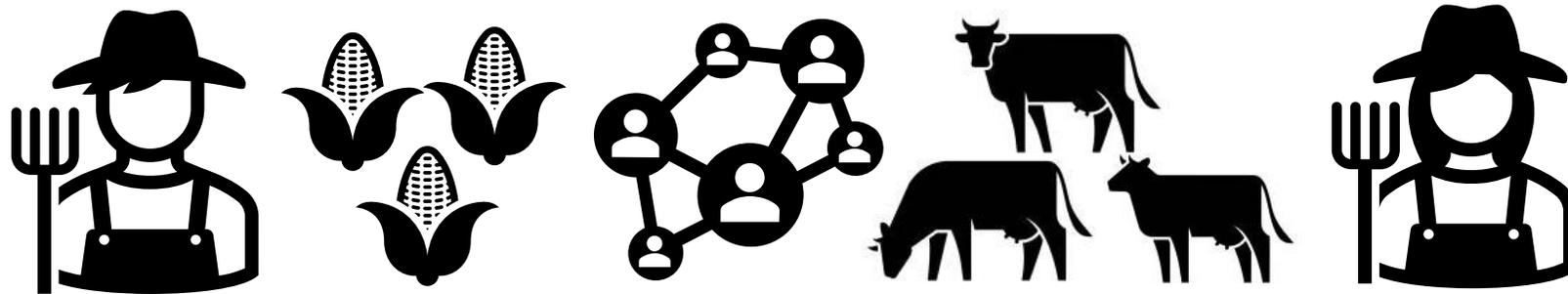


# Catalyzing conservation adoption through peer-to-peer learning

Lessons from the **Wisconsin Demonstration Farm Networks Program**



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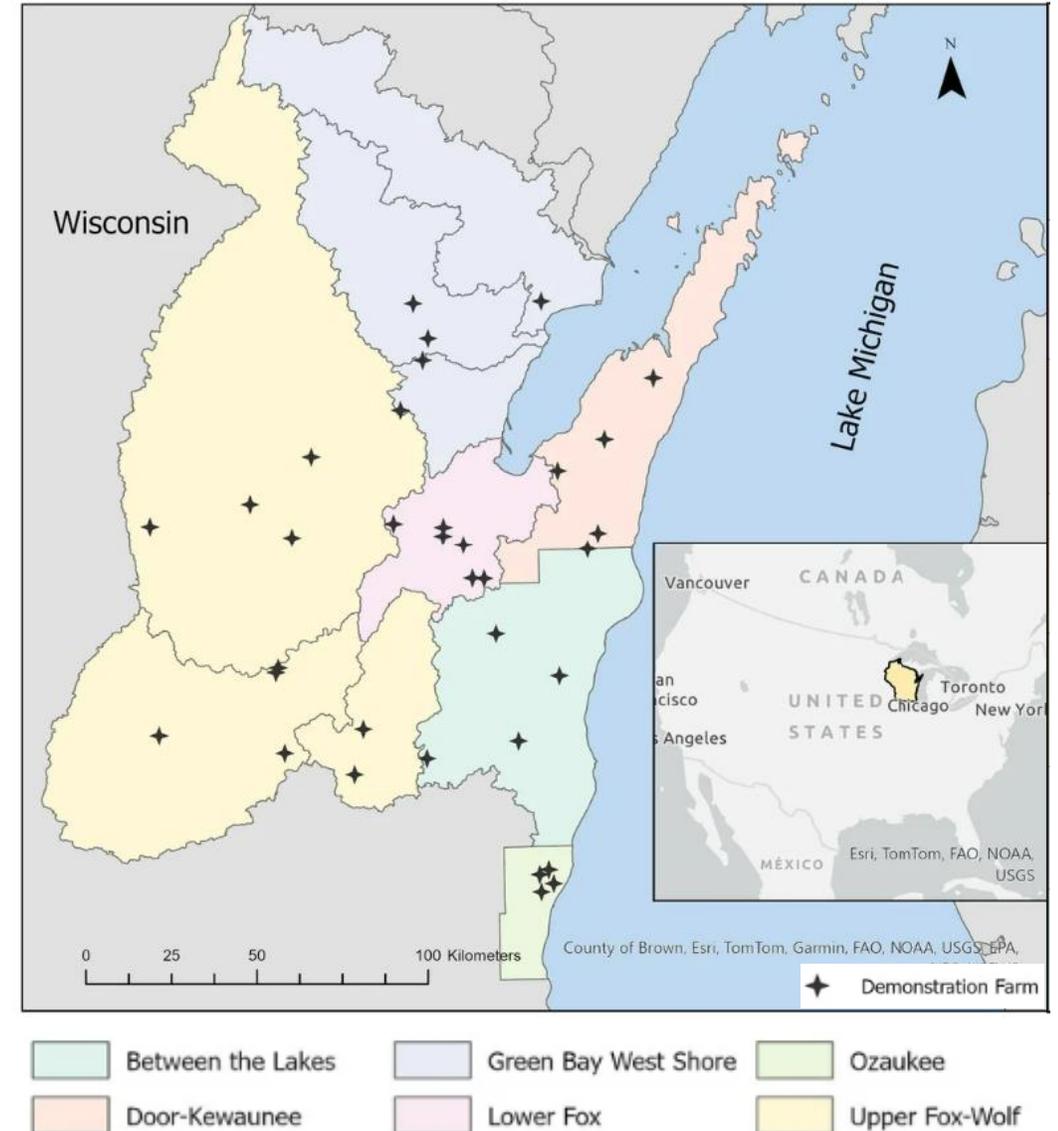


# Wisconsin Demonstration Farm Networks Program

- NRCS-GLRI Funding in Lake Michigan basin
- First network established in 2014

Program Region	Year founded	# Demo farmers	Boundary area (km <sup>2</sup> )
Lower Fox	2014	7	1,678
Door-Kewaunee	2017	4	2,573
Upper Fox-Wolf	2018	10	15,319
Ozaukee	2018	4	610
Between the Lakes	2020	4	3,465
Green Bay West Shore	2021	4	6,507

- Demo leaders receive financial and technical support to implement and promote conservation
  - Additional staff hired
- Activities: Field days, roundtables, signage



**HOW MUCH did the demonstration  
farm program increase  
conservation adoption?**

# Spatial and Temporal Study

How has the presence of the demonstration farm networks influenced cover crop adoption in Wisconsin watersheds?

## Methods

### Data Collection

Cover Crop Data (2016 to 2021), Program boundaries and addresses, Wiscland 2.0 Land Use & Land Cover

### Geospatial Analysis

100 samples of 100,000 random points within program area: 5 and 10 km buffers, demo farms within boundaries, cover crops at point

### OLS with Fixed Effects

Estimating changes in cover crop adoption after demonstration farm activities begin

### Event Study Analysis

Pre & post exposure windows assessing cover crop adoption over time

# Results

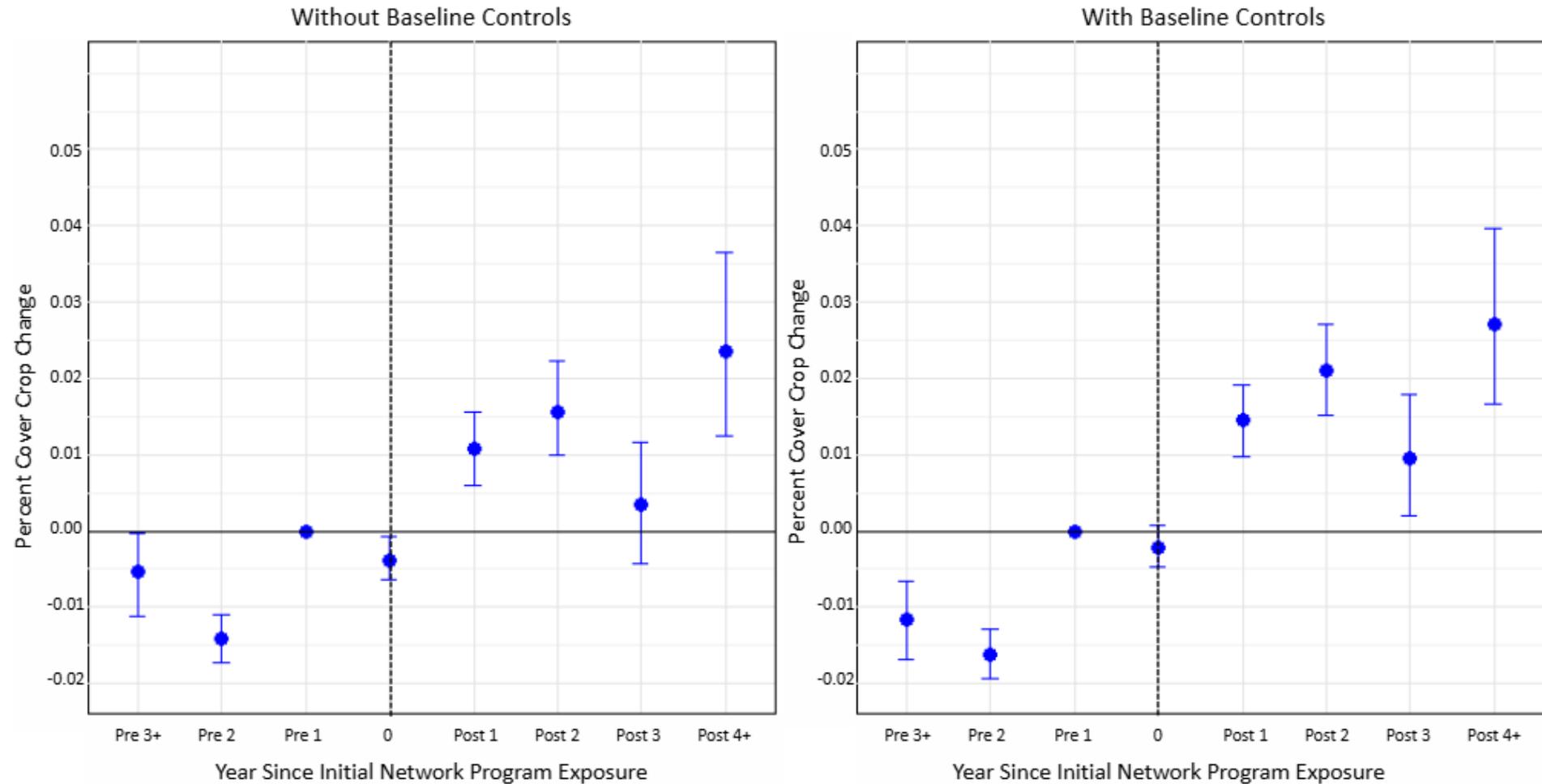
- If a point was:
  - In an active network → **10%** more likely to have cover crops.
  - Closer to a demo farm (within 5km) → **13%** more likely.
- Based on previous research, EQIP payments alone should have increased cover crops by only **0.06%** (Park et al., 2023)



Craska et al., 2025 *Conservation Letters*

# Results

- Cropland was **50%** more likely to have cover crops in a network active for 4+ years



Craska et al., 2025 *Conservation Letters*

**HOW did the demonstration  
farm program catalyze  
conservation adoption?**

# Interview-based research

## Social Network Study

- How does information about conservation practices move through a farming community?

## Social Norms Study

- How have social norms related to conservation adoption shifted in the demo farm region?



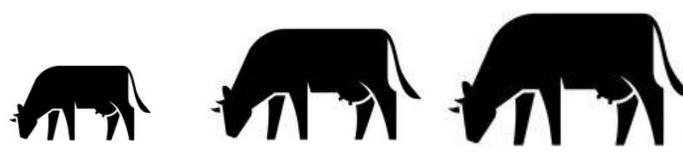
# Sample population and characteristics

- Sample population
  - 22 demo farmers
  - 23 non-demo farmers
- Farm and farmer characteristics

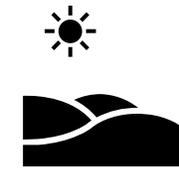
	Demo farmers	Non-demo
Lower Fox	4	4
Door-Kewaunee	3	4
Upper Fox-Wolf	6	6
Ozaukee	3	4
Between the Lakes	4	2
Green Bay West Shore	3	2



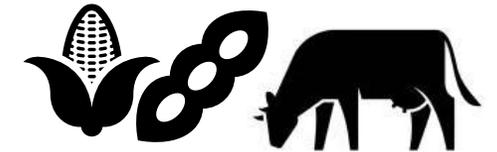
12 first gen, 15 multi-gen, 18 centennial



11 small, 11 medium, 17 large



Avg. farm  
1,595 acres



Top crops

# Social Network Study

Sociogram used to collect network information during interview

## Who Do You Talk To For Information About Conservation Practices?

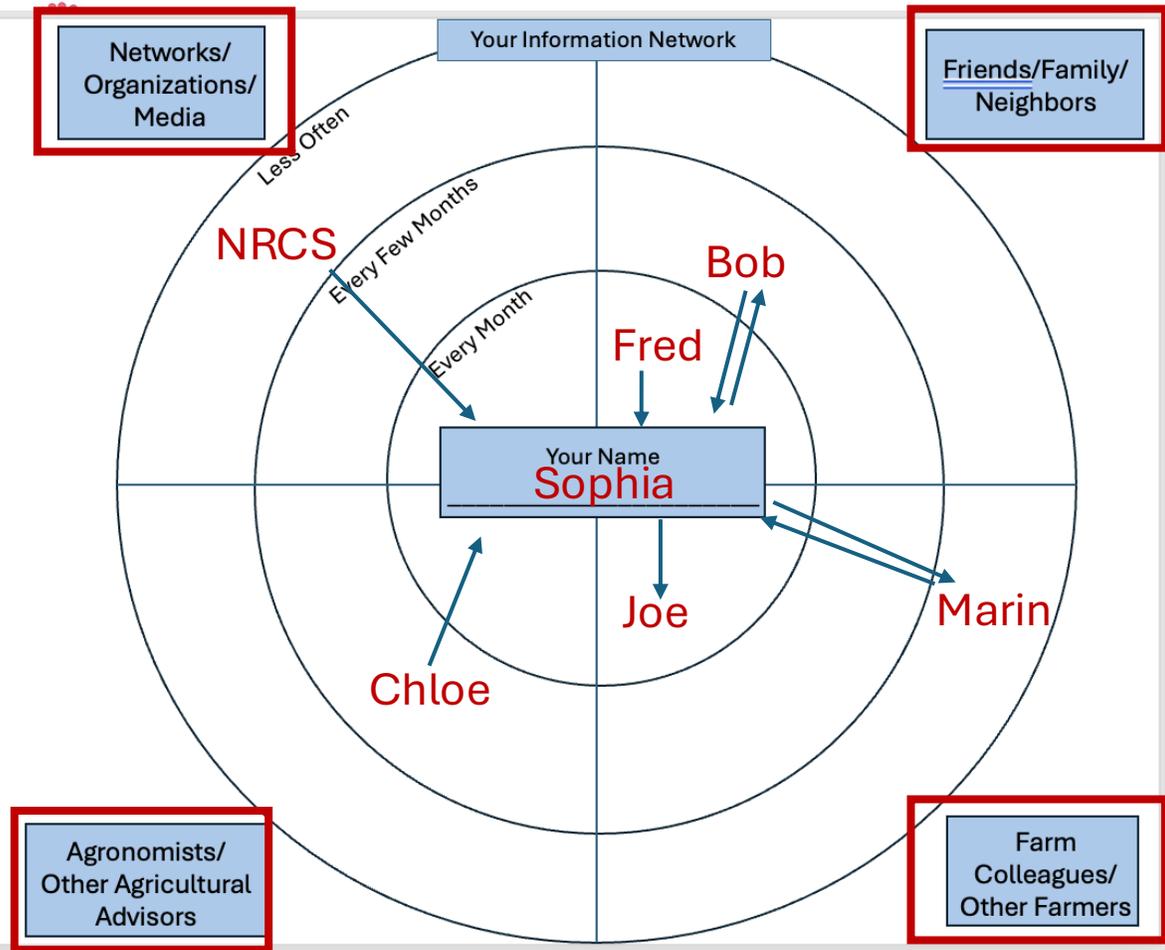
We would like to know who you **exchange information** with related to the **use of conservation practices**, such as cover crops, conservation tillage, and low disturbance manure application. This will help us to understand **agricultural social networks** and which groups are **trusted sources of information**.

Please fill out the names of the people and groups in your information network.

*\*The names you provide will not be shared with anyone else or in our results. Also, we will not share this information or tell them that you listed their names.*

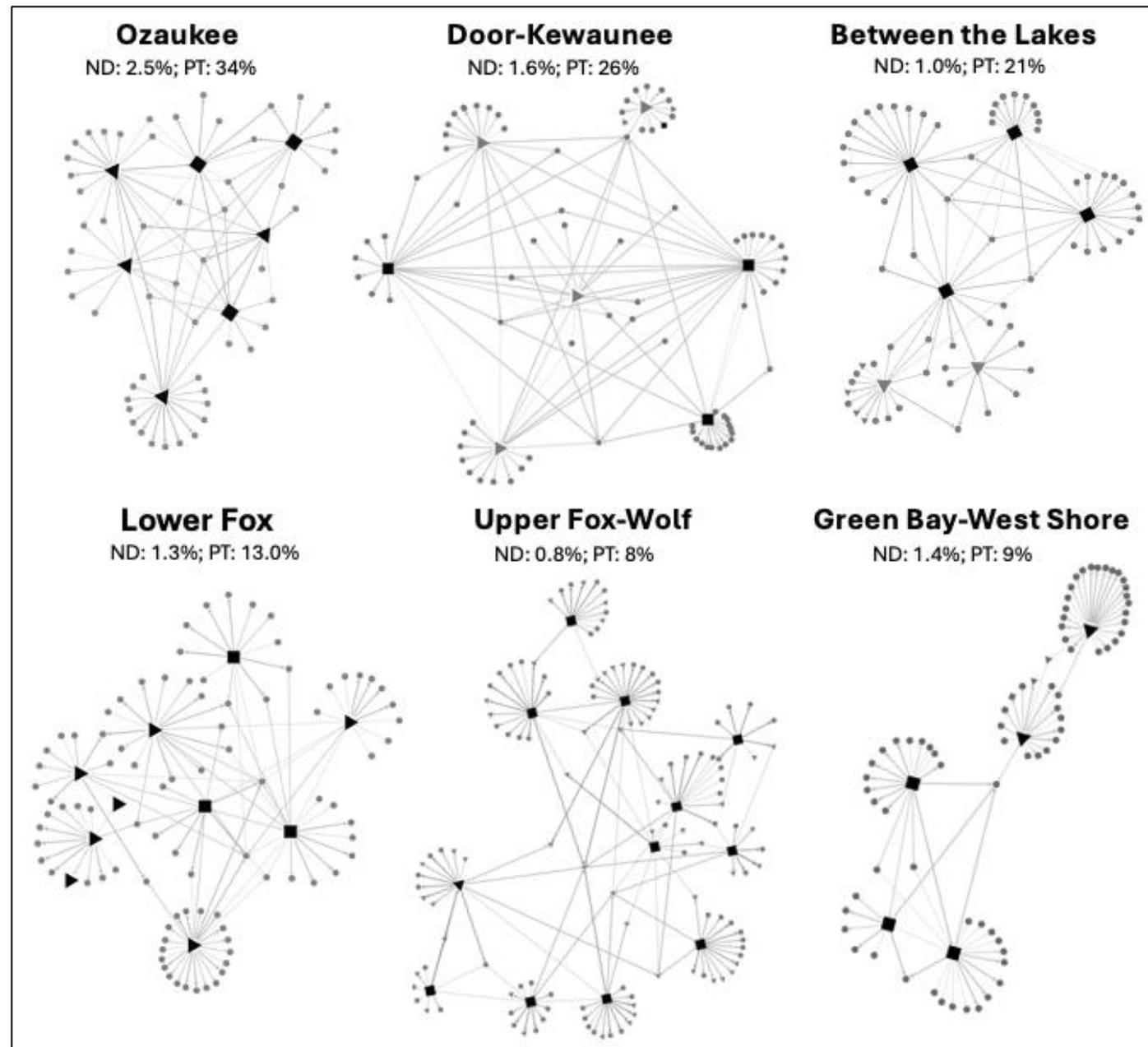
### Questions:

- 1.) Who do you **receive** information from?  
(Draw an arrow from their name to yours)
- 2.) Who do you **give** information to?  
(Draw an arrow from your name to theirs)
- 3.) Who is **affiliated** with the NRCS Wisconsin Demonstration Farm Network?  
(Circle the names of those who work for or participate in the Demo Farm Network)



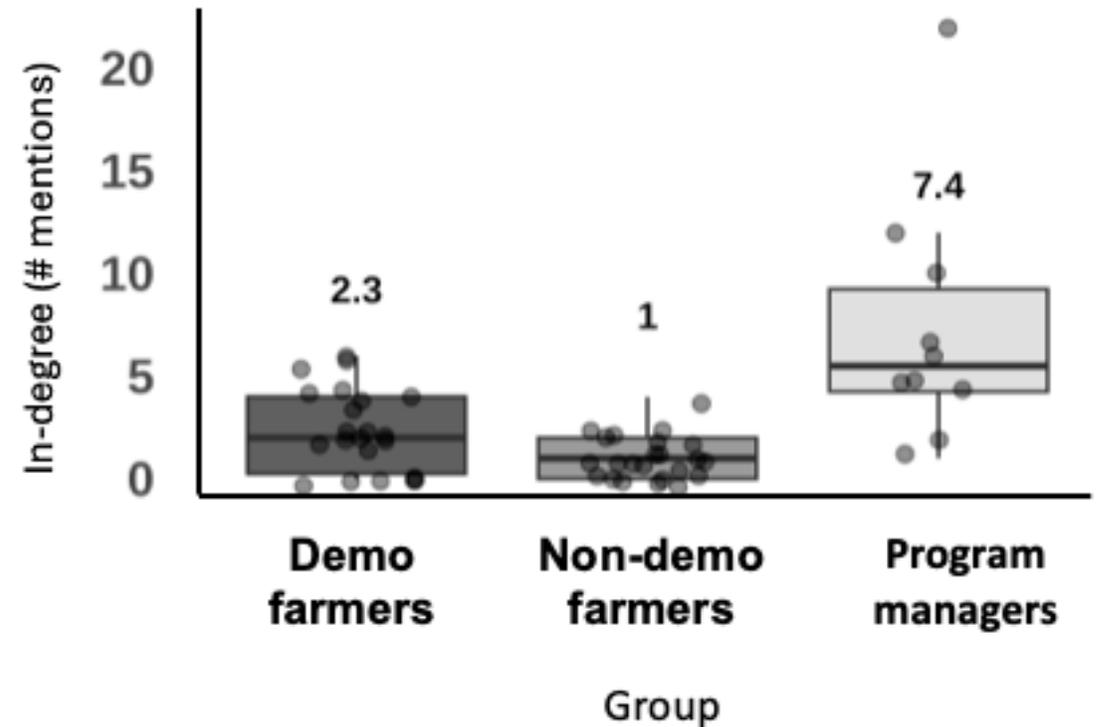
# Results

- Network density refers to how connected the nodes are
  - Overall low network density
- Ozaukee: densest, most triads (closed loop relationships)
- Upper Fox-Wolf: least dense



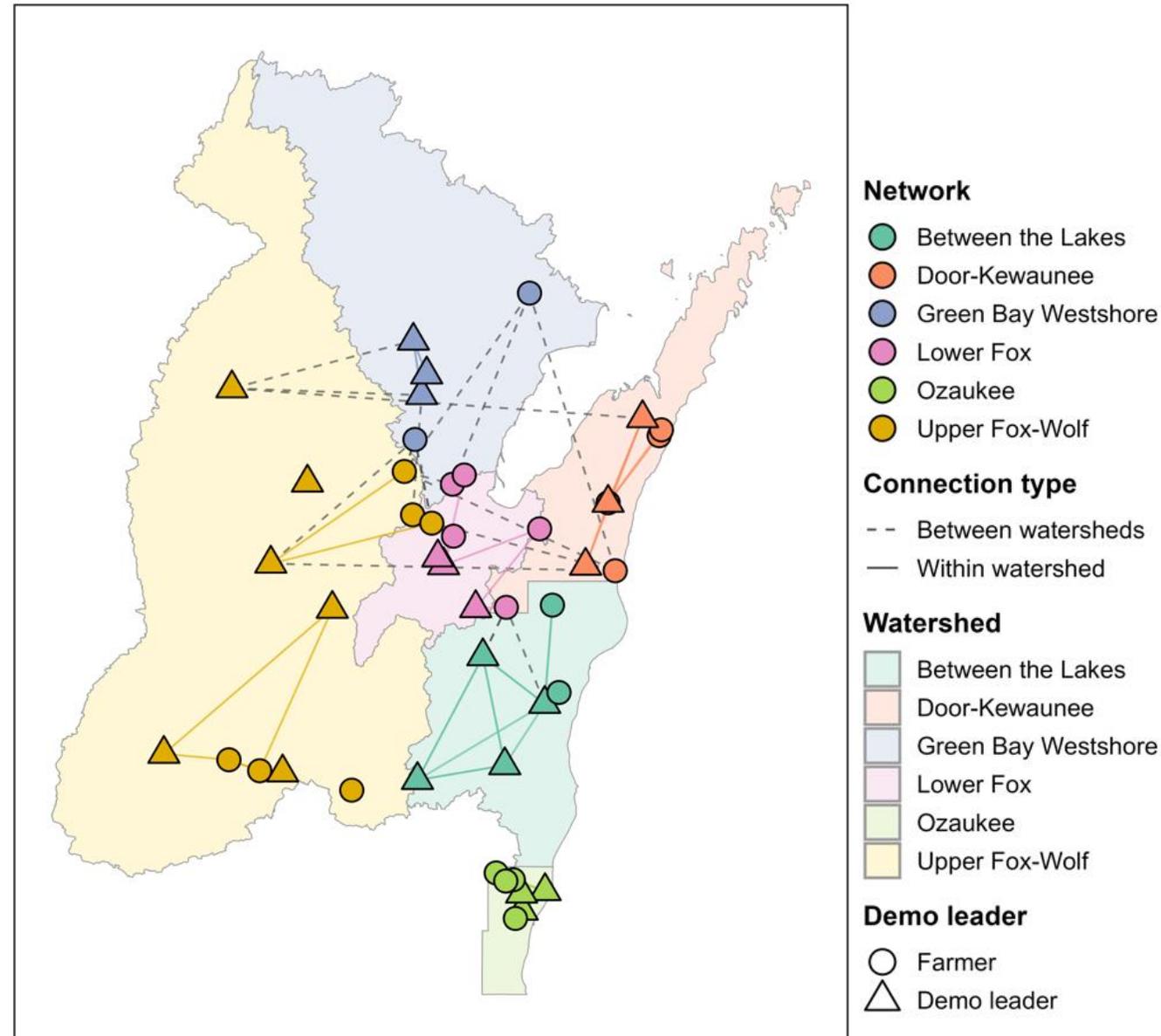
# Results

- Program managers are most connected compared to demo and non-demo farmers (sig. diff.)



# Results

- Geographic distance associated with connection
  - And vice versa (Upper Fox-Wolf)
- Farmers in same program region nearly 5 times more likely to be connected
- Shorter distance associated with communication frequency



# Results

Social connectivity is related to conservation behavior

Clusters	n	n demo	% Cover crop	% Cons. Tillage	Prestige score	Clustering	In-degree (followers)
Conservation leaders 	13	10	81	72	.28	.11	3.3
Conservation curious 	32	12	32***	66	<.001***	.05***	1.0***

Demo farmers evenly split between groups, indicating they are not all the most connected or most conservation-oriented farmers in the sample

# Social Network Summary

- Program managers were most cited info sources
- Spatial proximity matters
  - Denser networks have more communication
- More social ties associated with conservation adoption
  - (finding not causal)



# Social Norms Study

- Norms are unwritten rules of society
- Dimensions of norms
  - **Descriptive norms**—perceptions of what others are doing
  - **Injunctive norms**—perceptions of what behaviors are socially acceptable
- These norms describe static perceptions



(Bicchieri, 2006; Cialdini, 1991; Sparkman and Walton, 2017; 2019)

Chung & Lapinski, 2024

# Social Norms Study

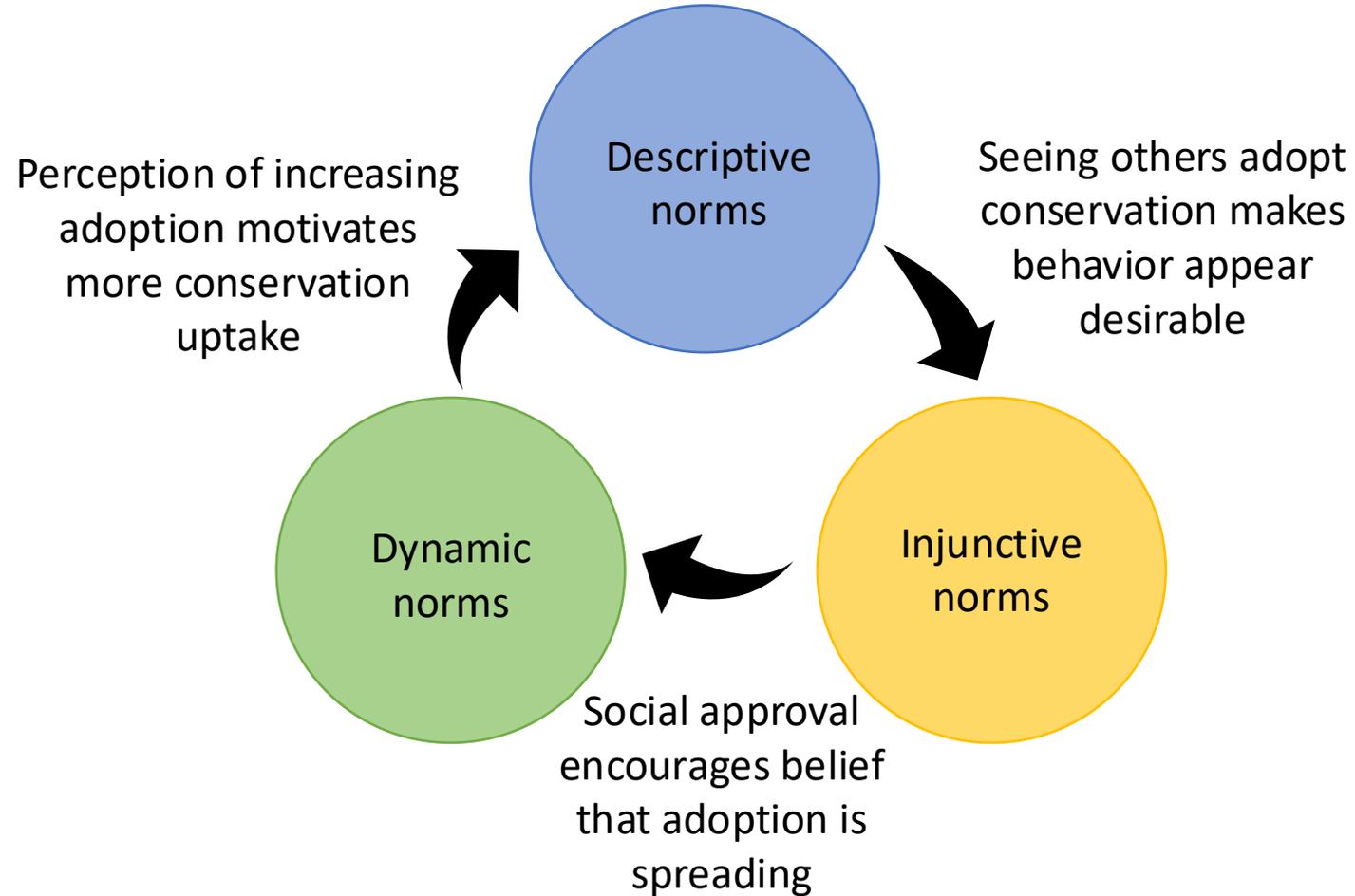
- Norms are unwritten rules of society
- Dimensions of norms
  - **Descriptive norms**—perceptions of what others are doing
  - **Injunctive norms**—perceptions of what behaviors are socially acceptable
- These norms describe static perceptions
- **Dynamic norms**—perceptions of how behavioral trends are changing
  - Promising research is showing that perceptions of changes in behavior increase adoption of pro-environmental behaviors



(Bicchieri, 2006; Cialdini, 1991; Sparkman and Walton, 2017; 2019)

Chung & Lapinski, 2024

# Social Norms Study



# Social Norms Study

- Five interview questions to explore norms and future conservation plans

Norm dimension	Theme	Question
<i>Descriptive</i>	<i>Peer influence on conservation adoption</i>	Have your observations of what other farmers are doing in your network region influenced your own decision-making related to conservation on your farm? Why or why not?
<i>Descriptive</i>	<i>Effects of program on conservation</i>	Are there any differences in adoption of conservation practices between those you know who are participating in the Network versus those who are not?
<i>Injunctive</i>	<i>Peer perceptions of conservation adoption</i>	Based on interactions you've had with your peers or patterns you've observed on nearby farms, how do you think your peers feel about your use of conservation practices?
<i>Dynamic</i>	<i>Perceptions of changes in conservation</i>	Have you noticed any differences in adoption of conservation practices in your community since the start of the Demo Farm Network?
<i>Outcome</i>	<i>Future land use practices</i>	Do you plan to reduce, maintain, or expand your usage of these practices in the future? Please explain your answer and what influenced your decision-making.

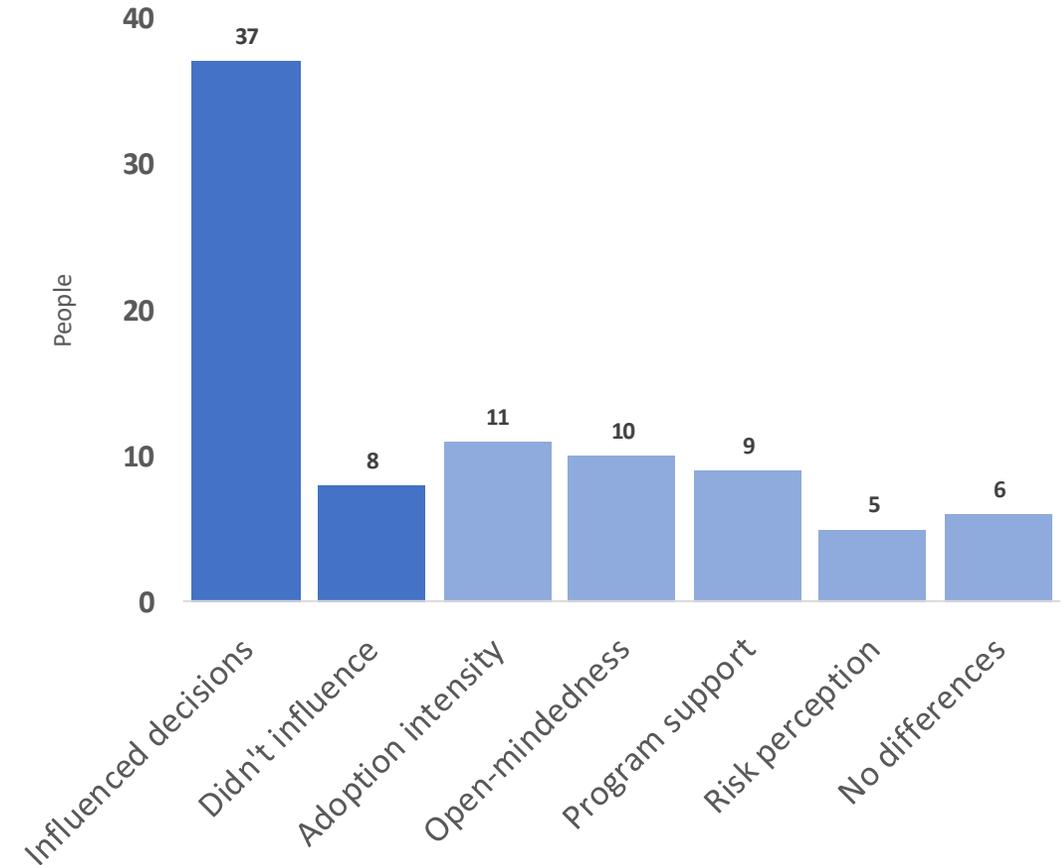
# Results: Descriptive norms

- 37 of 45 farmers were influenced by peers' perceptions and behaviors
- 8 who weren't influenced were already engaged in conservation

## Specific themes

**Open-mindedness:** “I think the guys that are in the network are more eager to try things.” (NL20)

**Risk perception:** “The guys in it are willing to try something that has a chance of failing. And the others don't want to fail.” (DG08)



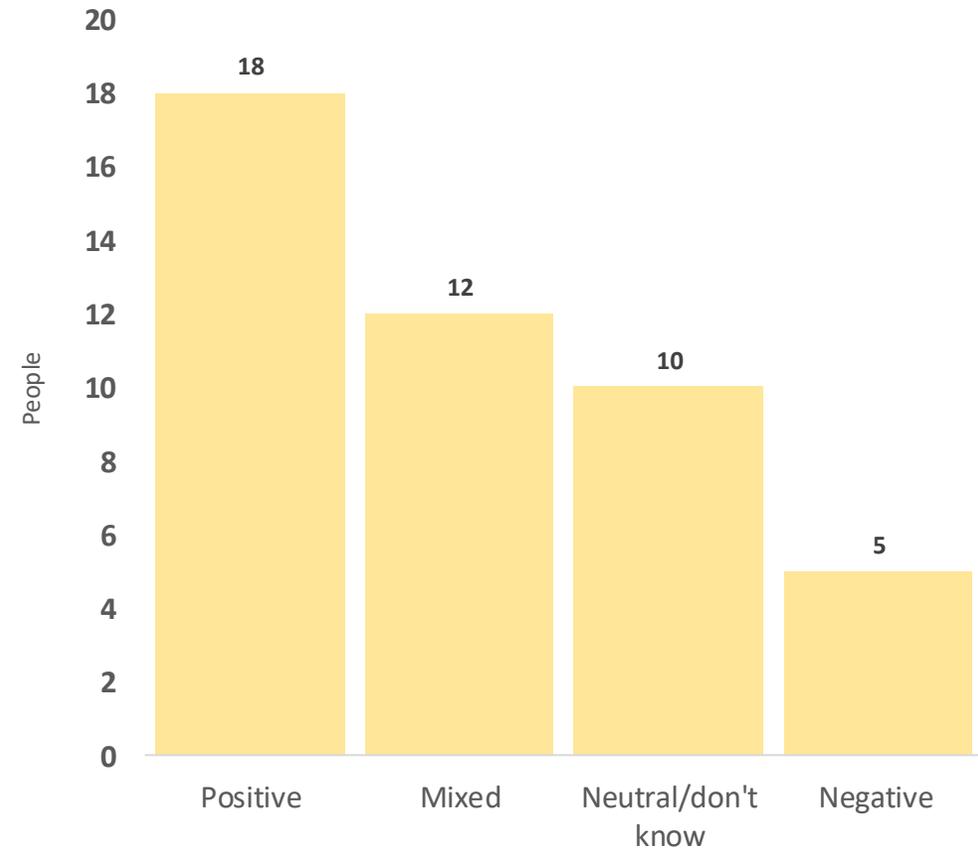
# Results: Injunctive norms

**Positive:** “Conservation is accepted now.”  
(DD04)

**Mixed:** “I think most see it as beneficial...I'm sure some look at it as boo hockey.” (DB10)

**Neutral/don't know:** “I mean, it's just a given. I don't necessarily think my peers really even notice.” (NU16)

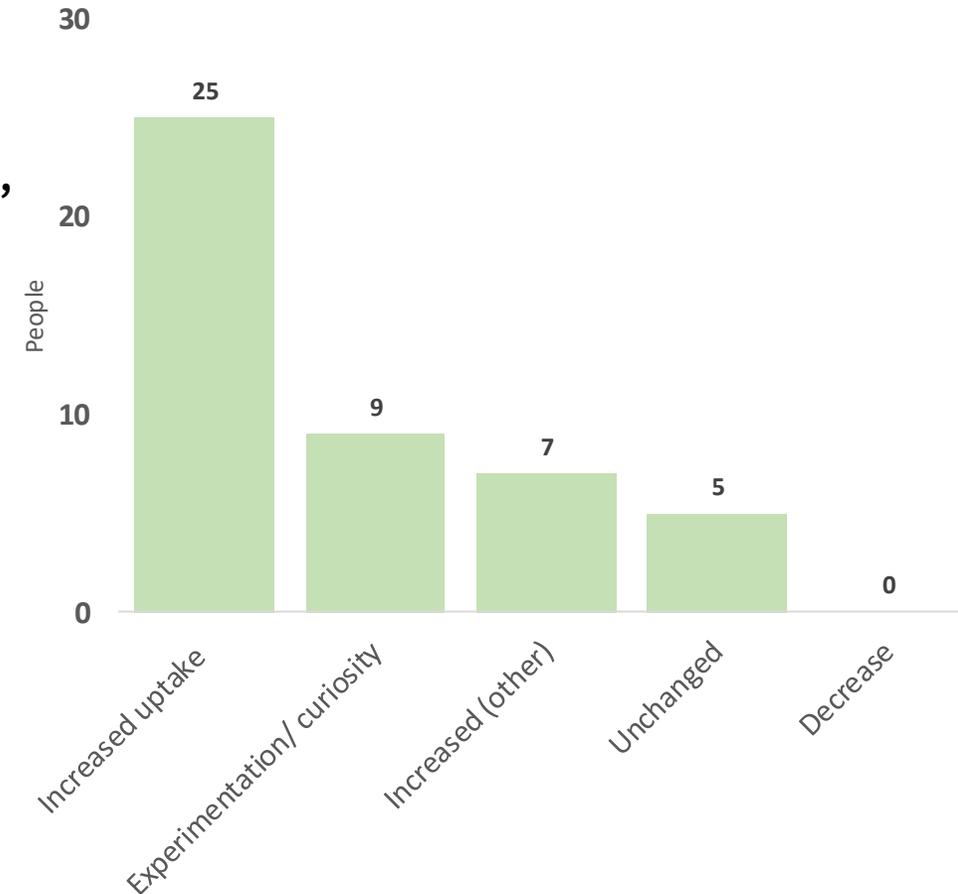
**Negative:** “They definitely think I'm crazy.”  
(DN13)



# Results: Dynamic norms

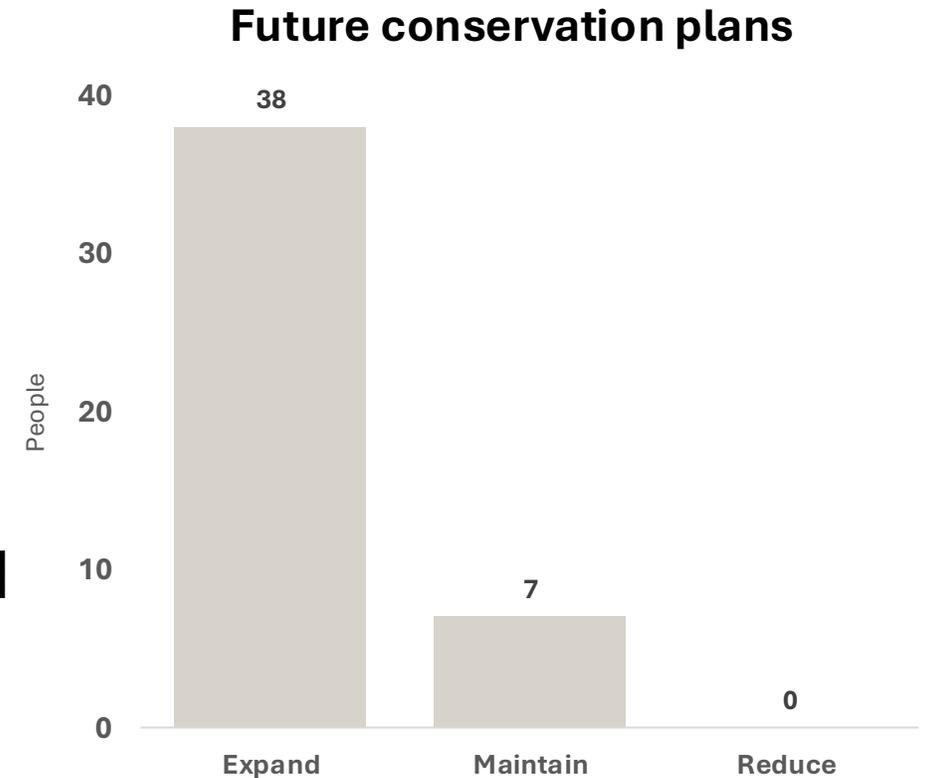
**Increased uptake:** “Five years ago, there was a lot more worked ground. It's all getting very common now.” (DB10)

**Experimentation/curiosity:** “There's a few of them that you can tell that they're adapting to it and they're thinking, hey...if it's been working for 10 years, maybe we should try it.” (ND13)



# Social Norms Summary

- Conventional farming dominated when program began
- Over time, conservation adoption increased and perceived acceptability increased, which is partly attributed to the program by interviewees
- All interviewees plan to maintain or expand conservation practices in future



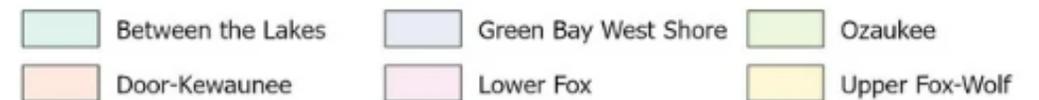
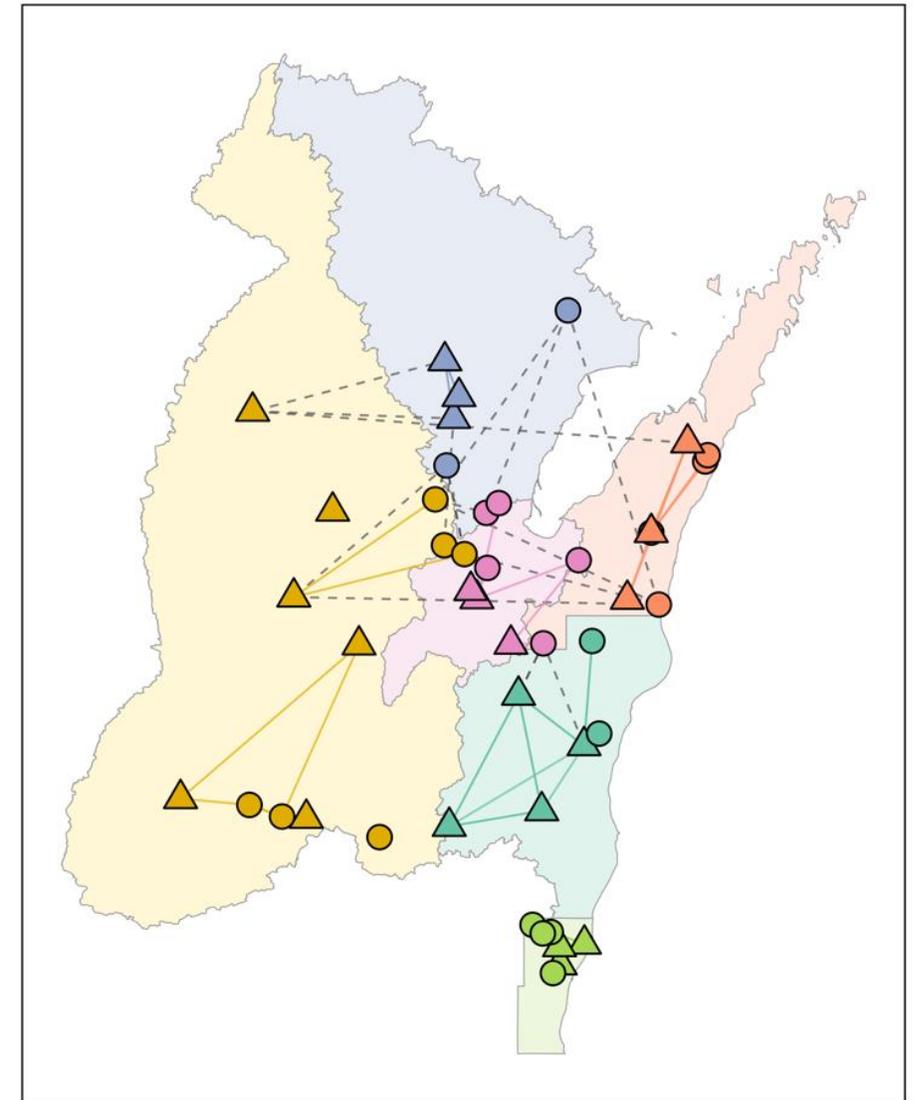
# Research Summary

- Proximity to a demo farm and location within active program region predicted cover crop adoption
- Geographic proximity associated with conservation communication between farmers
- Program managers crucial information sources
- Social acceptability of conservation perceived to increase over time



# Recommendations

- Program region design
  - Not too big
  - Understandable boundaries
- Strategically recruit demo farmers
  - Consider existing networks
- Leverage norms in messaging
  - Dynamic norms
- Support (and grow) program staff



# Additional recommendations from farmers

- Increase staff for outreach and technical assistance
- More equipment sharing opportunities
- More frequent events + reminders
- Add opportunities for less traditional farmers (e.g., grazing)
- Leverage and support producer-led watershed groups



# Thank you!



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