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# What's Bugging Growers?

## Results of the 2018 Biocontrol Survey

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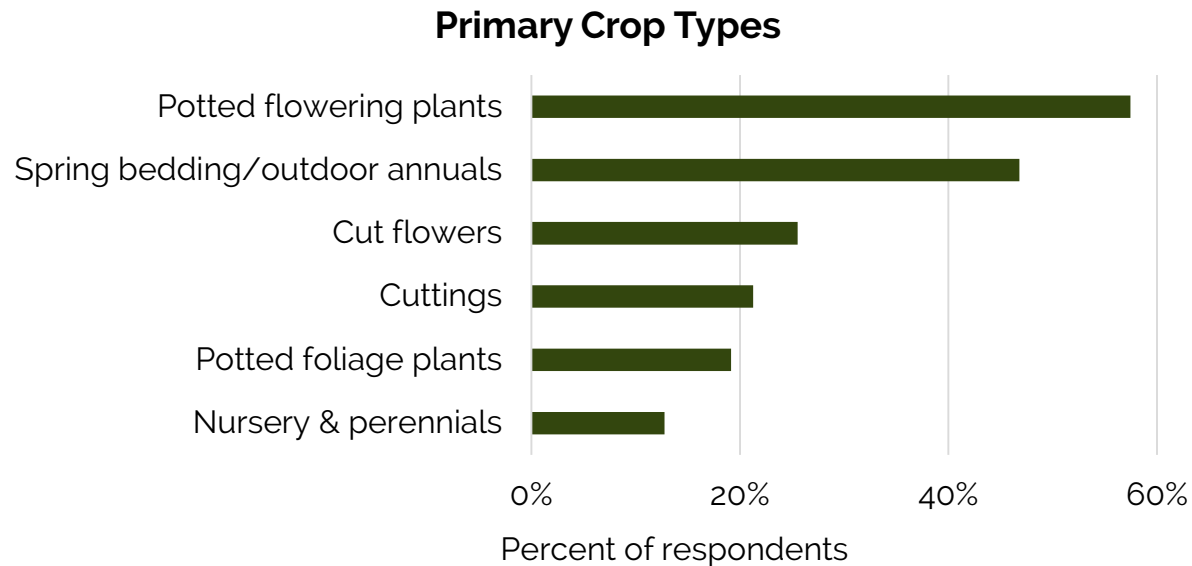
Ashley Summerfield



# Respondent profile

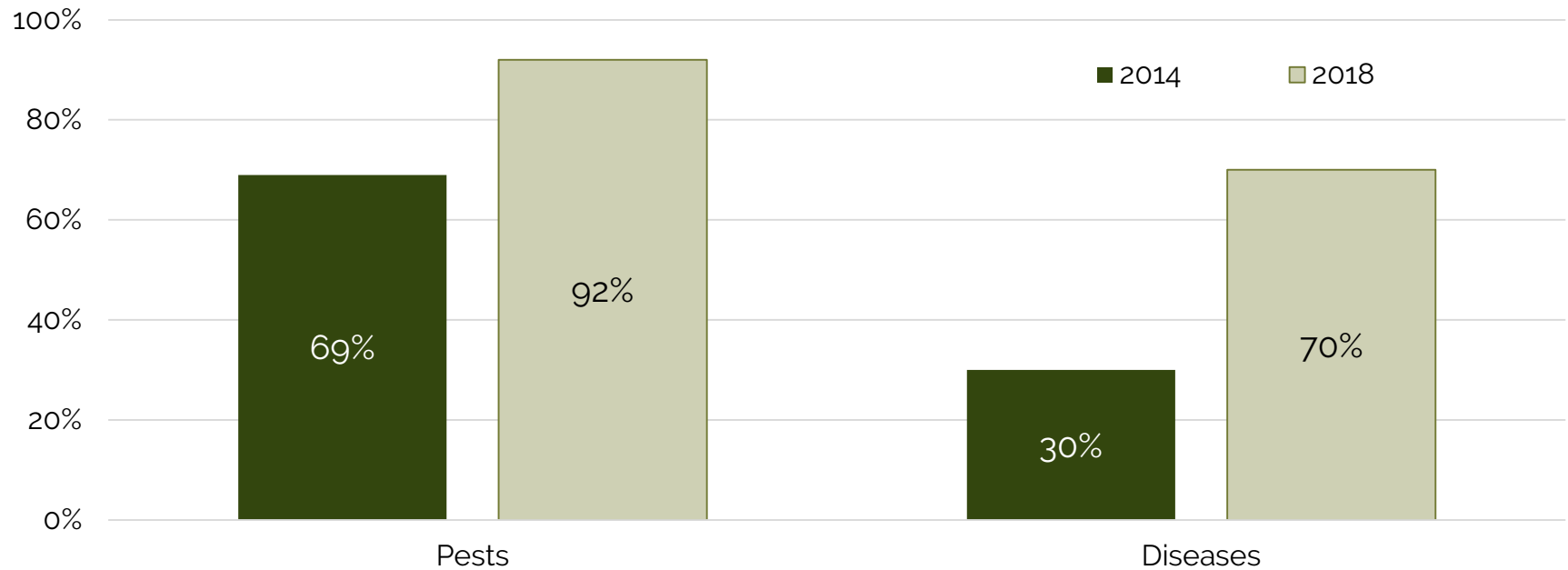
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- Responses from 47 ornamental growers, majority from Ontario
- Represents 24% of greenhouse acreage in Ontario
- 87% Wholesale growers



# Biocontrol use

## Adoption of biocontrol

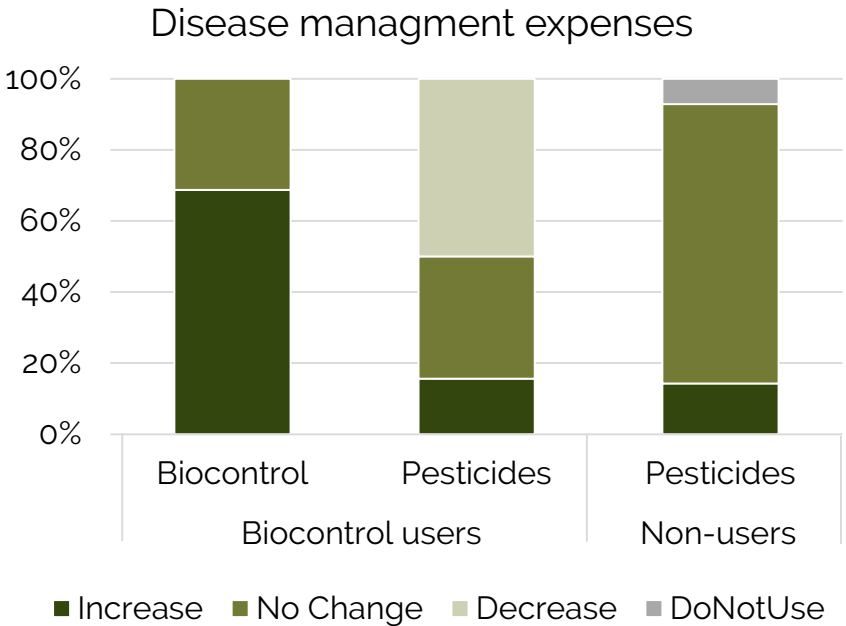
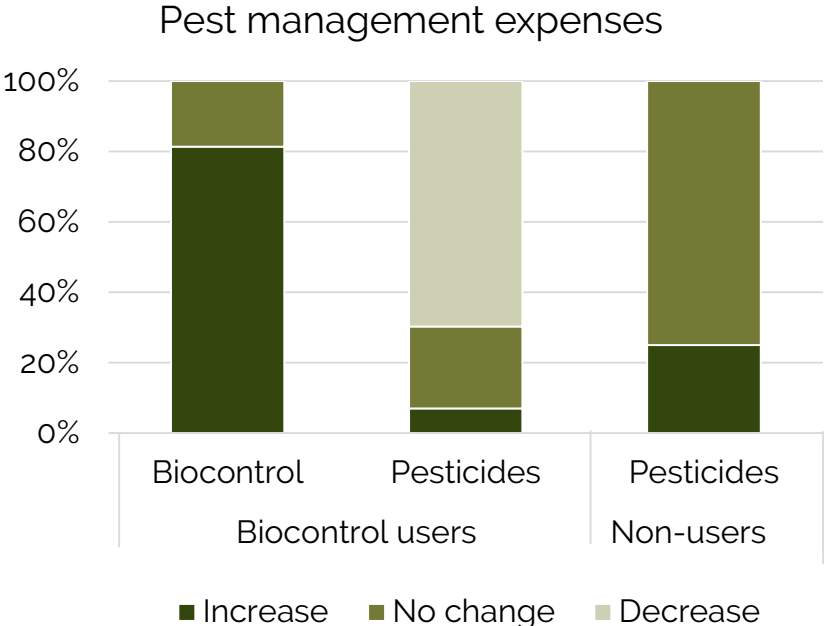


- Note: Survey may over-represent biocontrol users
- Other surveys indicate biocontrol adoption in Canada has not changed over past decade

# Biocontrol use

## Extent of biocontrol use

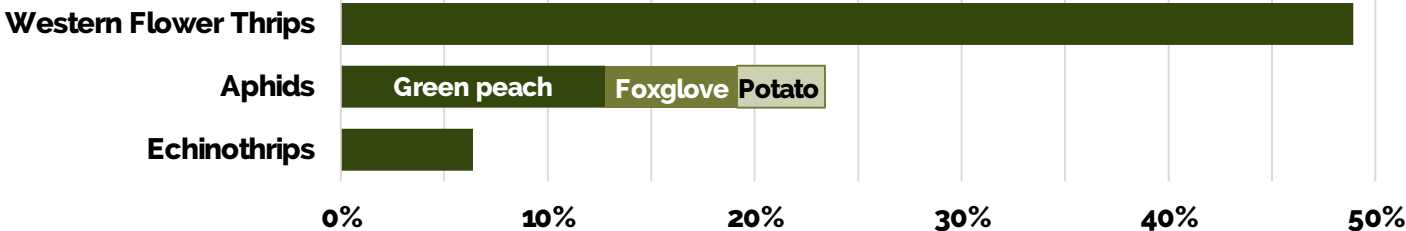
- How have expenses changed over the last five years?



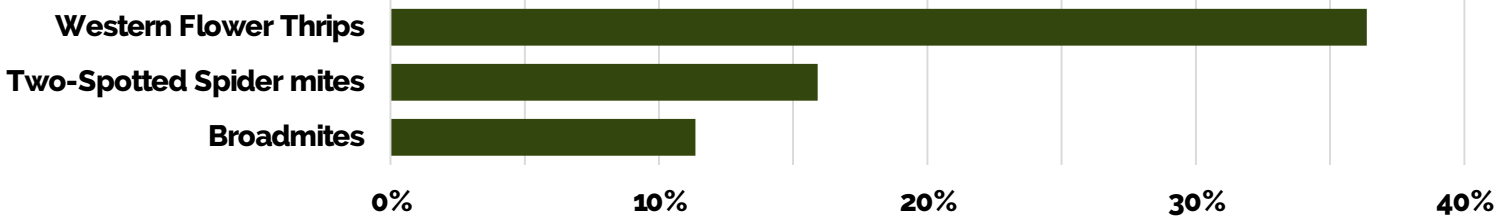
# Problem pests



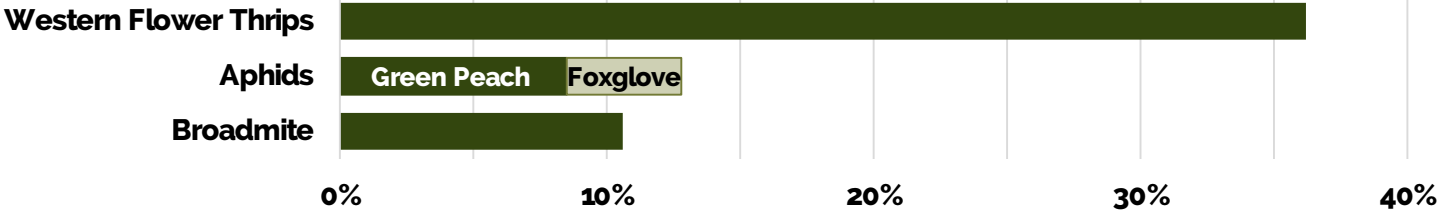
## Most common pest



## Pest that caused the most losses

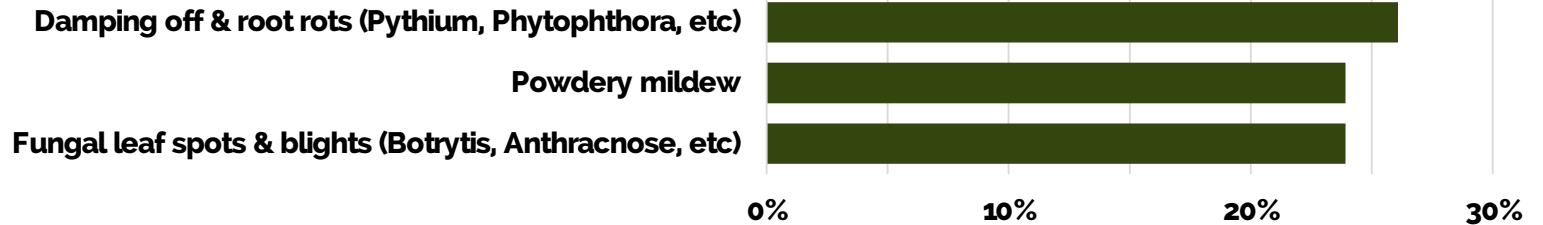


## Most difficult pest to manage

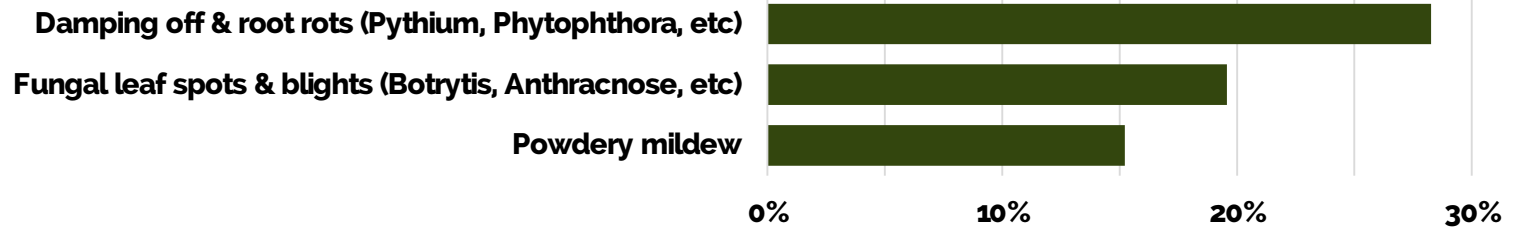


# Problem diseases

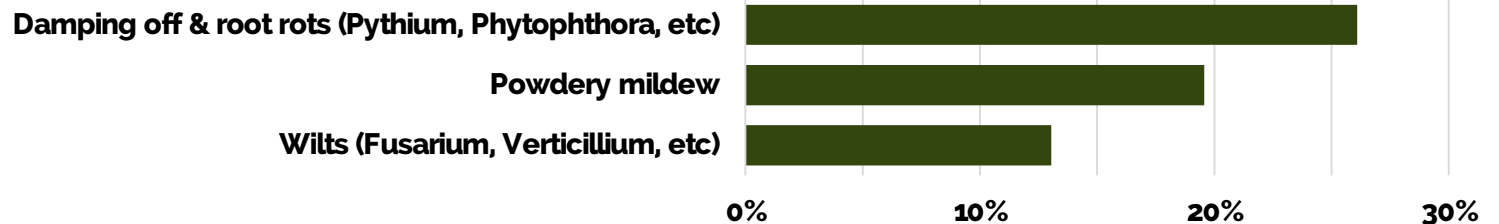
## Most common disease



## Disease that caused the most losses



## Most difficult disease to manage



# What growers need to succeed

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Top pest related needs

What are your top three needs in terms of improving biocontrol success for **pests**?







# What growers need to succeed

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Top pest related needs

- 1. Better aphid control (25%)**
- 2. Sprays that are compatible with biocontrol (25%)**
- 3. Reduce cost of bios (17%)**
- 4. Improve quality/consistency/efficacy of bios (17%)**
- 5. Easier/more efficient/less frequent application (13%)**
- 6. Better thrips control (13%)**

# What growers need to succeed

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Top disease related needs

What are your top three needs in terms of improving biocontrol success for **diseases**?



# What growers need to succeed

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## Top disease related needs

1. Reduce cost of biocontrol (15%)
2. Improve efficacy of products (11%)
3. Improve application efficiency/ease of use (11%)
4. Clean start strategies (11%)
5. Sanitization information/strategies (11%)
6. Climate control and irrigation information/strategies (11%)



# Take home messages

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- Biocontrol use continues to grow
- Majority of growers now using biocontrol for diseases
- Thrips and aphids top priority pests
- Damping off, fungal leaf spots/blights, and powdery mildew top priority diseases
- Growers need practical information and complete integrated strategies to implement biocontrol successfully





# Acknowledgements

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- **Rachelle Pruss, Flowers Canada Growers**
- **Sarah Jandricic, OMAFRA**

# Thank you

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