



Farmer survey

Population: ~45,000 agricultural landowners in study area

Sample frame: 4,500 agricultural landowners who received government payments identified through FOIA request to Farm Service Agency

Sample: 3,000 agricultural landowners randomly selected

S-wave mail survey

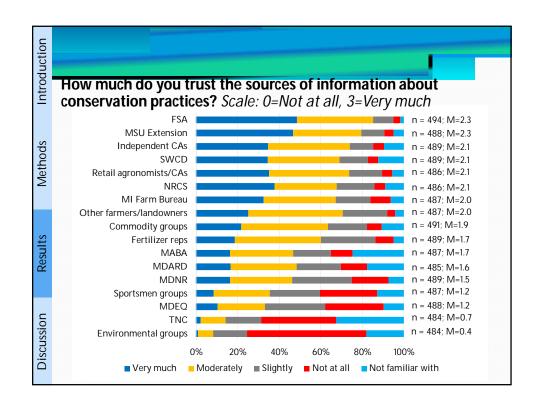
Responses: 1,459 in total (49.5% response rate)

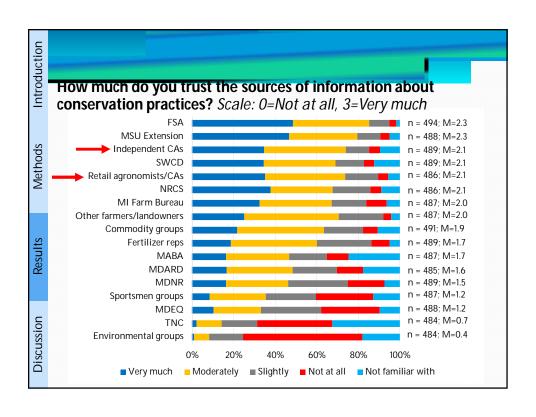
892 farmers, 567 non-operating landowners

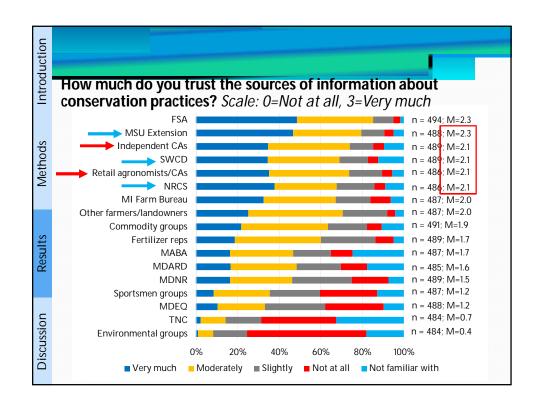
Introduction Farmer survey Population: ~45,000 agricultural landowners in study area Sample frame: 4,500 agricultural landowners who received government payments identified through FOIA request to Farm Service Agency Sample: 3,000 agricultural landowners randomly selected 5-wave mail survey Responses: 1,459 in total (49.5% response rate) 892 farmers, 567 non-operating landowners **Farmer interviews** 22 semi-structured in-person interviews all are farmers who responded to survey non-random, maximum-variability sample farm size crops grown age

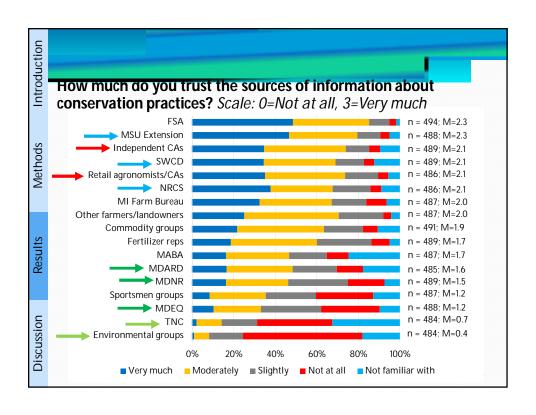
Who do Saginaw Bay farmers say they trust the most for info about conservation?

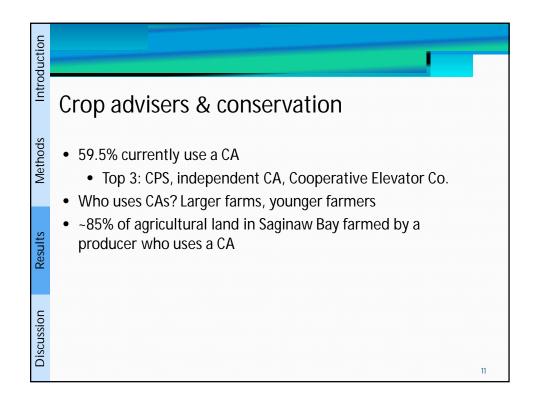
- A. NRCS
- **B.** Crop advisers
- C. SWCDs
- D. MSU Extension
- E. All of the above equally

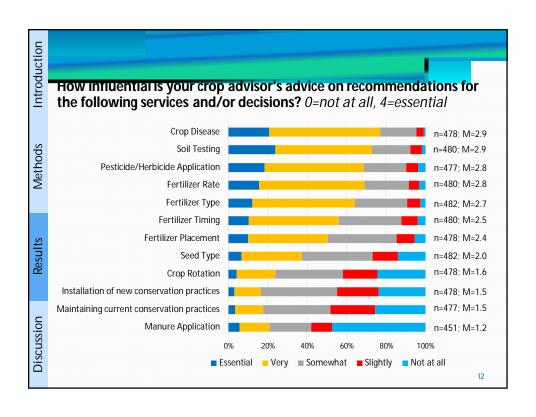


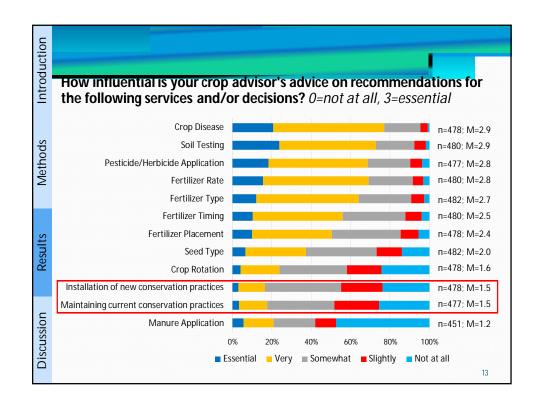










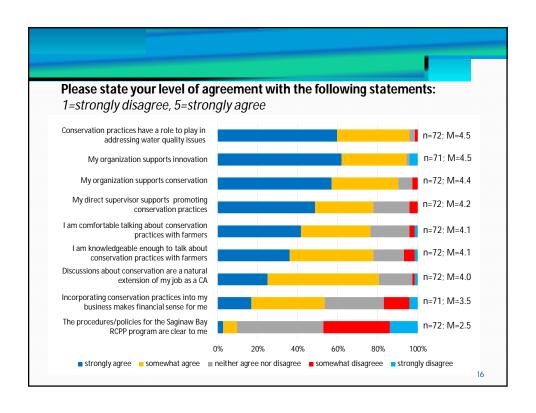


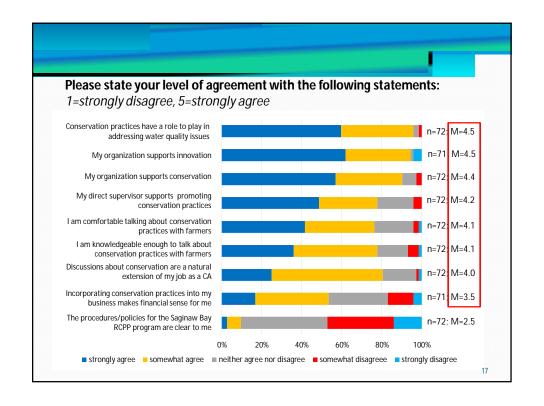
# Crop Adviser Survey & Interview Results

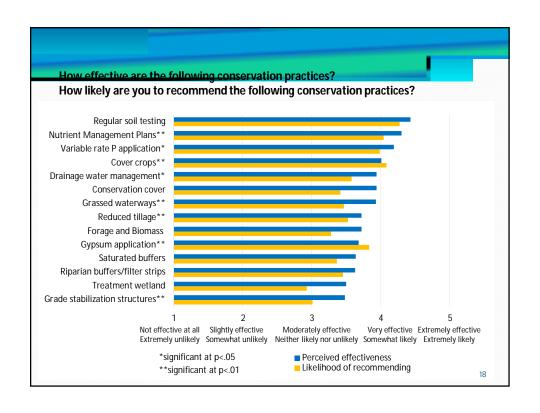
- 81 total responses (33.3% response rate)
- 55 responses from CAs who work in the Saginaw Bay watershed (rest work in other parts of Michigan)
- 12 in-person interviews

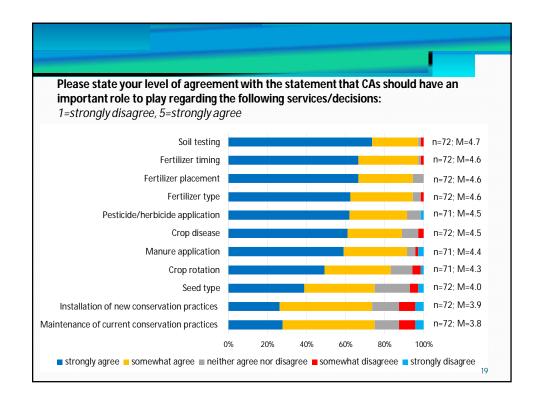
What percent of crop advisers think that conservation has a role to play in addressing water quality challenges?

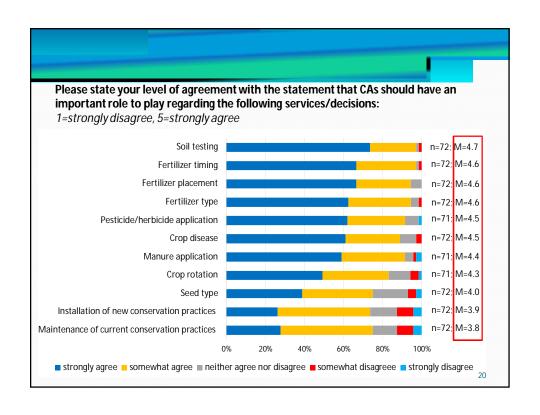
- A. <30%
- B. 50%
- C. 75%
- D. >90%





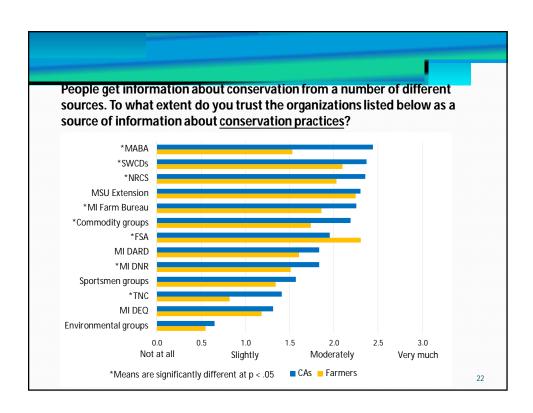


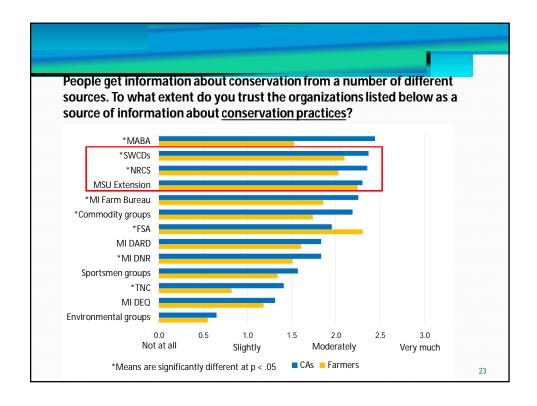




Who do crop advisers say they trust the most for info about conservation?

- A. MABA
- **B. NRCS**
- C. SWCDs
- D. MSU Extension





## **Barriers to CAs recommending conservation practices**

- Lack of reliable financial incentives or clear compensation parameters for CAs to "sell" conservation practices like other products or services
- Lack of complete knowledge on the holistic cost-benefit tradeoffs of conservation practices, which is necessary for making a convincing value proposition to farmers
- Competition concerns i.e. fear that farmers will utilize other Ag retail vendors to implement practices recommended by a CA

# Barriers to CAs recommending enrollment in conservation <u>programs</u>

- 1. Too much paperwork, delays, and program complexity
- 2. Fear that (1) and a lack of program flexibility will lead to farmers having bad experiences in programs, which will reflect poorly on the recommending CA
- 3. Challenge of quantifying the value of delivering conservation program recommendations and fairly assigning credit (e.g. between NRCS and the CA)
- 4. Challenge of bridging the gap between the pace at which conservation programs operate, and the quarterly business cycle in which CAs and their employers operate

25

## NRCS-SWCD Survey Results

 55 total responses (43.3% response rate) from NRCS and SWCD staff whose duties directly pertain to conservation, and whose offices cover some part of the Saginaw Bay watershed

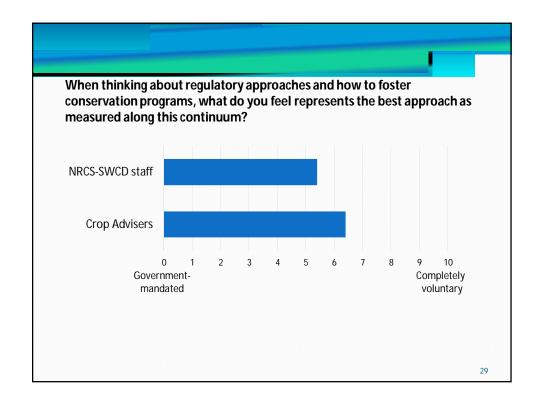
What approach to conservation do NRCS and SWCD professionals say they prefer

- A. Mostly voluntary
- B. Mostly gov't mandated
- C. Mix of voluntary/regulatory

27

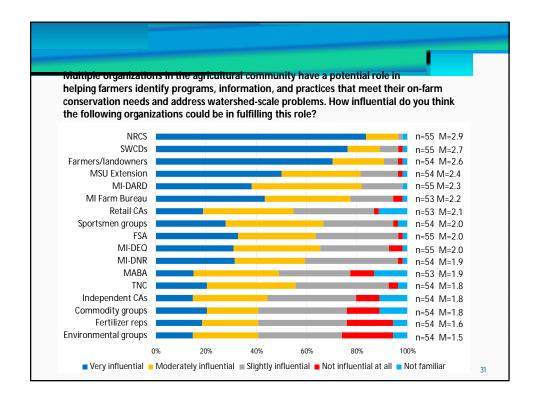
What approach to conservation do <a href="mailto:crop">crop advisers</a> say they prefer

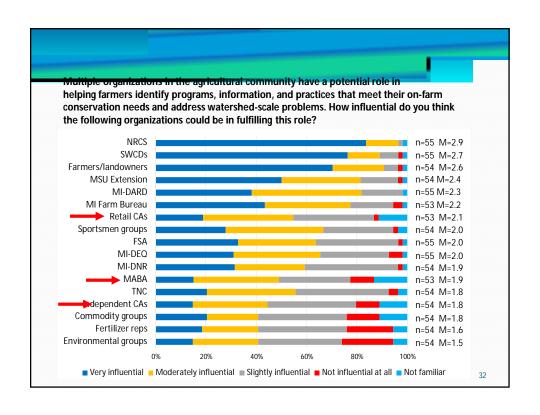
- A. Mostly voluntary
- B. Mostly gov't mandated
- C. Mix of voluntary/regulatory



Whom do <u>NRCS/SWCD staff</u> say could be the most influential in promoting conservation?

- A. NRCS
- B. SWCDs
- C. MSU Extension
- D. Crop advisers





33

# Why (or why not) are you comfortable with CAs participating in programs like RCPP and delivering conservation advice to farmers? Response Frequency Delivering conservation information conflicts with CAs' primary role 13 CAs lack the proper training/expertise in conservation 11 Conservation programs are a low priority for CAs 7 CAs could be influential if adequately trained 6 CAs have not yet delivered on their promised support role for RCPP 4 CAs could be influential if public-private sector collaborations barriers were lowered 1

How, if at all, should CAs be compensated for delivering recommendations/advice on conservation programs or practices?	
Response	Frequency
Unsure/other	15
CAs should not be financially compensated	10
CAs should receive some form of indirect compensation	7
CAs should receive some form of direct compensation	4
after a farmer's application has been funded	1
from their employer	1
CAs should be compensated based on conservation performance	3
CAs should receive some sort of non-monetary compensation	3

## Discussion of cross-cutting themes

- Considerable agreement that conservation (in general) and conservation practices (specifically) are worthwhile and important
- 2. Farmers are open to and interested in receiving conservation advice/recommendations from CAs, but unsure of who will pay for it
  - Have not yet formed strong attitudes, as CAs generally do not perform this role

35

# Discussion of cross-cutting themes

- Misalignment between who farmers say they trust (and who influences them) and who NRCS-SWCDs think that farmers trust
- **4. Disagreement** between who CAs and NRCS-SWCDs think have a role in conservation
- Uncertainty about whether/how CAs should be compensated for supporting conservation practices & programs
- 6. Considerable agreement that more public-private collaboration is needed, but acknowledgement that significant barriers to collaboration remain.

## Acknowledgments:

NRSS Lab, Purdue University:

Francis Eanes, Linda Prokopy, Pranay Ranjan, Jackie Getson, Laura Esman, Belyna Bentlage

The Nature Conservancy:

Mary Fales, Ben Wickerham, Patrick Doran, Randy Dell

Michigan Agri-business Association:

Tim Boring

Michigan Natural Resources Conservation Service,

Financial support:

Cook Family Foundation

Mott Foundation

The Nature Conservancy

37

### Citations:

Eanes, Francis R., Ajay S. Singh, Brian R. Bulla, Pranay Ranjan, Linda S. Prokopy, Mary Fales, Benjamin Wickerham, and Patrick J. Doran. "Midwestern US farmers perceive crop advisers as conduits of information on agricultural conservation practices." *Environmental management* 60, no. 5 (2017): 974-988.

Eanes, Francis R., Ajay S. Singh, Brian R. Bulla, Pranay Ranjan, Mary Fales, Benjamin Wickerham, Patrick J. Doran, and Linda S. Prokopy. "Crop advisers as conservation intermediaries: Perceptions and policy implications for relying on nontraditional partners to increase US farmers' adoption of soil and water conservation practices." *Land Use Policy* 81 (2019): 360-370.

Linda Prokopy, <a href="mailto:lprokopy@purdue.edu">lprokopy@purdue.edu</a>, Twitter: @lprokopy