

State of Iowa FFY17 Nonpoint Source Management Plan Progress Report

March 27, 2018 WRCC Meeting

Presented by: Allen Bonini, Supervisor
DNR Watershed Improvement Section



Overview

- Refresher
- Goal Scorecard
- DNR/Section 319 Highlights



NPSMP Refresher

- Required by Section 319 – CWA
- Condition of Iowa Receiving 319 Grant \$
- Outlines Goals, Objectives, Milestones
- Guide 319 Program Priorities and Funding
- Core Partners: DNR, IDALS, ISU, NRCS, CDI
- Updated every 5 Years



FY17 Nonpoint Source Management Plan Progress Report

Objective	Status	Description
Goal 1	↗	Build Partnerships to enhance a collaborative watershed approach to NPS water pollution
Goal 2	↔	Improve technical assistance, outreach and education to facilitate NPS assessment, planning and implementation
Goal 3	↗	Science-based performance measures
Goal 4	↗	Funding
Key: ↗ Making progress ↔ Needs more attention		



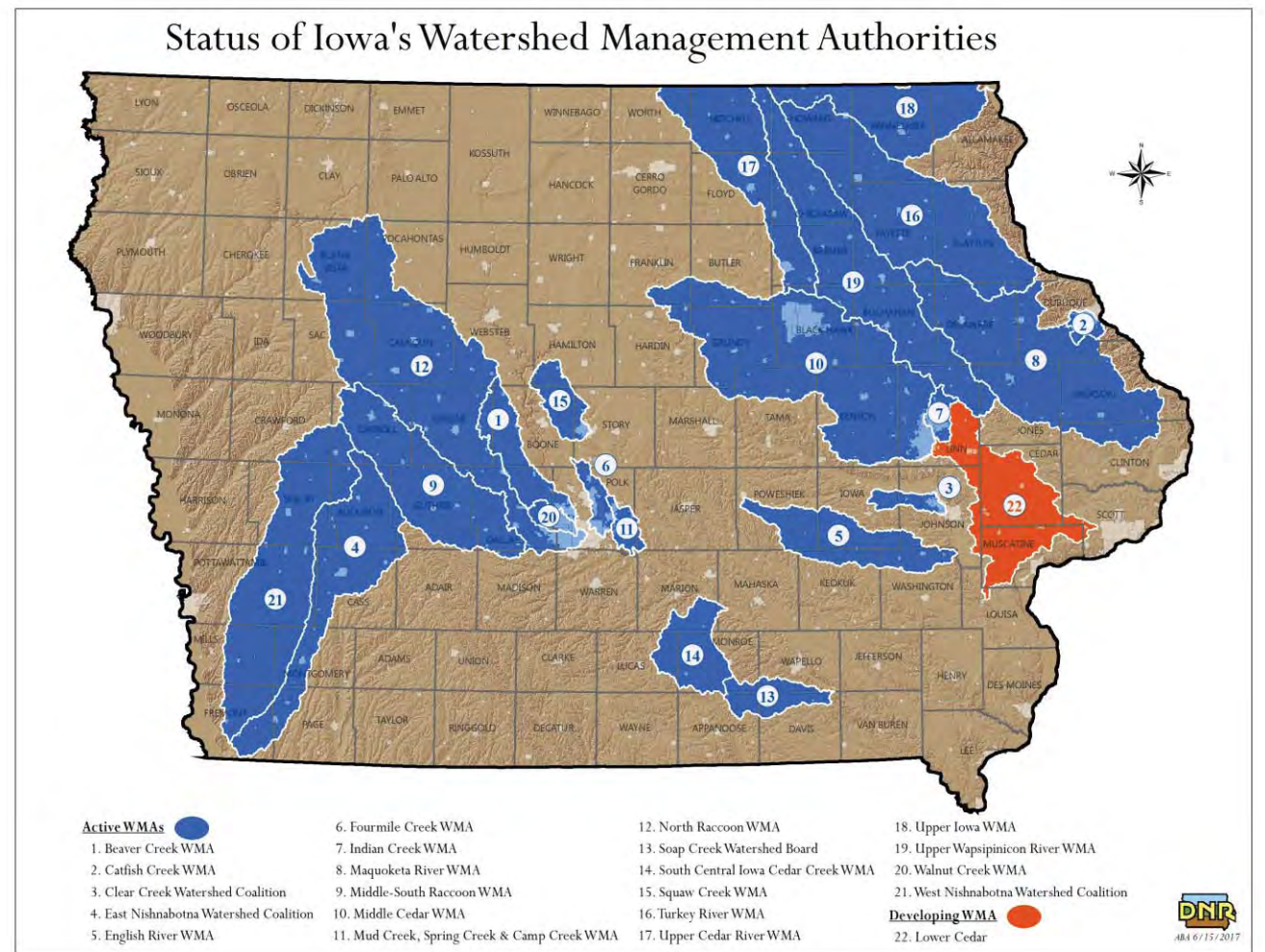
FY17 DNR/Section 319 Highlights

Goal 1 – Building Partnerships

21 WMAs have
formed since 2012
(4 added in last year)

2 additional, plus 1
pending so far in
2018

IWA has provided
\$40.6M to support
planning &
implementation in 8
WMAs



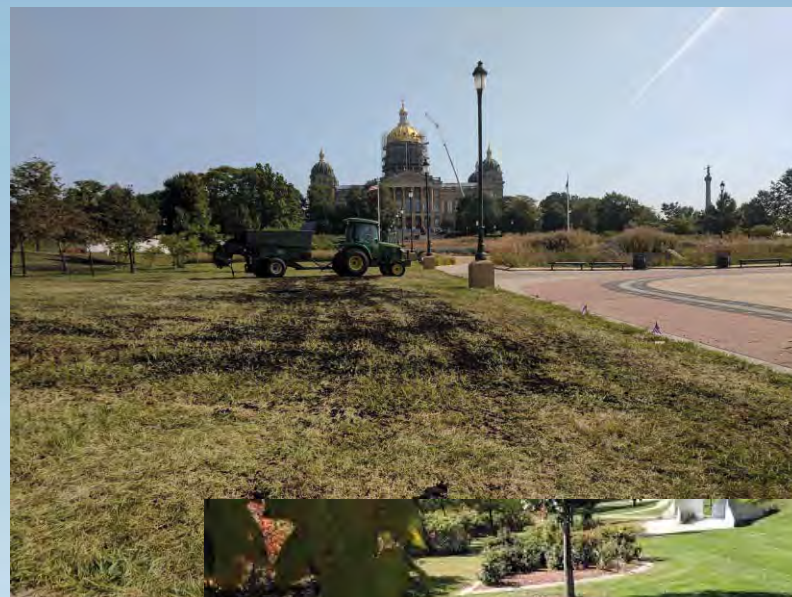
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FY17 DNR/Section 319 Highlights

Goal 1 – Building Partnerships

- Provided financial support for:
 - 16 Project Coordinators
 - Implementing BMPs across 14 local watershed projects
- GOHIO
 - SQR on 6+ acres on Capitol West Terrace
 - Planning Bioretention Cells with DAS on CWT
 - Evaluating urban stormwater BMPs for Terrace Hill
- HUD - Iowa Watershed Approach Project



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FY17 DNR/Section 319 Highlights

Goal 2 – TA and Outreach

Produced and
distributed 750
copies of the
10-year Anniversary
Edition - Annual
Success Stories
Booklet



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FY17 DNR/Section 319 Highlights

Goal 2 – TA and Outreach

Developed over
815 maps for 71
different watershed
projects or WMAs
supported through:

Section 319

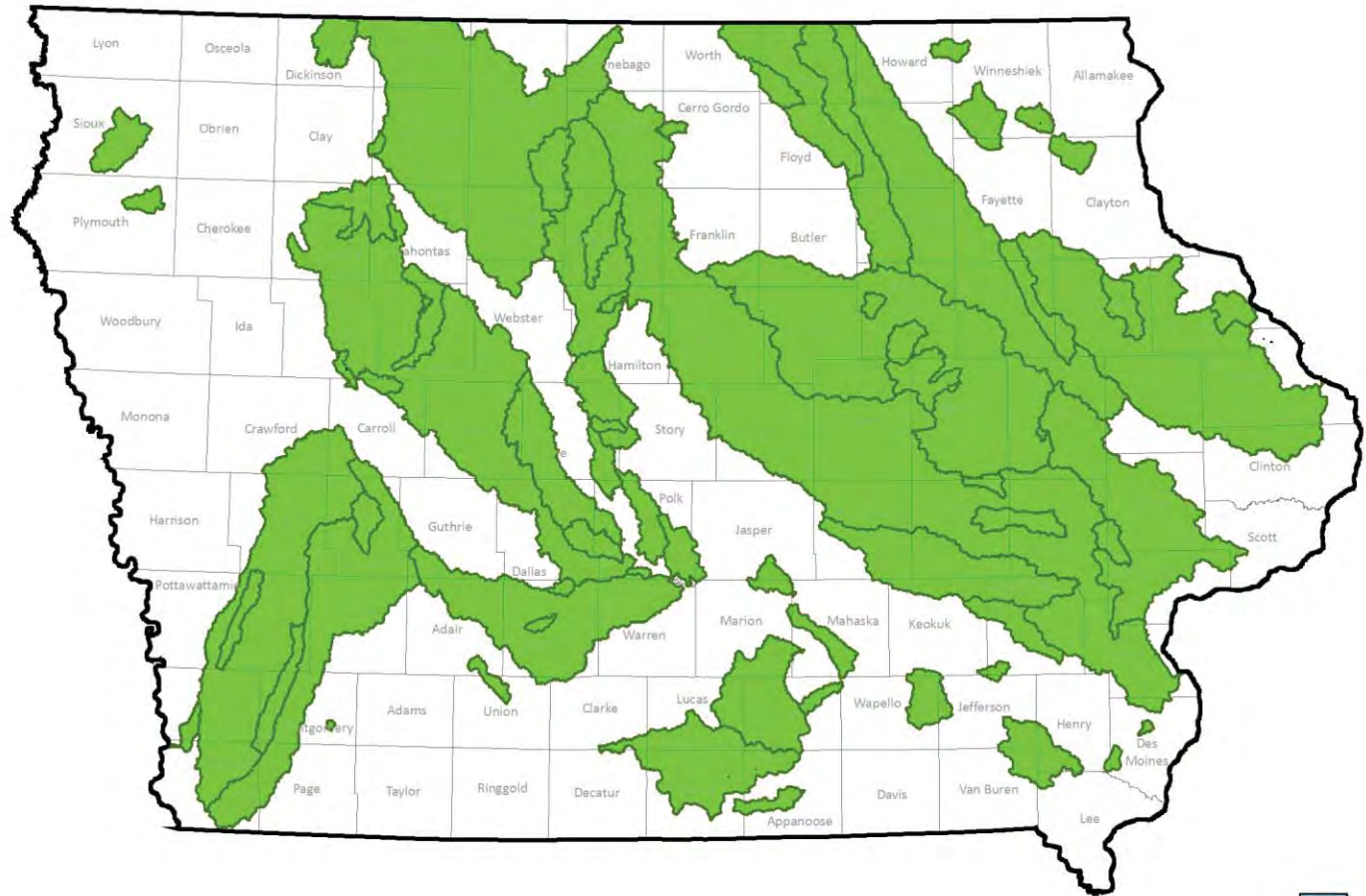
IWA

SRF/SP

WSPF

WQI

Watershed Projects Receiving DNR GIS Mapping Support, FFY2017



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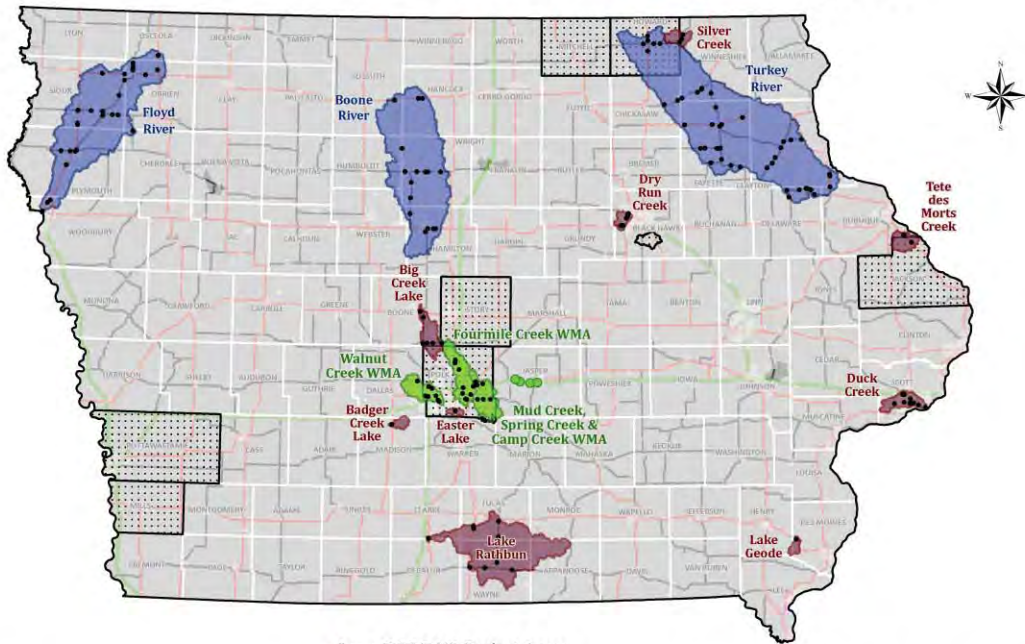
FY17 DNR/Section 319 Highlights

Goal 2 – TA and Outreach

DOT Stream Sign Project

Completed Phase 3B (4 crossings); Local Partners Stepping Up!

Iowa DOT & Iowa DNR Watershed Improvement Section's Stream Sign Project



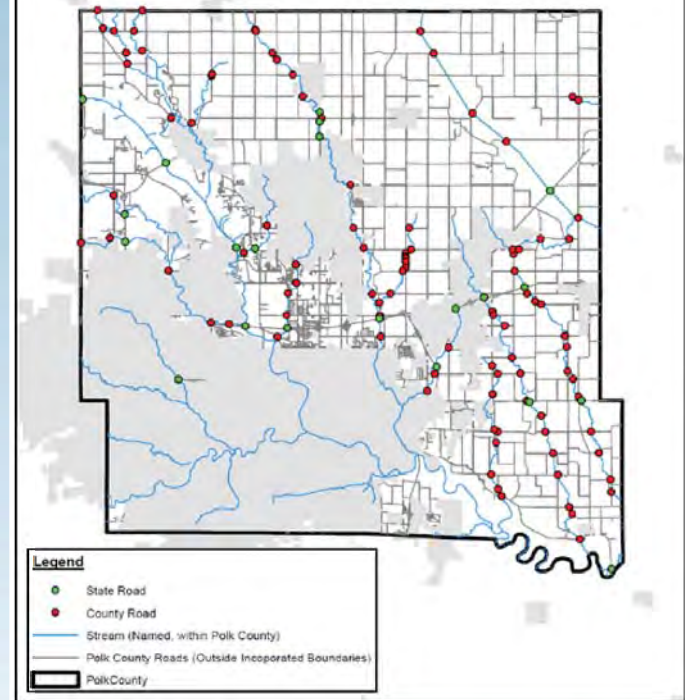
Iowa DOT/DNR Project Areas

- Phase 1 - EPA/DNR Section 319 Project Areas (2014)
- Phase 2 - WQI Priority HUC8 Watersheds (2015)
- Phase 3 - Polk County WMA Project Areas (2016)
- Phase 3B - I-80 Corridor (2016)
- Other Locally-led Stream Signing Efforts



AKI 10/2/2017

Polk County



SNYDER & ASSOCIATES



0 2 4 miles

Stream/Road Intersections

Polk Regional Detention Basin Study | Polk County, IA | 8/18/2017

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FY17 DNR/Section 319 Highlights

Goal 2 – TA and Outreach

Supported Farmer and Youth Education & Outreach

Including 29 farmer workshops/field days, reaching 1,280 people

Including 200 school visits/youth events, reaching 27,917 people

*PLUS 1 WR! Teacher Summit
(27 educators trained)*



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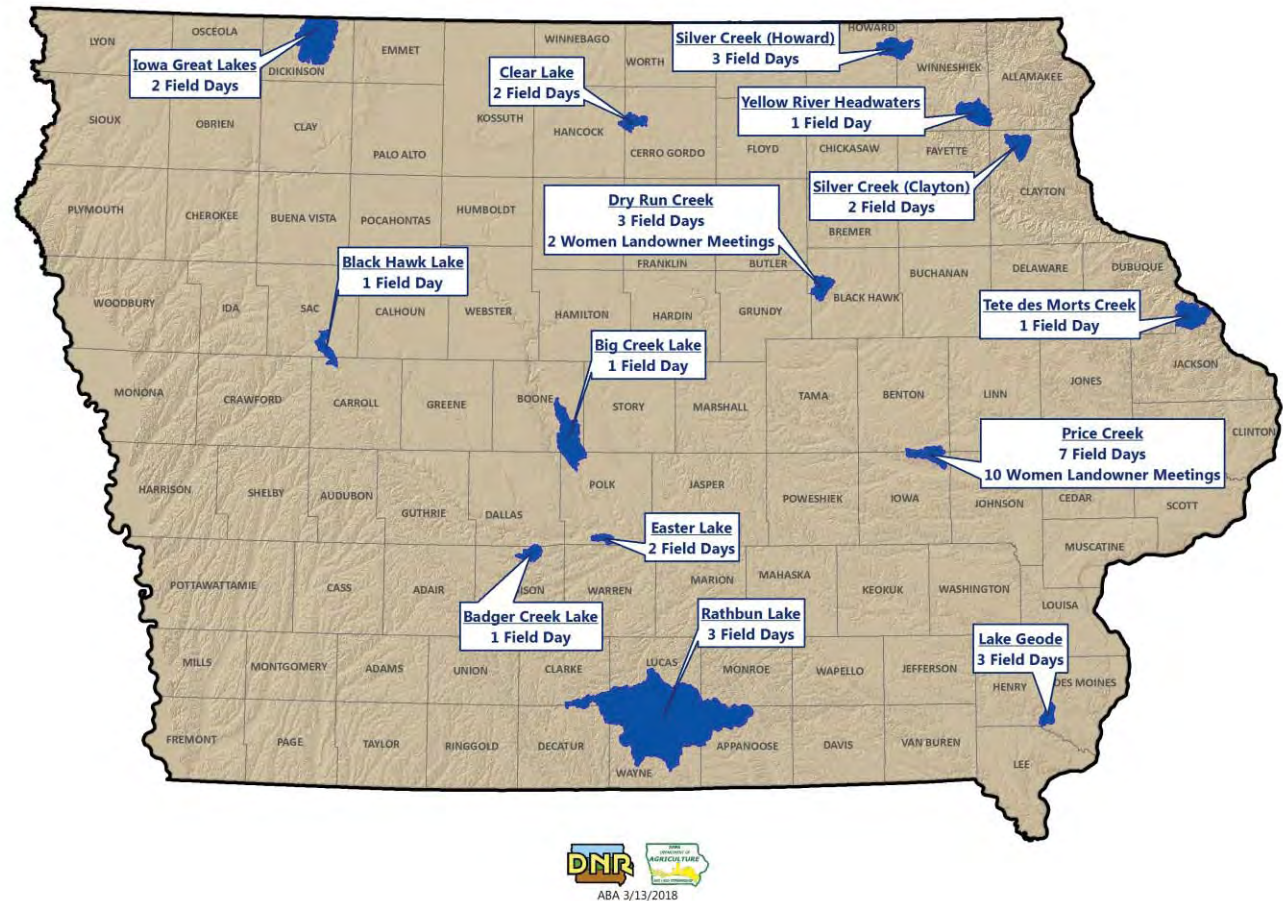


FY17 DNR/Section 319 Highlights

Goal 2 – TA and Outreach

Supported
32 field days +
12 women LO
meetings in 14
watershed
projects

FIELD DAY EVENTS HELD BY SECTION 319
WATERSHED PROJECTS (FFY2017)



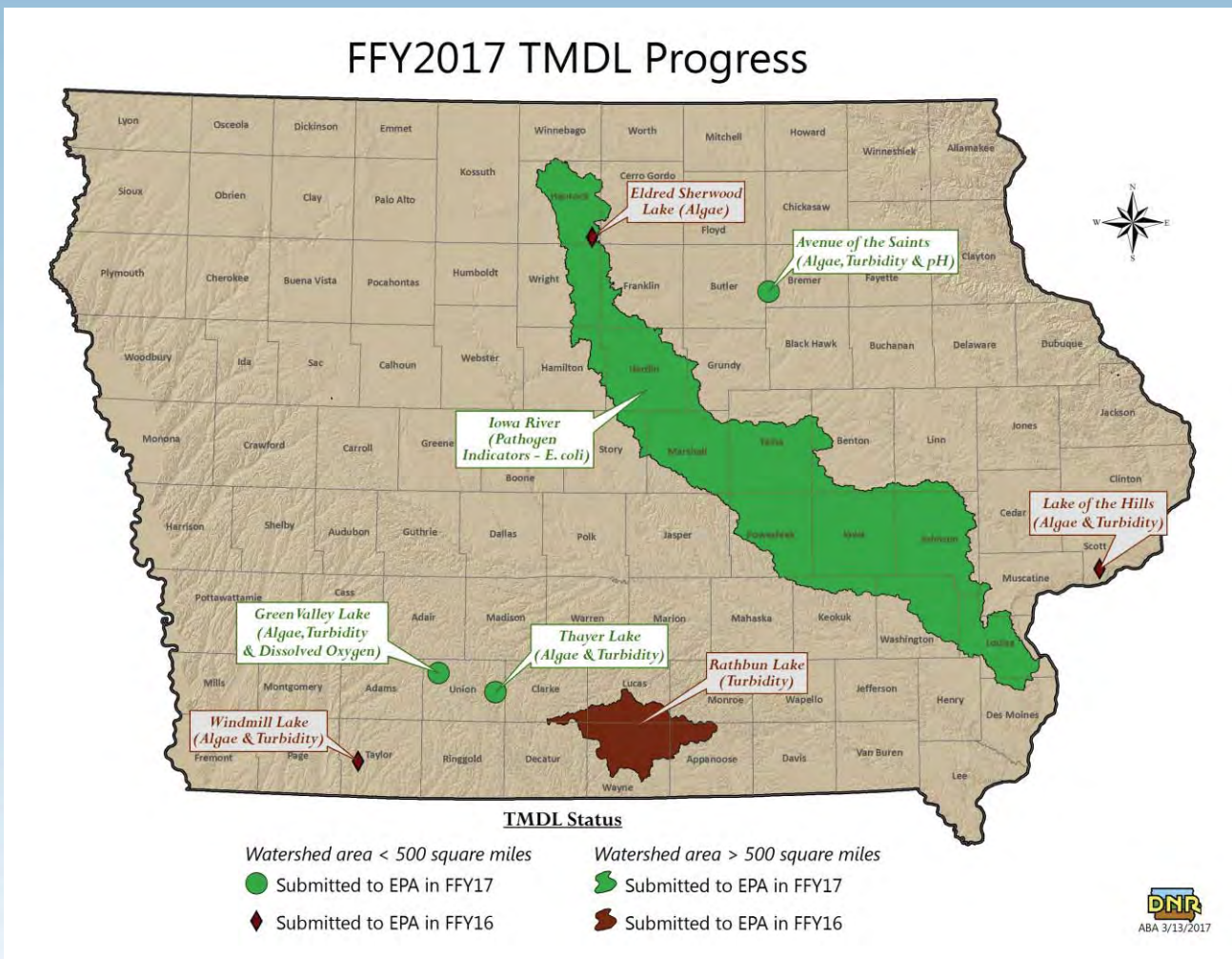
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FY17 DNR/Section 319 Highlights

Goal 3 – Science-based Performance

- Completed 8 TMDLs on 3 lakes
- Completed bacteria TMDLs on 47 Iowa River stream segments



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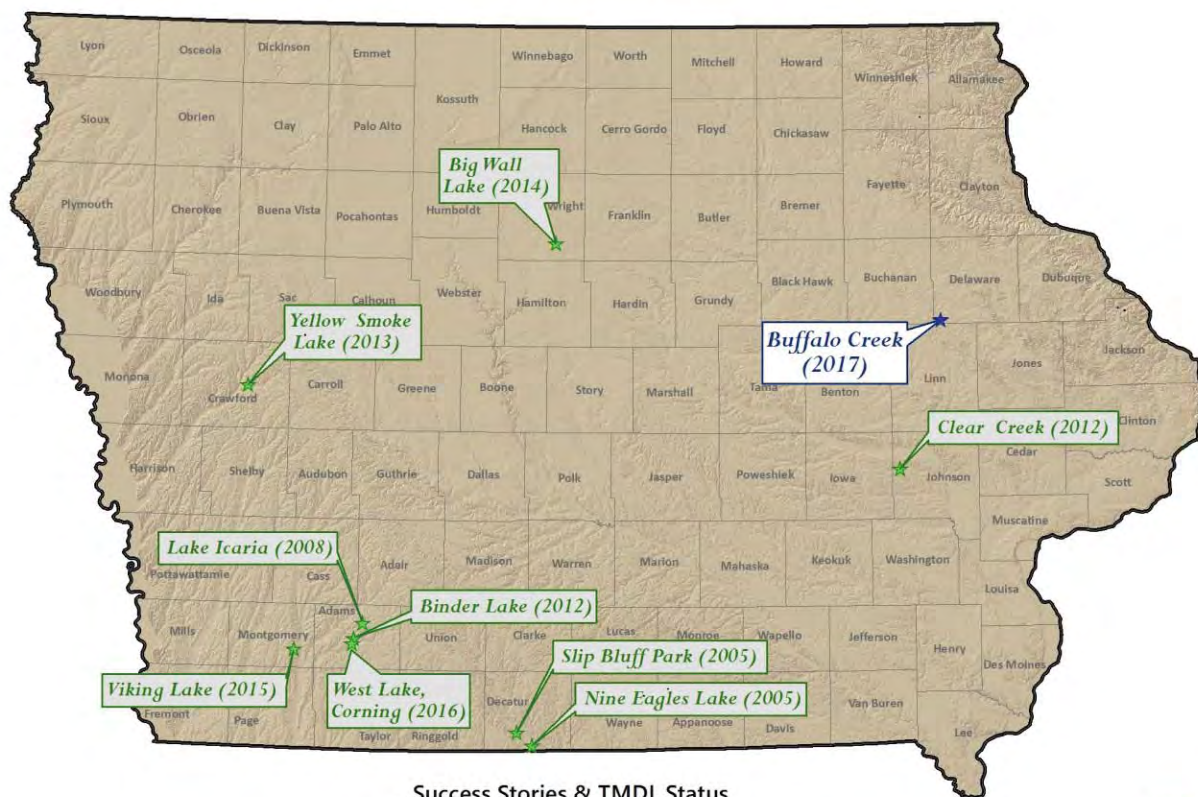
FY17 DNR/Section 319 Highlights

Goal 3 – Science-based Performance

EPA Success Stories

- Buffalo Creek
- IA - 10 total
- Other Midwest states:
 - KS - 11
 - MO - 10
 - IL - 10
 - NE – 9
 - MN - 7
 - WI - 6
 - SD - 5

FFY2017 & Previous Years' Success Stories



Success Stories & TMDL Status

- ★ FFY2017 Success Story ★ Previous Success Stories



ABA 1/2/2018

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FY17 DNR/Section 319 Highlights

Goal 3 – Science-based Performance

Conducted
monitoring to
track water
quality
improvement in
11 319-supported
watersheds



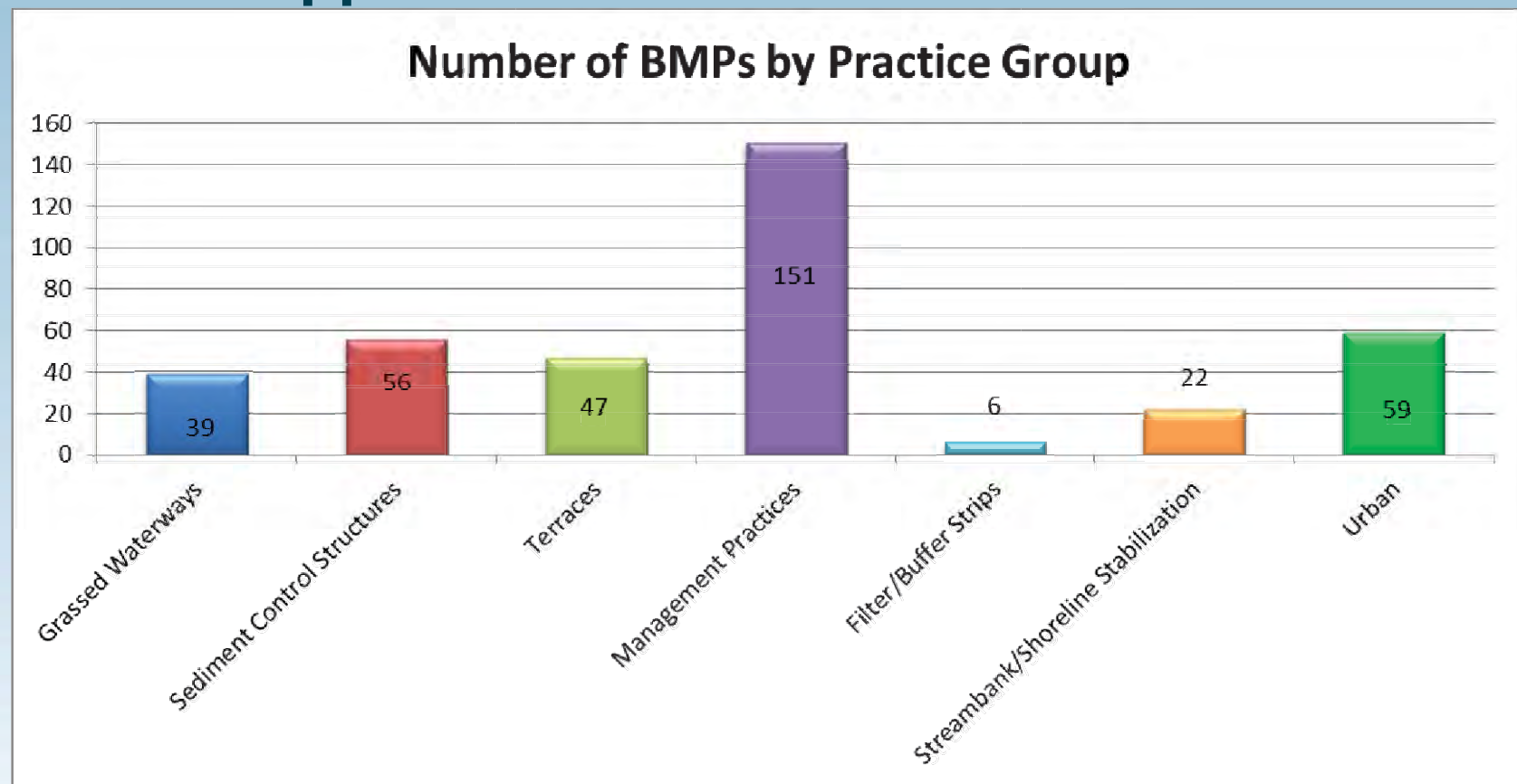
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FY17 DNR/Section 319 Highlights

Goal 3 – Science-based Performance

Supported installation of 380 BMPs



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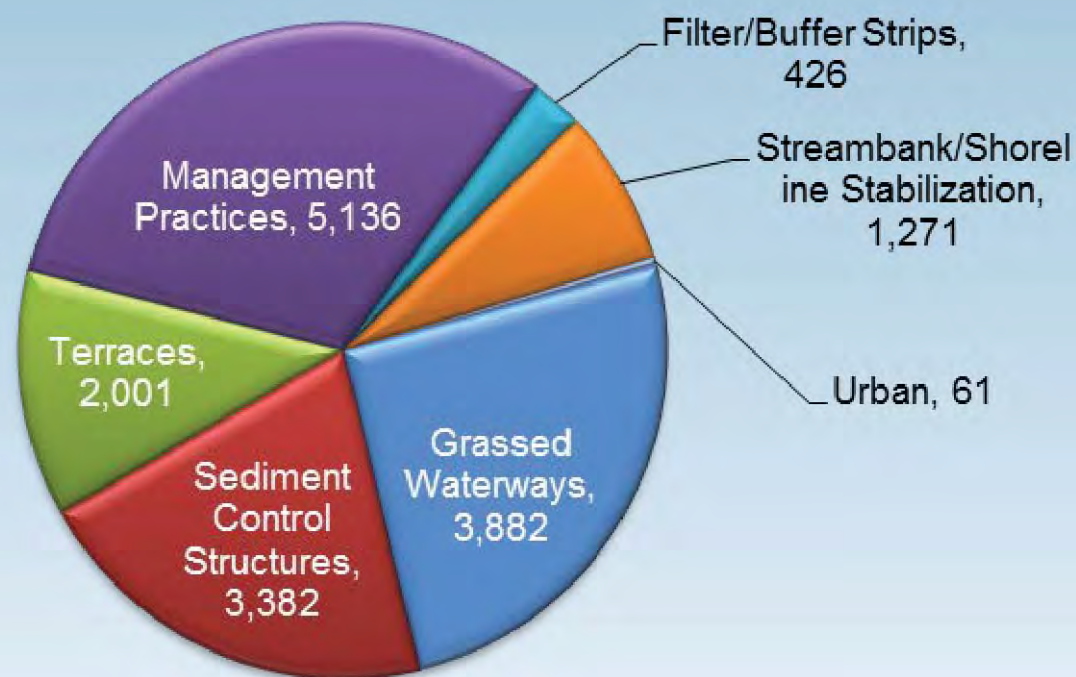


FY17 DNR/Section 319 Highlights

Goal 3 – Science-based Performance

...which reduced sediment reaching waterways by an estimated 16,451 tons...

Tons of Sediment Reduced by Practice Group



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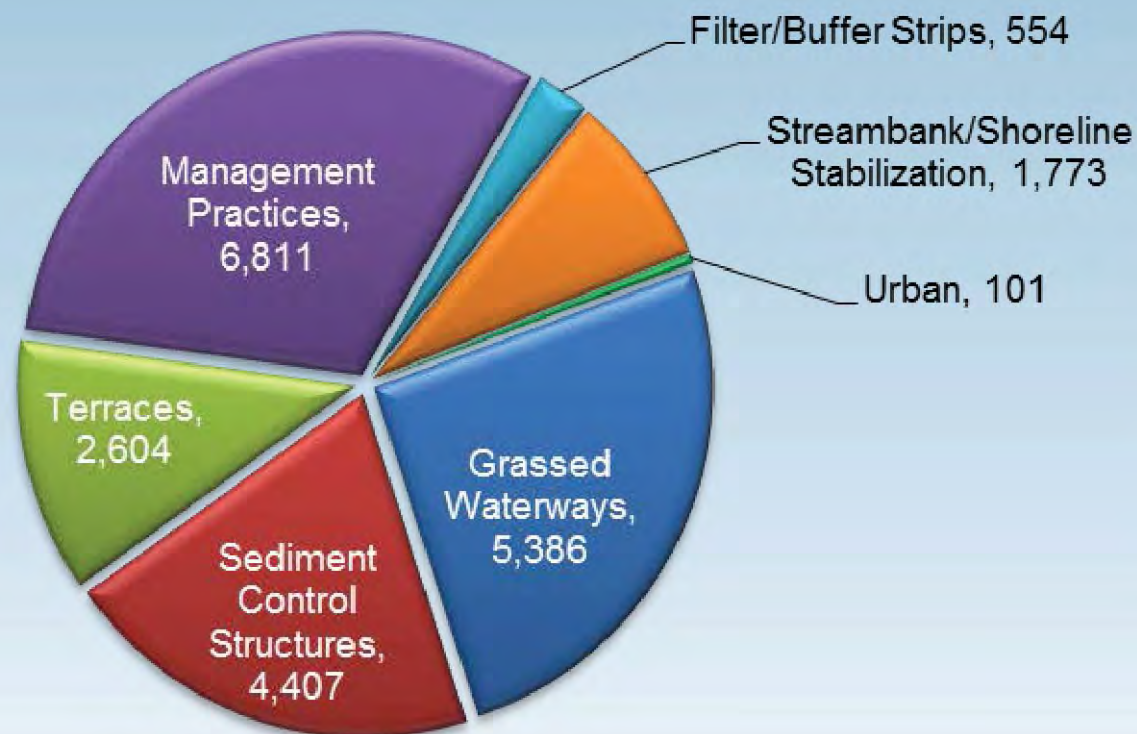


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Goal 3 – Science-based Performance

Pounds of Phosphorus Reduced by Practice Group

...and
phosphorus by
an estimated
21,836 pounds...



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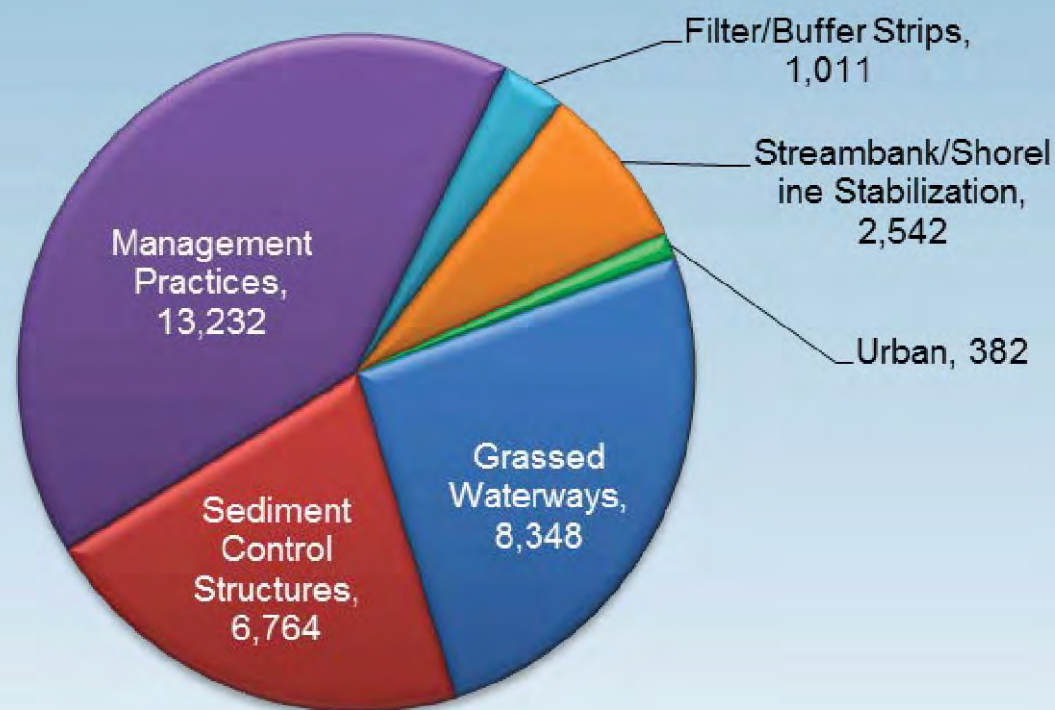


FY17 DNR/Section 319 Highlights

Goal 3 – Science-based Performance

Pounds of Nitrogen Reduced by Practice Group

...and nitrogen by
an estimated
32,279 pounds.



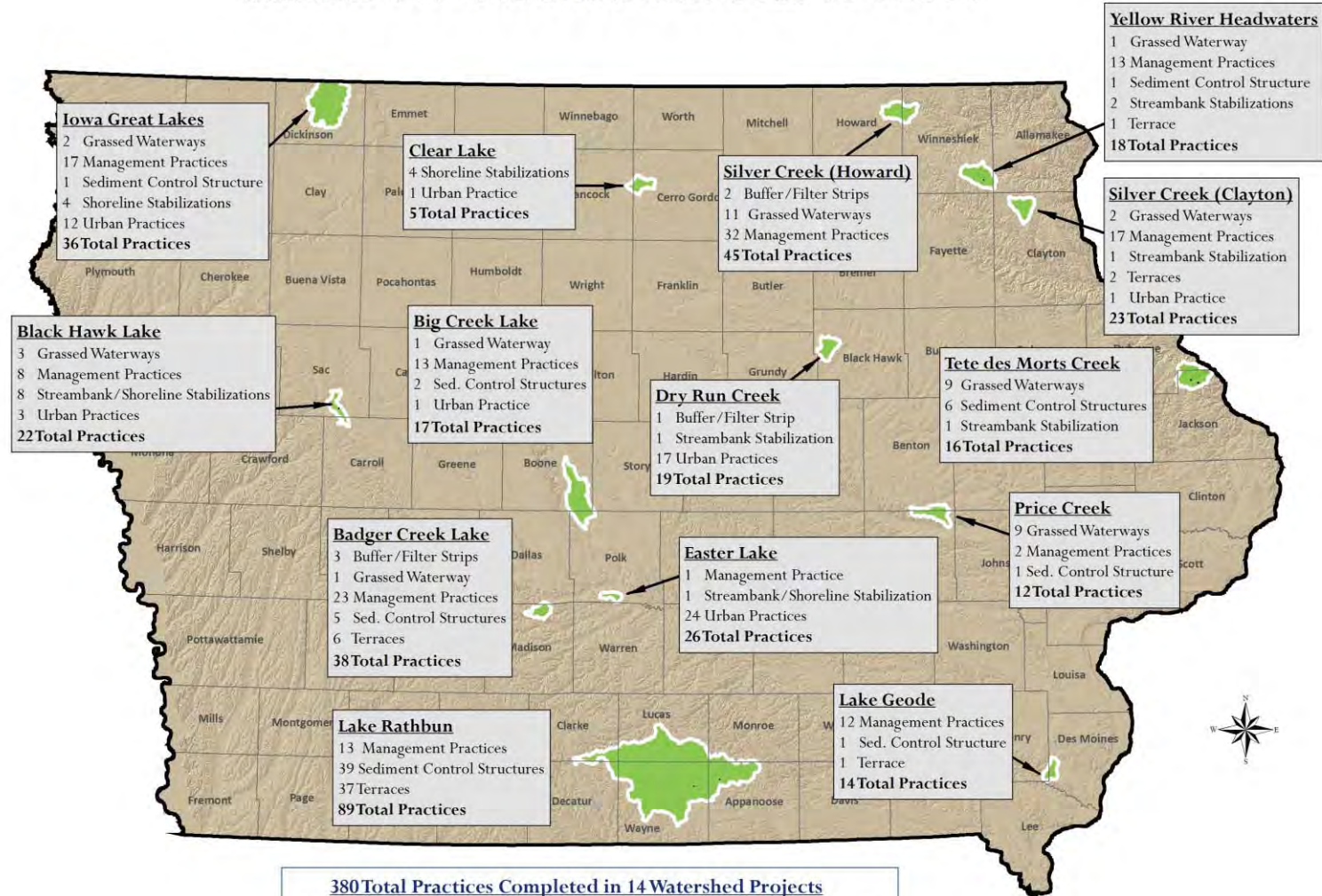
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FY17 DNR/Section 319 Highlights

Goal 3 – Science-based Performance

Section 319 Certified BMPs for FFY2017



380 Total Practices Completed in 14 Watershed Projects

6 Buffer or Filter Strips	22 Streambank/Shoreline Stabilizations
39 Grassed Waterways	47 Terraces
151 Management Practices	59 Urban Practices
56 Sediment Control Structures	

FY17 DNR/Section 319 Highlights

Goal 4 – Funding

- \$1.84M to 8 local WS projects
- \$560K to support planning for 8 WMAs (IWA)
- 14 Sec. 319 projects leveraged ~\$6.1M in local, state and other federal funds
- 233 loans worth \$5.3M thru SRF-NPS Prgm.
- \$4.9M committed to 10 SRF Sponsored Projects



Summary

- Making progress/more to do
- Maintain momentum
- Build campaign to inform, educate & motivate change
- Measure and monitor performance
- Plan available at:

<http://www.iowadnr.gov/Environmental-Protection/Water-Quality/Watershed-Improvement/Nonpoint-Source-Plan>



“A goal without a deadline is just a dream”

former Maryland Gov. Martin O'Malley

February 12, 2018

Thank you!
Questions?

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