

State of Iowa Nonpoint Source Management Plan FFY2015 Progress Report

May 12, 2016 WRCC Meeting

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DNR Watershed Improvement Section

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Overview

- Iowa Nonpoint Source Plan
- Annual Progress Report
- DNR/Section 319 Highlights



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Iowa Nonpoint Source Plan

- Required by Section 319 – Clean Water Act
- Condition of Iowa Receiving 319 Grant \$
- Purposes:
 - Set Goals, Objectives and Milestones for addressing Nonpoint Source Pollution (primarily: sediment, bacteria, nitrogen & phosphorus)
 - Guide State's 319 Program Priorities and Funding

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Iowa Nonpoint Source Plan

- Core Agency Partners:
 - DNR
 - IDALS
 - ISU
 - NRCS
 - CDI
- Included input from 55 stakeholder groups
- Update every 5 Years

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FY15 Nonpoint Source Management Plan Progress Report

Objective	Status	Description
Goal 1	↑	Build Partnerships to enhance a collaborative watershed approach to NPS water pollution
1.1	↑	Strengthen and expand agency collaboration
1.2	↑	Organize SWCDs to cooperate within watershed boundaries
1.3	↑	Develop local comprehensive visions and action plans for NPS water quality within HUC-12 watersheds
1.4	↑	Implement Smart Planning principles, as approved by Code of Iowa at watershed level
1.5	↑	Increase coordination between public and private entities to better leverage existing funding
Key: ↑ Meeting expectations ↗ Making progress ↔ Needs more attention		

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NPSMP Progress Report

Objective	Status	Description
Goal 2	↗	Improve technical assistance, outreach and education to facilitate NPS assessment, planning and implementation
2.1	↑	Build local and mutual accountability through community-based watershed and other groups to set expectations for conservation behavior
2.2	↗	Implement a “Conservation Central” system to consistently deliver local collaborative public and private technical and financial help across Iowa
2.3	↗	Develop a consistent, understandable message about conservation set for delivery by multiple groups
2.4	↗	Develop a visioning process for HUC-8 watersheds in Iowa
2.5	↔	Develop and implement a statewide campaign to inform people about water quality issues, motivate involvement, and change behavior
2.6	↔	Develop and implement conservation plans to adequately preserve soil productivity and to protect water quality for targeted priority areas

Key: ↑ Meeting expectations ↗ Making progress ↔ Needs more attention



NPSMP Progress Report

Objective	Status	Description
Goal 3	↗	Science-based performance measures
3.1	↔	Encourage greater public participation in the monitoring and evaluation of water quality best management practices
3.2	↑	Develop local natural resource goals with targeted solutions to meet watershed needs
3.3	↗	Utilize long-term research projects, including monitoring, funding, and alternative management practices to confirm post-project results of demonstration projects
3.4	↑	Place greater focus on up-scaling small-plot research to watershed scale
3.5	↗	Establish uniform practices and protocols for monitoring that can be applied to watershed needs
3.6	↗	Adopt system-based implementation and monitoring strategies versus practice-based approaches

Key: ↑ Meeting expectations ↗ Making progress ↔ Needs more attention



NPSMP Progress Report

Objective	Status	Description
Goal 4	↗	Funding
4.1	↑	Prioritize existing public programs that support science-based measures identified in Objective 3.2
4.2	↗	Improve interaction among private sector groups to invest in NPS issues and solutions
4.3	↗	Create new or revise existing sources to allow for local groups to be more flexible in implementing and testing innovative approaches
Key: ↑ Meeting expectations ↗ Making progress ↔ Needs more attention		

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FY15 DNR/Section 319 Highlights

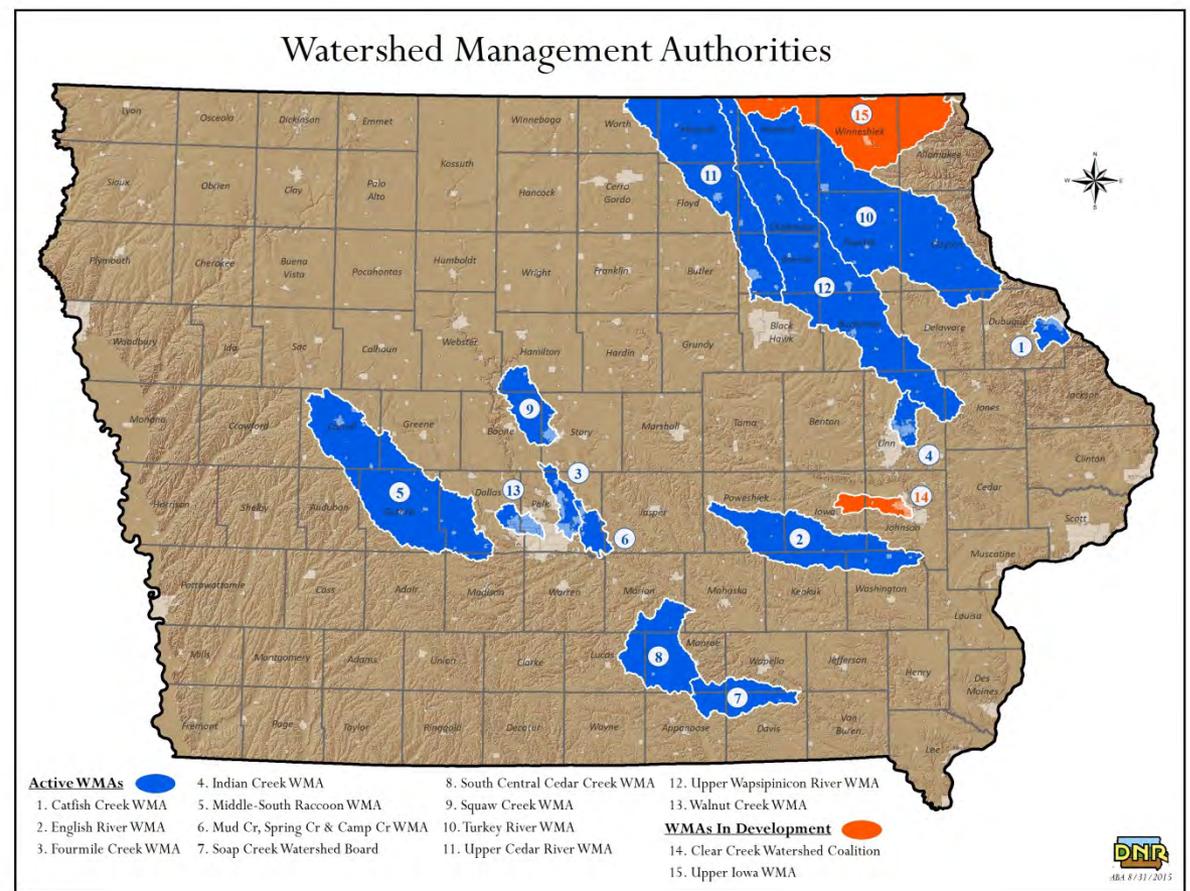
Goal 1 – Building Partnerships

13 Watershed Management Authorities formed since 2012

Funded planning in two WMAs:

Walnut Creek
Mud/Spring/Camp
Creeks

Offered an additional \$100,000 for WMA Planning.



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FY15 DNR/Section 319 Highlights

Goal 1 – Building Partnerships

- Financial support for 5 DNR/IDALS Regional Basin Coordinators
 - Support 80 local watershed projects
- Financial support for 15 Watershed Projects and 20 Project Coordinators
- “GOHIO”—“Getting Our Own House in Order”
 - Soil Quality Restoration at Big Creek Lake beach
 - Prairie STRIPS at Badger Creek Lake WMA
 - Pervious pavement at Union Grove Lake Park cabins
 - Installing LID practices at Honey Creek Resort
 - Planning LID practices at Capitol Complex with DAS
 - Cover crops on DNR Wildlife Area crop land

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FY15 DNR/Section 319 Highlights

Goal 2 – TA and Outreach

Produced and distributed 1000 copies of the 8th Annual Success Stories Booklet



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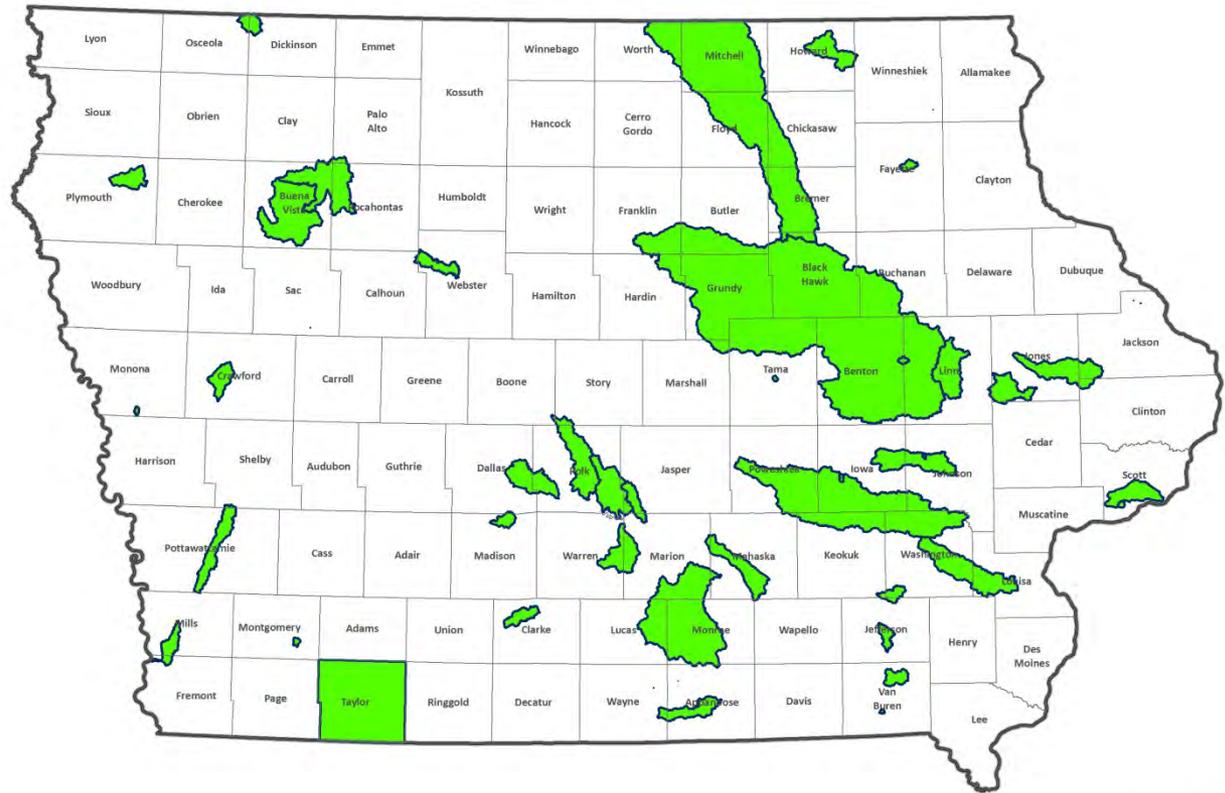
FY15 DNR/Section 319 Highlights

Goal 2 – TA and Outreach

Developed over
1000 maps for 41
different watershed
Projects funded
through:

Section 319
WSPF
WQI
WIRB

Watershed Projects Receiving DNR GIS Mapping Support, FFY2015

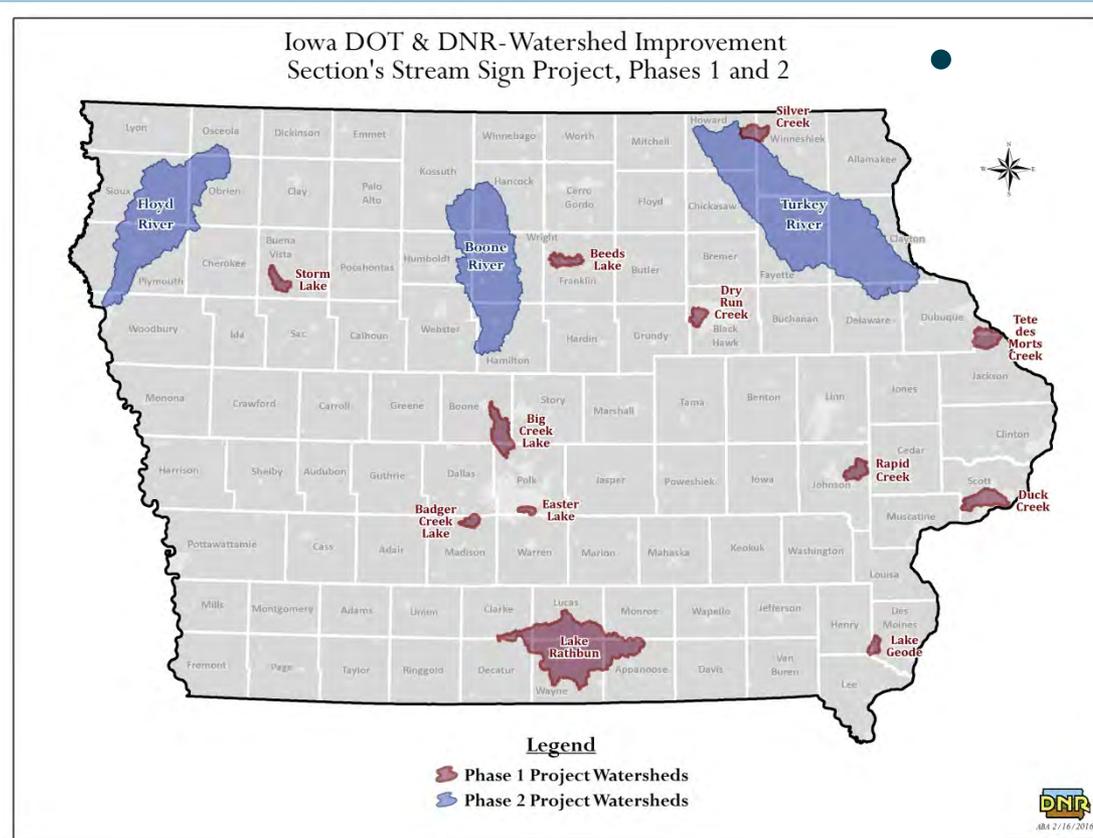


FY15 DNR/Section 319 Highlights

Goal 2 – TA and Outreach

DOT Stream Sign Project

Completed Phase 1 (40 crossings) / Initiated Phase 2 (63 crossings)



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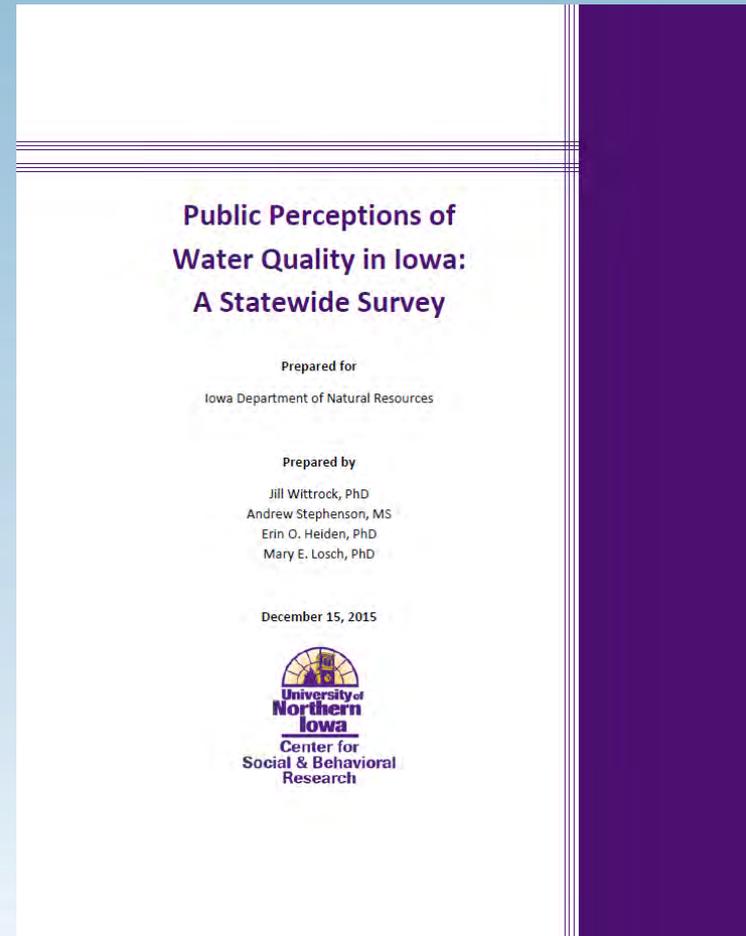


FY15 DNR/Section 319 Highlights

Goal 2 – TA and Outreach

Purpose: Complete a baseline survey of Iowans to inform a statewide campaign to raise awareness on WQ issues, motivate involvement, & change behavior.

- Survey: 4 Focus Groups and Phone Survey (2080 interviews)
- Views and attitudes on WQ
- Understanding of WQ and pollution causes
- Water-related activities & practices
- Awareness of ways to improve WQ
- Responsibility for improving WQ
- Willingness to invest in WQ



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FY15 DNR/Section 319 Highlights

Goal 2 – TA and Outreach

Supported Farmer and Youth Education & Outreach

Including 31 farmer workshops/field days, reaching 1,487 people

Including three teacher summits training over 75 teachers



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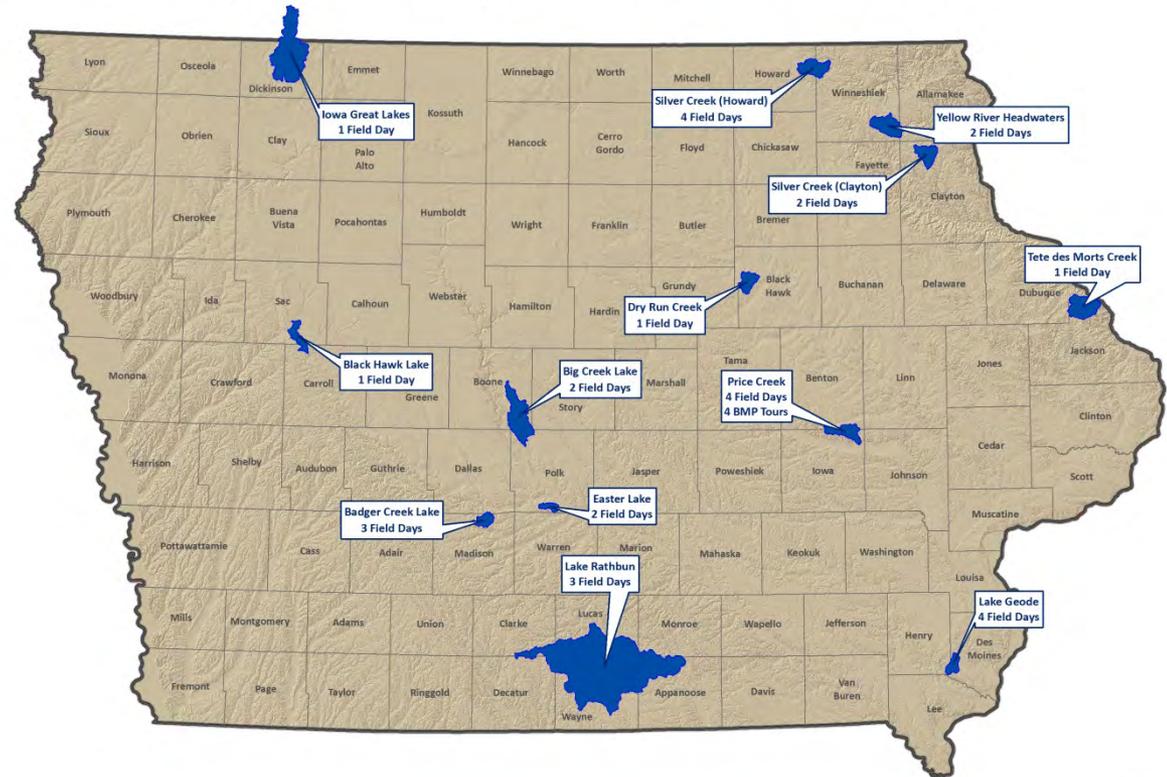


FY15 DNR/Section 319 Highlights

Goal 2 – TA and Outreach

Supported
30 field days +
4 BMP tours in
13 watershed
projects

Field Day Events Held by Section 319 Watershed Projects



IA 2/15/2016

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FY15 DNR/Section 319 Highlights

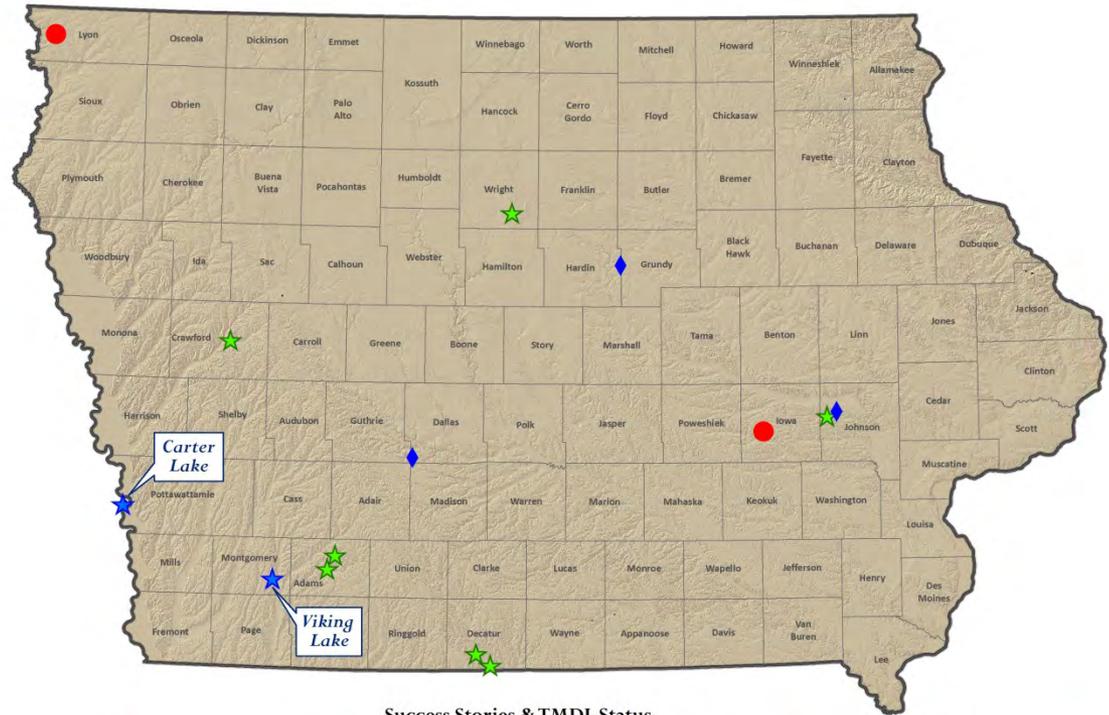
Goal 3 – Science-based Performance

- Completed 3 TMDLs on 2 lakes
- EPA approved 7 TMDLs on 3 lakes

EPA Success Stories

- Viking Lake
- Carter Lake
- Iowa – 9 total
- Other Midwest states:
 - KS - 11; MO - 9; NE - 7
 - IL – 9; MN – 6; WI – 5; SD – 5

FFY2015 TMDLs & Section 319 Success Stories



Success Stories & TMDL Status

★ FFY2015 Success Stories ★ Previous Success Stories ◆ TMDL Approved ● TMDL Submitted



FY15 DNR/Section 319 Highlights

Goal 3 – Science-based Performance

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



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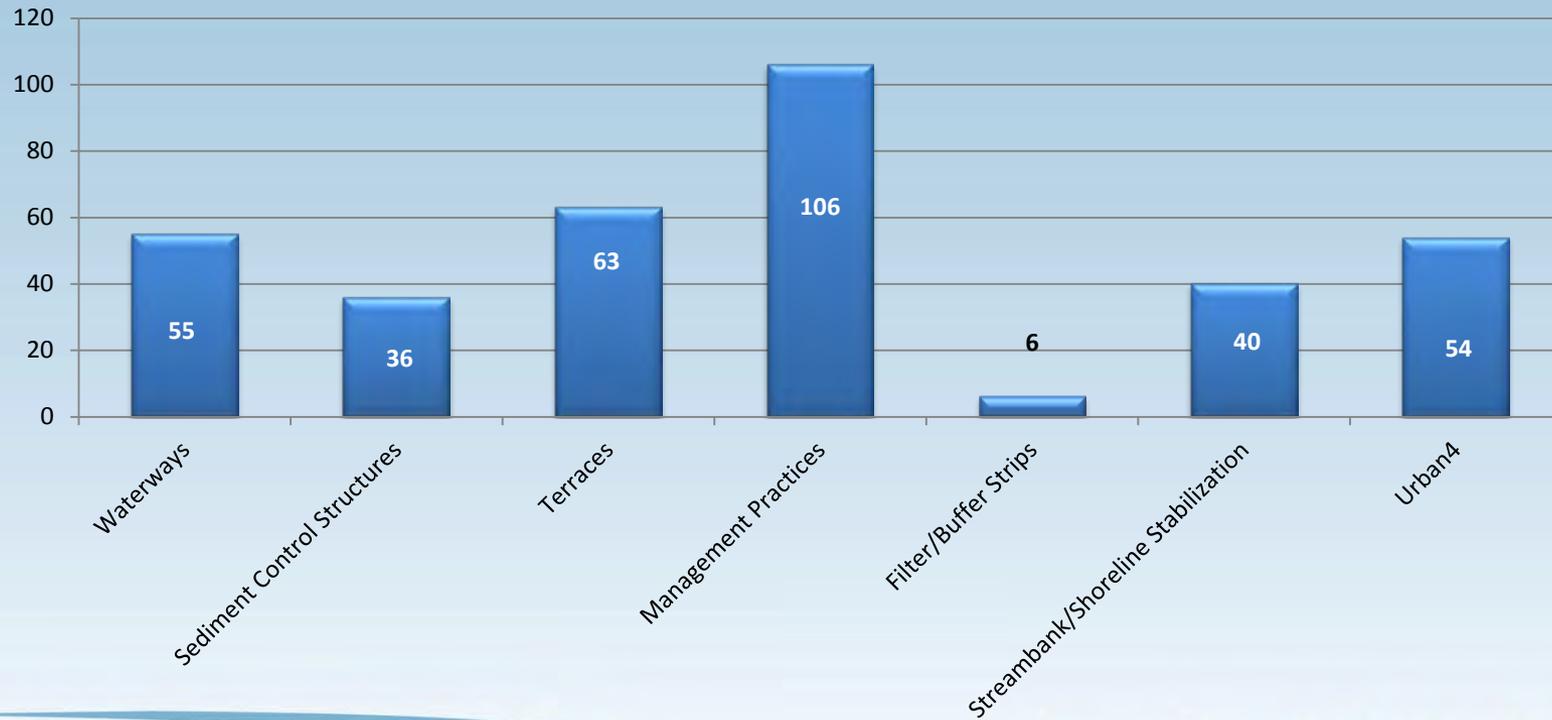


FY15 DNR/Section 319 Highlights

Goal 3 – Science-based Performance

Supported installation of 360 BMPs (10%↑)

Number of Practices by Practice Type



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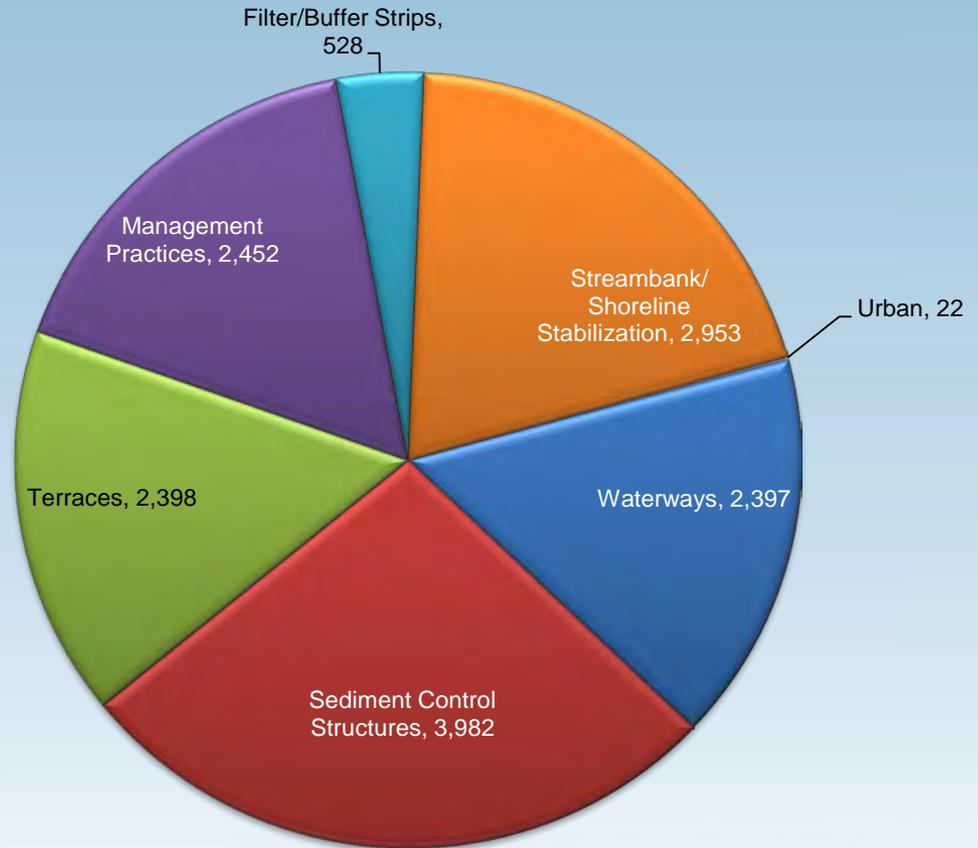


FY15 DNR/Section 319 Highlights

Goal 3 – Science-based Performance

...which reduced sediment reaching waterways by an estimated 14,732 tons...

Tons of Sediment Reduced by Practice Type



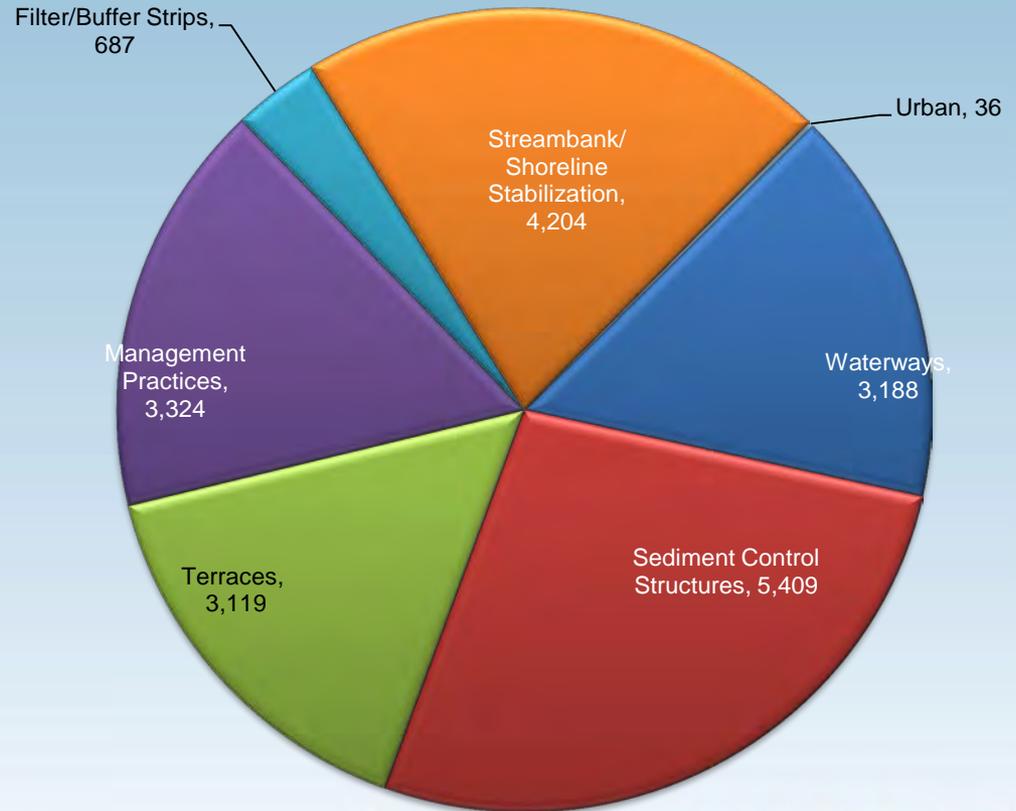
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FY15 DNR/Section 319 Highlights

Goal 3 – Science-based Performance

Pounds of Phosphorus Reduced by Practice Type



...and
phosphorus by
an estimated
19,967 pounds...

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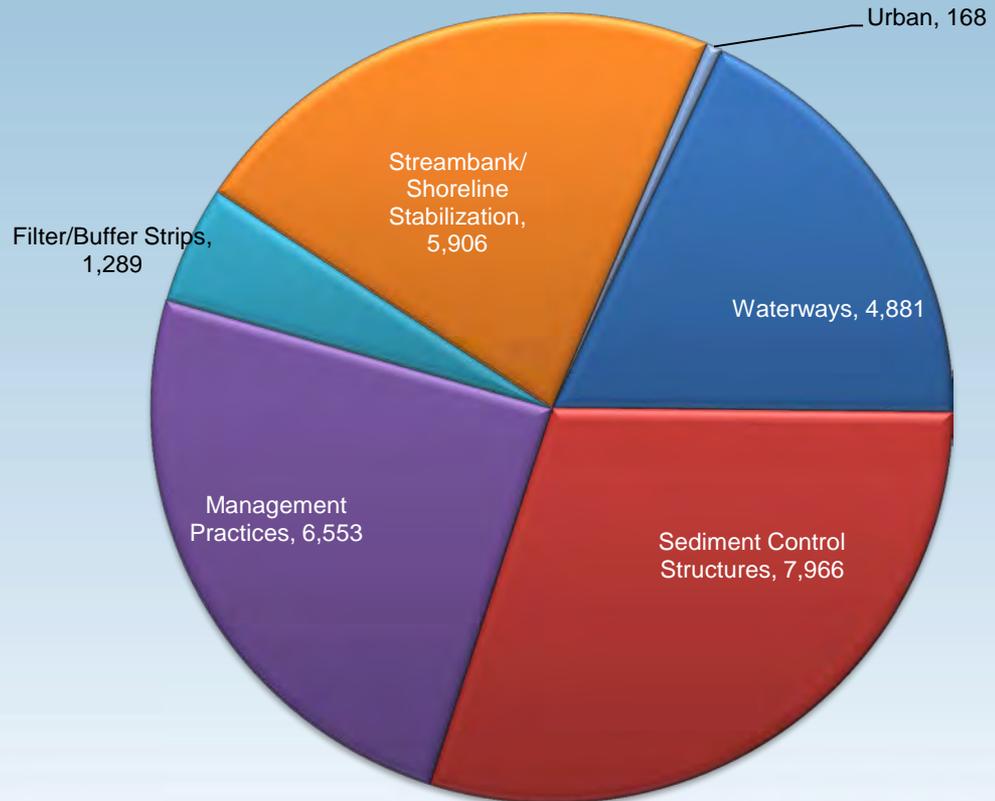


FY15 DNR/Section 319 Highlights

Goal 3 – Science-based Performance

...and nitrogen by
an estimated
26,763 pounds.

Pounds of Nitrogen Reduced by Practice Type



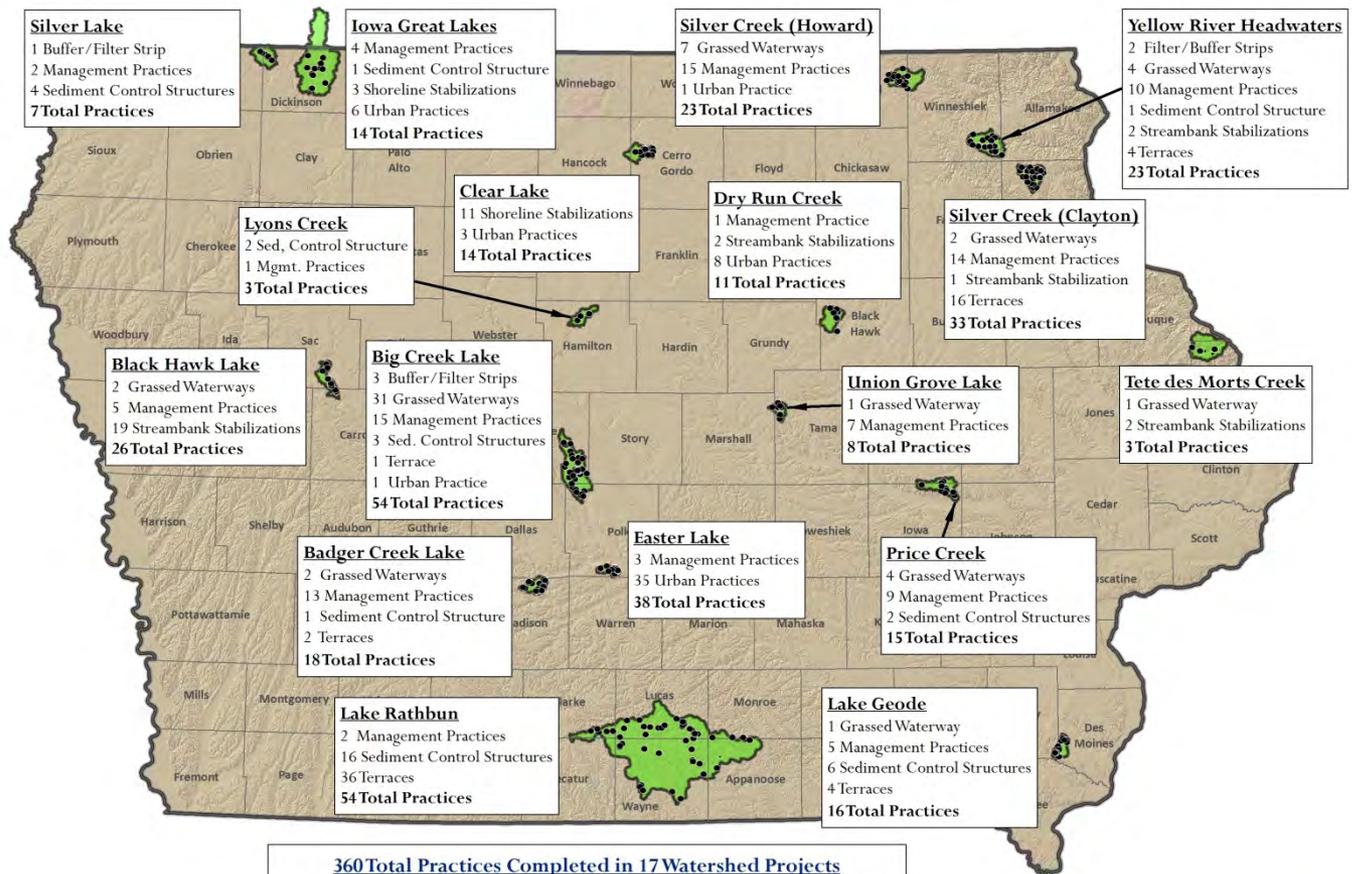
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FY15 DNR/Section 319 Highlights

Goal 3 – Science-based Performance

FFY2015 Section 319 BMPs Completed



360 Total Practices Completed in 17 Watershed Projects

6 Buffer or Filter Strips	40 Streambank/Shoreline Stabilizations
55 Grassed Waterways	63 Terraces
106 Management Practices	54 Urban Practices
36 Sediment Control Structures	



ABA 2/15/2016



FY15 DNR/Section 319 Highlights

Goal 4 – Funding

- \$1.4 Million to 4 local watershed projects
- \$806,000 to 3 statewide projects
- \$202,000 to 2 WMAs for planning

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FY15 DNR/Section 319 Highlights

Goal 4 – Funding

- Leveraging: Over \$4 Million Leveraged by 16 Section 319 projects leveraged in local, state and other federal funds
- Loans: Over \$40 Million in loans through CWSRF-NPS Program.
- SRF: \$10.58 Million committed to 18 SRF Sponsored Projects
- Total: \$54.58 Million

Summary

- Making progress, but more to do
- Maintain momentum
- Build statewide water quality campaign to inform, educate & motivate change
- Measure and monitor performance

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Nonpoint Source Plan available at:

<http://www.iowadnr.gov/Environment/WaterQuality/WatershedImprovement/WatershedPlanning/NonpointSourcePlan.aspx>

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