

WATERSHED DESCRIPTION

- ON THE IOWA DNR 303(D) IMPAIRED WATER LIST DUE TO BACTERIA LEVELS 5.5 TIMES THE STATE CRITERION.
- 22,410 ACRE WATERSHED
 - 13,104 - HOWARD COUNTY
 - 9,306 - WINNESHEIK COUNTY
- CONTAINS AN 8.2 MILE SEGMENT THAT IS CLASSIFIED AS CLASS A), CLASS B (WW-2) RIVER.

PROJECT GOAL:

REDUCE BACTERIA LEVELS

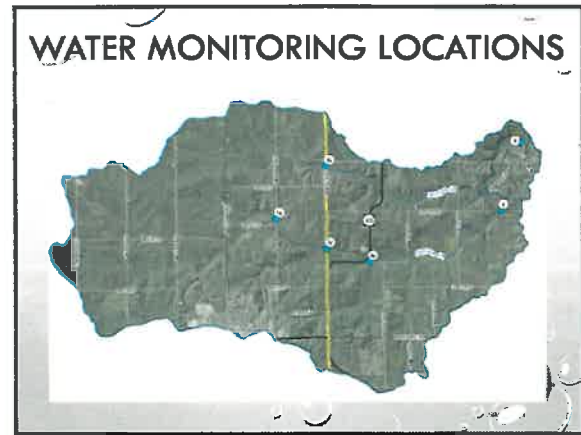
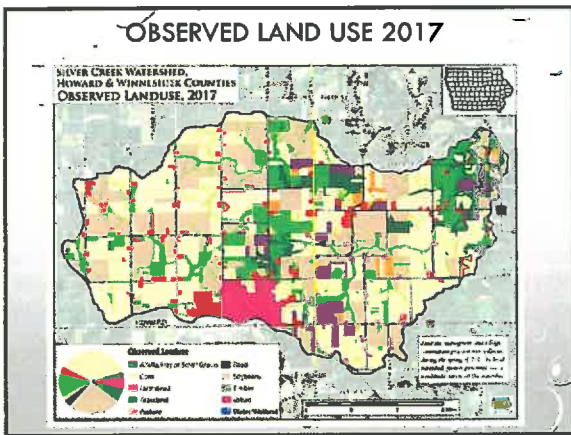
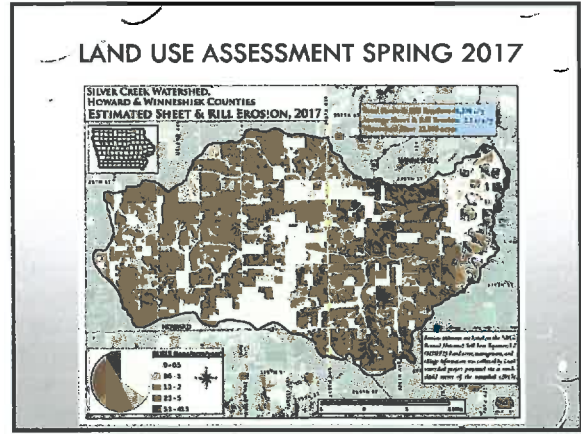
12 OBJECTIVES

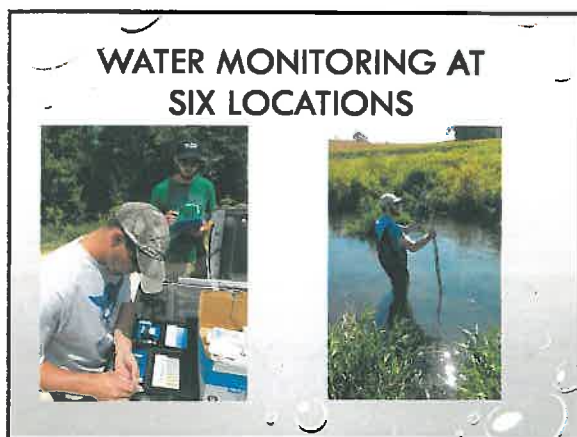
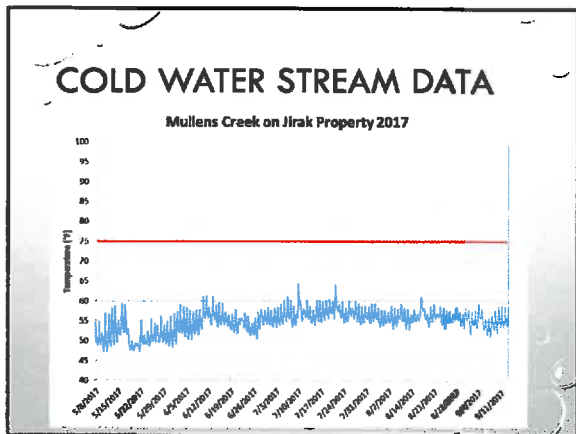
- 1) ASSESS THE WATERSHED/ESTIMATE CURRENT LOADS.
- 2) COMMUNICATE WITH LANDOWNERS/OPERATORS.
- 3) COMPLETE RASCAL ASSESSMENT.
- 4) HOLD REGULAR ADVISORY BOARD MEETINGS.
- 5) CONDUCT WATER MONITORING.
- 6) HOLD FIELD DAYS.
- 7) ESTABLISH POTENTIAL BMP'S.
- 8) DESIGN GIS MAPS.
- 9) UPDATE LANDOWNER INFORMATION.
- 10) DEVELOP PROJECT WEBSITE.
- 11) IMPLEMENT WATERSHED MANAGEMENT PLAN.
- 12) MAINTAIN A PHOTO JOURNAL OF PROJECT

TIMELINE

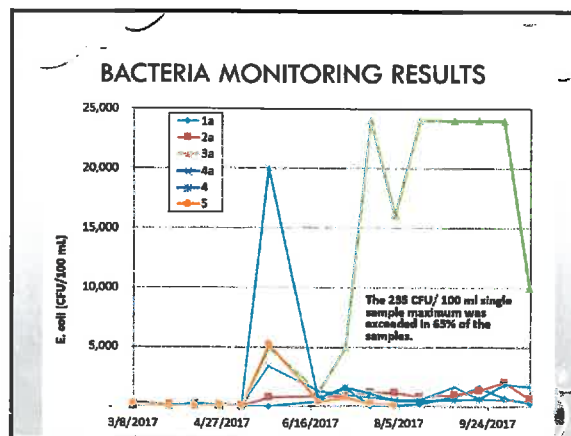
- 2010 Planning Grant Awarded
- 2011 Assessments Begin
- 2011-2012 Writing of WMP
- 2012 TMDL for Bacteria
- 2012 RASCAL
- 2012 Interim Funding Approved
- 2012 WMP Approved
- 2012 Implementation Grant Awarded
- 2013 Project Start - DNR funding
- 2014 Year 1 Implementation
- 2015 Year 2 Implementation
- 2016 Year 3 Implementation
- 2017 Year 4 Implementation
- 2017 Second Land Use Assessment Completed
- 2018 Year 5 Implementation

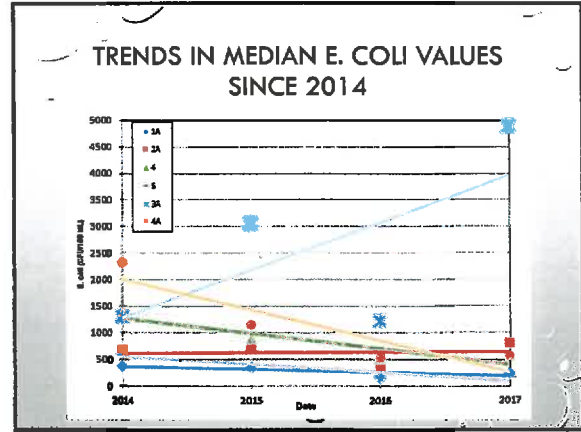
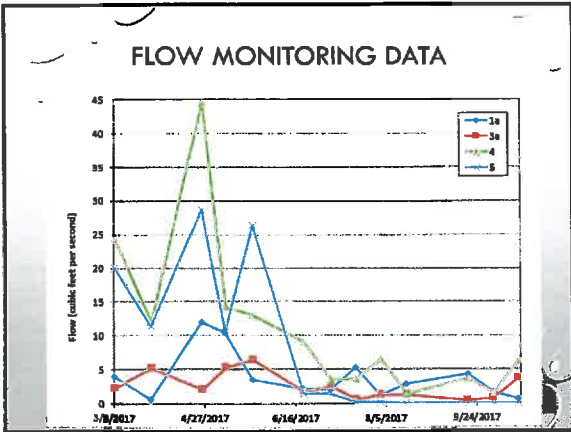
ASSESSMENTS





- ### MONITORING PARAMETERS IN FIELD
- NITRATES
 - PH
 - WATER TEMPERATURE
 - TURBIDITY
 - CHLORIDE
 - AMMONIA

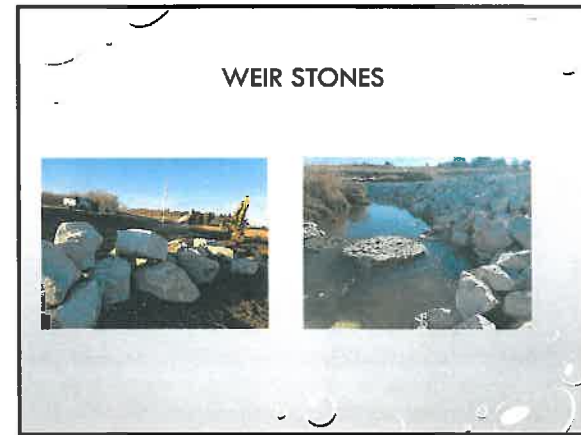
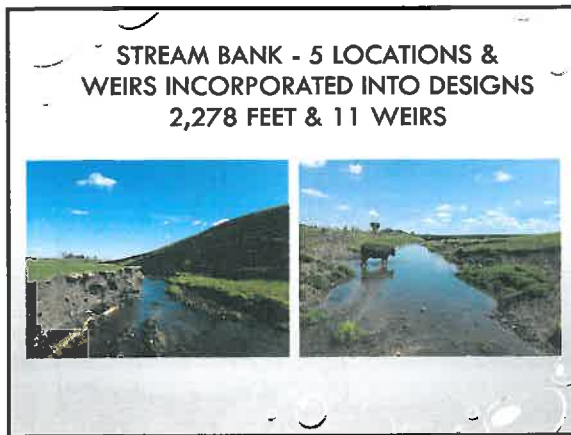




DALCI EQIP

DRIFTLESS AREA LANDSCAPE CONSERVATION INITIATIVE
ENVIRONMENTAL QUALITY INCENTIVE PROGRAM
STREAM BANK & VORTEX WEIRS

- 5 SITES
- \$119,124.00
- 100% INCENTIVE



STREAM BANK & VORTEX WEIRS 2017



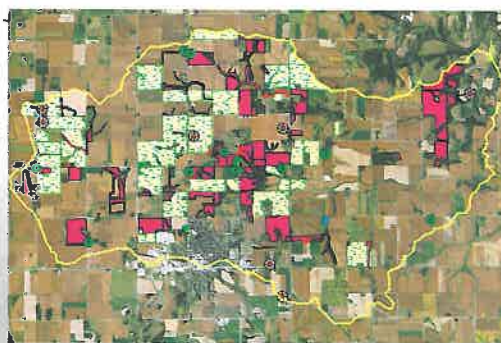
STREAM BANK & VORTEX WEIRS 2017



STREAM BANK & VORTEX WEIRS 2017



BMPS INSTALLED TO DATE



84 PRACTICES FY17

- 28 - CRP NATIVE COVER - 459.3 AC.
- 13 - GRASSED WATERWAYS - 24.7 AC.
- 1 - WETLAND RESTORATIONS - 4.5 AC.
- 20 - COVER CROPS - 3,181.2 AC.
- 14 - CSP CONTRACTS - 5,398 AC.
 - 2 - CNMP
 - 6 - SEPTIC SYSTEMS

55 PRACTICES FY18

- 4 - CRP NATIVE COVER - 28.1 AC.
- 7 - GRASSED WATERWAYS - 6.7 AC.
- 1 - WETLAND RESTORATION - 20.0 AC.
- 18 - COVER CROPS - 2,391 AC.
- 14 - CSP CONTRACTS - 5,398 AC.
 - 2 - AG WASTE PROJECTS
 - 1 - CNMP
 - 4 - SEPTIC SYSTEMS
 - 2 - EQIP ENERGY AUDITS
 - 2 - EQIP STREAMBANKS

AG WASTE STRUCTURES

COMPLETED TO DATE

6 – MANURE STORAGE SYSTEMS

FUNDING SOURCES: EQIP, 319 & WIRB

2 NEW EQIP/319 CONTRACTED FY18

1 NEW EQIP APPLICATION FOR FY18

AG WASTE STRUCTURES

2 SITES UNDER CONSTRUCTION IN FY18

EQIP FUNDING = \$605,853.00

IA DNR SECTION 319 = \$120,000.00


SRF LOANS = \$809,679.00

TOTAL PROJECT COSTS = \$1,529,944.00

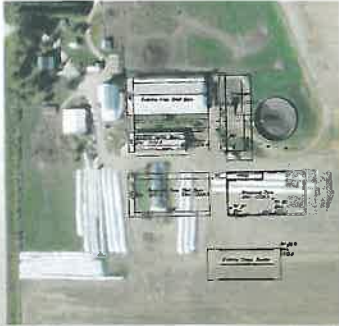
AG WASTE STRUCTURES

SITE 1 - 250 HEAD DAIRY

ELIMINATION OF ALL OPEN LOT



SITE 2 - 250 HEAD DAIRY 2 RAMPED MANURE PITS



PRACTICE FUNDING SOURCES

IA DNR SECTION 319

EQIP, CRP & CSP

WIRB

WSPF, IFIP, SRF & WQI

LAND OWNERS

PROJECT DOLLARS EXPENDED

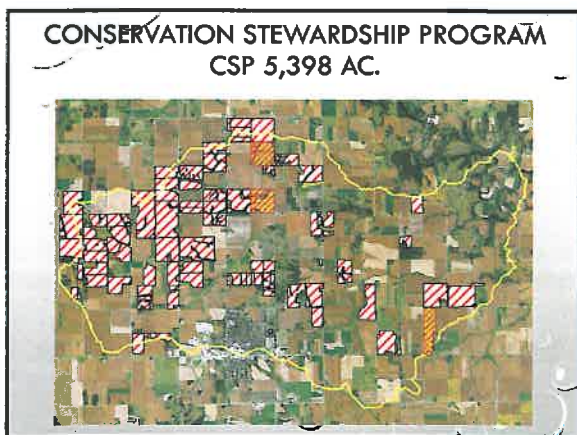
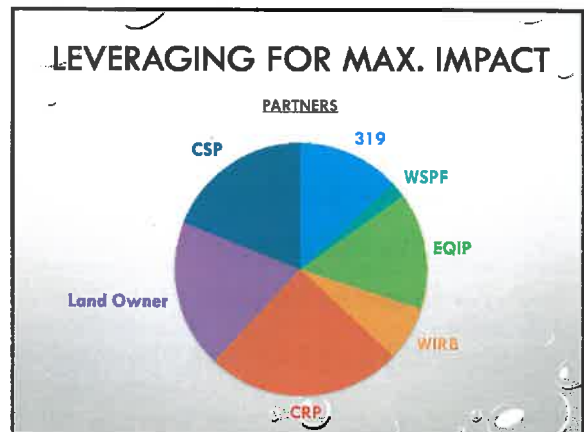
- 319 - \$461,506.00
- WSPF - \$92,356.00
- WIRB - \$178,600.00
- EQIP - \$553,664.00
- CRP - \$948,999.00
- CSP - \$448,307.00
- LAND OWNER - \$560,671.00
- TOTAL TO DATE: \$3,267,127.00

LEDGER SUMMARY

Project: Shoof Creek Water Quality Project District: General Soil and Other Conservation District

SWP Funding by Program

Cost Share Program	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Totals	% of Total
SWP	110,000.00	110,000.00	110,000.00	110,000.00	110,000.00	110,000.00	110,000.00	110,000.00	880,000.00	100%
WSP	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	80,000.00	9%
WVP	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	80,000.00	9%
WAP	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	80,000.00	9%
WIP	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	80,000.00	9%
WOP	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	80,000.00	9%
WSP	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	80,000.00	9%
WVP	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	80,000.00	9%
WAP	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	80,000.00	9%
WIP	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	80,000.00	9%
WOP	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	80,000.00	9%
WSP	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	80,000.00	9%
WVP	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	80,000.00	9%
WAP	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	80,000.00	9%
WIP	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	80,000.00	9%
WOP	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	80,000.00	9%
Totals	140,000.00	140,000.00	140,000.00	140,000.00	140,000.00	140,000.00	140,000.00	140,000.00	1,120,000.00	100%



SEPTIC SYSTEM UPGRADES

319 FUNDING BEGAN
50% COST SHARE
TO DATE: 6 COMPLETED
5 NEWLY APPROVED APPLICATIONS
COUNTY SANITARIANS WILL CERTIFY



DALCI EQIP

DRIFTLESS AREA LANDSCAPE CONSERVATION INITIATIVE
ENVIRONMENTAL QUALITY INCENTIVE PROGRAM
COVER CROPS

- 13 CONTRACTS
- NEARLY 2,000 ACRES
- \$529,715.00 OVER 5 YEARS

DALCI COVER CROP ANNUAL PAYMENT


- 2017 - \$164,915.00
- 2018 - \$140,933.00
- 2019 - \$135,569.00
- 2020 - \$83,863.00
- 2021 - \$82,115.00

**COVER CROPS
\$70+ /AC.
MULTI-YEAR**



Up to 5 year
commitment
Targeted Silage
Acres+

**3,181 AC. COVER CROP SEEDED IN
2018**



**CRITICAL AREA NATIVE PRAIRIE
ESTABLISHMENT**




129 CRP CONTRACTS

**CRP NATIVE SEEDING
ESTABLISHED**

2,285

Acres

- CP42
- CP38
- CP21
- CP33



NATIVE HABITAT PARTNERS



SOIL HEALTH FIELD DAY



ELECTED OFFICIAL OUTREACH



Secretary Northey @
CDI Annual Meeting in
Altoona & Tour of
Howard County
Fairgrounds

PRACTICE TOUR WITH LEGISLATORS



PRODUCER INTERVIEW KIMT TV3 NEWS



OUTREACH TO WOMEN LANDOWNERS

TO DATE 33 WOMEN LANDOWNERS IN THE
WATERSHED HAVE ADOPTED PRACTICES ON THEIR LAND.



PUBLICITY @ IFBF ANNUAL MEETING & MAGAZINE FEATURE



PROMOTIONAL OPPORTUNITIES



**The Mighty
Howard County
Fair**

Iowa Water
Conference
Iowa State University



DISPLAYS & PRESENTATIONS

UPPER IOWA RIVER PHEASANTS FOREVER
TURKEY RIVER PHEASANTS FOREVER
HOWARD COUNTY FAIR
IOWA WATER CONFERENCE ISU
TURKEY RIVER WMA
ARBOR DAY & NATURAL RESOURCES DAYS

DISPLAYS & PRESENTATIONS

CRESCO KIWANIS CLUB
HOWARD COUNTY HISTORICAL SOCIETY
HOWARD COUNTY FARM BUREAU WOMEN
RETIRED TEACHERS OF HOWARD/MITCHELL
NORMAN BORLAUG FARM PRESENTATION
HOWARD COUNTY SUPERVISORS
HOWARD COUNTY FARM BUREAU
CRESTWOOD ENVIRONMENTAL STUDIES CLASSES
RICEVILLE KIWANIS

PC TRAINING OPPORTUNITIES

- NRCS CONSERVATION PLANNING
- NRCS SOIL HEALTH
- NRCS CNMP
- ISU EXTENSION SOIL ANALYSIS
- SOIL HEALTH FIELD DAYS
- NRCS CULTURAL RESOURCES
- IA DNR LAKE CONFERENCE OKOBOJI
- NRCS NATIVE PLANT IDENTIFICATION

TRAINING OPPORTUNITIES



Cover Crop
Field Day
Okoboji



Prairie Conference
Loess Hills



Tall Grass
Prairie Center
Plant ID
Madison Research
Center



Hitchcock Nature Center
Pottawattamie Co.



Way County DNR
Prairie Walk

TRAINING OPPORTUNITIES



ISU Watershed Academy
Boone



NRCS Karst Tour
Algal Ice Cave
Clayton Co.



NRCS Cultural Resources
Mississippi River



State PC Tour
Des Moines

