

Indian Creek Project 12/4/13



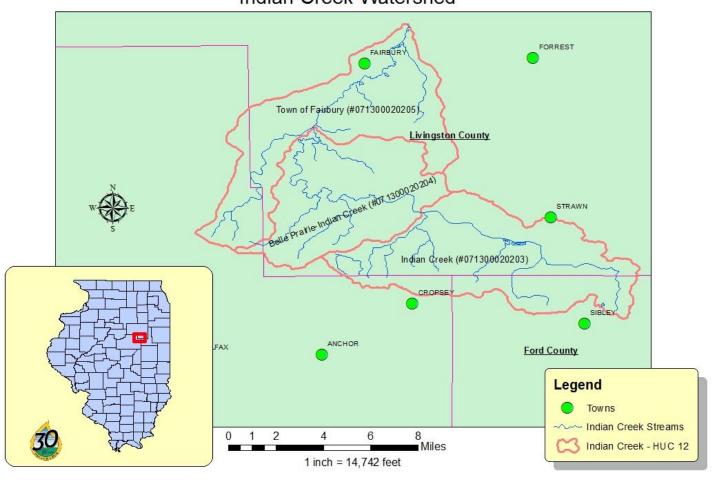
Livingston County, IL





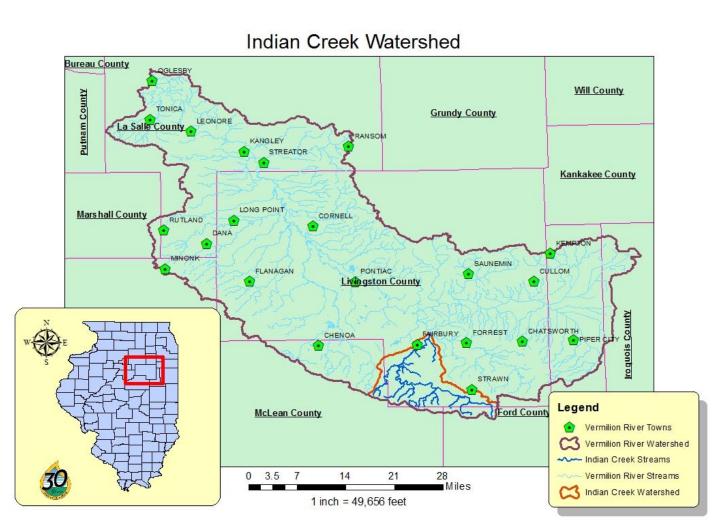
Project Overview

Indian Creek Watershed



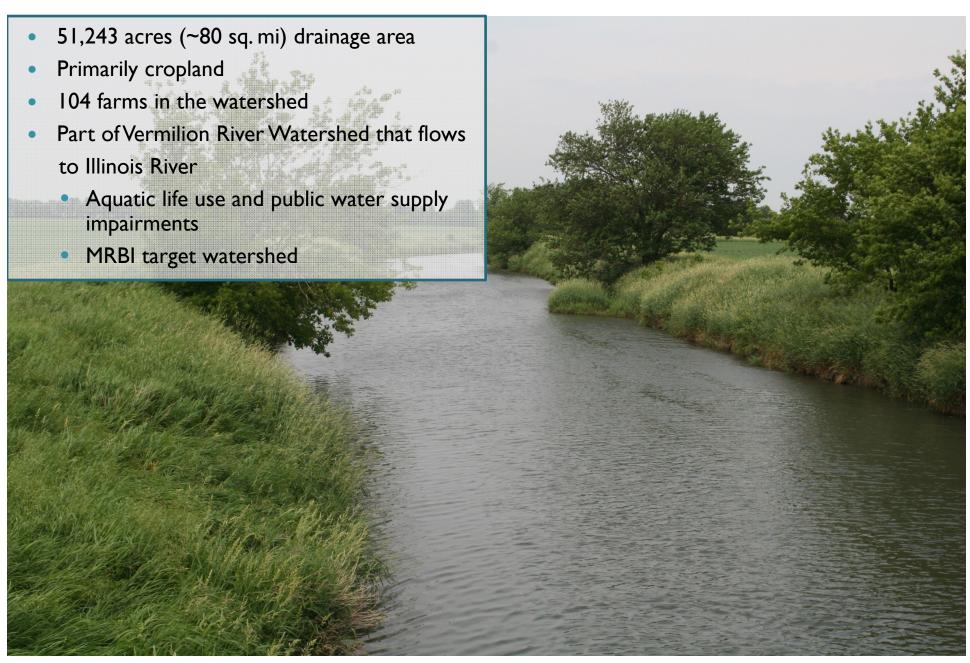


Indian Creek - Overview





INDIAN CREEK WATERSHED



Indian Creek

- Drinking Water Source Protection
 - Reduce nitrogen amounts in the Vermilion River
 - N amounts in Vermilion River exceed the drinking water standard of 10 mg/l
 - Cities of Pontiac and Streator use the Vermilion River as a drinking water source
- Nutrient Use Efficiency
 - Efficiently using applied nutrients to feed the crop and minimize losses to the environment

Evolution of the Project

- CTIC 319 Grant Vision
- Partner Meeting Picking a Watershed
 - IL EPA, NRCS, IL Dept. of Ag., IL Assoc. of SWCDs
 - Input from others
- Why Indian Creek?
 - Strong local partner
 - Community interested and engaged
 - Impairments addressed by nutrient strategies



Indian Creek Project – 319 Grant







Livingston County Soil & Water Conservation District Partners:

- CTIC
- Illinois EPA
- Livingston County SWCD
- Illinois NRCS
- Industry Partners / Sponsors

CTIC 319 Efforts



 Determine water quality impacts that result when 50% of farms and acres in watershed adopt conservation systems

Indian Creek Project - MRBI

Partners:

- Livingston County SWCD
- Illinois NRCS
- CTIC
- Illinois EPA





Livingston County

Soil & Water Conservation District



- Improve water quality throughout watershed
- Decrease soil erosion and sediment
- Maintain and enhance wildlife
- Maintain small- to medium-size farming operations







MRBI Funding

SWCD
MRBI
Efforts

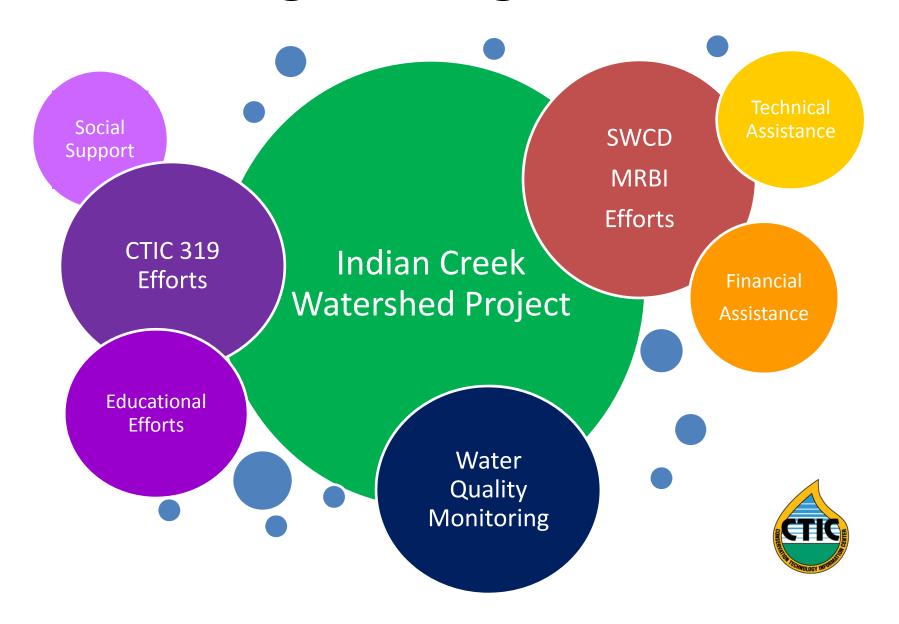
Financial
Assistance

Assistance

- Funding targeted to Indian Creek
 - Environmental Quality IncentivesProgram (EQIP)
 - \$50,000 Annually
 - Conservation Stewardship Program (CSP)
 - \$200,000 Years 1 and 2
 - \$100,000 Years 3 and 4
 - \$50,000 Year 5



Fitting it all together

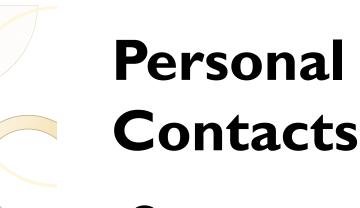


Steering Committee

- Participants
 Identified
 - Past cooperator
 - Interest in conservation
 - Various walks of life
 - Personal Invitations
- Seek and act on their input
- Keep members engaged







One-on-one visits with all 104 producers



- Discuss conservation systems
- Offer financial assistance
- Conduct perception survey
 - Water quality, pollutants and attitudes



Winter Meetings

- Promote to watershed and beyond
- Attendance
 - I00+ per meeting
- Timely topics including:
 - Soil health / Cover crops
 - Financial assistance programs
 - Producer panel discussions
- Outcomes
 - Increased awareness

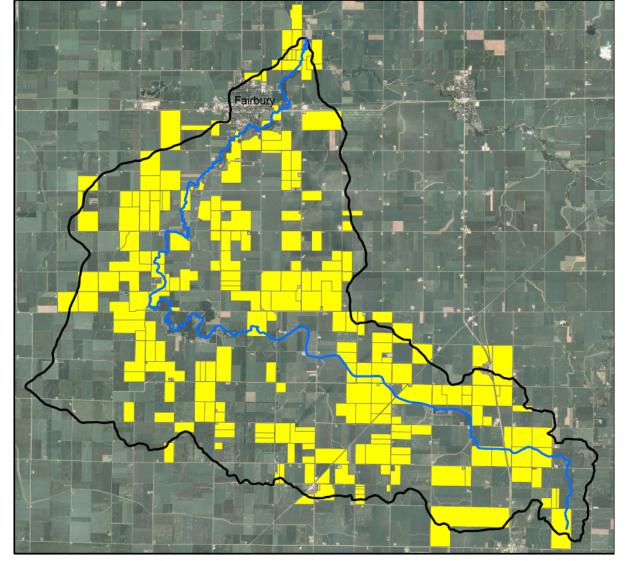


Indian Creek by the numbers...

100%	of farmers contacted (104 Farms)	
55%	of producers enrolled in programs	
47%	of farmland currently enrolled in conservation programs (CSP)	
150+	attended 2012 summer field tour	
250+	attended CTIC Conservation in Action tour	
20+ac nutrient-use efficiency plots		
14	Active sponsors showcasing products, technologies and equipment	

Indian Creek Conservation Stewardship Program (CSP) Coverage

47% of the watershed area is enrolled in CSP





Demonstrations and Nutrient Use Efficiency Plots

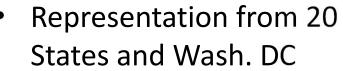
- 2011 Demonstrations 3
- 2012 Demonstrations 7
- 2013 Demonstrations 13
 - Nitrogen use
 - Field trials evaluating 4-Rs of nutrient stewardship
 - Right time, right source, right place, right rate
 - Cover Crops
 - Controlled Drainage





2013 CIA Tour

- National Tour held in Indian Creek
- 285 Attendees



- 32 Speakers
- 30+ volunteers
- Tour stops
 - o Soil Health
 - o Nutrient Mgmt.
 - o Drainage Water Mgmt.







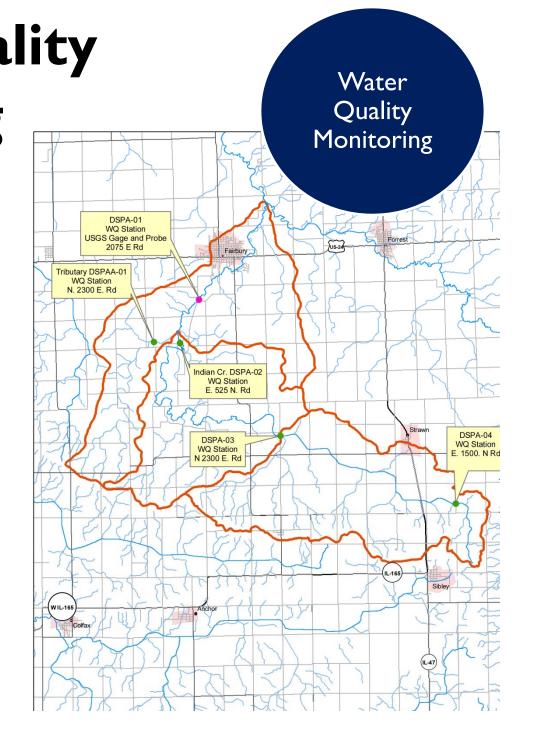






- USGS stream gage installed July 2011 at watershed outflow to collect
 - Stage levels
 - Discharge
- Continuous nitrate+nitrite sensor installedSept. 2011







Water Monitoring

Water Quality Monitoring

- March June
 - Weekly "grab" samples
 - Nitrate
 - Monthly Samples
 - Total phosphorous
 - Total suspended solids
- July February
 - Monthly "grab" samples
 - Total phosphorous
 - Total suspended solids
 - Nitrate nitrite



Physical water quality information is also being collected via a water probe – Temperature, Dissolved Oxygen, pH, etc.



- Good things don't just happen overnight
 - Must be patient
- Strong local champion
- Give producers a real voice
 - ... and listen to that voice!
- Leveraging partnerships and resources
 - You don't have to bring everything to the table for the project to be successful



Community

 The more "community" you create around your watershed effort, the more local buy-in, more impact, more success



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