

Pumpkin Pests:

Scouting and management

Ashley Leach, [Department of Entomology, Ohio State University]



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Outline

- Top 3 pests



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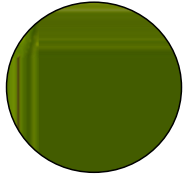
Outline

- Top 3 pests
 - What/when/where?



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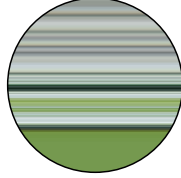
The major pests



Cucumber beetles



Squash Bug



Squash vine borer

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Severity Scale →

Most Severe

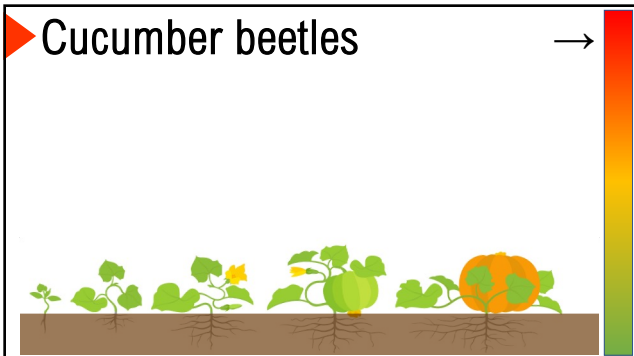
Moderately Severe

Least Severe

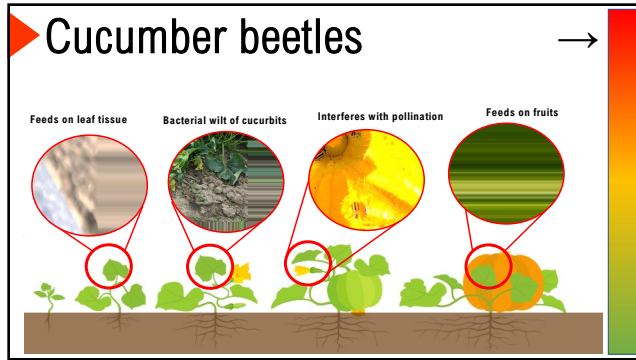


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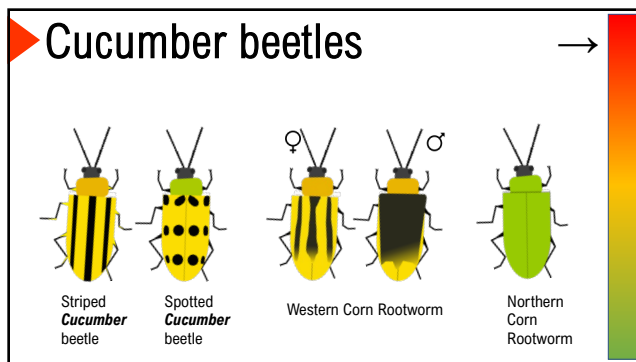
Cucumber beetles →



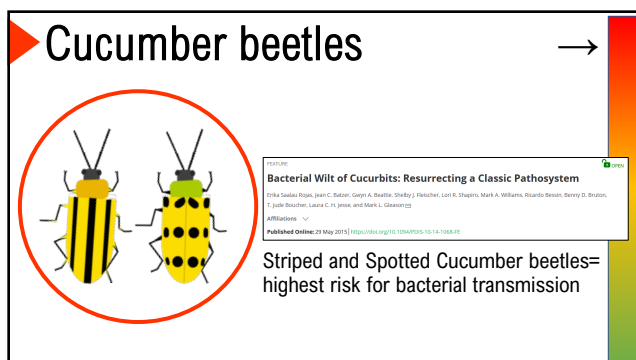
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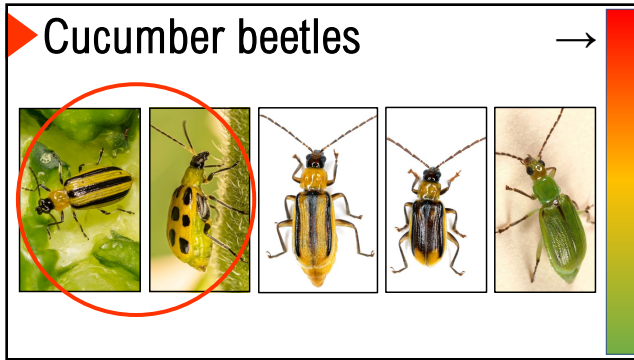
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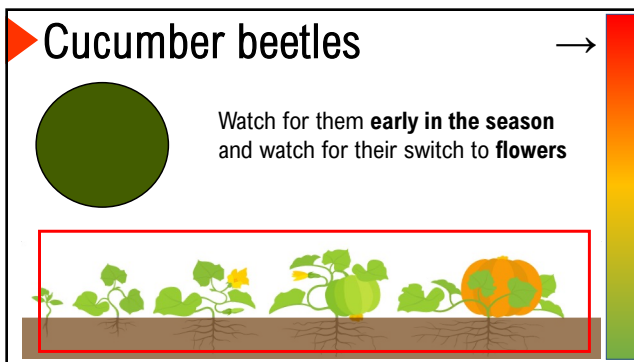
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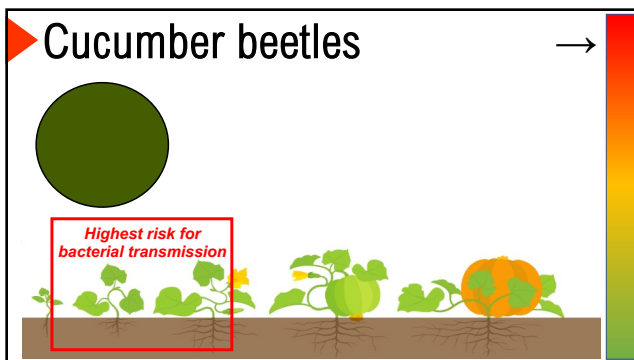
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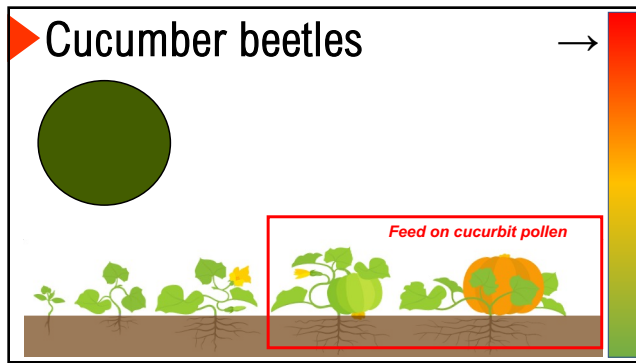
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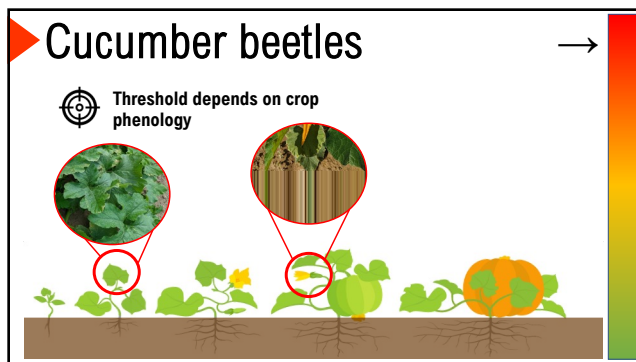
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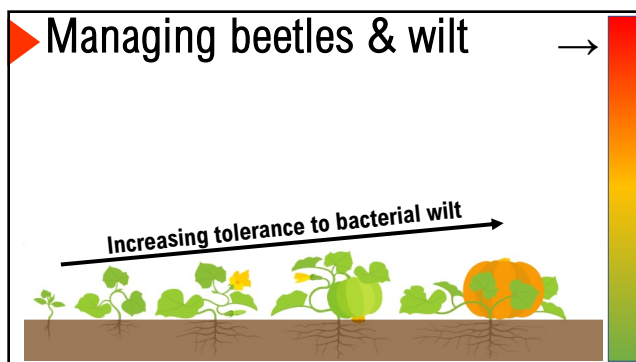
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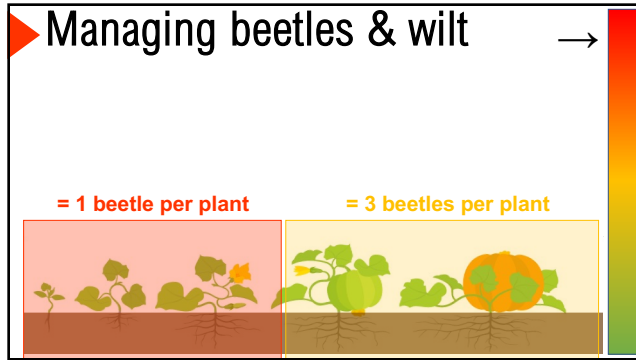
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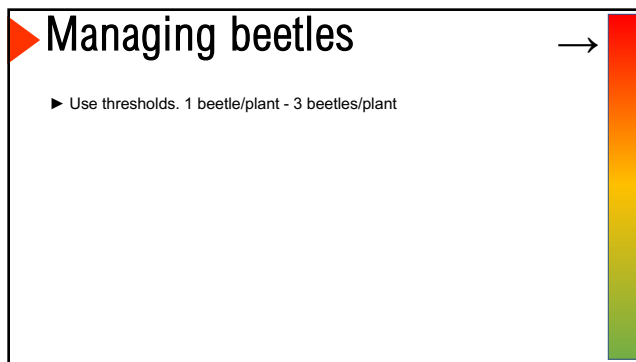
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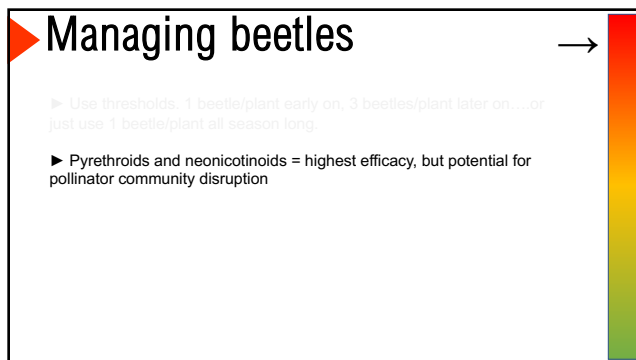
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▶ Managing beetles

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▶ Use thresholds. 1 beetle/plant early on, 3 beetles/plant later on...or just use 1 beetle/plant all season long.

▶ Pyrethroids and neonicotinoids = highest efficacy, but potential for pollinator community disruption

▶ Trap cropping with other squashes (e.g., hubbard) with or without insecticides

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▶ Trap cropping with other squashes (e.g., hubbard) with or without insecticides


▶ Row cover works!

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The major pests



Cucumber beetles

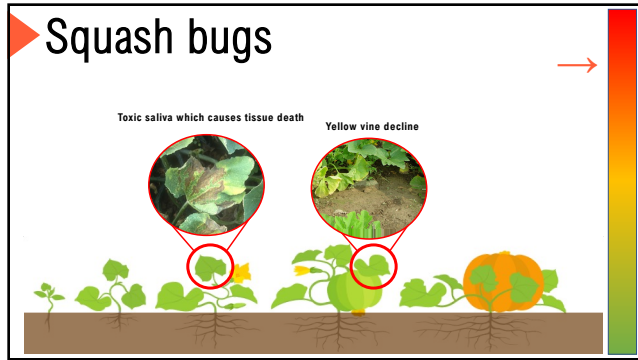


Squash Bug

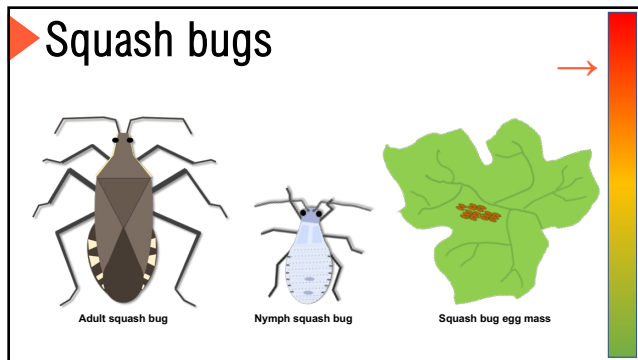


Squash vine borer

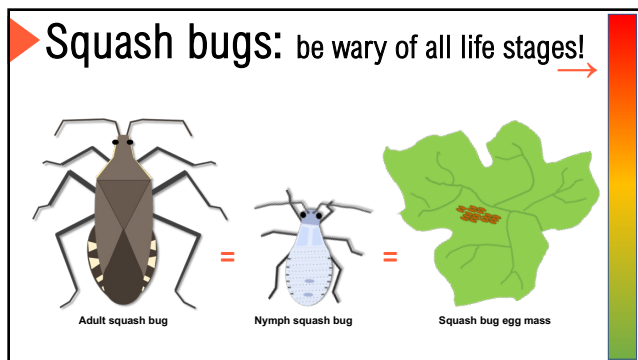
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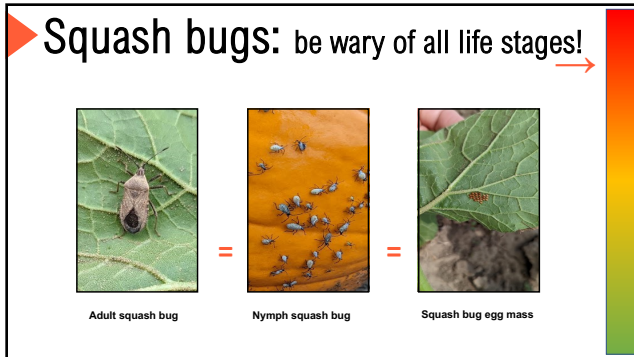
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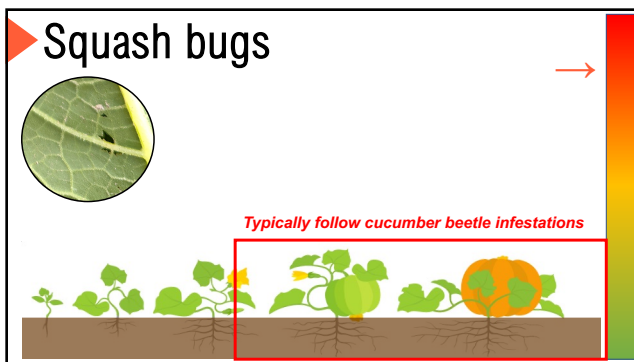
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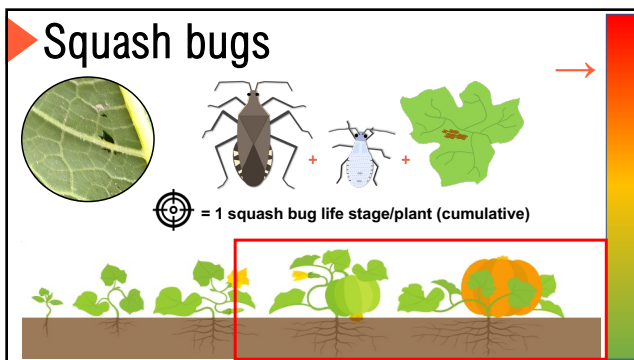
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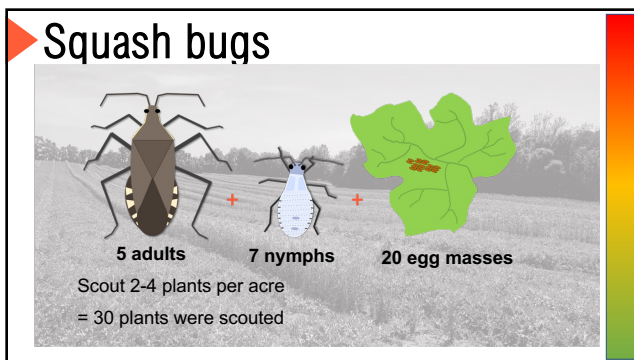
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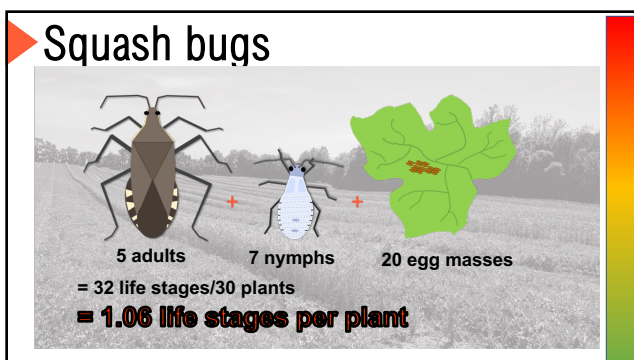
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Managing squash bugs

► Use thresholds. 1 squash bug/plant.




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Managing squash bugs

► Use thresholds. 1 squash bug/plant.

► Pyrethroids and neonicotinoids = highest efficacy, but potential for pollinator community disruption.... But Rimon is effective



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Managing squash bugs

► Use thresholds. 1 squash bug/plant.

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► Trap cropping with other squashes (e.g., hubbard) with or without insecticides



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Managing squash bugs

- ▶ Use thresholds. 1 squash bug/plant.
- ▶ Pyrethroids and neonicotinoids = highest efficacy, but potential for pollinator community disruption.... But Rimon is effective
- ▶ Trap cropping with other squashes (e.g., hubbard) with or without insecticides
- ▶ Row cover works!

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Managing squash bugs

- ▶ Use thresholds. 1 squash bug/plant.
- ▶ Pyrethroids and neonicotinoids = highest efficacy, but potential for pollinator community disruption.... But Rimon is effective
- ▶ Trap cropping with other squashes (e.g., hubbard) with or without insecticides
- ▶ Row cover works!
- ▶ Biological control = focus on conservation (reduced-risk)

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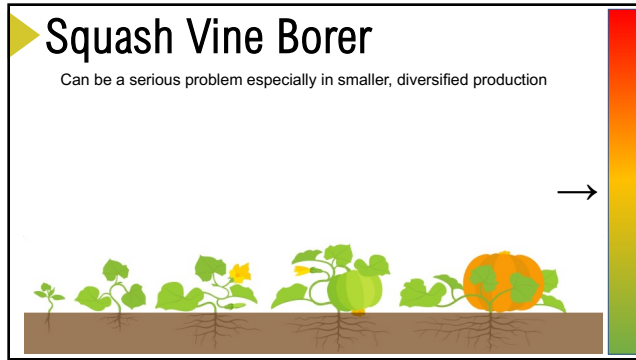
The major pests

Cucumber beetles

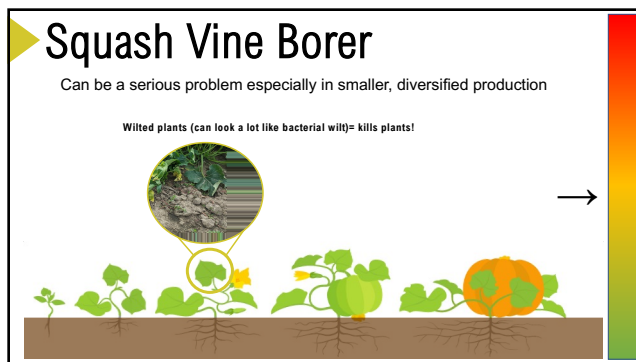
Squash Bug

Squash vine borer

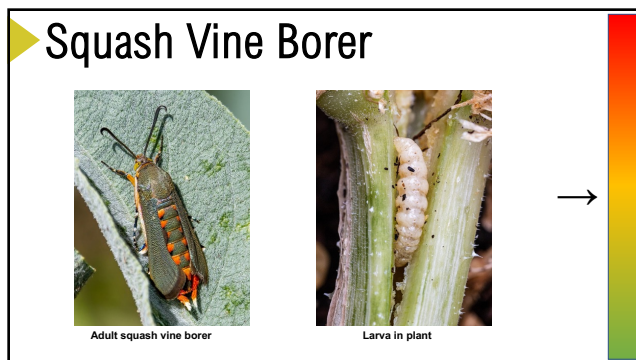
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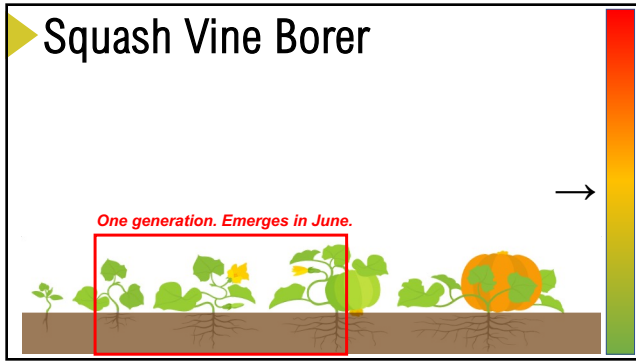
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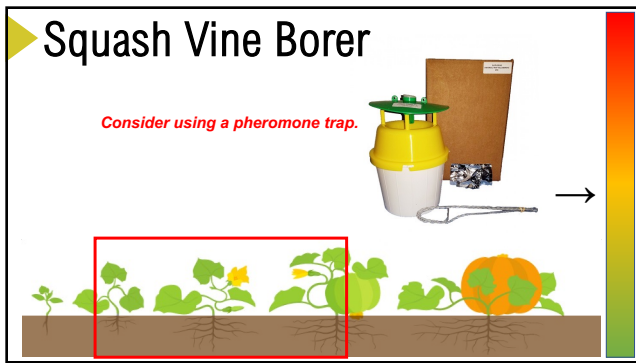
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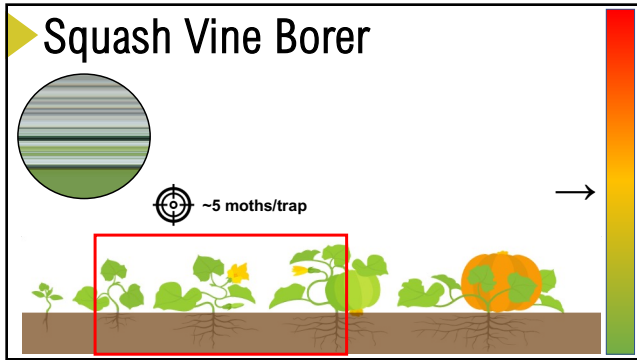
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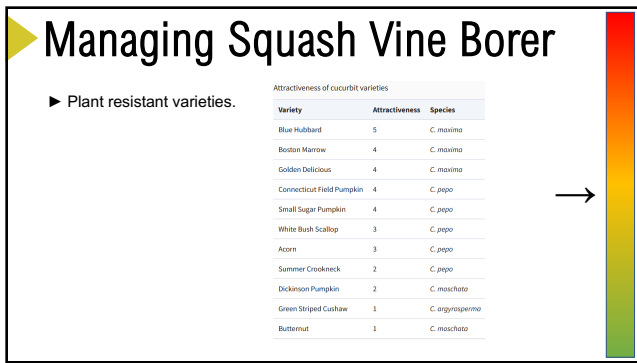
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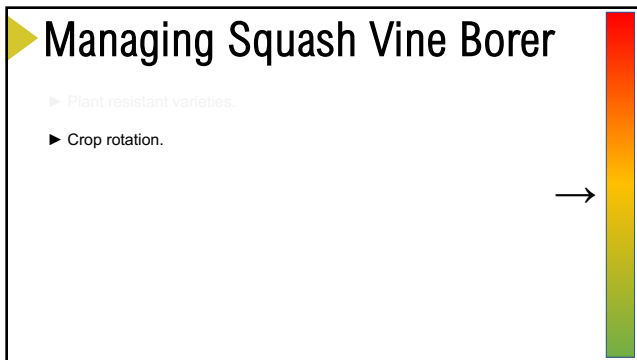
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▶ Managing Squash Vine Borer

▶ Plant resistant varieties.

▶ Crop rotation. Moths will fly in.

▶ Trap threshold = 5 moths/trap (pyrethroid at base of plant)

→

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▶ Managing Squash Vine Borer

▶ Plant resistant varieties.

▶ Crop rotation. Moths will fly in.

▶ Trap threshold = 5 moths/trap (pyrethroid at base of plant)

▶ Trap cropping.

→

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▶ Managing Squash Vine Borer

▶ Plant resistant varieties.

▶ Crop rotation. Moths will fly in.

▶ Trap threshold = 5 moths/trap (pyrethroid at base of plant)

▶ Trap cropping.

▶ Later planting date?

→

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▶ Plant resistant varieties.

▶ Crop rotation. Moths will fly in.

▶ Trap threshold = 5 moths/trap (pyrethroid at base of plant)

▶ Trap cropping.

▶ Later planting date?

▶ Row cover works.

→

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Pest	Threshold	When should you scout?
Cucumber beetles	1 – 3 cucumber beetle per plant	
Squash bug	1 squash bug per plant	
Squash vine borer	5 moths per trap	

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THANK YOU!!

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We'd love to help you out/collaborate! Get in touch. ☺

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