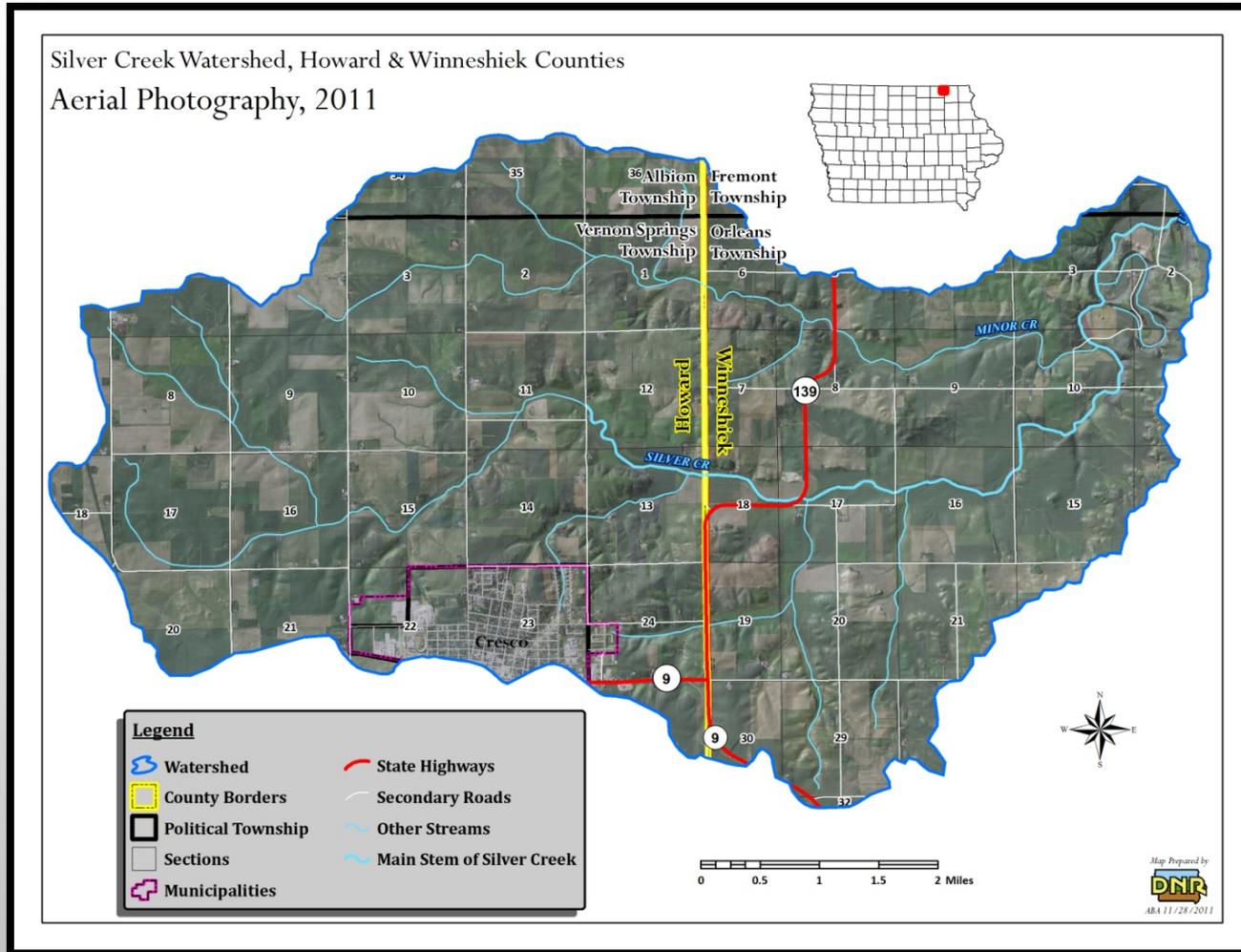




**ANNUAL REVIEW**  
**FEBRUARY 28<sup>TH</sup>, 2019**

# SILVER CREEK WATERSHED



"Our Creek, Our Watershed, Our Future"

# 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 - WINNESHIEK COUNTY
- CONTAINS AN 8.2 MILE SEGMENT THAT IS CLASSIFIED AS CLASS A1, CLASS B (WW-2) RIVER.

The background of the slide is a light gray gradient with several realistic water droplets of various sizes scattered across it. The droplets have highlights and shadows, giving them a three-dimensional appearance.

**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
- 2019 Year 6 Implementation

The background features a light gray gradient with several realistic water droplets of various sizes scattered across the top and bottom edges. The droplets have highlights and shadows, giving them a three-dimensional appearance.

# **SUCCESSSES & MILESTONES**

# FISH SURVEY MARCH 2018 ON MULLEN CREEK



# HAPPY LANDOWNER DICK JIRAK



# BROOK TROUT DOING WELL!



# IOWA DNR FISHERIES – DECORAH SECOND BROOK TROUT RELEASE MULLEN CREEK JUNE 2018

Releasing 1200  
Fingerlings



Weighing Brook Trout  
Mullen Creek 2018



# IOWA DNR FISHERIES – DECORAH BROOK TROUT RELEASE SILVER CREEK JUNE 2018

Releasing 1300  
Fingerlings



Landowner Evelyn  
Andresen & Teresa Shay  
Silver Creek 2018



# family living

celebrating iowa life

## RESTORING IOWA'S TROUT STREAMS

FARMERS, COMMUNITIES PARTNER TO  
SUCCESSFULLY IMPROVE TROUT HABITAT

PAGE 8

Follow the pioneers  
on a tour of Iowa's  
Old West sites  
page 4

New apple orchard  
takes root in SE Iowa  
page 7

Save at the gas pump  
with E15 ethanol fuel  
page 12

JULY 2011

**IFB** PEOPLE. PROGRESS. PRIDE.  
IOWA FARM BUREAU

FEATURE ARTICLE  
IN A STATEWIDE  
FARM BUREAU  
PUBLICATION

TROUT HAVE  
BROUGHT  
ATTENTION TO  
WATERSHED  
WATER QUALITY  
IMPROVEMENTS

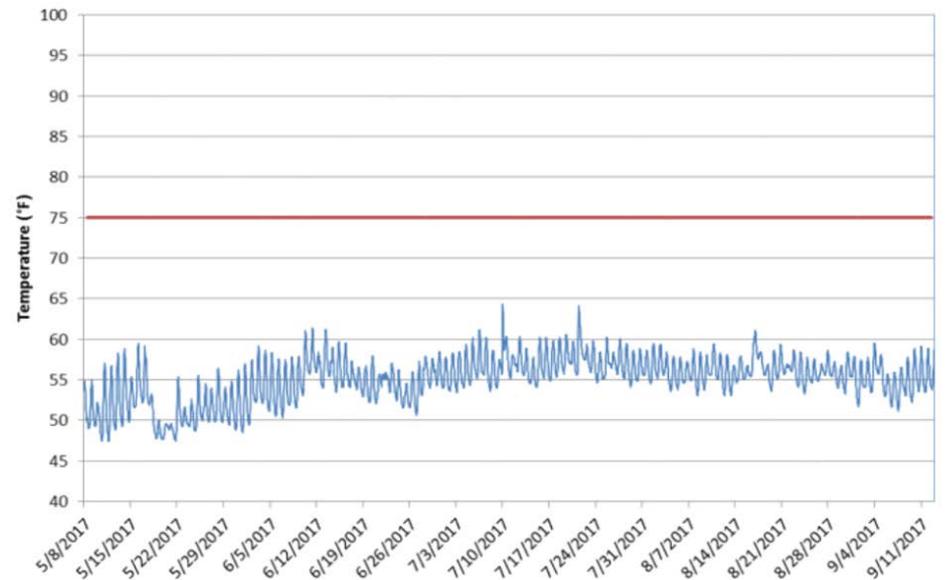
# WATER MONITORING @ 6 LOCATIONS



# WATER TEMPERATURE MONITORING 7 YEARS OF DATA



**Mullens Creek on Jirak Property 2017**



# MONITORING PARAMETERS IN FIELD

➤ NITRATES

➤ PH

➤ WATER TEMPERATURE

➤ TURBIDITY

➤ CHLORIDE

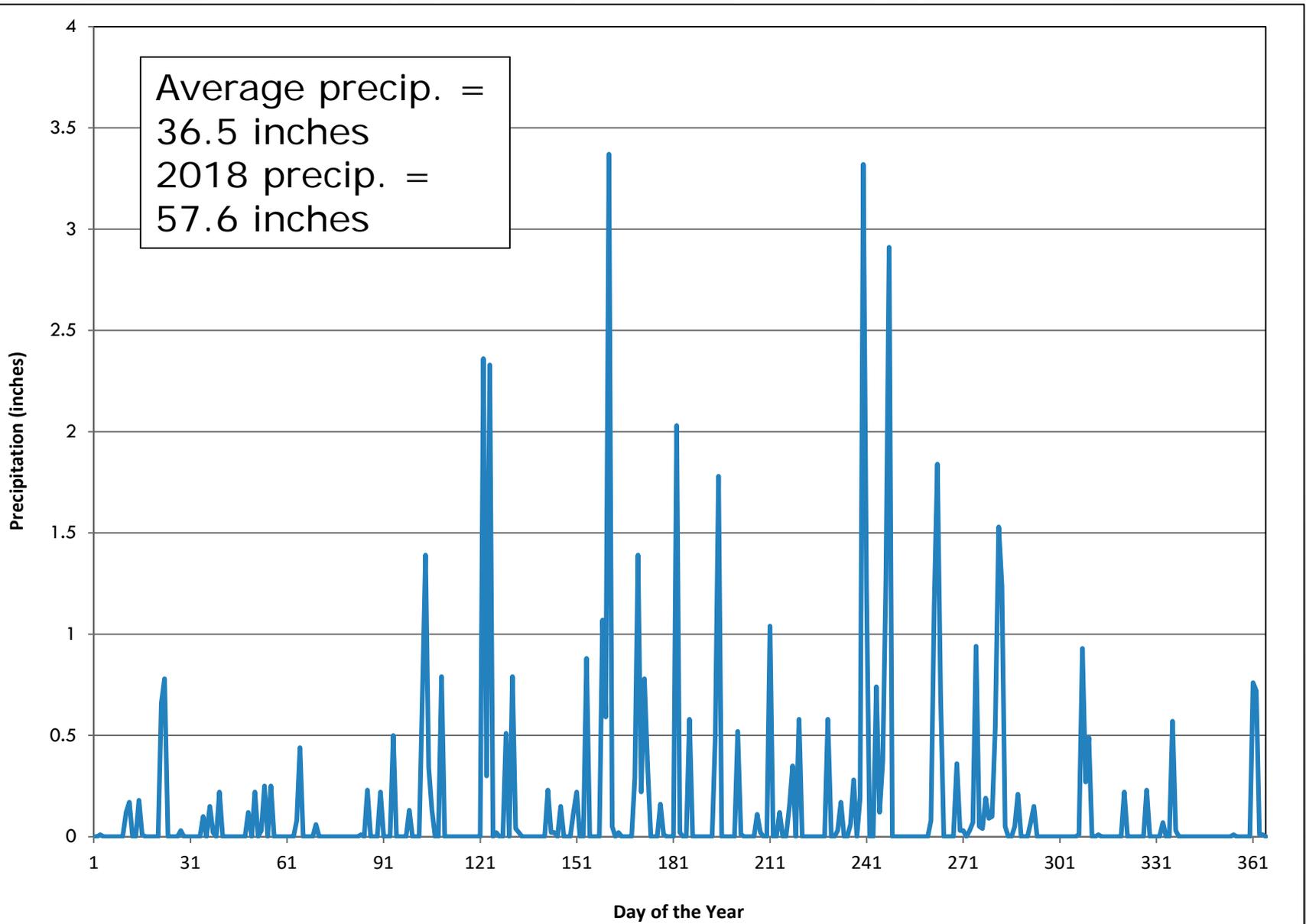
➤ AMMONIA

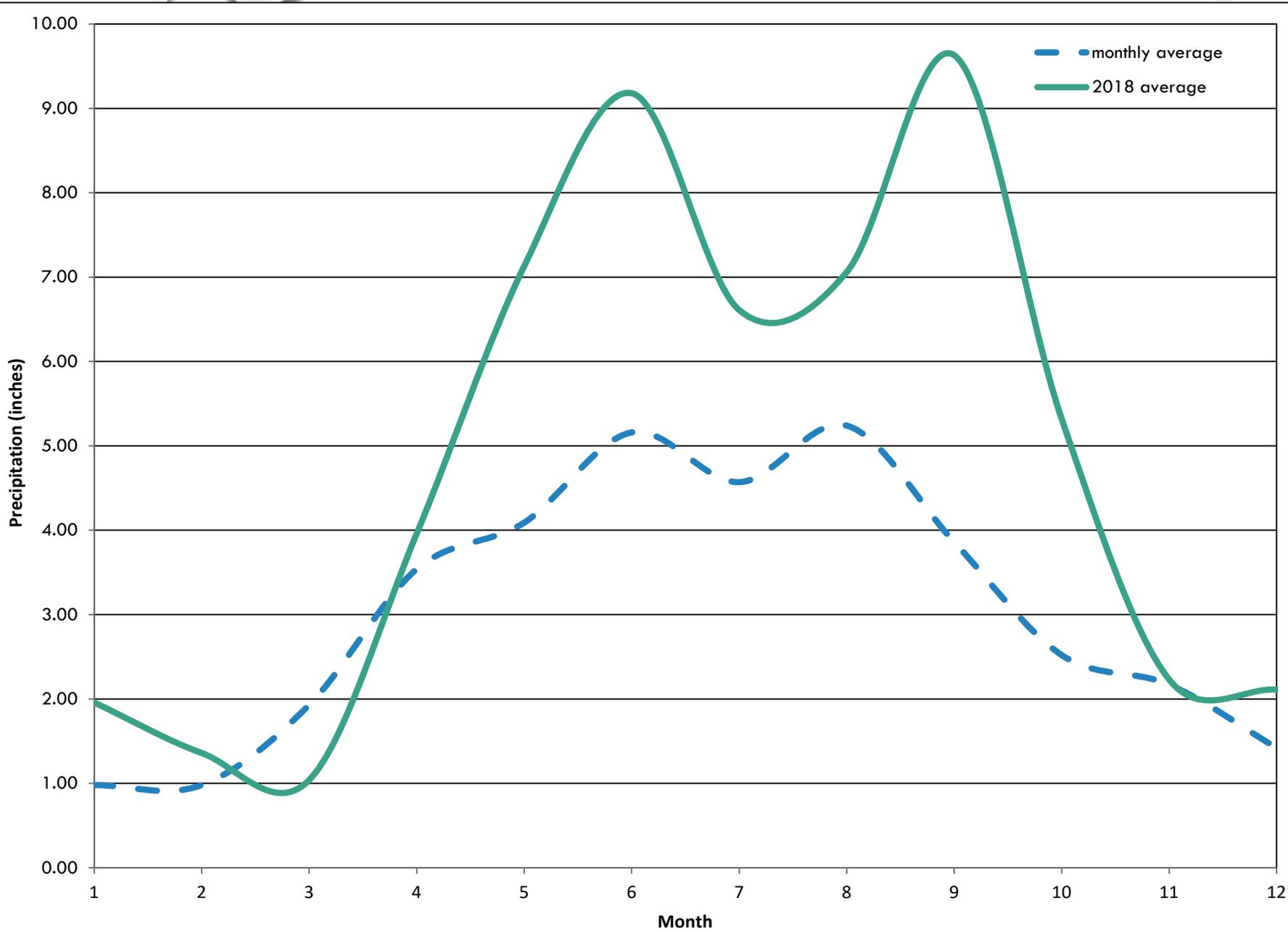


# IA DNR WATER MONITORING FLOW & BACTERIA

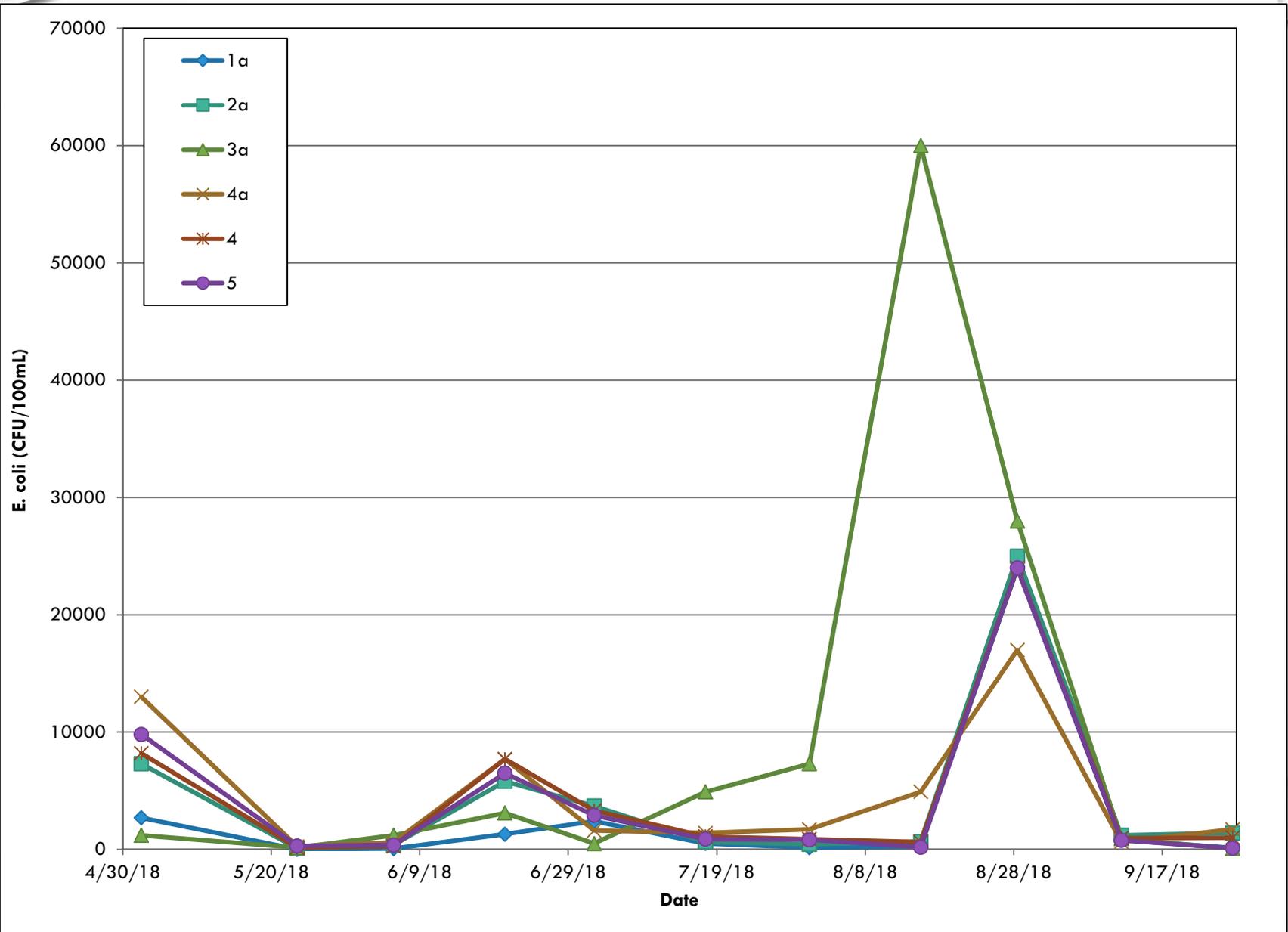


# 2018 PRECIPITATION



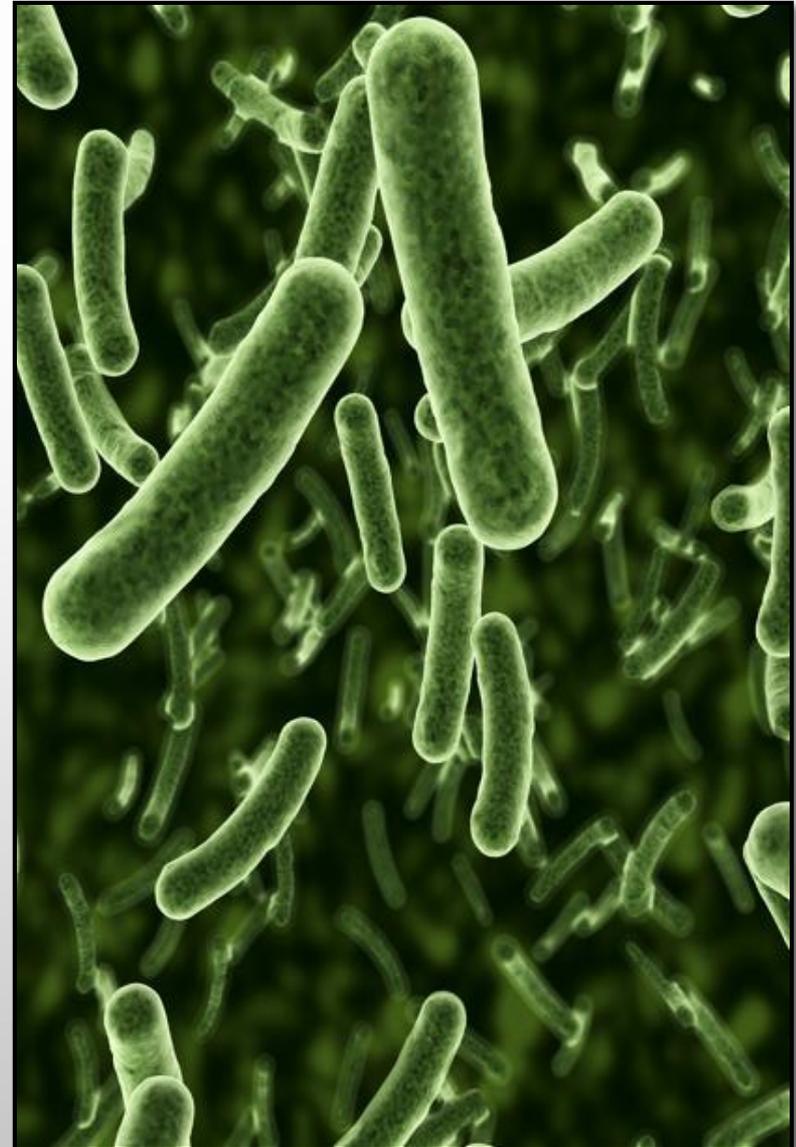


# E. COLI RESULTS

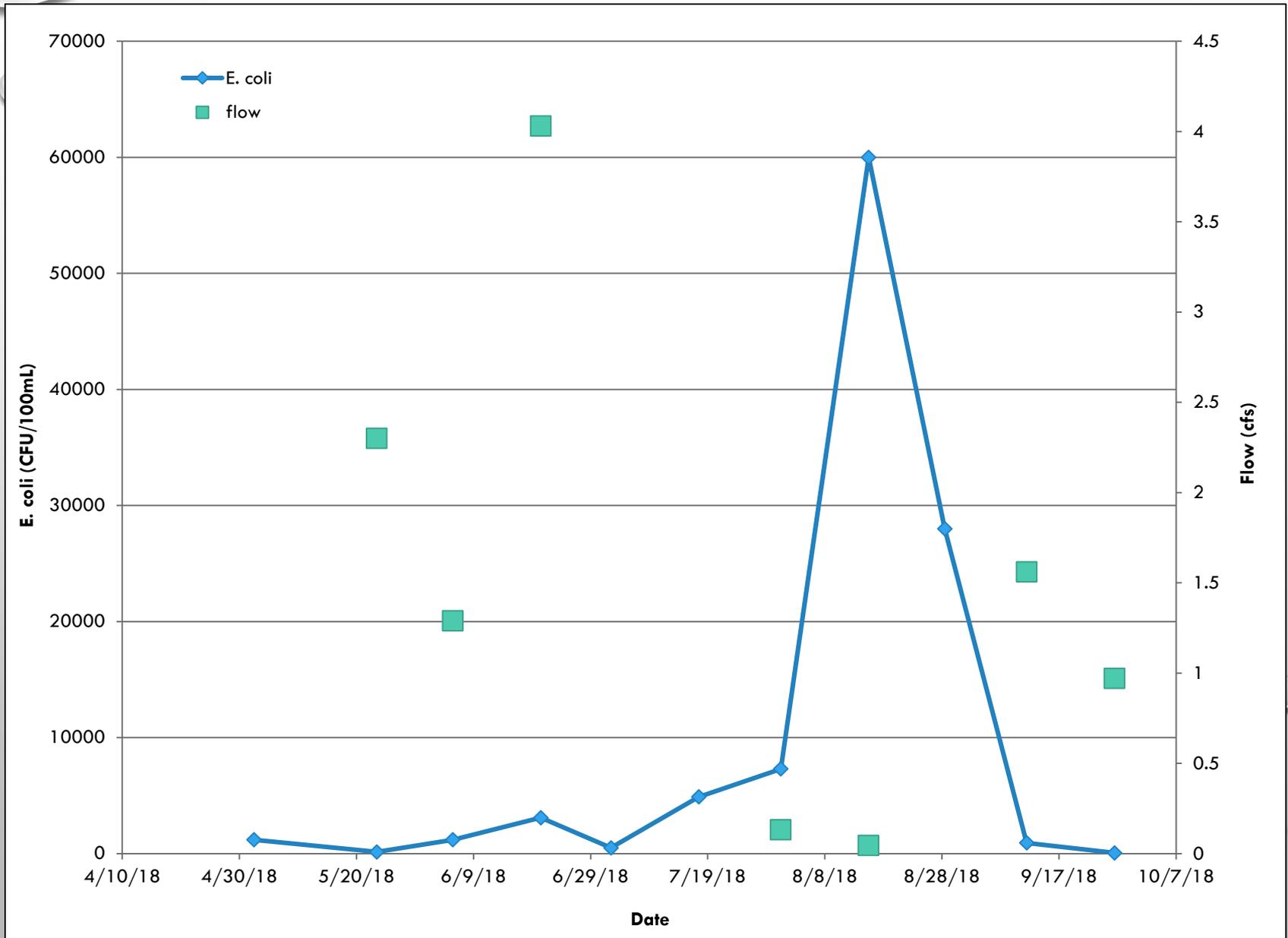


# *E. COLI* RESULTS

- EXCEEDED THE A1 RECREATIONAL STANDARD OF 235 CFU/100ML 86 % OF THE TIME IN 2018
- EXCEEDED THE A2 RECREATIONAL STANDARD OF GEOMETRIC MEAN OF 630 90% OF THE TIME IN 2018
- SITE 1A WAS THE ONLY ONE THAT HAD LEVELS THAT MET THE A2 STANDARD



# WHAT'S UP WITH SITE 3A (AGAIN)?



SAMPLES FOR SITE 3A ARE PULLED FROM THE STREAM WHERE IT EXITS THIS STRETCH OF OVER GRAZED/STOCKED PASTURE. IN 2017 WE CONTRACTED THIS STRETCH OF STREAM FOR 1,100' OF STREAM BANK STABILIZATION, 3 VORTEX WEIRS. THE CATTLE WILL BE FENCED OUT & A NATIVE GRASS BUFFER SEEDED ALONG ENTIRE LENGTH.



# MOUNTAINS OF RIP RAP 1,623 TONS



**NOVEMBER 2018 INSTALLATION OF  
1,100 FEET OF STREAMBANK  
STABILIZATION, 3 VORTEX WEIRS & 2  
STREAM CROSSINGS WAS  
COMPLETED.**





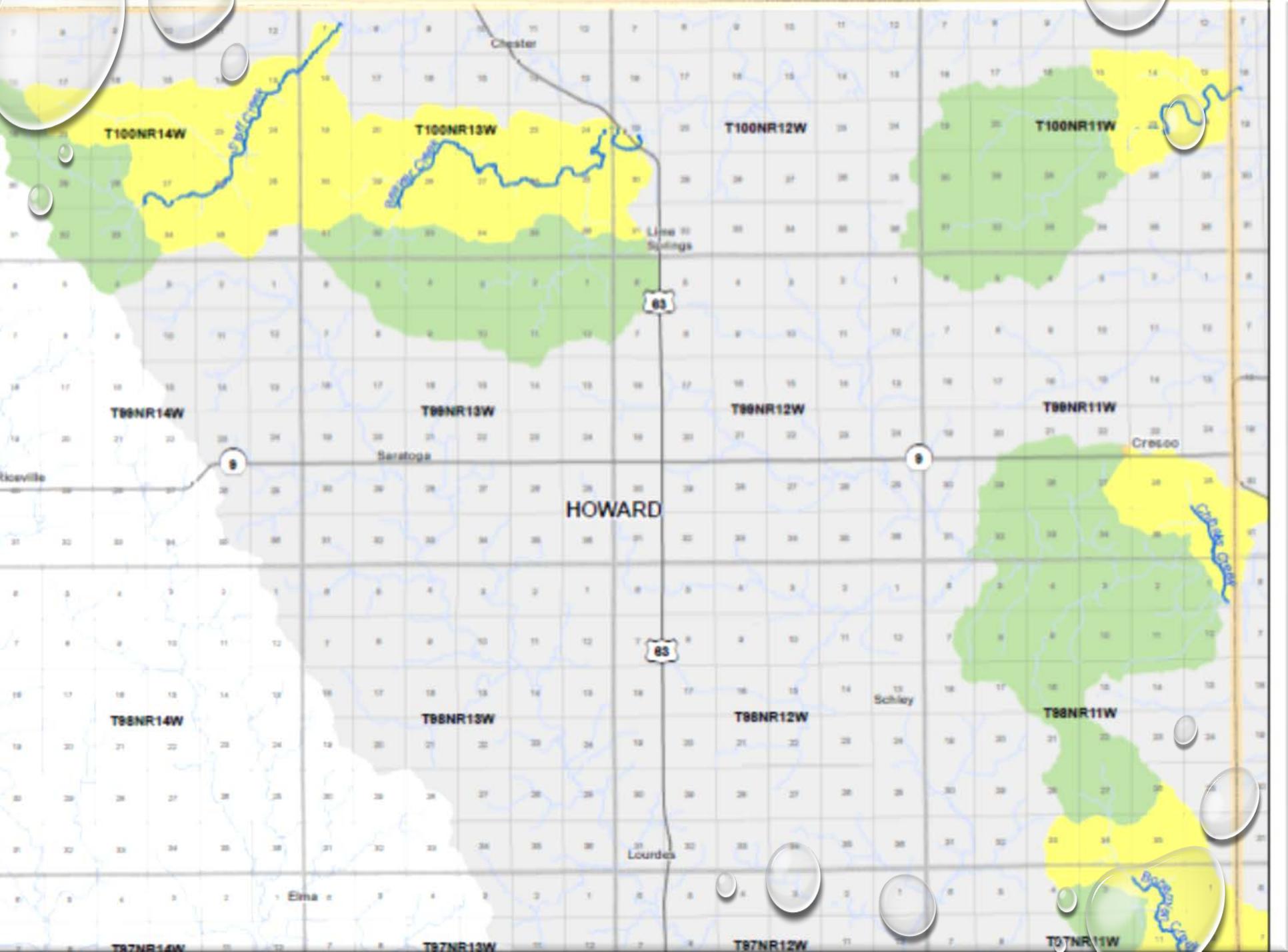
## STREAM BANK & VORTEX WEIRS

# PRACTICES INSTALLED



# DRIFTLESS REGION OPPORTUNITIES FOR RCPP





# **DALCI EQIP INSTALLED**

DRIFT-LESS AREA LANDSCAPE CONSERVATION INITIATIVE

ENVIRONMENTAL QUALITY INCENTIVE PROGRAM

STREAM BANK & VORTEX WEIRS

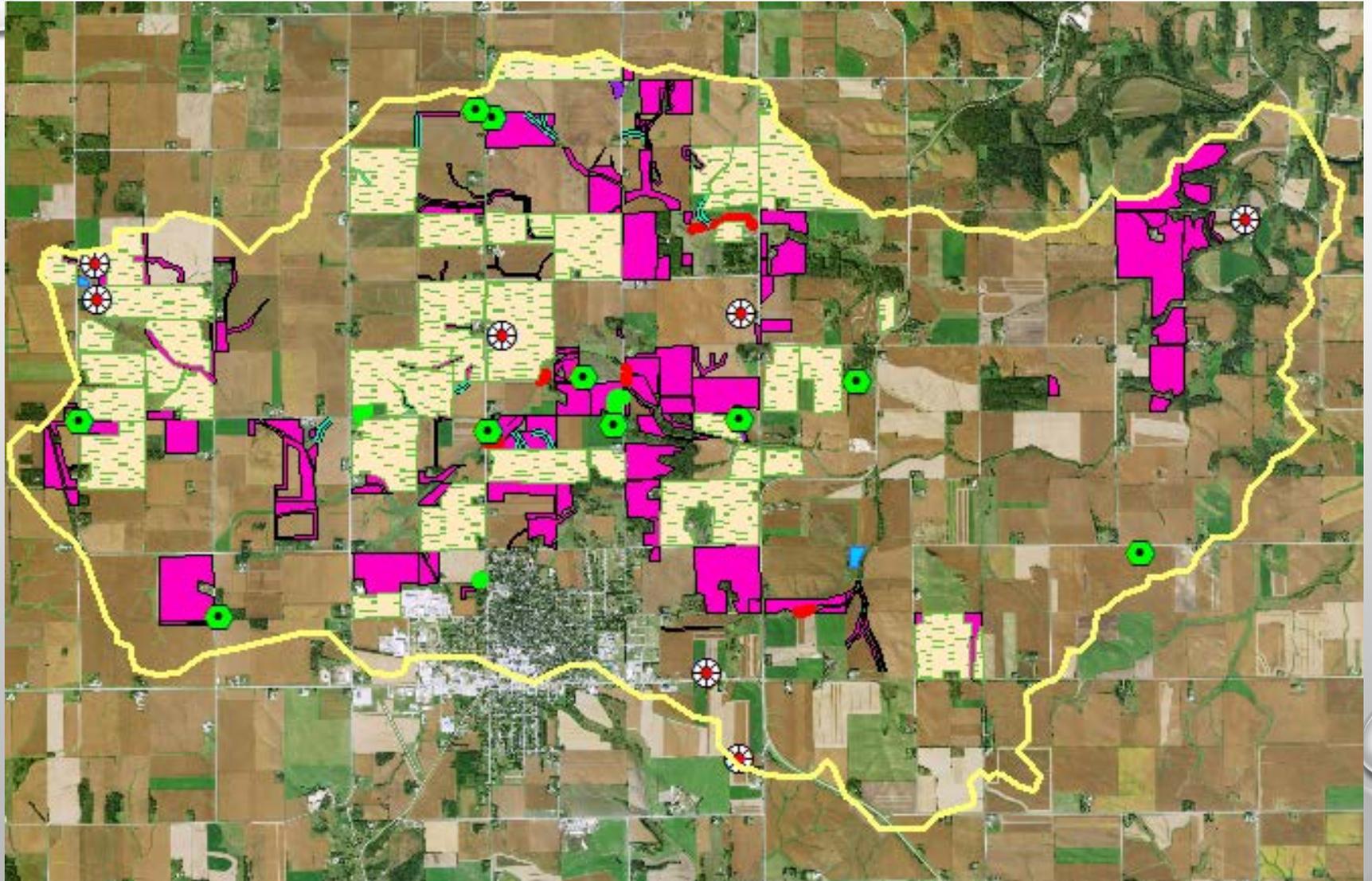
- **5 SITES – 2,278 FEET TOTAL**
- **11 VORTEX WEIRS**
- **\$119,124.00**
- **100% INCENTIVE**

# 2019 EQIP STREAMBANK PROJECTS

- 3 SITES IN HOWARD
- 4 SITES IN WINNESHIEK
- SURVEYS COMPLETED
- ESTIMATES COMPLETED
- IN FIELD ASSESSMENTS COMPLETED
- PERMITS REQUESTS TO ACOE & IA DNR MAILED
- RANKINGS COMPLETED
- SELECTION & OBLIGATION IN PROCESS



# BMPS INSTALLED TO DATE



# PRACTICES INSTALLED FY18

- 9 - CRP CONTRACTS— 108.75 AC.
- 7 – GRASSED WATERWAYS – 5.8 AC.
- 1 – WETLAND RESTORATION – 20.0 AC.
- 31 – COVER CROP CONTRACTS – 6,003.0 AC.
  - 20 – CSP CONTRACTS – 4,836 AC.
    - 1 - EQIP CNMP
    - 9 – SEPTIC SYSTEMS
  - ACCESS CONTROL – 11.3 AC.

# PRACTICES PLANNED FY19

- 4 - CRP NATIVE COVER– 28.1 AC.
- 7 – GRASSED WATERWAYS – 6.7AC.
- 30 – EQIP COVER CROPS –2,480.4 AC.
- 14 – CSP CONTRACTS – 5,398 AC.
  - 2 – AG WASTE PROJECTS
    - 3 – SEPTIC SYSTEMS
    - 2 – EQIP ENERGY AUDITS
- 1 – EQIP STREAMBANK CONTRACTED

# AG WASTE STRUCTURES

COMPLETED TO DATE

7 – MANURE STORAGE SYSTEMS

FUNDING SOURCES: EQIP, SECTION 319 & WIRB

1 NEW EQIP/319 CONTRACTED FY19

1 NEW PROJECT READY FOR OBLIGATION



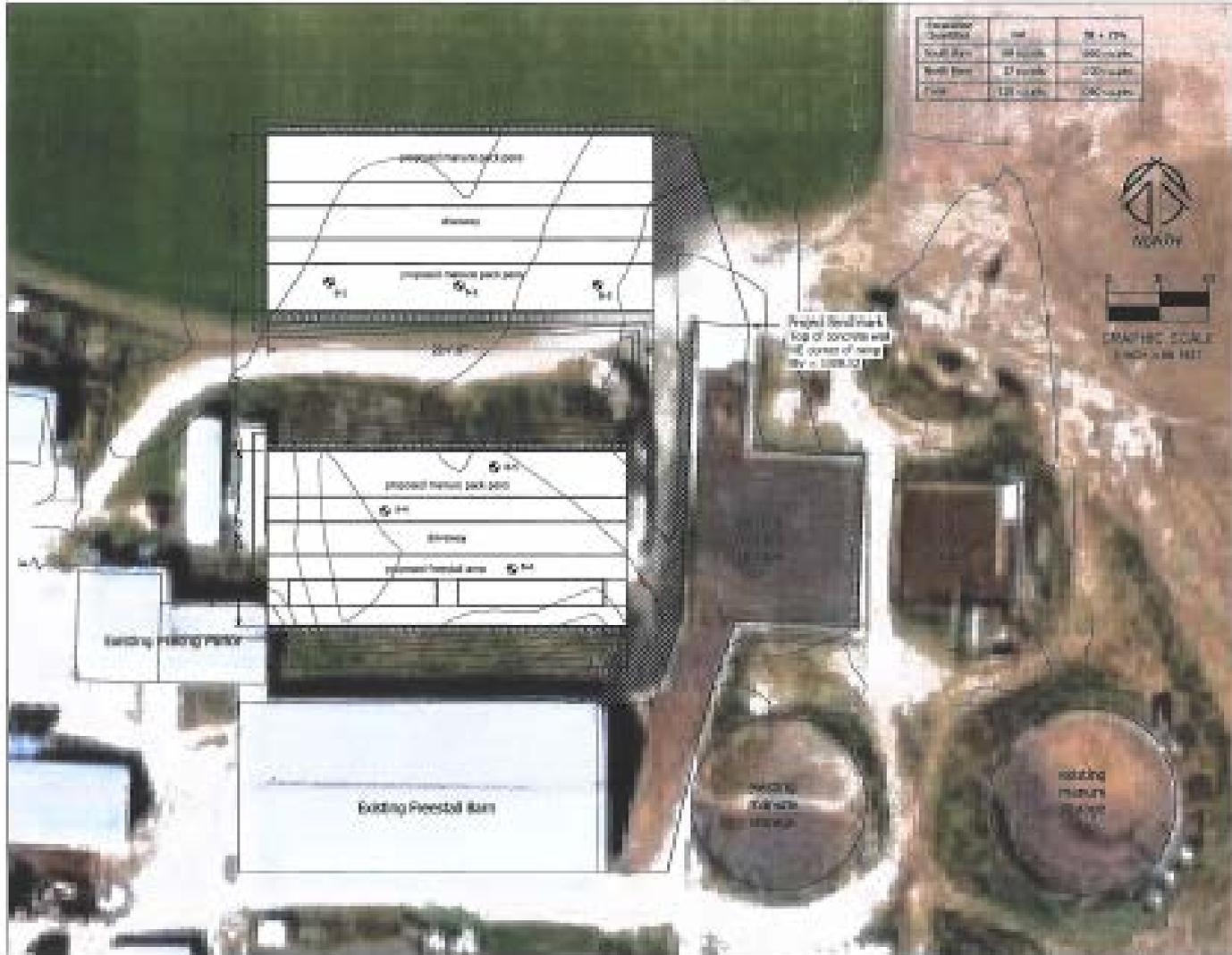
# AG WASTE STRUCTURES

2 SITES CONSTRUCTED IN FY18

TOTAL PROJECT INVESTMENT = \$1,222,300.97



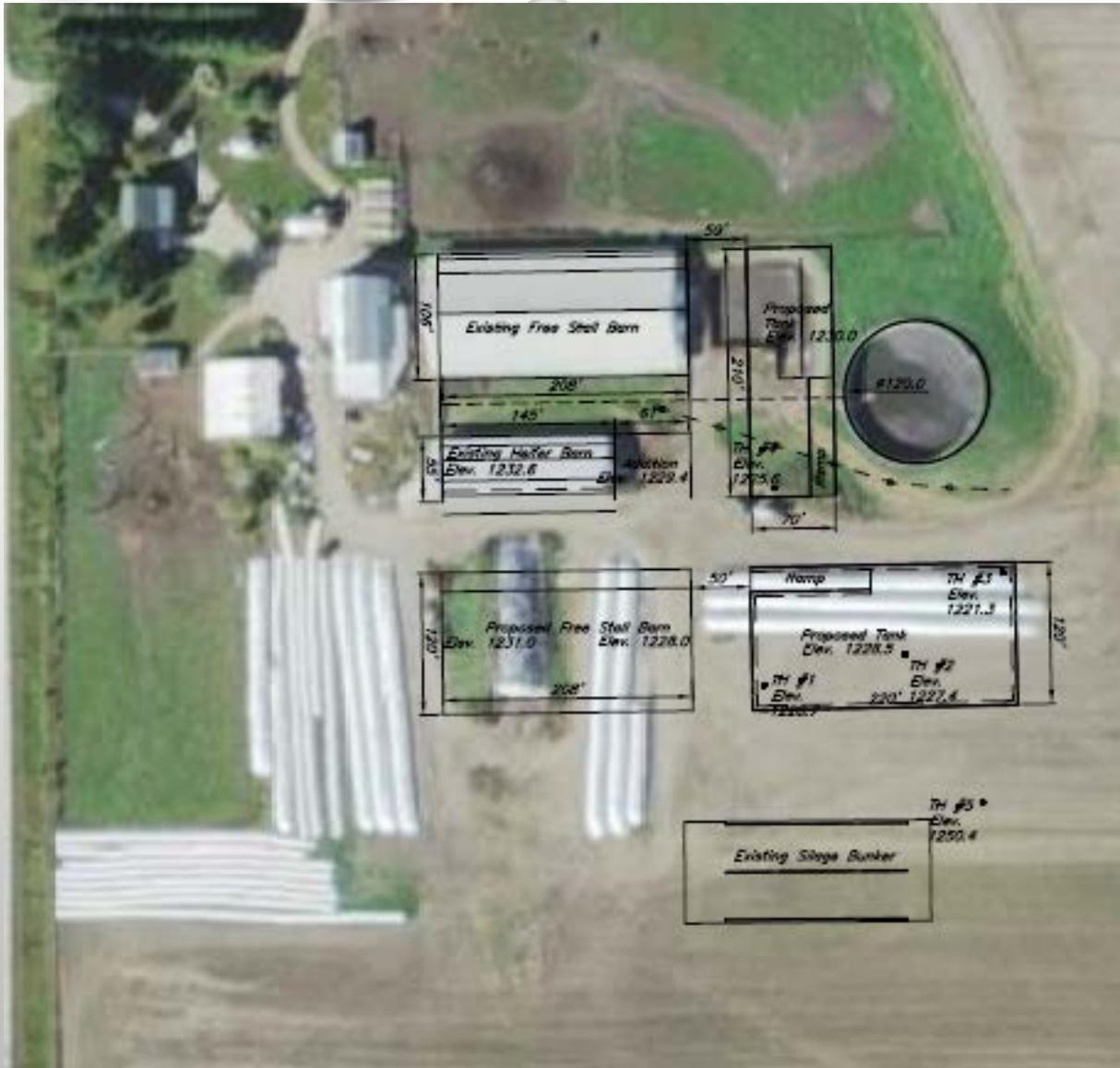
# M&C REIS FARMSTEAD PLANNING



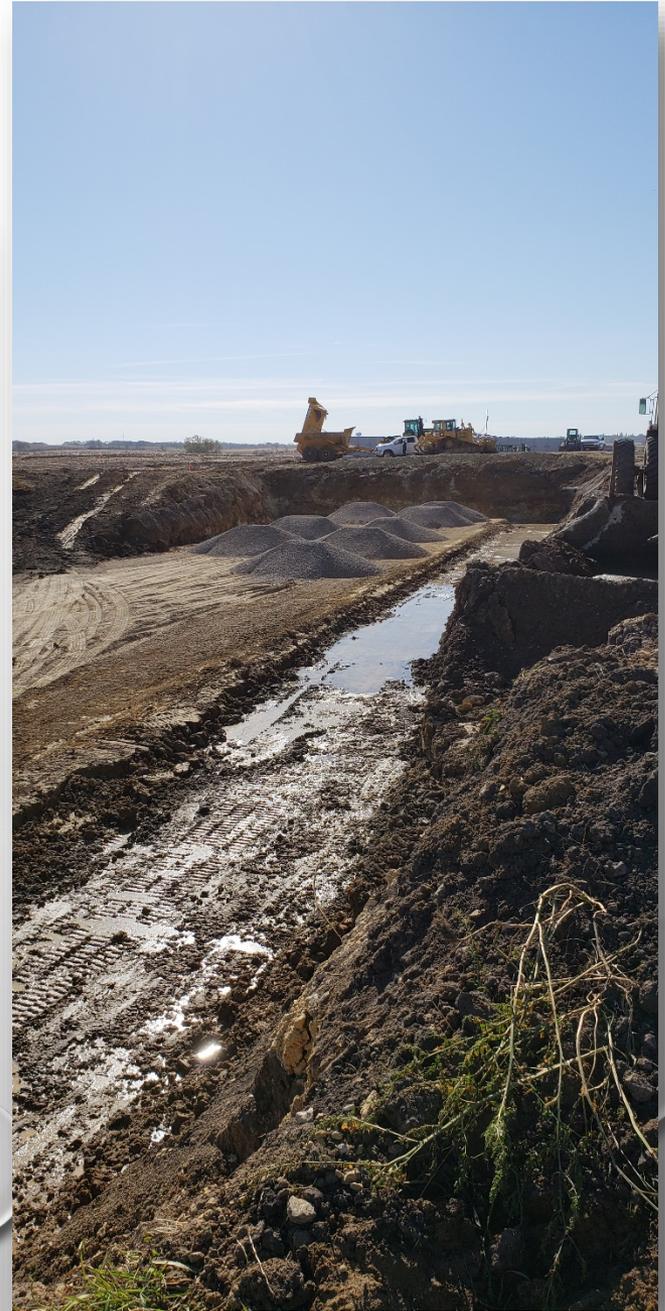
SITE 1 - 250 HEAD DAIRY  
CONSTRUCTION OF TWO BARNES  
ELIMINATION OF ALL OPEN LOT



# HUHE FARMSTEAD PLANNING



SITE 2 - 250 HEAD DAIRY  
CONSTRUCTION OF RAMPED  
MANURE PIT 70' X 210' X 14'



# PRACTICE FUNDING SOURCES

IA DNR SECTION 319

EQIP, CRP & CSP

WIRB

WSPF, IFIP, SRF & WQI

LAND OWNERS

# LEDGER SUMMARY

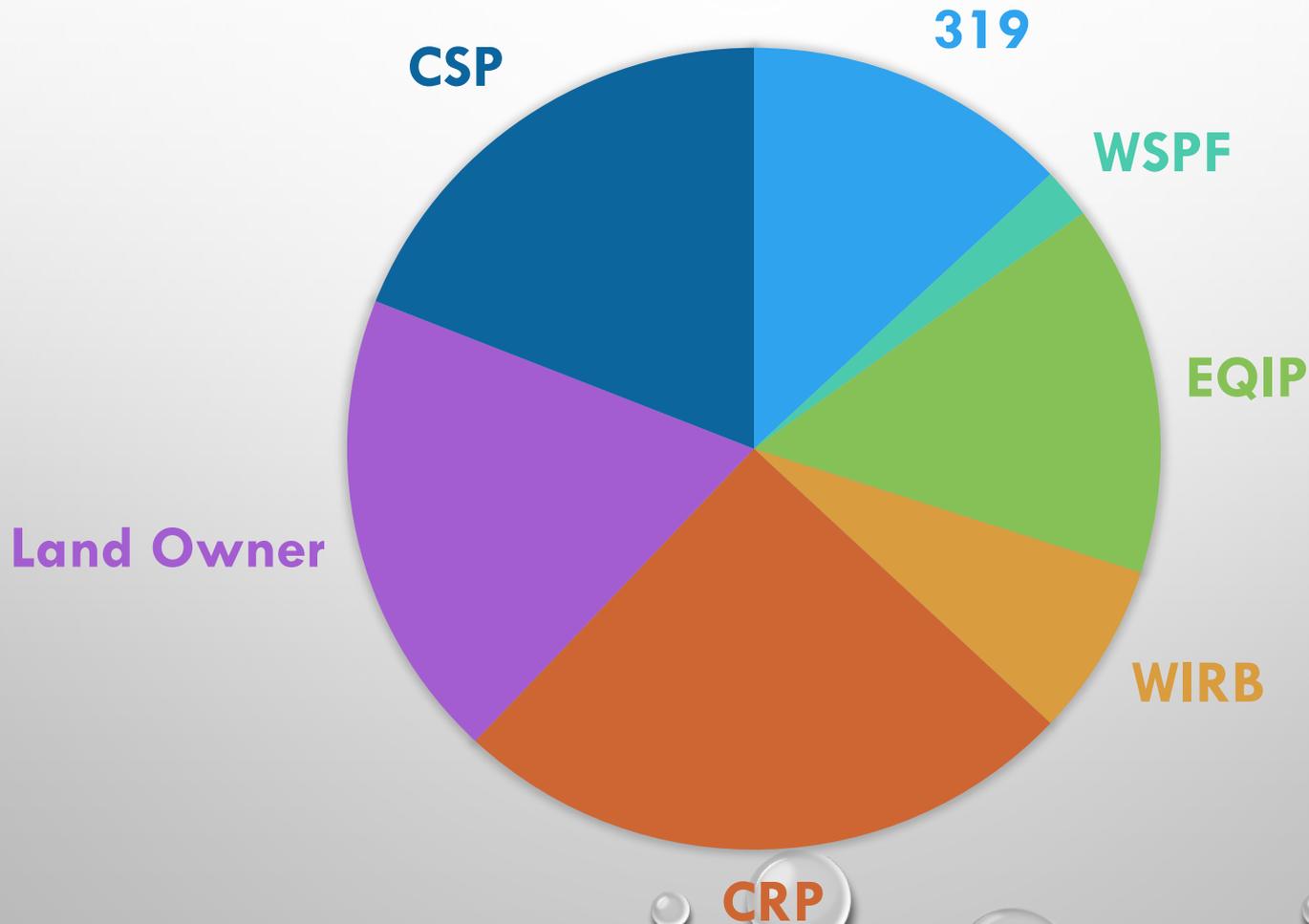
<b>Project:</b>	Silver Creek Water Quality Project				<b>District:</b>	Howard Soil and Water Conservation District				
<b>Total Funding by Program</b>										
<b>Cost Share Program</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>	<b>Year 6</b>	<b>Year 7</b>	<b>Year 8</b>	<b>Totals</b>	<b>% of Total</b>
319	\$50,587.00	\$89,658.26	\$77,706.16	\$82,749.52	\$182,888.01	\$142,330.17	\$45,246.51	\$0.00	\$671,165.63	12%
WSPF	\$6,567.75	\$12,312.62	\$15,309.90	\$17,840.44	\$40,324.84	\$63,392.47	\$3,390.00	\$0.00	\$159,138.02	3%
WPF	\$588.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$588.00	0%
EQIP	\$16,113.00	\$199,780.00	\$105,217.04	\$49,836.00	\$403,238.70	\$359,457.86	\$168,766.36	\$0.00	\$1,302,408.96	23%
IFIP	\$0.00	\$0.00	\$0.00	\$0.00	\$11,080.00	\$0.00	\$10,047.00	\$0.00	\$21,127.00	0%
CRP	\$61,069.00	\$91,464.50	\$249,367.00	\$233,557.00	\$515,899.11	\$49,972.00	\$602.00	\$0.00	\$1,201,930.61	22%
REAP	\$863.00	\$2,625.00	\$615.00	\$0.00	\$607.50	\$0.00	\$0.00	\$0.00	\$4,710.50	0%
WHIP	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
WIRB	\$0.00	\$0.00	\$103,600.00	\$75,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$178,600.00	3%
MRBI	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
I-Jobs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
District	\$6,646.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6,646.00	0%
POL	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
Other A	\$107,476.00	\$110,424.00	\$110,733.00	\$27,077.00	\$89,340.00	\$69,722.00	\$176,580.00	\$0.00	\$691,352.00	12%
Other B	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
Landowners	\$12,895.25	\$112,244.97	\$257,202.39	\$62,759.31	\$713,431.27	\$143,863.53	\$46,880.86	\$0.00	\$1,349,277.58	24%
<b>Totals</b>	<b>\$262,805.00</b>	<b>\$618,509.35</b>	<b>\$919,750.49</b>	<b>\$548,819.27</b>	<b>\$1,956,809.43</b>	<b>\$828,738.03</b>	<b>\$451,512.73</b>	<b>\$0.00</b>	<b>\$5,586,944.30</b>	<b>100%</b>

# PROJECT DOLLARS EXPENDED

- 319 - \$671,165.63
- WSPF - \$159,138.00
- WIRB - \$178,600.00
- EQIP - \$1,302,408.96
- CRP - \$1,201,930.61
- CSP - \$691,352.00
- LAND OWNER - \$1,349,277.58
- TOTAL TO DATE: \$5,586,944.30

# LEVERAGING FOR MAX. IMPACT

## PARTNERS





# **SEPTIC SYSTEM UPGRADES**

**IA DNR SECTION 319 FUNDED**

**50% COST SHARE**

**TO DATE: 15 INSTALLED**

**2 NEWLY APPROVED APPLICATIONS**

**COUNTY SANITARIAN CERTIFIED**



# LAYOUT, SURVEY & DESIGN

Grassed Waterway  
Wetland Creations  
Manure Storage  
Streambank & Weirs



# **DALCI EQIP**

**DRIFT-LESS AREA LANDSCAPE CONSERVATION INITIATIVE**

**ENVIRONMENTAL QUALITY INCENTIVE PROGRAM**

**COVER CROPS**

- **13 CONTRACTS**
- **2,350.0 ACRES**
- **\$529,715.00 OVER 5 YEARS**



- DALCI COVER CROP ANNUAL PAYMENT

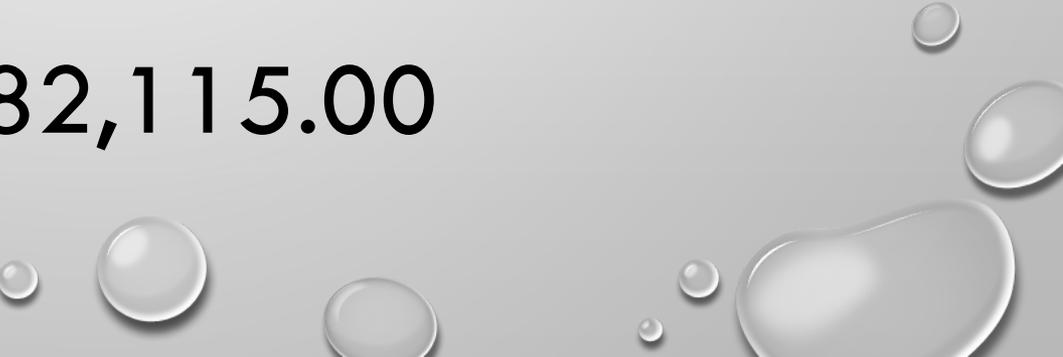
- 2017 - \$164,915.00

- 2018 - \$140,933.00

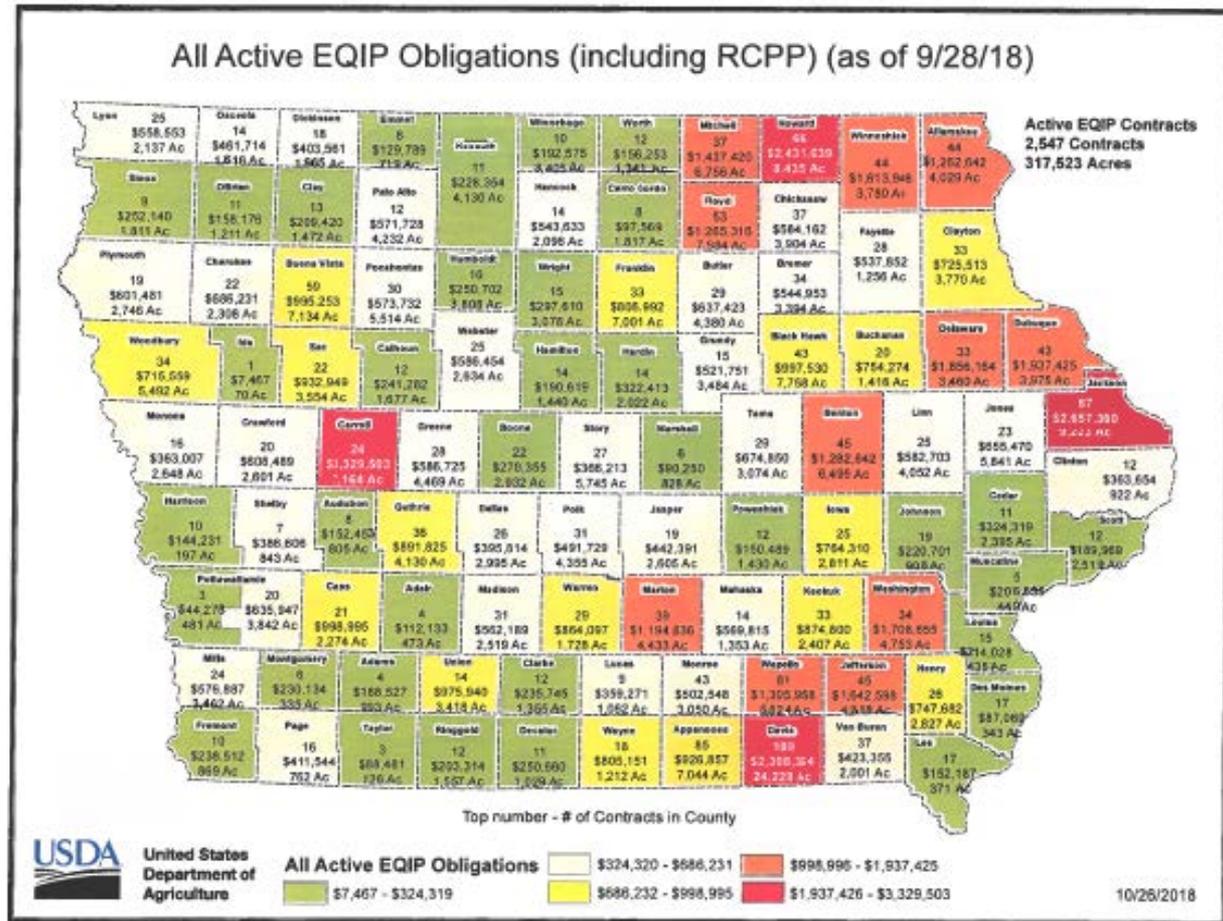
- 2019 - \$135,569.00

- 2020 - \$83,863.00

- 2021 - \$82,115.00



# HOWARD COUNTY RANKS 3<sup>RD</sup> IN TOTAL ACTIVE EQIP CONTRACTS



# COVER CROPS MULTI-YEAR CONTRACTS

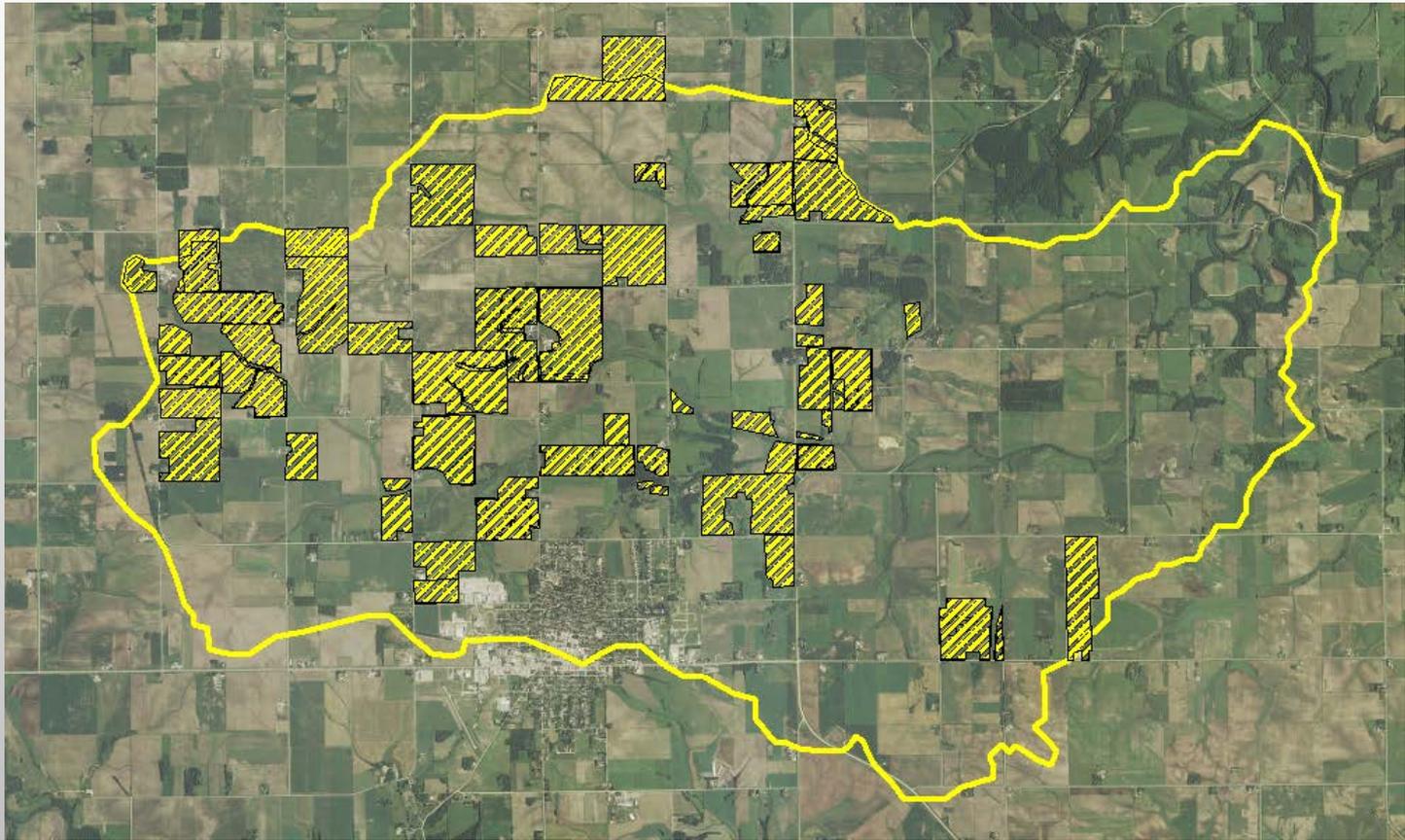


Leveraging 3  
Programs

CSP, WQI & EQIP



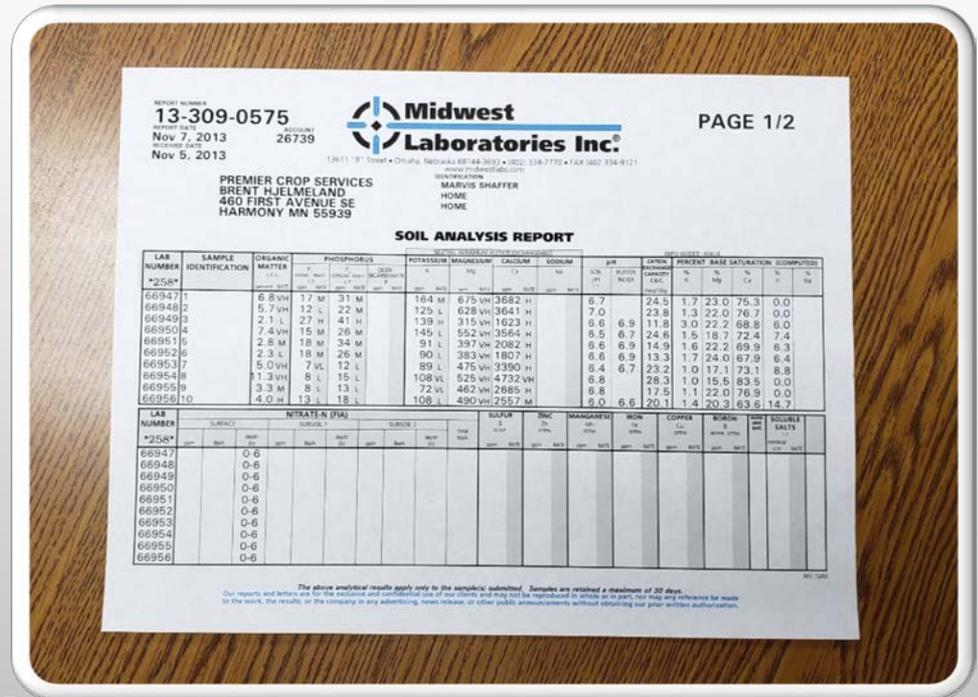
# 6,003 AC. COVER CROP SEEDING IN 2018



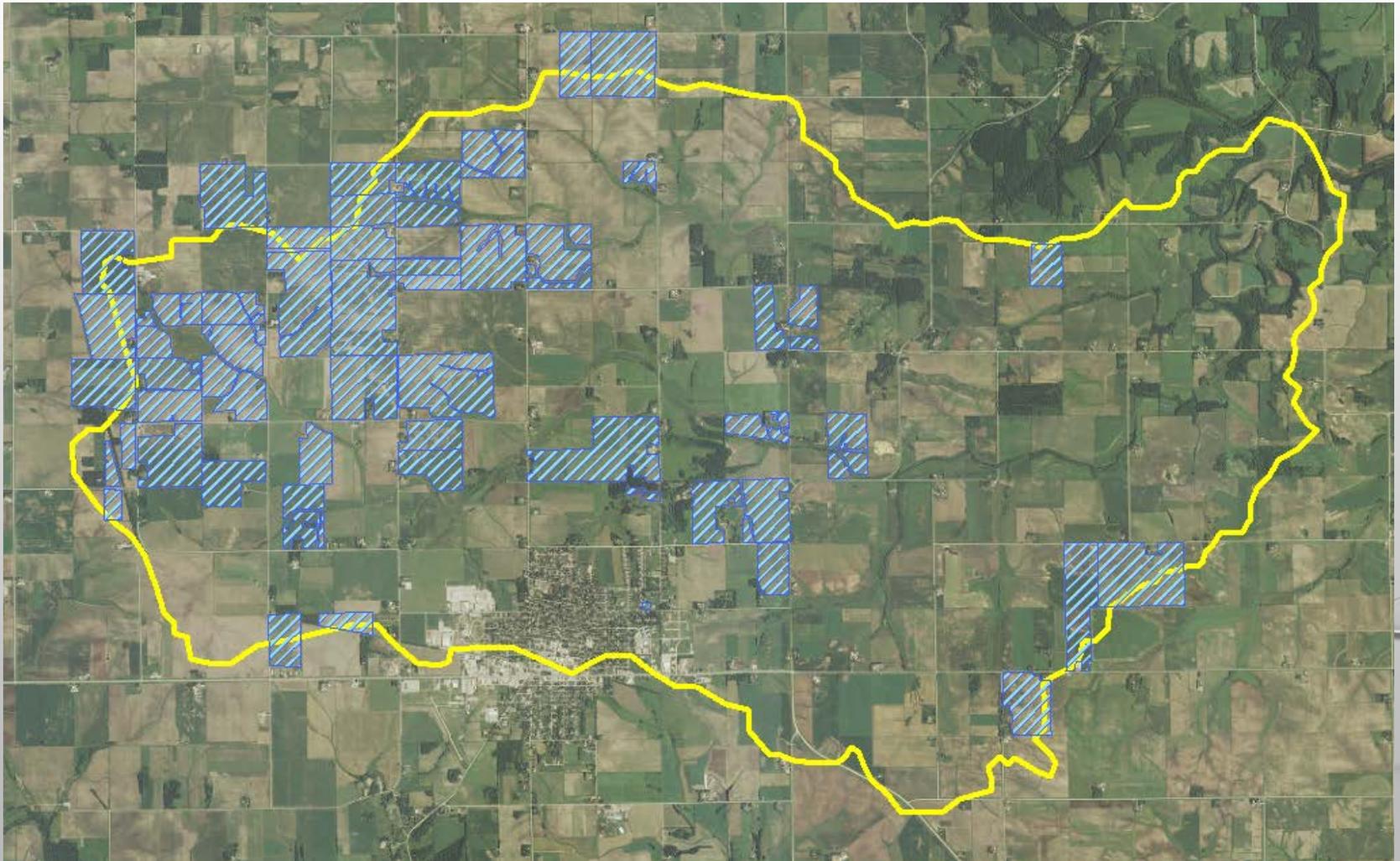


# BENEFITS OF HAVING CSP ACRES UNDER CONTRACT

- ✓ SOIL TESTS
- ✓ NUTRIENT MANAGEMENT
- ✓ EXPERIMENTATION
- ✓ COVER CROPS
- ✓ REDUCED TILLAGE
- ✓ EPHEMERAL GULLIES ADDRESSED
- ✓ HABITAT REQUIREMENT
- ✓ NITROGEN MANAGEMENT



# TOTAL CSP ACRES UNDER CONTRACT 4,836 ACRES



# CRITICAL AREA NATIVE PRAIRIE ESTABLISHMENT



129 CRP CONTRACTS

# CRP NATIVE SEEDING ESTABLISHED

2,285

Acres

CP42

CP38

CP21

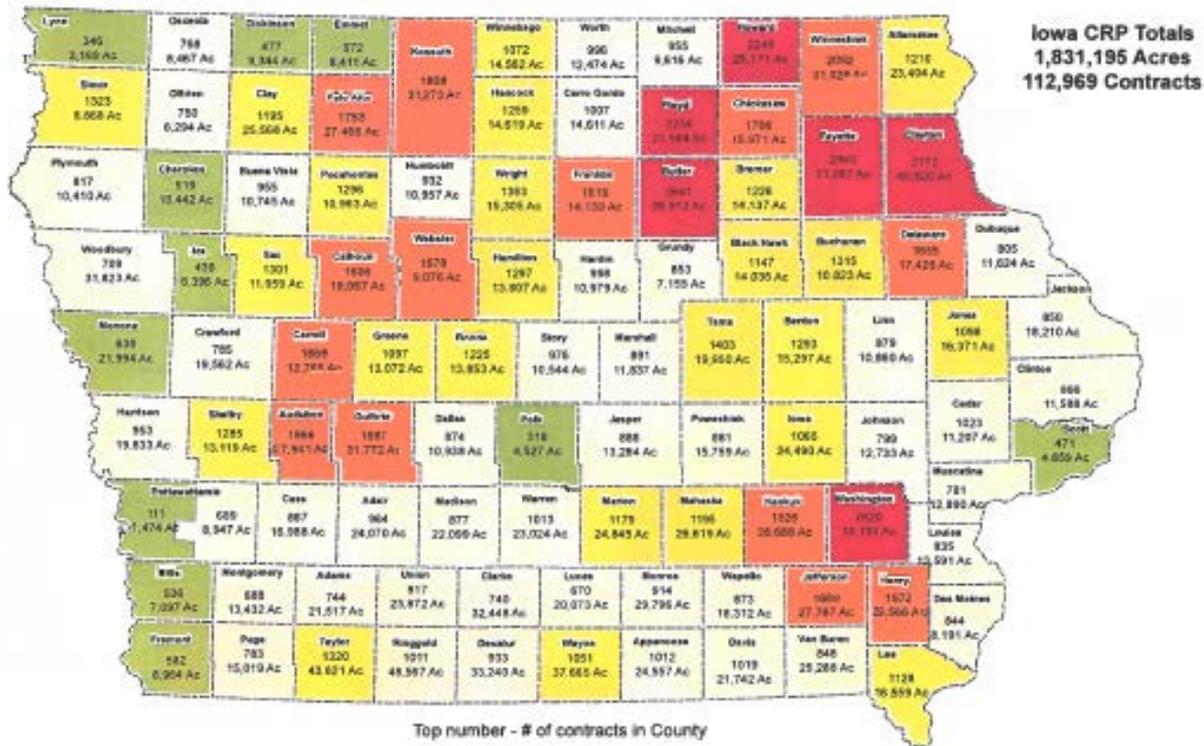
CP33

CP8A

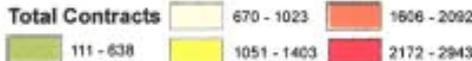


# HOWARD COUNTY RANKS #3 IN TOTAL CRP CONTRACTS

Iowa total active CRP as of 10-01-2018 (Contracts)

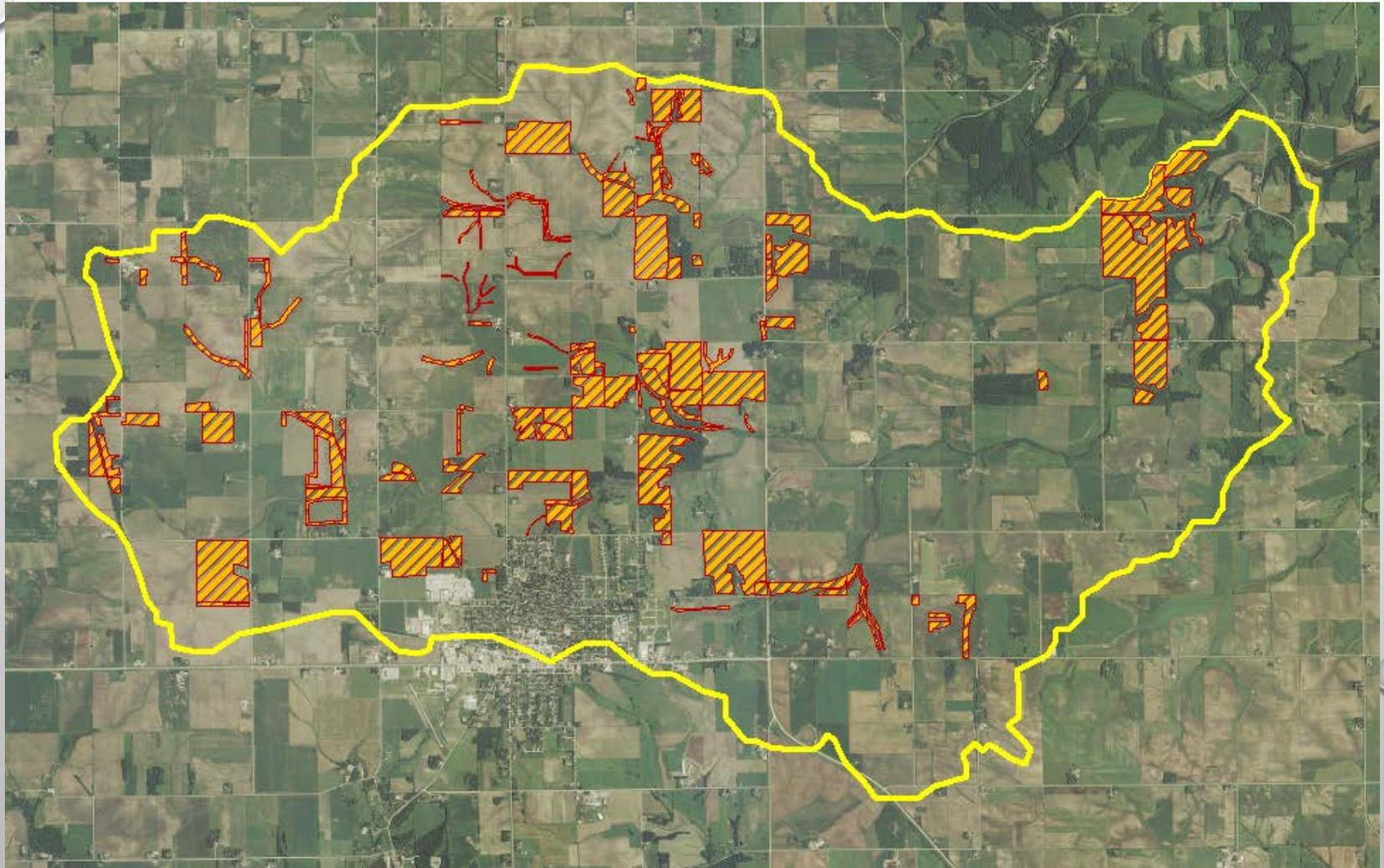


Top number - # of contracts in County

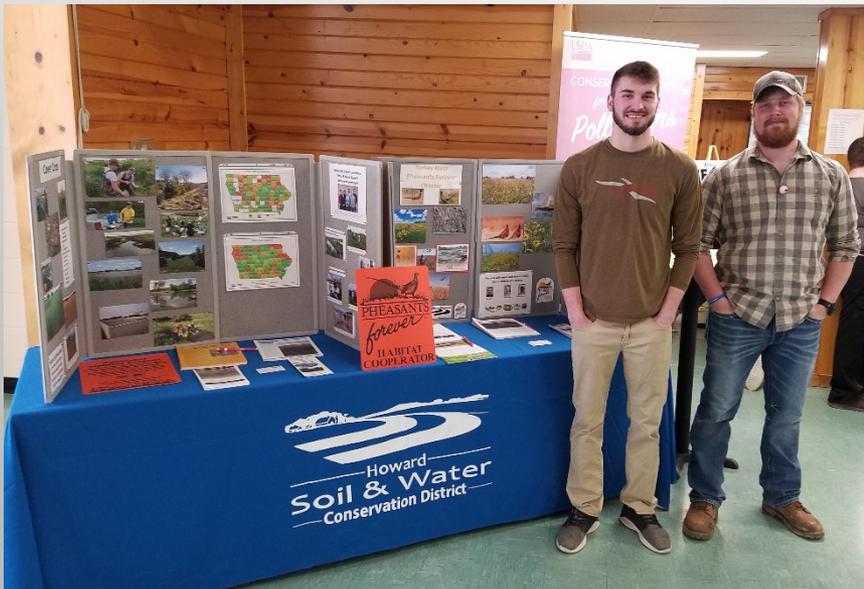


CRP is administered by USDA Farm Service Agency with technical support from USDA Natural Resources Conservation Service 10/19/2018

# CRP NATIVE PRAIRIE ESTABLISHED 2,285 ACRES SINCE 2013



# NATIVE HABITAT PARTNERS





ANNUAL  
POLLUTION  
LOADING  
REDUCTIONS

---

20,420

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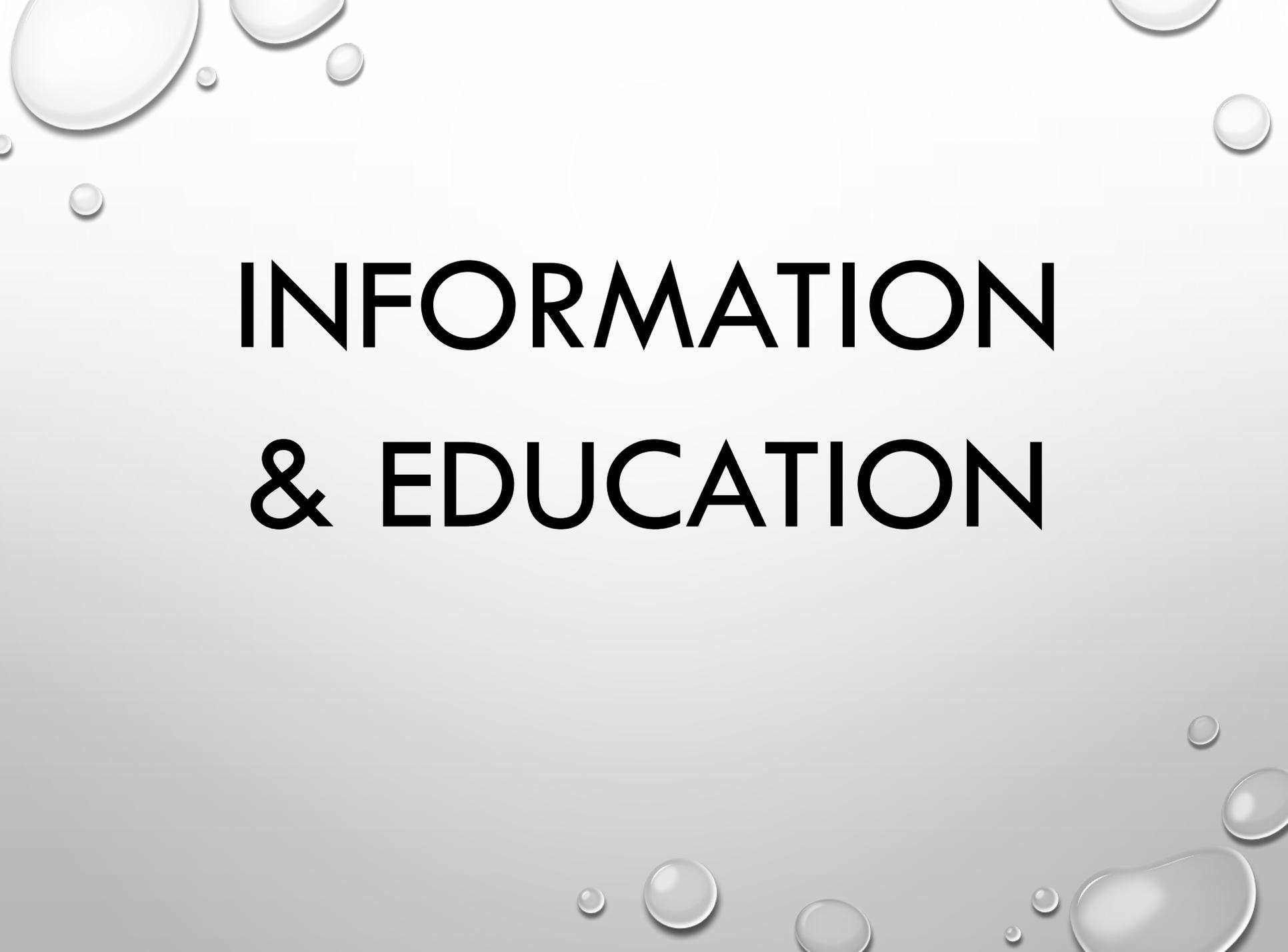
Tons of Sediment

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23,131

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Pounds of Phosphorus

The background of the slide is a light gray gradient. It is decorated with several realistic water droplets of various sizes, scattered across the top and bottom edges. The droplets have highlights and shadows, giving them a three-dimensional appearance.

# **INFORMATION & EDUCATION**

# PROGRAM OUTREACH

## Silver Creek Water Quality Project

• • • Now Taking Applications for Spring Construction • • •

*Sign-up deadlines: CSP—March 2nd & EQIP—March 16th*

Conservation Practices Available up to **75%** Cost Share

- ◆ Grassed Waterways
- ◆ Wetland Habitat Ponds
- ◆ Septic System Upgrades
- ◆ Cover Crops for Fall 2018
- ◆ Farmstead Energy Audits



**Our Watershed, Our Creek, Our Future**  
Howard & Winneshiek SWCDs

For More information Contact: **Neil Shaffer**  
Watershed Project Coordinator  
Cresco Field Office  
(563) 547-3040 ext. #3  
E-mail: [neil.shaffer@ia.nacdn.net](mailto:neil.shaffer@ia.nacdn.net)



*Federal and state laws prohibit employment and/or public accommodation discrimination on the bases of age, color, creed, disability, gender identity, national origin, pregnancy, race, religion, sex, sexual orientation or veteran's status. If you believe you have been discriminated against, please contact the Iowa Civil Rights Commission at (800) 457-4416 or the Agency's affirmative action officer.*

# PUBLIC INFORMATION & EDUCATION



Crestwood Junior High &  
Senior High Career Day

Arbor Day 5<sup>th</sup> Grade  
Students



# OUTDOOR CLASSROOMS

HCCB  
ENVIRONMENTAL  
OUTDOOR  
WATERSHED  
CLASSES



ENVIRONMENTAL STUDIES  
NEICC COLLEGE CLASS  
LAKE HENDRICKS TOUR

# IOWA WATER CONFERENCE 2019 POSTER



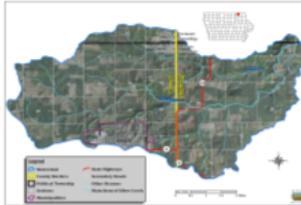
## Silver Creek Water Quality Project

Our Creek, Our Watershed, Our Future

### Location & Impairment

Silver Creek is a tributary of the Upper Iowa River located in Howard & Winneshiek Counties in NE Iowa. Silver Creek is on the IA DNR 303(d) impaired water list due to high bacteria levels. To date the project has invested **\$5.1 million** in best management practices. The projects major funders are: **IA DNR Section 319 & IDALS WSPF**

The introduction of native Brook Trout to Silver Creek Watershed is a testament to the continued improvements to the water quality.



### Practice List

Grassed Waterways  
Ag Waste Structures  
Streambank & Weirs  
Wetland Creations  
Septic System Upgrades  
No-till & Cover Crops

### Measures of Success

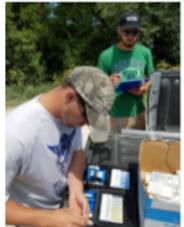
- ◆ 348 Best Management Practices
- ◆ \$5.1 Million Invested
- ◆ 102 Cooperators
- ◆ 7 Manure Storage Projects Completed
- ◆ 11,936 acres of Conservation Planning
- ◆ 6,003 acres Cover Crops Seeded
- ◆ 4,836 acres CSP Enrolled
- ◆ 2,285 acres Native Prairie CRP Establishment



Native Brook Trout



Streambank



Water Monitoring



Black Falls



Native Prairie Restoration



Cover Crop



Edge of Field Promo

Project Goals: Reduce Bacteria, Sediment & Nitrates

Project Begins: 2013

For more information, contact:  
Neil Shaffer- Watershed Coordinator  
Phone: (563) 547-3040  
Email: neilshaffer@ia.nacdnet.net  
Web: www.howardswcd.org



Ag Waste Structure Construction



Brook Trout Fingerlings



Leveraging Dollars



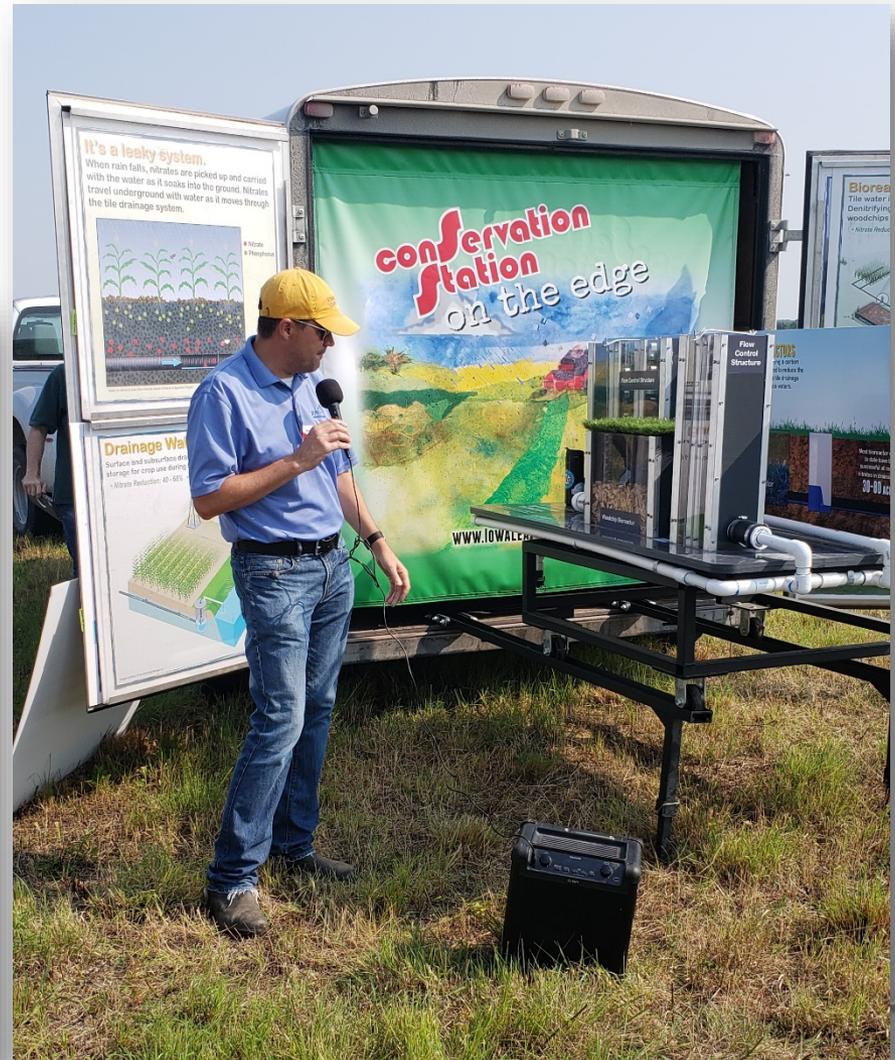
Project Promotion



# FIELD DAYS



NEIL SASS  
NRCS SOIL HEALTH



MATT HELMERS  
EDGE OF FIELD PRACTICES

# ELECTED OFFICIAL OUTREACH



Legislator Tour of  
Watershed & Meeting  
Sen. Chuck Grassley  
In Protivin

# CONSERVATION DAY @ THE STATE CAPITAL



# OUTREACH TO WOMEN LANDOWNERS

TO DATE 21 WOMEN  
LANDOWNERS IN THE  
WATERSHED HAVE INSTALLED  
33 PRACTICES ON THEIR  
LAND.



# INFORMATION & EDUCATION OPPORTUNITIES - MEDIA



# LOCAL PROMOTION OPPORTUNITIES



## The Mighty Howard County Fair



## Iowa Water Conference Iowa State University

# DISPLAYS & PRESENTATIONS

UPPER IOWA RIVER PHEASANTS  
FOREVER

HOWARD COUNTY FARM BUREAU  
WOMEN

TURKEY RIVER PHEASANTS FOREVER

NORMAN BORLAUG FARM INSPIRE DAY

HOWARD COUNTY FAIR

HOWARD COUNTY SUPERVISORS

IOWA WATER CONFERENCE ISU

HOWARD COUNTY FARM BUREAU

ARBOR DAY & NATURAL  
RESOURCES DAY

CRESTWOOD ENVIRONMENTAL STUDIES

HCCB ENVIRONMENTAL SCIENCE DAY

CRESCO KIWANIS

UIU CAREER DAY

UIU GEOMORPHOLOGY CLASS

CRESTWOOD CAREER DAY

HOWARD COUNTY EXPERIMENTAL  
FARM

NORMAN BORLAUG OUTDOOR CLASSES

# PC TRAINING OPPORTUNITIES

- WINNESHIEK SWCD SOIL HEALTH FIELD DAY
  - IA DNR LAKE CONFERENCE - OKOBOJI
- NRCS NATIVE PLANT IDENTIFICATION – NEW HAMPTON
  - ISU EXTENSION WATERSHED ACADEMY - NASHUA
    - S.W.I.M. TRAINING – GUTHRIE COUNTY
- NOBEL CONFERENCE GUSTAVIS UNIVERSITY - ST. PETER MN
  - DRIFT-LESS SYMPOSIUM - LACROSSE WI
- IOWA SOYBEAN RESEARCH CONFERENCE – AMES
  - IOWA WATER CONFERENCE – ISU AMES

# TRAINING OPPORTUNITIES

**Watershed Academy – Nashua, IA**



**S.W.I.M. Training Guthrie County**



**Iowa Lakes Conference – Okoboji, IA**



# TRAINING OPPORTUNITIES

**Iowa Flood Center Tour Road Structures  
Fayette & Clayton Counties**



**Iowa Flood Center Tour Infiltration  
West Union, IA**



**Nobel Water Quality Conference  
Gustavus College – St. Peter, MN**



# TRAINING OPPORTUNITIES



King Guinn County

**11<sup>th</sup> Annual  
Driftless Symposium  
La Crosse, WI**

**Iowa Soybean Association  
Research Conference  
Ames, IA**



# PARTNERS



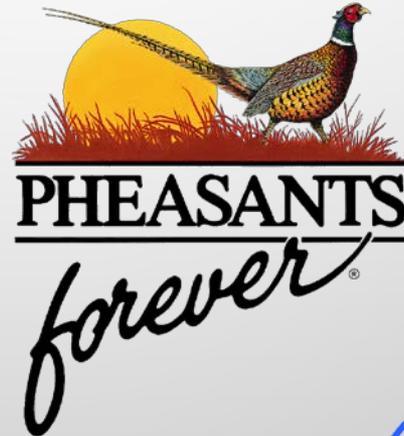
IOWA DEPARTMENT OF  
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WIRB



Howard  
**Soil & Water**  
Conservation District



Winneshiek Soil & Water  
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# CRESCO FIELD STAFF





# THANK YOU!

FEDERAL AND STATE LAWS PROHIBIT EMPLOYMENT AND/OR PUBLIC ACCOMMODATION DISCRIMINATION ON THE BASES OF AGE, COLOR, CREED, DISABILITY, GENDER IDENTITY, NATIONAL ORIGIN, PREGNANCY, RACE RELIGION, SEX, SEXUAL ORIENTATION OR VETERAN'S STATUS. IF YOU BELIEVE YOU HAVE BEEN DISCRIMINATED AGAINST, PLEASE CONTACT THE IOWA CIVIL RIGHTS COMMISSION AT (800) 457-4416 OR THE AGENCY'S AFFIRMATIVE ACTION OFFICER

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