

**GO AHEAD.**  
**WE'RE RIGHT THERE WITH YOU.**



# **Callery Pear** - *Pyrus calleryana*

Jason Belcher, Eastern Stewardship Manager

# History

- Brought to U.S. in early 1900s from Asia (China, Japan, Korea).
- Early introductions to improve disease resistance in fruiting pear.
- ‘Bradford’ cultivar widely planted in 1950s
  - Disease resistant
  - Drought tolerant
  - Grows well in wide range of soil
  - Attractive flowers and fall foliage
  - No self-pollination











Science For A Better Life











# Problems



As a result, new cultivars tested and released. Cross-pollination results.













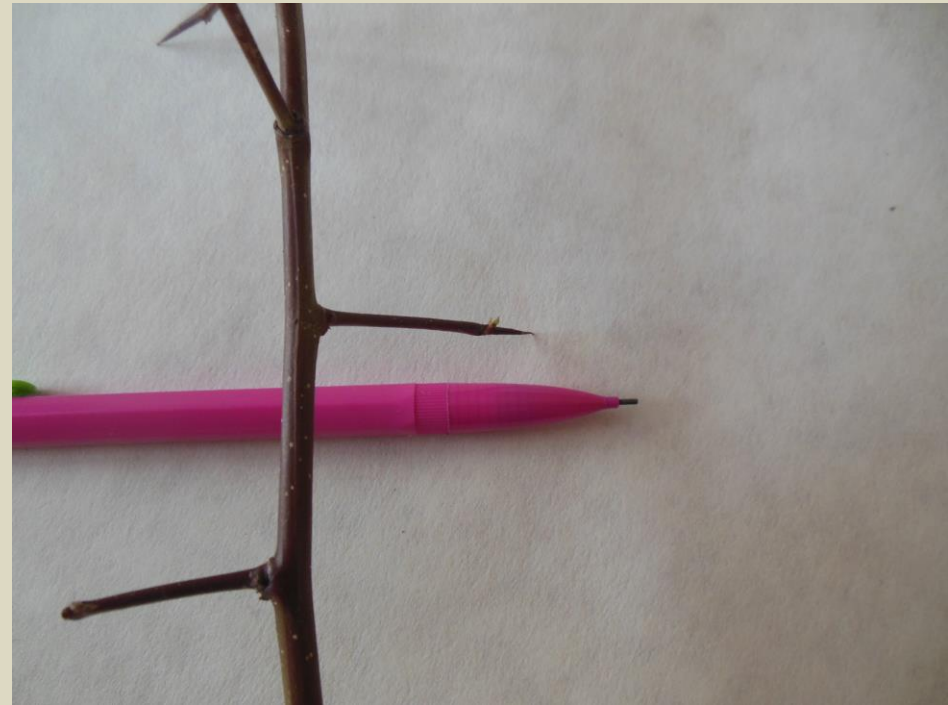
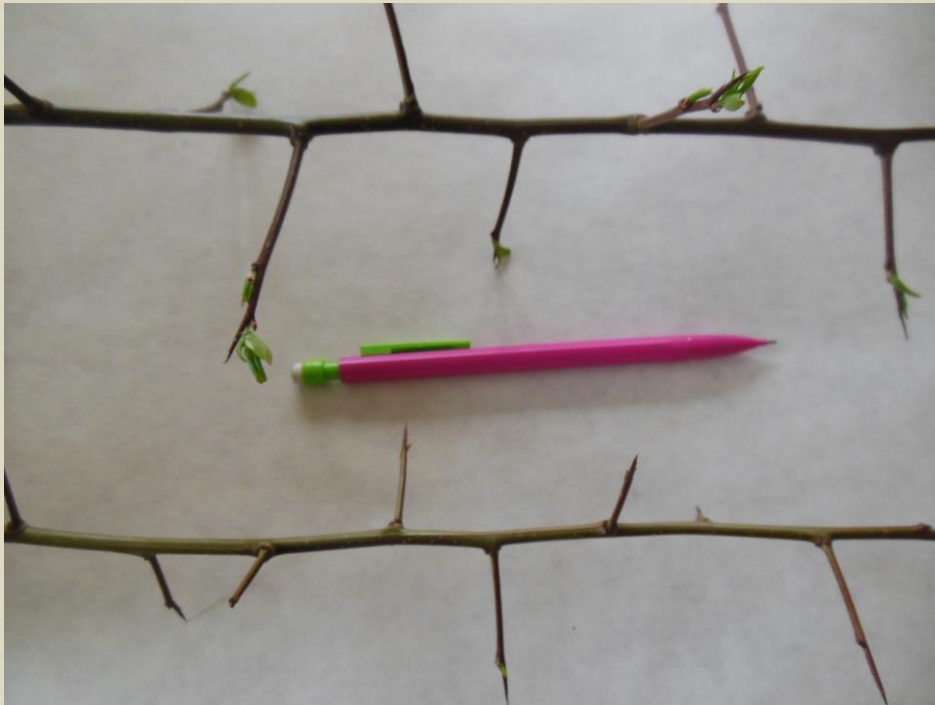
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# Mowing is not a good idea





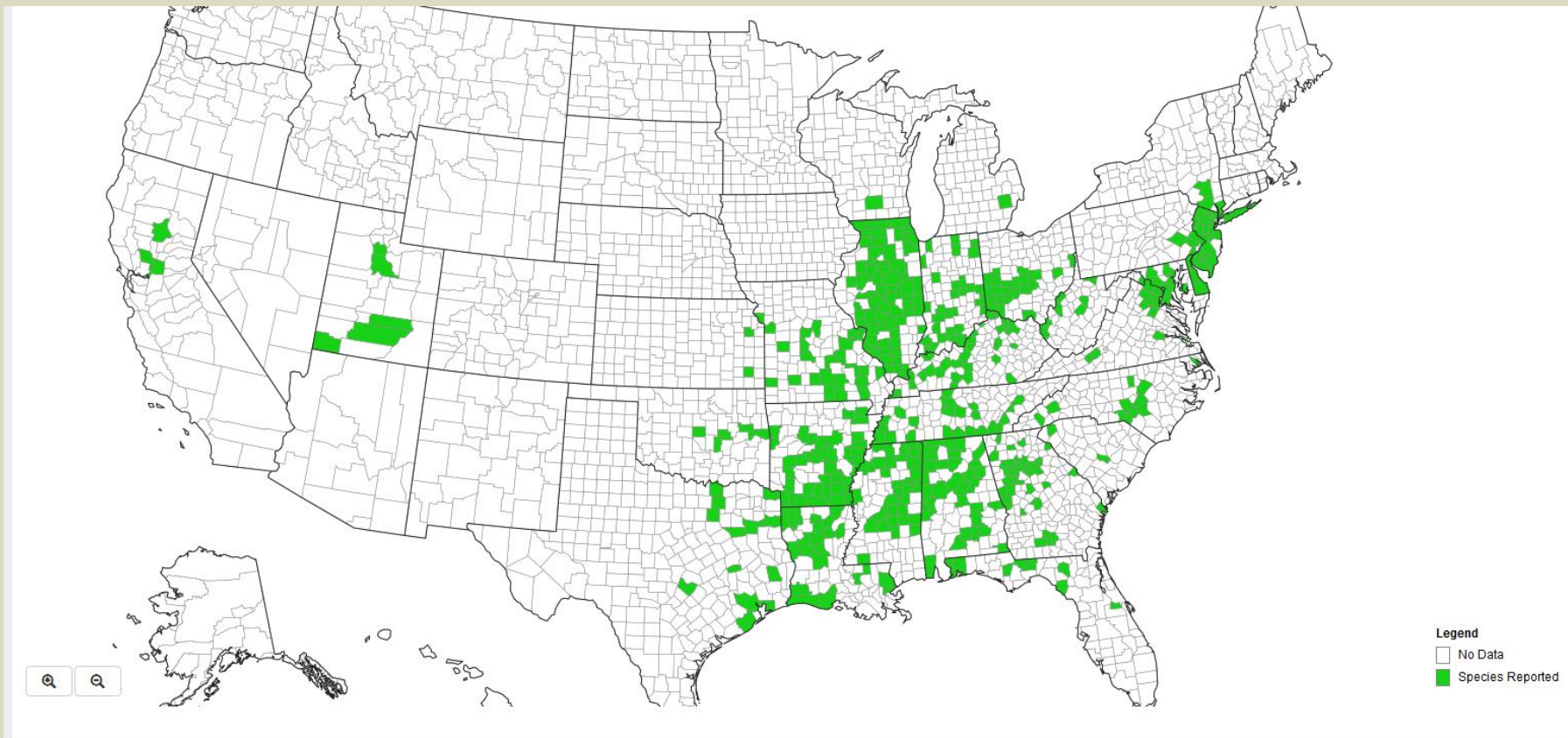




# Callery pear (Bradford pear)

*Pyrus calleryana* Decne.

USDA PLANTS Symbol: PYCA80  
Invasive Plant Atlas  
Species Information



Please cite the EDDMapS as:

EDDMapS. 2016. Early Detection & Distribution Mapping System. The University of Georgia - Center for Invasive Species and Ecosystem Health. Available online at <http://www.eddmaps.org/>; last accessed May 2, 2016.



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# Control Options:

Callery pear not listed on labels of many herbicides typically used for brush control

Typically see triclopyr and glyphosate recommended for cut stump treatment







## DuPont™ Viewpoint®

HERBICIDE

**DO NOT USE PLANT MATERIAL TREATED WITH DUPONT™ VIEWPOINT™ FOR MULCH OR COMPOST**

**Dry Flowable**  
For Non-Crop Use

Active Ingredients	By Weight
Imazapyr 13 (4,5-dihydro-6-methyl-4 (1-methyl-2-oxo-1H-imidazol-2-yl)-5-oxo-1H-imidazol-2-yl)-5-pyridinecarboxylic acid	31.0%
Aminocyclopyrachlor 6-amino-5-chloro-2-cyclopropyl-4-pyridinecarboxylic acid	23.0%
Metsulfuron-methyl Methyl 2-[2-[[4-methoxy-6-methyl-1,3,5-triazin-2-yl]amino]carbonyl]sulfonyl]benzoate	7.2%
Other Ingredients	38.7%
<b>TOTAL</b>	<b>100.0%</b>

EPA Reg. No. 351-6407      EPA Est. No. \_\_\_\_\_  
 Nonrefillable Container  
 Net \_\_\_\_\_  
 GSI \_\_\_\_\_  
 Refillable Container \_\_\_\_\_  
 Net \_\_\_\_\_  
 © 1999 DuPont de Nemours and Company  
 800 Market Street  
 Wilmington, DE 19880

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

*Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)*

**FIRST AID**

**If in eyes:** Flush eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**If on Skin or Clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**If Swallowed:** Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by a poison control center or doctor. DO NOT give anything to an unconscious person. Call a poison control center or doctor for further treatment advice.

**If Inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-441-5677 for emergency medical treatment information.

**USER SAFETY RECOMMENDATIONS**

**WASHING INSTRUCTIONS:** Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing/PPH immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPH immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Method +  
Imazapyr + Escort



## Streamline®

HERBICIDE

**DO NOT USE PLANT MATERIAL TREATED WITH STREAMLINE® HERBICIDE FOR MULCH OR COMPOST**

**Dry Flowable**  
For Non-Crop Use

Active Ingredients	By Weight
Aminocyclopyrachlor 6-amino-5-chloro-2-cyclopropyl-4-pyridinecarboxylic acid	30.5%
Metsulfuron-methyl Methyl 2-[2-[[4-methoxy-6-methyl-1,3,5-triazin-2-yl]amino]carbonyl]sulfonyl]benzoate	12.0%
Other Ingredients	57.5%
<b>TOTAL</b>	<b>100.0%</b>

EPA Reg. No. 432-1570      EPA Est. No. 352-IL-001  
 Nonrefillable Container

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Method + Escort





- Aminocyclopyrachlor (ACP) – 2 lb ai/gal
- Rates 4-18 fl oz/A; do not exceed 18 fl oz/A/year
- Brush/Bareground – 12-18 fl oz/A
- Selective weeding – 4-12 fl oz/A



# 2015 Research Trial

## Montgomery, AL

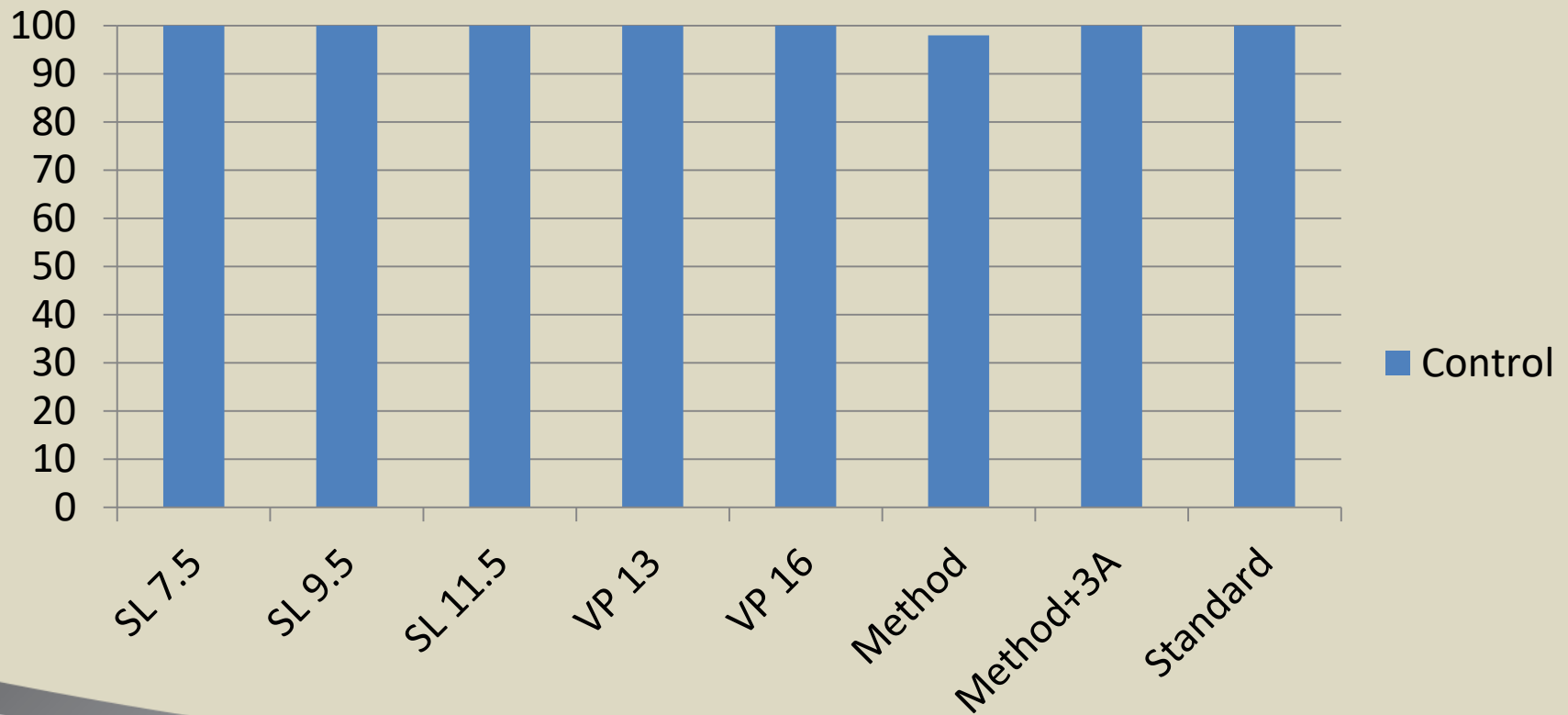
- Done as an IPT backpack spray with 9 stems treated
- Treatments:
  - Streamline at 7.5, 9.5, and 11.5 oz/A
  - Viewpoint at 13, 16, and 20 oz/A
  - Method at 0.5% v/v
  - Method at 0.25% + Garlon 3A at 0.5% v/v
  - Standard
    - Accord XRTII at 4% v/v
    - Arsenal at 0.5% v/v
    - Milestone at 0.33% v/v
  - All treatments contained 1.0% v/v MSO
  - Control evaluated 7/25/2015





# Control 1 YAT

## Control





Nontreated





Streamline at 7.5 oz/A





Viewpoint at 13 oz/A







Garlon 3A 0.5% v/v + Method at 0.25% v/v







Method at 0.5%v/v



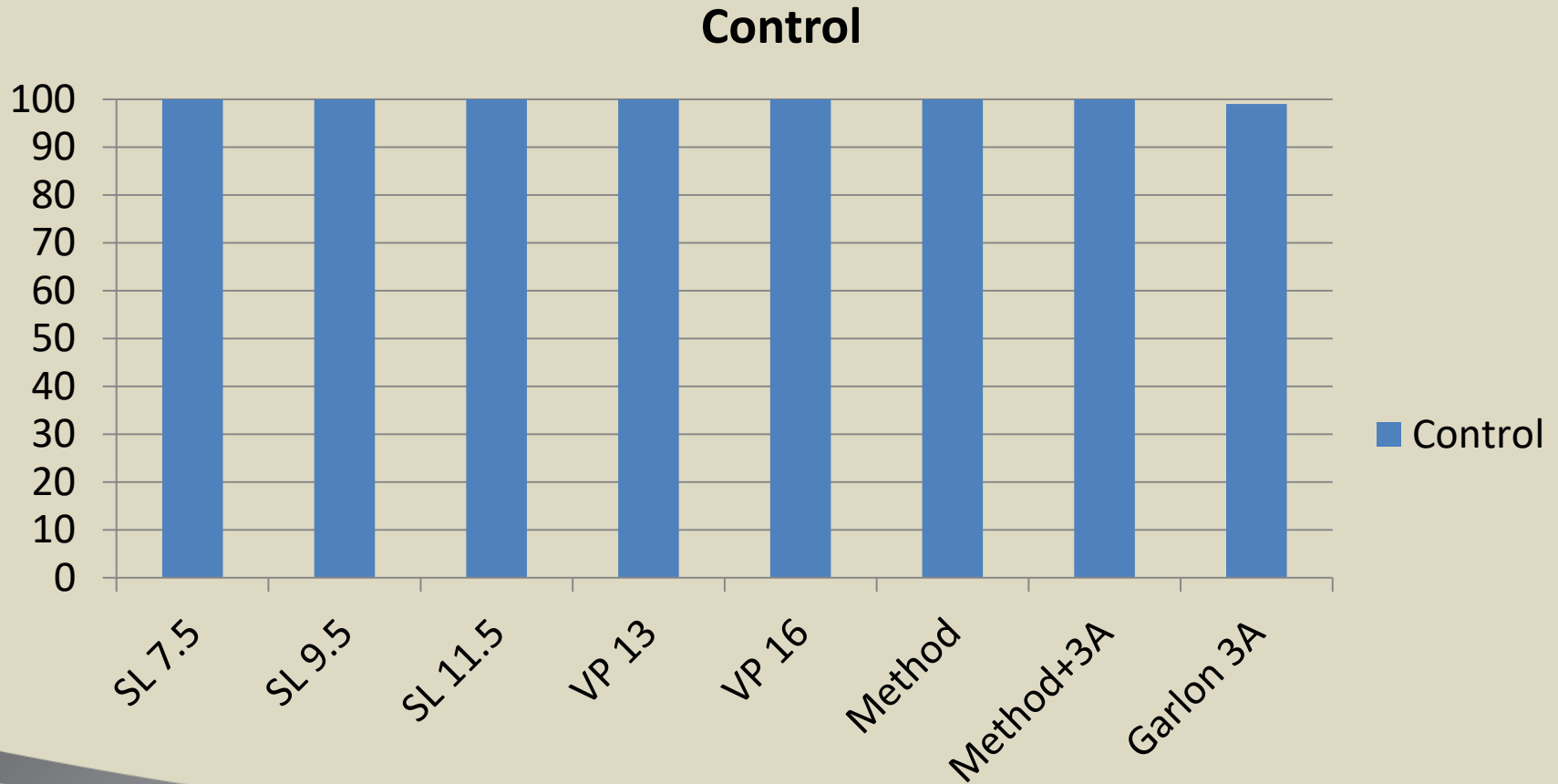
# **#1) 2015 Research Trial – TN**

## **Dr. Neil Rhodes**

- Study design and treatments similar to AL study
- Included Garlon 3A alone at 0.5% v/v as standard



# Control 1 YAT





# #2) 2015 Research Trial – TN

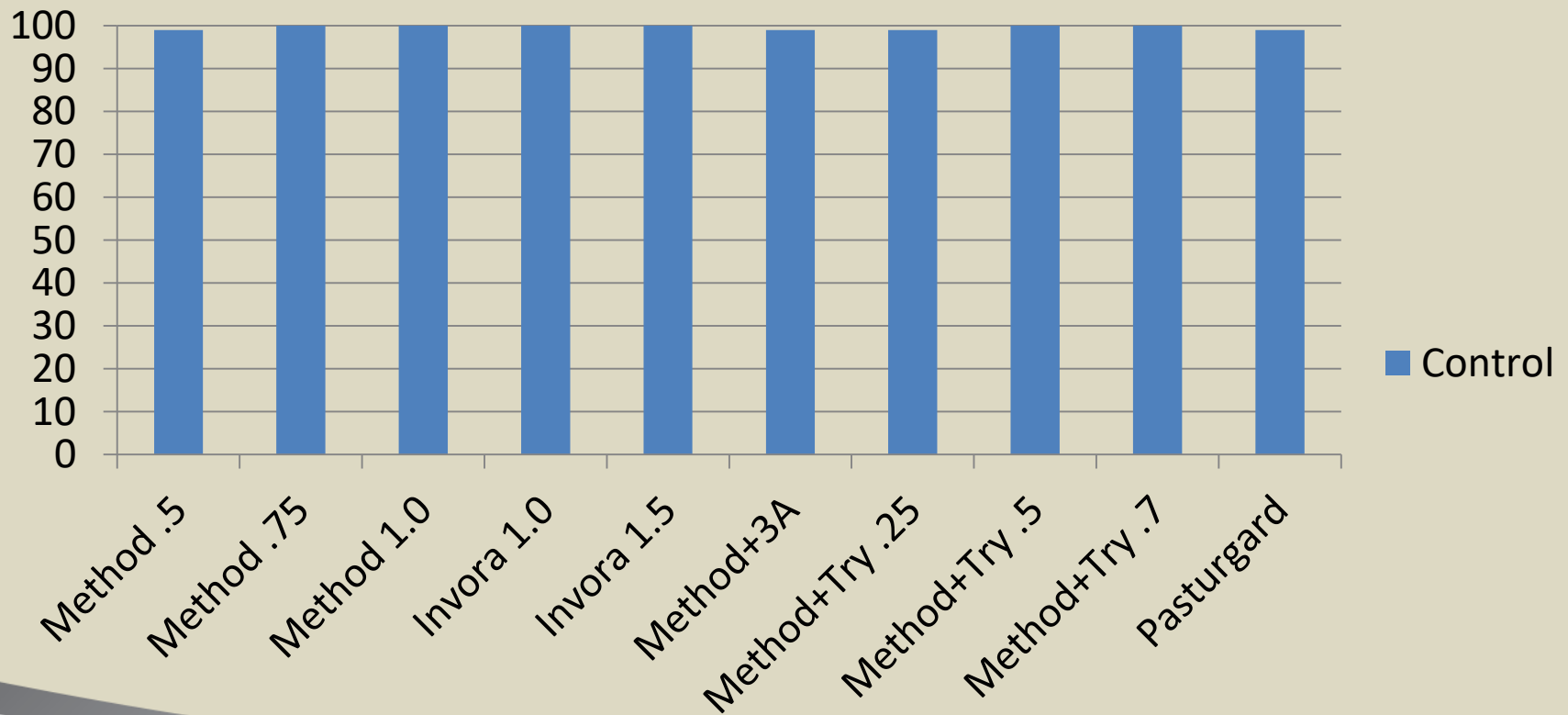
## Dr. Neil Rhodes

- Done as an IPT application
- Treatments:
  - Method at 0.5, 0.75, and 1% v/v
  - Invora (triclopyr +Method) at 1.0 and 1.5% v/v
  - Method 0.5% + Garlon 3A at 0.67% v/v
  - Method 0.5% + Trycera 0.25% v/v
  - Method 0.5% + Trycera 0.5% v/v
  - Method 0.5% + Trycera 0.7%
  - Pasturegard HL (triclopyr+fluroxypyr) at 0.5% v/v
- MSO included with all treatments at 1.0% v/v



# Control 1YAT

## Control





# Recommendations:

- Products tested have excellent activity on pear so far; further evaluation needed – 1 and 2 YAT
- Further test products/rates in 2016

**Do not plant more pears!!!**





Coverage is important!





**GO AHEAD.**  
**WE'RE RIGHT THERE WITH YOU.**



**THANK YOU!**