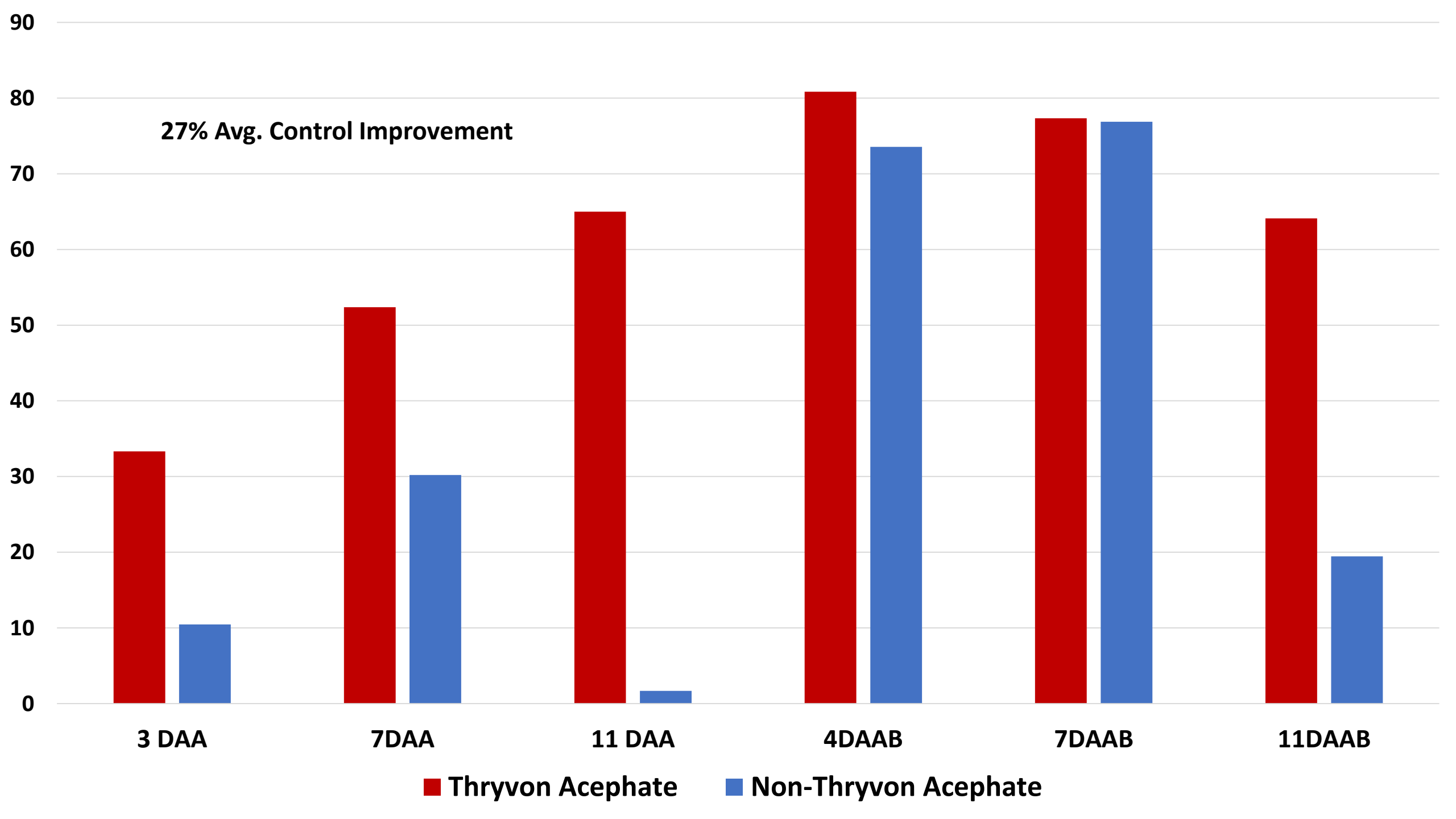


■ Thryvon Bifenthrin ■ Non-Thryvon Bifenthrin

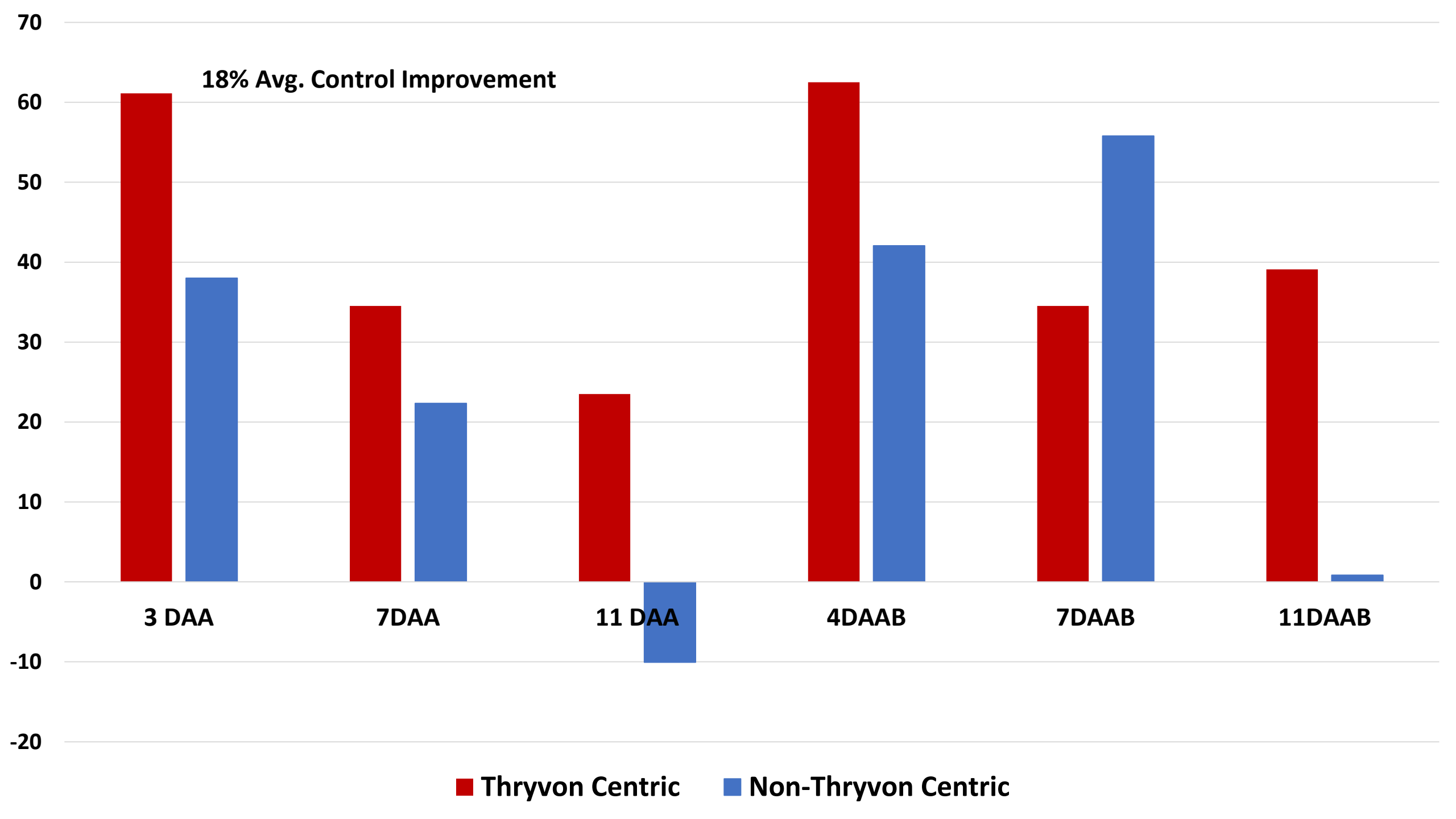


19% Avg. Control Improvement





18% Avg. Control Improvement



Thryvon Centric

Non-Thryvon Centric

An aerial photograph of a vast agricultural field, likely a cotton plantation, showing distinct rows of crops. The field is divided into several rectangular sections by narrow paths or roads. A semi-transparent white rectangular box is centered over the middle of the field, containing the text "Where should I place my Thryvon cotton?".

Where should I place my Thryvon cotton?



**Thryvon
High Input**

**Non-Thryvon
High Input**

**Thryvon
Low Input**

**Non-Thryvon
Low Input**

**Thryvon
Untreated**

**Non-Thryvon
Treated**

Tillar

	July 6	12-Jul	19-Jul	26-Jul	4-Aug	11-Aug	Total
Thryvon High Input	2.5 oz Centric + Diamond 6 oz	1.5 oz Transform			Bidrin 0.5 lb + Bifenthrin 6.4 oz		3
NonThryvon High Input	2.5 oz Centric + Diamond 6 oz	1.5 oz Transform	Bidrin 0.5 oz + Diamond 6 oz	Transform 2 oz		1 lb Acenthrin	5
Thryvon Low Input		Imidacloprid 2 oz + Bifenthrin 6.4 oz	Acephate 0.75 lb + Bifenthrin 6.4 oz				2
NonThryvon Low Input	Imidacloprid 2 oz	Imidacloprid 2 oz + Bifenthrin 6.4 oz	Acephate 0.75 lb + Bifenthrin 6.4 oz	Acephate 0.75 lb + Bifenthrin 6.4 oz			4
Thryvon Untreated							0
NonThryvon Untreated							0

Tillar

	July 6 3rd wk sq	12-Jul	19-Jul	26-Jul	4-Aug	11-Aug	Total
Thryvon High Input	2.5 oz Centric + Diamond 6 oz	1.5 oz Transform			Bidrin 0.5 lb + Bifenthrin 6.4 oz		3
NonThryvon High Input	2.5 oz Centric + Diamond 6 oz	1.5 oz Transform	Bidrin 0.5 oz + Diamond 6 oz	Transform 2 oz		1 lb Acenthrin	5
Thryvon Low Input		Imidacloprid 2 oz + Bifenthrin 6.4 oz	Acephate 0.75 lb + Bifenthrin 6.4 oz				2
NonThryvon Low Input	Imidacloprid 2 oz	Imidacloprid 2 oz + Bifenthrin 6.4 oz	Acephate 0.75 lb + Bifenthrin 6.4 oz	Acephate 0.75 lb + Bifenthrin 6.4 oz			4
Thryvon Untreated							0
NonThryvon Untreated							0

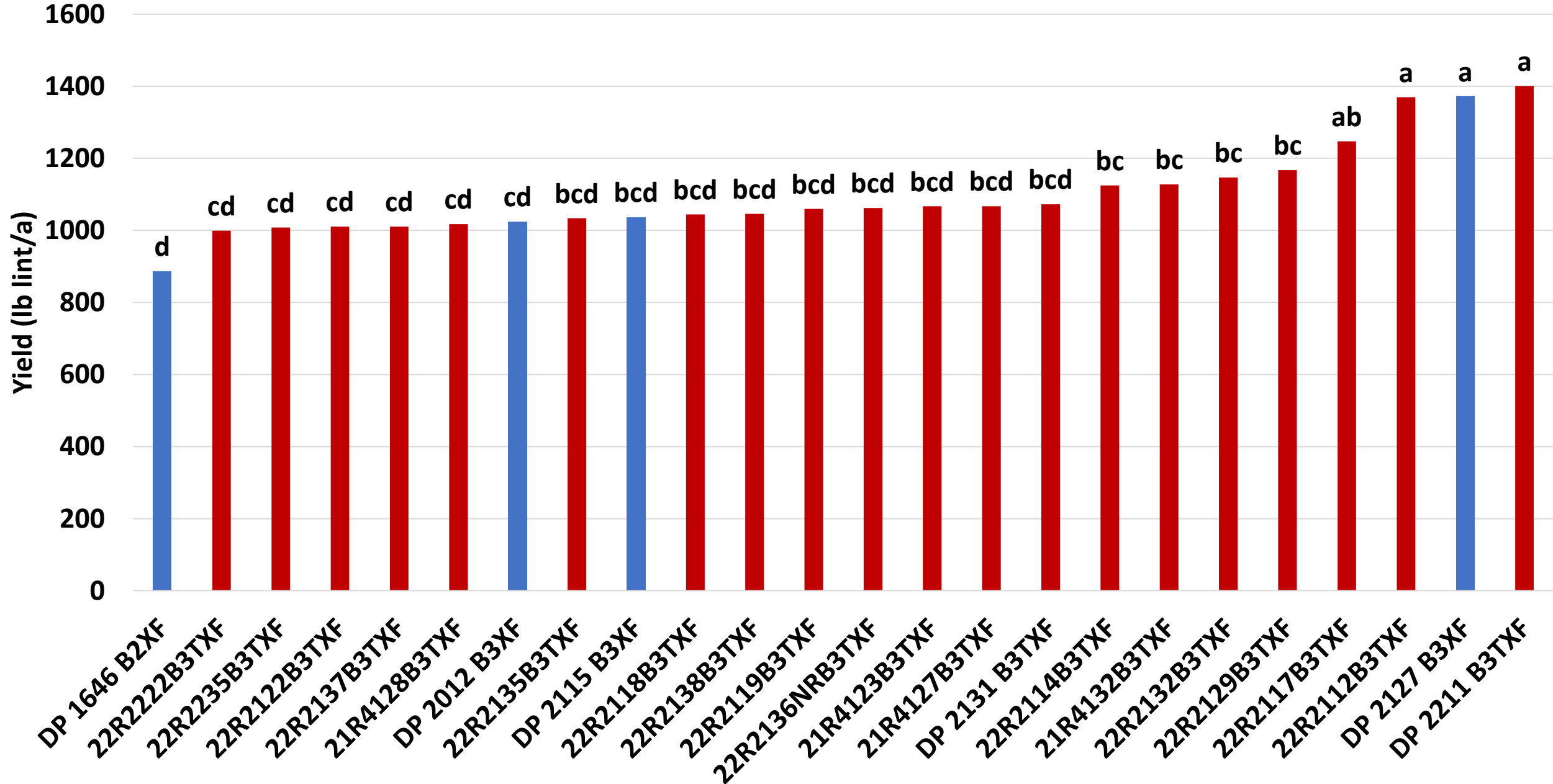
Marianna

	Total Apps	Yield
Thryvon High Input	2	1166
NonThryvon High Input	7	1335
Thryvon Low Input	2	1126
NonThryvon Low Input	6	1202
Thryvon Untreated	0	793
NonThryvon Untreated	0	371

Tillar

	Total	Yield
Thryvon High Input	3	1139
NonThryvon High Input	5	1055
Thryvon Low Input	2	1108
NonThryvon Low Input	4	1003
Thryvon Untreated	0	850
NonThryvon Untreated	0	490

Thryvon Variety Trial



Takeaways

- Roughly a 30% reduction nymphs seen
- Lose about half as many squares per plant bug as normal
- Insecticides overall performed better in Thryvon cotton
 - The best insecticides in conventional cotton are still the best in Thryvon
- Good technology, manage your expectations
 - You will likely still have to spray, but you don't have to be as timely
 - Continue with the normal threshold...for now
- Where to place limited acres?
 - The back 40
 - High pressure areas
- Variety first, technology second



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