IOWA STATE UNIVERSITY

Extension and Outreach

IPM4Bees:

Midwest
Attitudes about
Pollinator Friendly
Practices





Introduction

Learning about Iowan Attitudes on Pollinators

- Conducted survey of Iowa beekeepers, farmers, and landowners between 2018-2020
- GOAL: learn about current pollinator-friendly practices being implemented by lowans and overall interest in such practices
- Paper titled "Attitudes about Honey Bees and Pollinator-Friendly Practices: A Survey of Iowan Beekeepers, Farmers, and Landowners" accepted by the Journal of IPM



Introduction

Learning about Iowan Attitudes on Pollinators

- Part of a 3-year study to explore honey bee health in agricultural landscapes
- Funded by USDA/NIFA
- Conducted survey after extension talks about research, highlighting best management practices and IPM

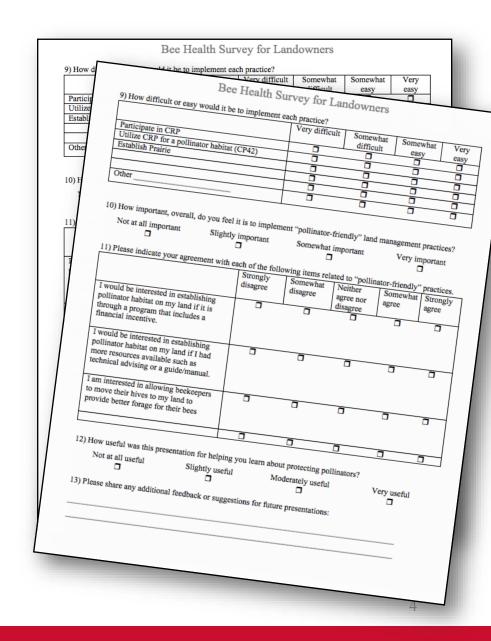




Methodology

Developing and conducting the survey

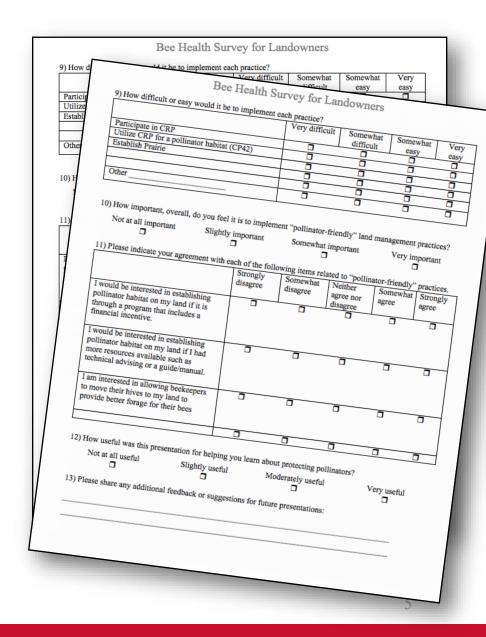
- Survey developed with social research specialists at the ISU Research Institute for Studies in Education (RISE)
- Three different surveys developed for three stakeholder groups: Beekeepers, Farmers, and Landowners
- Paper survey was handed out after extension presentations on best practices for protecting pollinators



Methodology

Developing and conducting the survey

- Some questions included multiple choice responses while others utilized a 5-point Likert scale
- Questions included:
 - Demographic information
 - Practices implemented prior to attending the presentation
 - Practices likely to be implemented after



Results

Survey collection

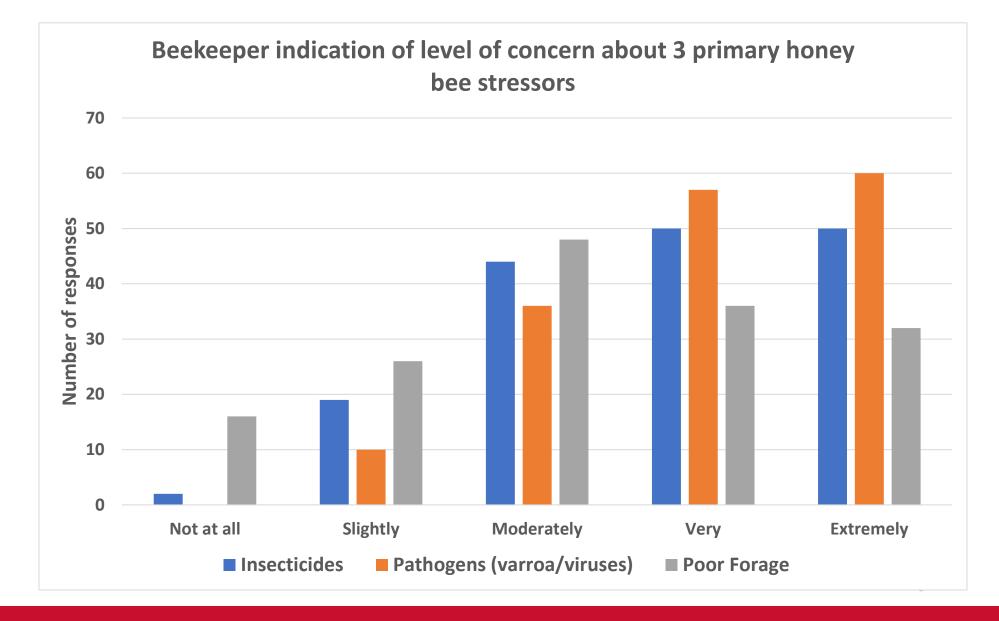
- 26 presentations given between February 2018 and February 2020 in 31 of Iowa's 99 counties
- 729 beekeepers, farmers, and landowners reached
- 391 surveys filled out

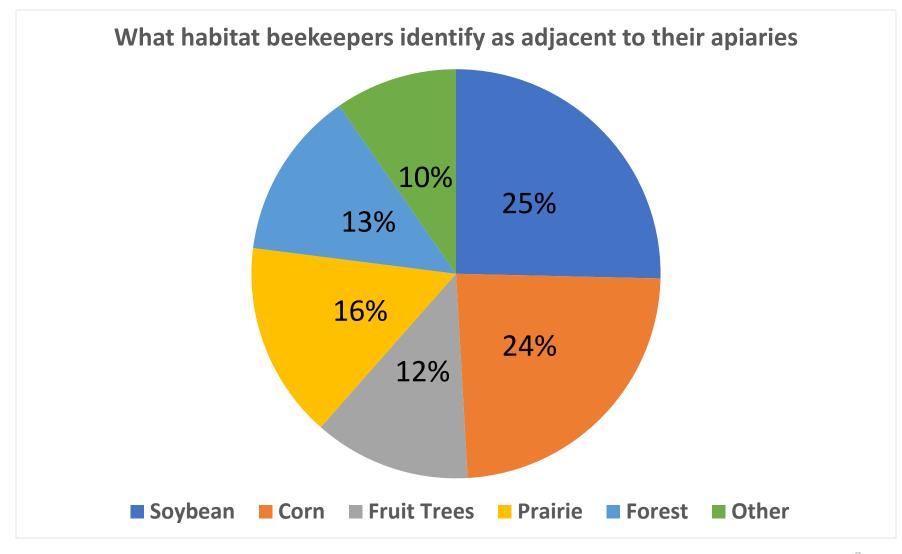
54%

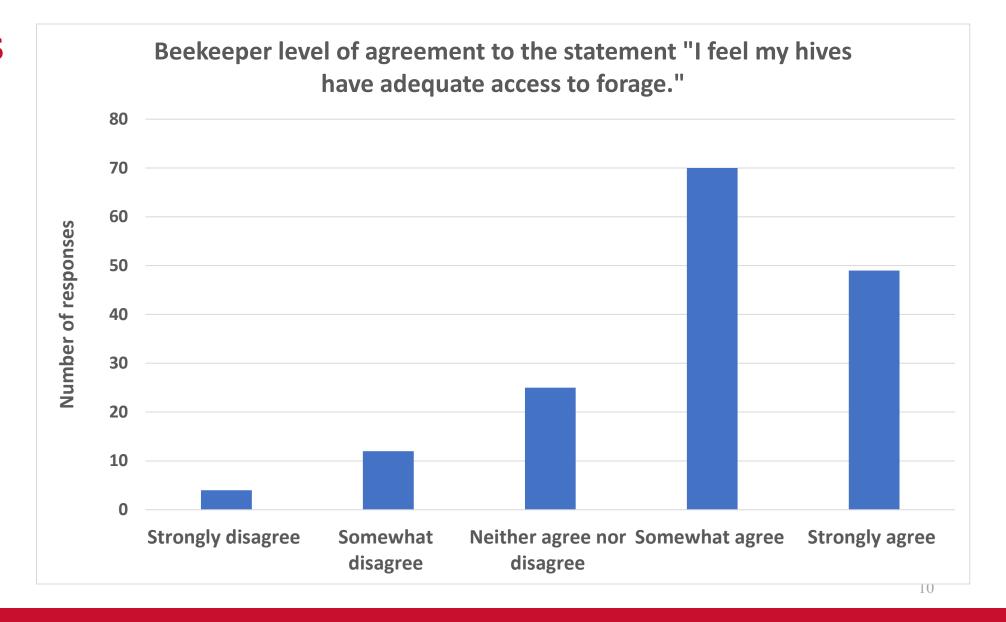


- 76% of respondents were over the age of 50
- 84% of respondents kept fewer than 10 hives (6% kept over 20)
- 53% registered their hives with the state apiary registry
- 49% identified row crop (corn and soybeans) as adjacent to their apiaries



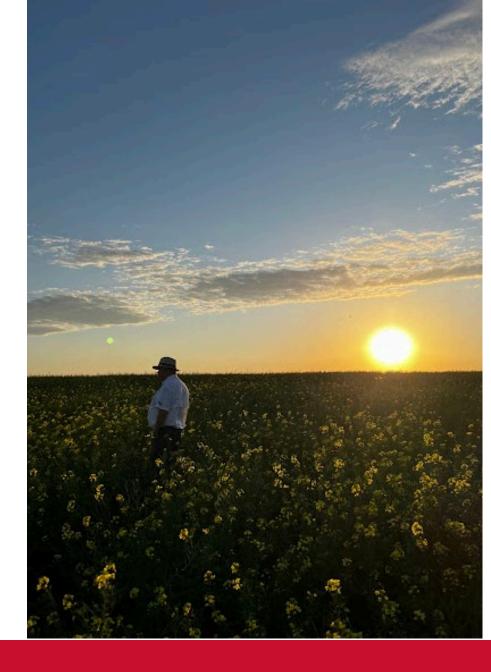




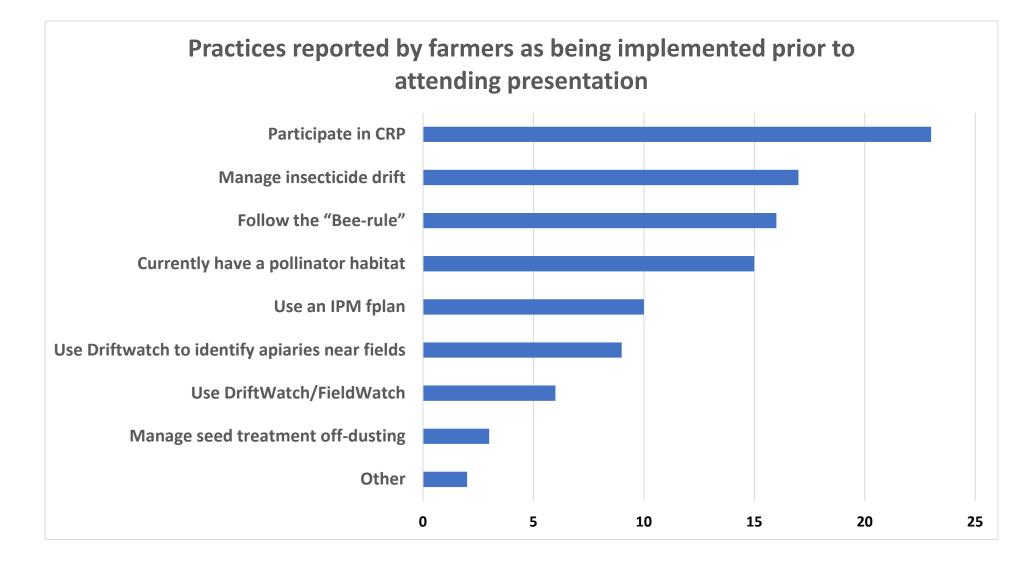


Farmers

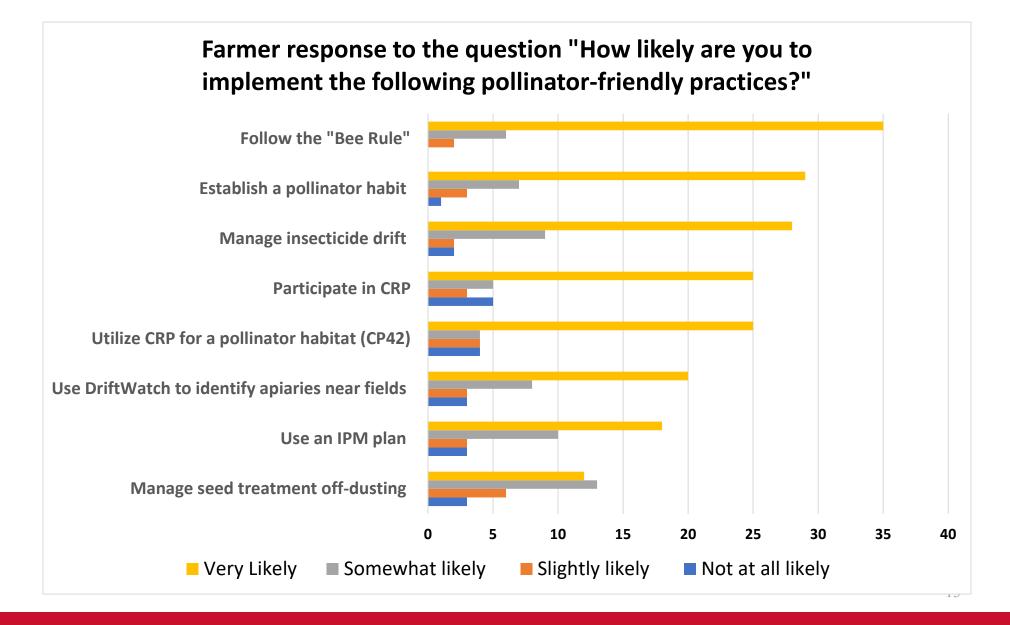
- 72% of respondents were over the age of 50
- Only 27% of respondents reported farming over 1,000 acres
- 9% reported currently having beehives on their land
- 92% believe implementing pollinator-friendly practices in somewhat important or very important



Farmers

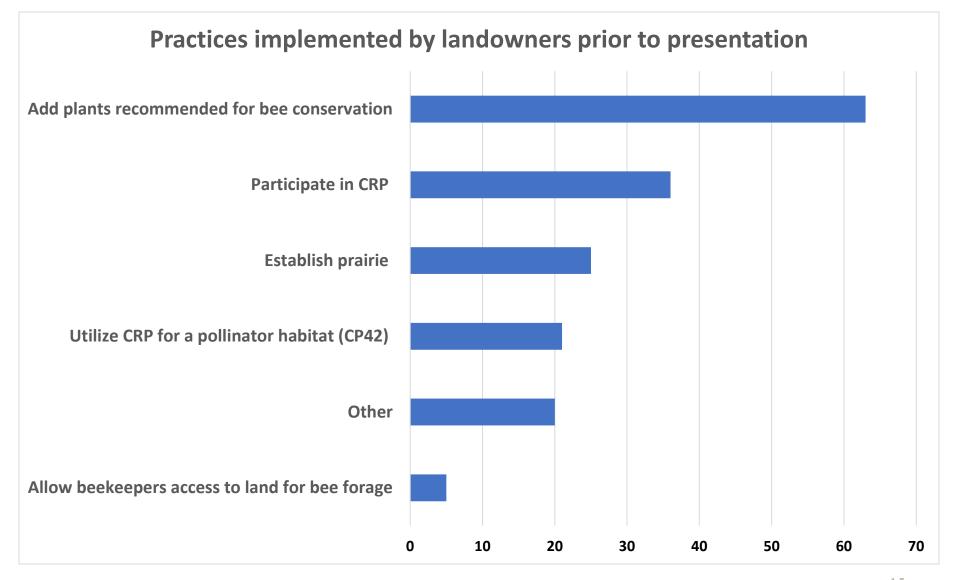


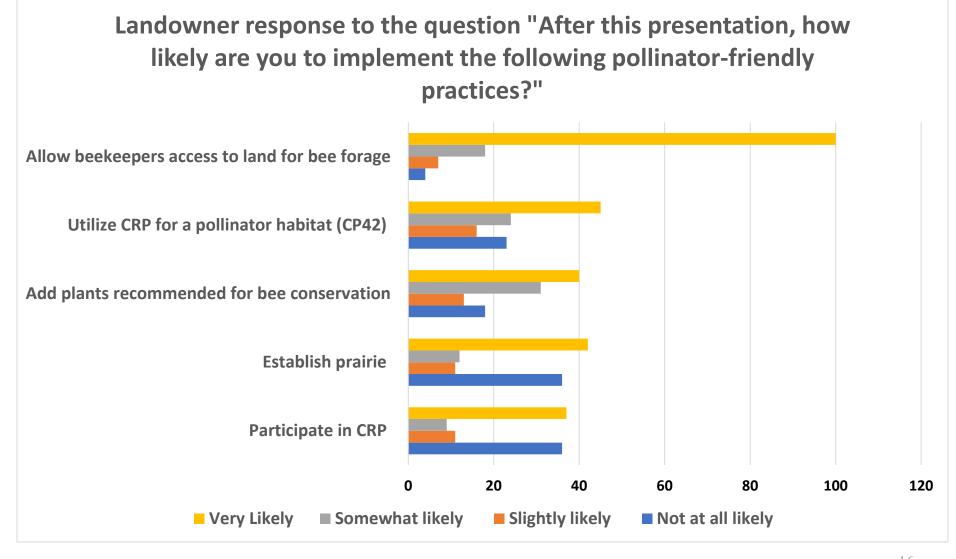
Farmers

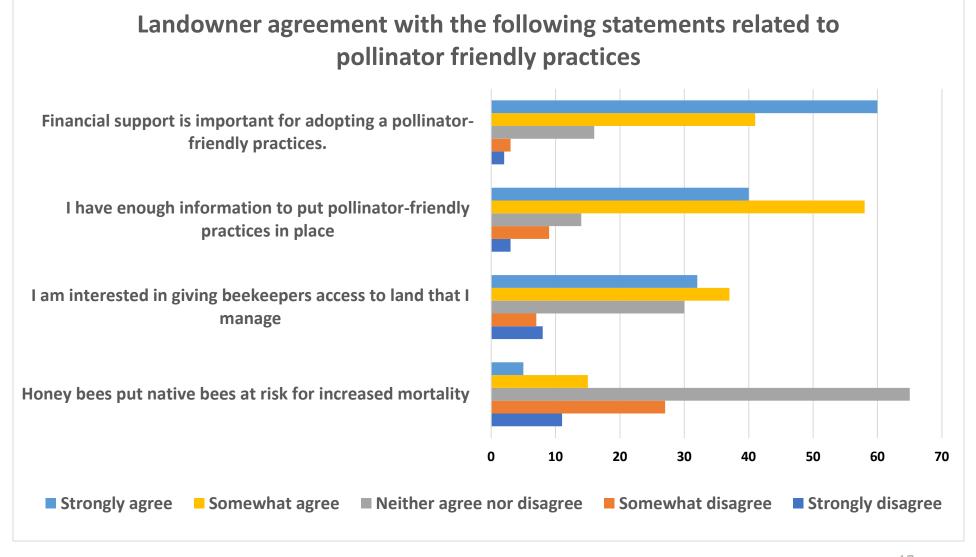


- 73% of respondents were over the age of 50
- 53% owned 10 acres or less, with 29% owning fewer than 1 acre
- 28% reported having land currently in agricultural production,
 with 22% reporting currently having CRP on their land
- 100% believe implementing pollinator-friendly practices in somewhat important or very important









Conclusion

Highlights and directions for future outreach

- 92% of farmers and 100% of landowners believe implementing pollinator-friendly practices is somewhat or very important
- Beekeepers do not report a high level of concern for poor forage as a stressor, despite 49% keeping hives near row crop and ISU research demonstrating its importance in lowa's agricultural landscapes
- Landowners expressed a high level of interest in inviting beekeepers to keep hives on their land
- There is a need to address the nuances of bee conservation and the potentially detrimental role honey bees may play. How do we discuss keeping honey bees in native bee habitat?

Acknowledgements

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Thank You

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