

Dan Perkins: Certified Crop Advisor

Watershed and Conservation Program Specialist

www.iroquoiswatershed.org

www.jaspercountyswcd.org

JCSWCD "Cover Crop Guy" You tube Channel

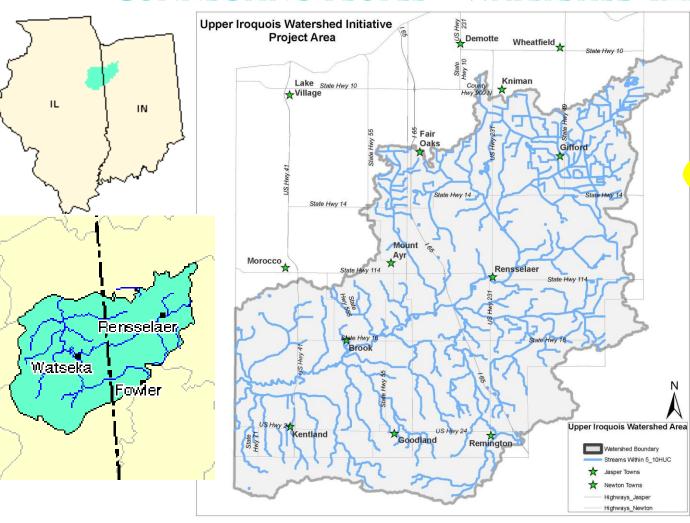
Cover Crops

How can you help blanket the watershed?

Practical Challenges and Solutions for Watershed Managers

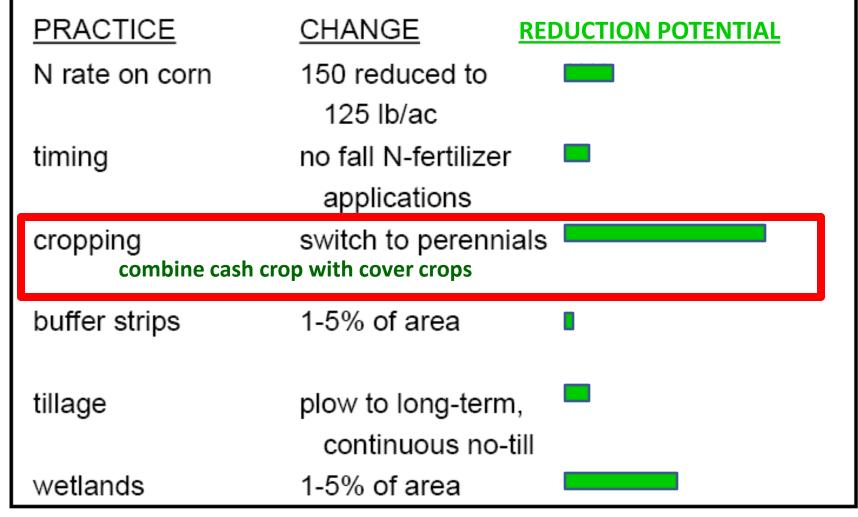
UPPER IROQUOIS WATERSHED INITIATIVE

CONNECTING PEOPLE FOR WATERSHED IMPROVEMENT



- •651 sq. miles
- •438,332 acres
- 84% Ag land
- •6 % Forested land
- •10 % Other/Urban Land
- •208 miles of streams

Potential relative reductions in nitrate leaching in Corn Belt for specific corn/soybean mgt. changes



Source: Dr. Gruver WIU

Cover Crops

- How to get message out?
 - Map it.
 - Gather them. Go to them.
 - Let them sell it.
 - Repeat.

Map it.

- Where are cover crops currently being used?
 - SWCD Boards and Staff, Extension staff, NRCS staff, FSA staff, DNR staff
 - Find the current practicing farmers . . .
 - Fall Transect being done across state right now.
 - Local Ag business:
 - List them: CERES, Co-Alliance, Wilson Fertilizers, Vision Ag, Independent CCAs, etc.
 - » Are they favorable to cc? Why or why not?
 - » What questions do they have? Concerns?
 - » Which staff are supportive?
 - When do they have their customer/sales appreciation days?
 - Go to them and be social.
- List your locally available experts . . .
 - Private, Non-profit, governmental . . .



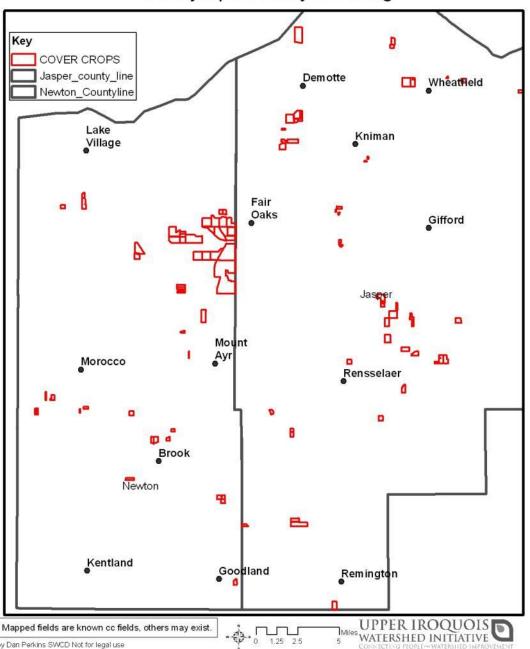


Do cover crops work → YES
in Iroquois
What cov
Watershed? (2010)
what rota

What cover crops in what rotations?
How much benefit?
Economic benefit?

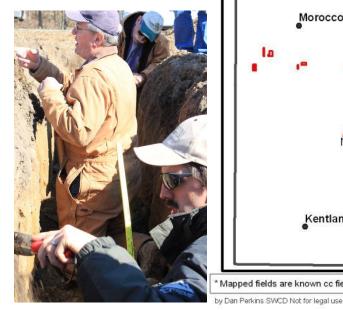


Cover Crop Fields Fall 2013 www.jaspercountyswcd.org



* Mapped fields are known cc fields, others may exist.





What cover crops?

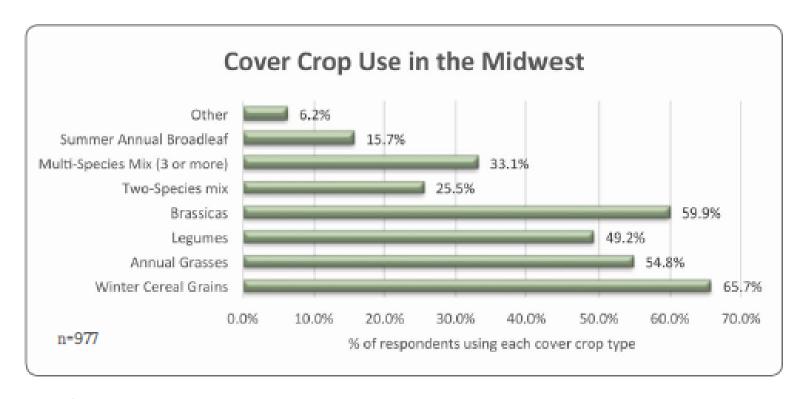


Figure 8. In the Midwestern United States, winter cereals, brassicas and annual grasses are all quite popular as cover crops.

Gather them. Go to them.

Gather . . .

- Tillage Roundtable Groups
- Your own Workshops
- Demonstration Plots

Go to . . .

- Cover Crop and Soil Digs
- Planter Ride Along
- Combine Ride Along
- PARP/Customer Meetings
- "Coffee Shop Locations"

Tillage Roundtable

GOALS

- 1. To improve our conservation tillage systems and farm profitability
- 2. To encourage the adoption of conservation till methods in the area

METHODS

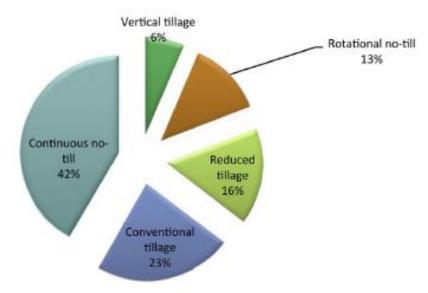
- 1. Meet 3-4 times a year
- 2. Network Exchange
- 3. Planter Clinic
- 4. Farm Visits

SIZE 10-15 Participating Farmers

- Farmers in the group practice Conventional Till to 100% No-Till

Tillage systems used by cover crop users





n=1,740

Figure 5. Respondents who plant cover crops employ a wide variety of tillage strategies.

CTIC/SARE 2013-2014 Cover Crop Survey

Current list of topics:

- ◆ Drainage and No-Till Methods
- ♦ Deep Ripping or Worms
- Cover Crops: Herbicides & Set-backs
- Precision Technologies and Role in No-Till setup
- ◆ Do's and Don'ts of No-Till

- ◆ Jasper County No-Till Stories
- ◆ Role of Compaction in No-Till Systems
- ◆ Farm Shop Meetings to Investigate Planter set ups
- Precision Technologies and Role in No-Till setup

Typical Agenda Example

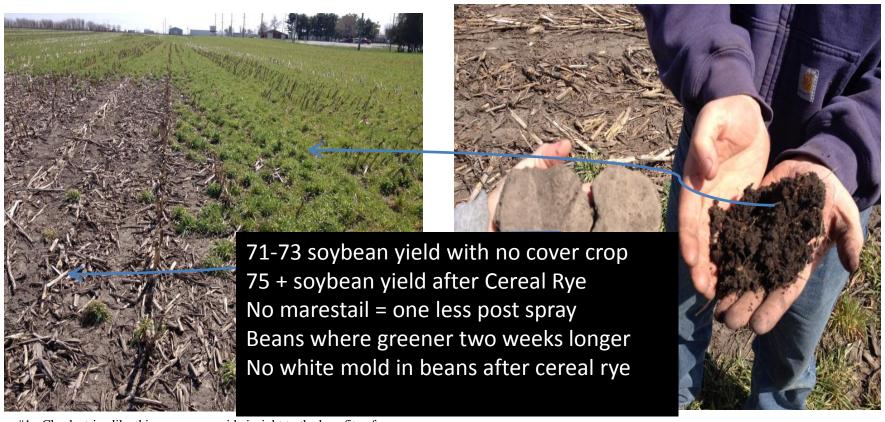
Wednesday, November 30, 2011

Devon's Family Restaurant, Rensselaer In

- 1. 7:15-7:30 am arrive and have breakfast
- 2. Dan Perkins: Cover Crop Fall 2011 Update and Soil Pits Report
- Local Farmer will talk about his farm operation, successes, failures, and questions
- 4. Question and Answer Time
- 5. Discussion: Barriers to conservation tillage use in this area? How do we change these?
- 6. Next meeting date, farmer to present and topic covered

East of Kentland, Indiana

Loam Soil Conventional Till after Seed Corn April 22,2014



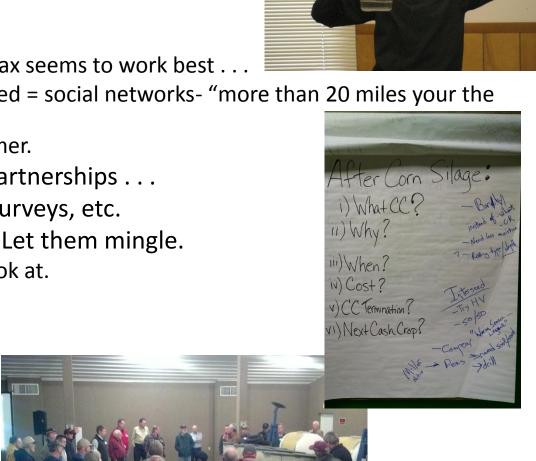
#1 - Check strips like this one can provide insight to the benefits of cover crops in just one season.

Your own Workshops

- Feed em
 - Breakfast, Lunch, 2 hours max seems to work best . . .

Spread throughout watershed = social networks- "more than 20 miles your the expert"

- Farmer Panel or bring a farmer.
- Relevant: Bring in experts, partnerships . . .
- Listen "Clickers", pre-post surveys, etc.
- Don't power point to death. Let them mingle.
 - Have equipment, stuff to look at.
 - Flip Chart activity
- Timing
 - August
 - Early December
 - Not Feb
 - March
 - Not April, May, June



Demonstration Plots



- Barry Fisher NRCS has sample layout
- Seed companies will provide seed and layouts

Just ask.

Try just spinning salong the edge of

Drilled after whea

Early August for d

Early September t



Large and Small Demo Plots







Start small Fall 2011 Cover Cr

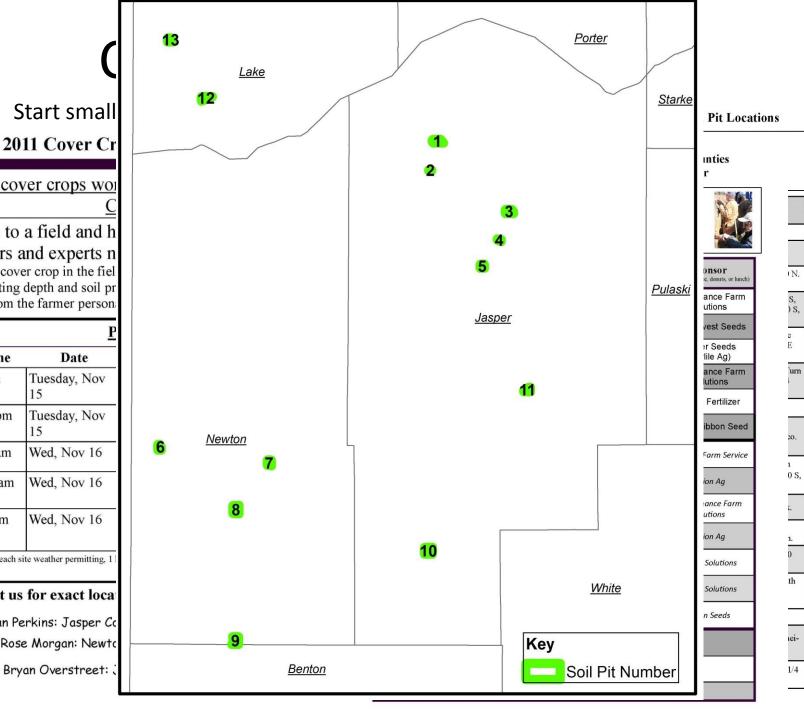
Are cover crops wor

Come to a field and h farmers and experts n See the cover crop in the fiel See rooting depth and soil pr Hear from the farmer person

Time	Date
10 am	Tuesday, Nov
1:30 pm	Tuesday, Nov
9:30 am	Wed, Nov 16
11:00am	Wed, Nov 16
1:30pm	Wed, Nov 16

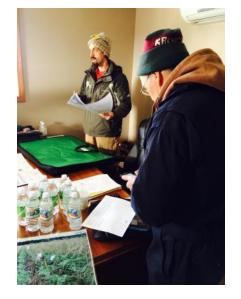
Contact us for exact loca

Dan Perkins: Jasper Co Rose Morgan: Newto



Cover Crop and Soil Digs

- Target
 - 1. First time cover crop users.
 - 2. Long term users
- Timing
 - Fall Pits: First to second week in November
 - Spring Pits: End of March to early April
 - Sponsors are listed to make use of their customer contacts.
 - 3 Pits in morning and 3 in afternoon works well.
- Farmer or Ag Company/Sponsor to dig pit.
 - 5 minutes before field visit is best.
 - Off end row- although compaction shows nicely.
 - Good established cover crop portion of field
- Dig pit no deeper than 4 feet.
- 1 hour at pit on nice day,
- 15 minutes if cold, have shop to go to visit.
 - Have large pictures of key concepts
 - Flip Charts for discussion





Planter/Combine Ride Along

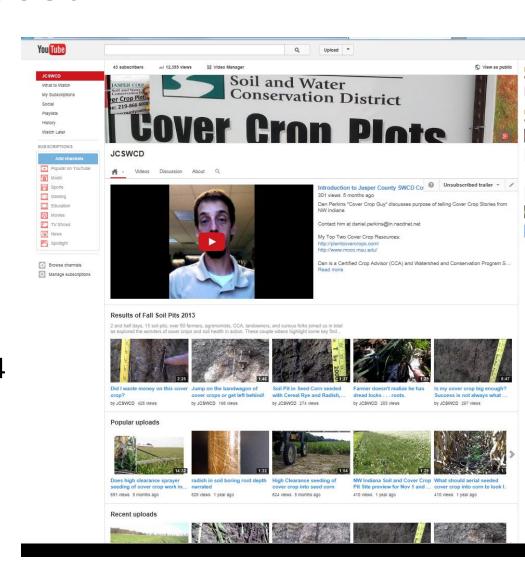
- Literally drive the country side at planting and harvest time.
 - Start with known farmers to get a feel for it.
 - Get referral if you can, make it convenient.
- Bring a small cooler with drinks and some snacks.
- Learn and ride and have a conversation.

PARP/Customer Meetings

- Extensions holds multiple meetings
 - Winter PARP meetings, etc.
 - Get invited, even if it is a 5 minute slot.
- Ag Businesses hold multiple meetings
 - Customer Appreciations
 - New Product Meetings
 - Often they are looking for a "non-sales" topic.
 - Field Days combine efforts

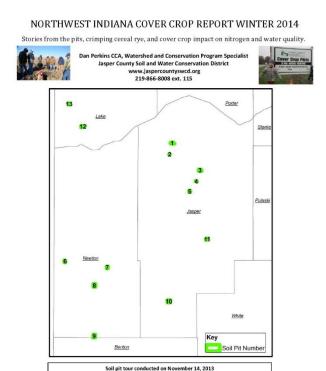
Social Media- use it, but make sure it is used.

- Cover Crop
 - You Tube Channel
- 83+ Videos
- 27,000 views since
 Feb 2012
- 8,529 views in 2013
- 8,851 views since Jan 2014
- 400-900 views per video



Reports

- Annual Cover Crop Stories
- This becomes your summary record.
- Key stories to tell.
- Pdf available for download.



Challenges.

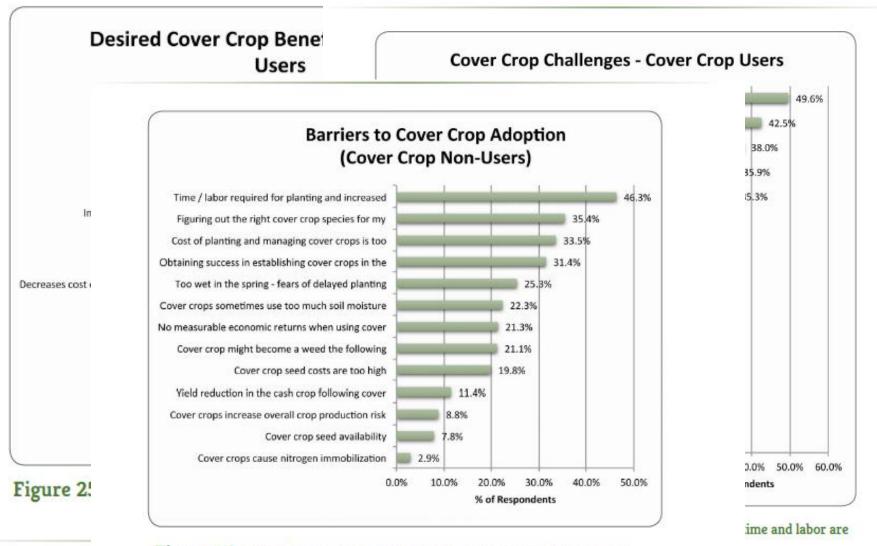


Figure 28. Time/labor was the top barrier for non-users of cover crops, followed by concerns over making good choices of cover crop species.

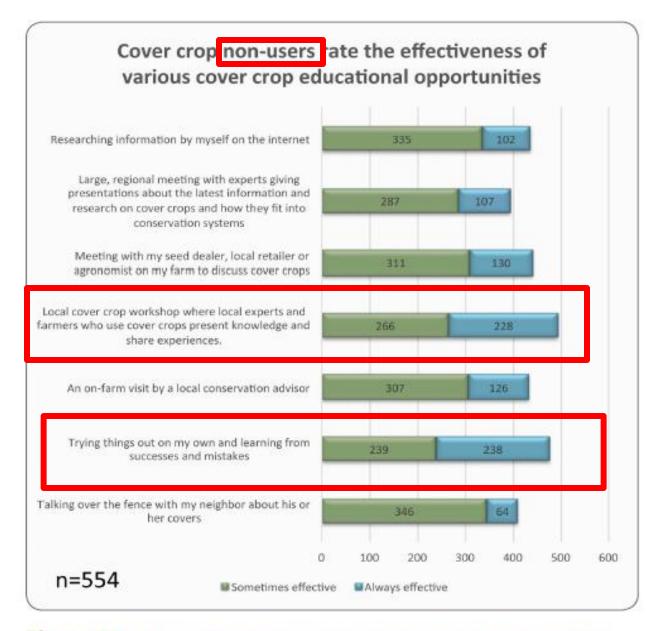


Figure 32. Like cover crop users, non-users rate personal experimentation highest when assessing learning opportunities.

Let them sell it.

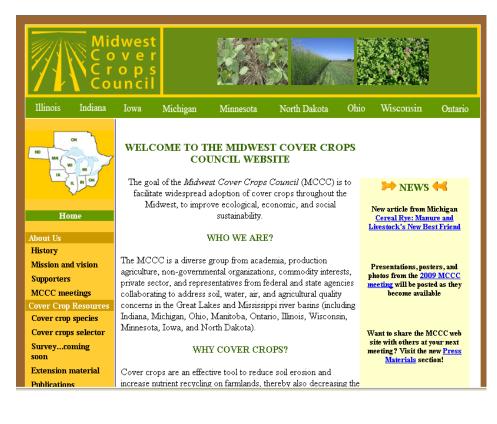
Nov 2, 2010: North of Demotte, IN.

The value of digging a soil pit was made evident, <u>after seeing 24 inches</u> of root depth into and through compacted layers by late fall.

Farmer quote: "I ripped and used cover crop and had spots I just ripped. The cover crop and ripping had no ponding, where as the just ripped parts of the field did have ponding. I was sold on cover crops!"



Resources



- www.mccc.msu.edu
- www.plantcovercrops.com
- www.covercrops.msu.edu
- JCSWCD "Cover Crop Guy" You tube Channel

Questions

"How societies fare in the long run depends on how they treat their soils and water. Simple. Concise. You are your water and dirt."

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219-869-5831