

Policy Working Group March 29, 2021



EXTENSION COLLEGE OF AGRICULTURAL, CONSUMER & ENVIRONMENTAL SCIENCES

> ILLINOIS NUTRIENT LOSS REDUCTION STRATEGY

Agenda

10:30 – 10:40 am	Welcome and Introductions – Eliana Brown
10:40 – 10:55 am	Science Team Practice Approval Results – Jonathan Coppess
10:55 – 11:10 am	Biennial Report Status – Eliana Brown
11:10 – 11:25 am	Nutrient Explorer Update – Kate Gardiner
11:25 – 11:40 am	Update on NLR Practices for Illinois – Dan Schaefer
11:40 – 11:55 am	Fall Covers for Spring Savings – Brian Rennecker
11:55 am – Noon	Next Steps – Trevor Sample



Introductions

Type your name and affiliation in the chat box.



Introductions

Michael Woods, Illinois Dept of Agriculture Division Manager Division of Natural Resources



Science Team Practice Approval Results

Jonathan Coppess, University of Illinois



NLRS Science Team



Laura Christianson Crop Sciences



Jonathan Coppess Agriculture and Consumer Economics



Paul Davidson Agricultural and Biological Engineering



Dennis Bowman Agriculture and Natural Resources



Maria Villamil Crop Sciences



Andrew Margenot Crop Sciences



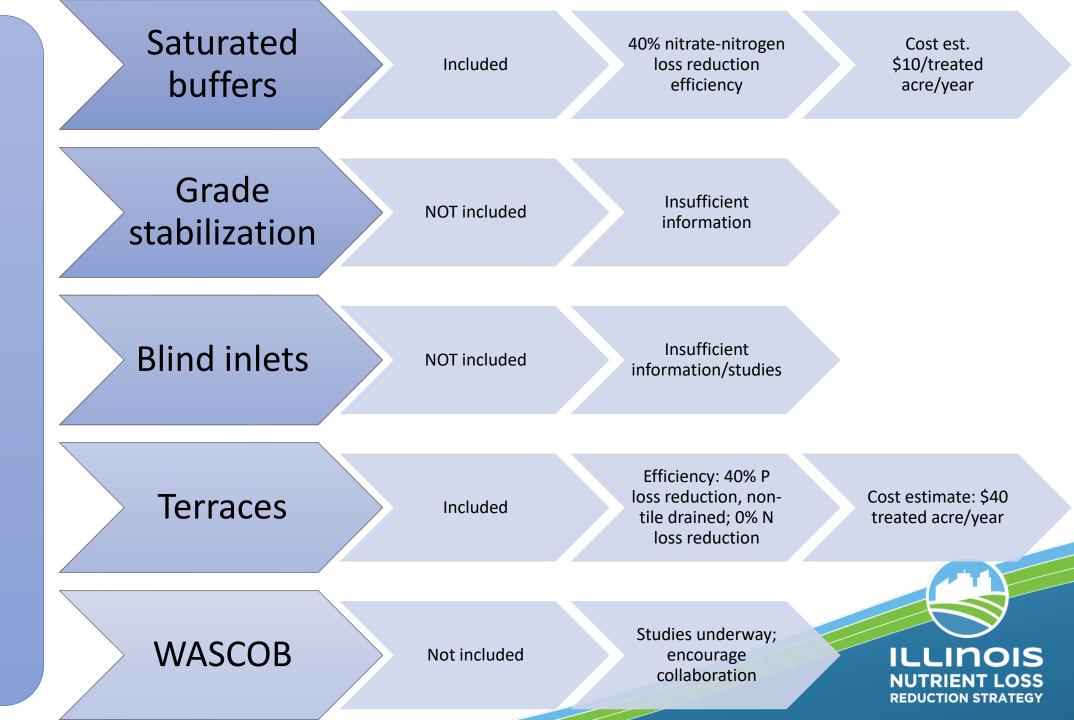
Reid Christianson Crop Sciences



George Czapar Crop Sciences



NLRS Science Team Proposed Practice Decisions 2020 Submissions



Biennial Report Status

Eliana Brown



Chapter 3: Science Assessment Update

Nitrogen-N and Phosphorus River Loads by Gregory F. McIsaac

Introduction

Methods

Results

U.S. Geological Survey Continuous Loadings Network by Paul Terrio

Summary of 2020 Illinois NLRS Scenarios by Reid Christianson

Background

Scenario Summary

Methods

Results

Conclusion

Background Literature

Science Team Proposed Practice Decisions by NLRS Science Team

REDUCTION STRATEGY

Decision process

Saturated buffers

Grade stabilization

Blind inlets

Terraces

WASCOBs

Chapter 4: Agricultural Sector

Imple	ementation Report
Res	source Measures
	Staff Resources
	Funding Resources
Ou	treach Measures
	Outreach Activities
	Topics
Lar	nd and Facilities Measures
	US Department of Agriculture
	Farm Service Agency
	Conservation Reserve Program (CRP)
	Cover Crops
	Natural Resources Conservation Service
	Environmental Quality Incentive Program (EQIP)
	Conservation Stewardship Program (CSP)
	Agriculture Conservation Easement Program (includes WREP)
	Mississippi River Basin Healthy Watersheds Initiative
	National Water Quality Initiative
	Regional Conservation Partnership Program
	Upper Macoupin Creek Watershed Partnership
	Illinois Headwaters Conservation Partnership
	Otter Lake Source Water Protection
	Precision Conservation Management (NRCS)
	RB-Big Bend Enhancing Water-Soil-Habitat Quality
	Driftless Area Habitat for the Wild & Rare Phase 2



Chapter 4: Agricultural Sector (con't)

US Department of Agriculture (con't)	
National Agricultural Statistics Service	
Illinois NLRS Survey	
Nitrogen Management	
Nitrification Inhibitors	
Fertilizer Application Strategies	
Phosphorus Management	
Cover Crops	
Edge-of-Field Questions	
Illinois Department of Natural Resources	
Conservation Reserve Enhancement Program (CREP)	
Illinois Department of Agriculture	
Partners for Conservation Program	
Illinois Soil Conservation Transect Survey	
Streambank Stabilization and Restoration Program	
Fall Covers for Spring Savings	
Illinois Environmental Protection Agency	
Section 319 Non-Point Source Program	
University of Illinois	
Woodchip Bioreactors	
Illinois Extension Watershed Outreach Associates	



Chapter 4: Agricultural Sector (con't)

Current Programs and Projects Supporting Nutrient Loss Reduction Goals
Non-Governmental Organization Programs and Projects
Edge-of-Field Partnerships for Saturated Buffers
Edge-of-Field Partnerships for Woodchip Bioreactors
Field Laboratories
The Franklin Demonstration and Research Farm
Illinois Buffer Partnership
Illinois Cover Crop Programs
Illinois Sustainable Agriculture Partnership
5-Year Soil Health Transition
Advanced Conservation Drainage Training
Advanced Soil Health Training
Crop Grower Satellite Imagery Analysis
Illinois Alphabet Soup Group
Local Farmer-Led Networks
Risk Management Conference
Keep it 4R Crop Program
4R Metrics
Nitrogen Rate Trials
Water Supply & Industry Partnerships



Chapter 4: Agricultural Sector (con't)

ent Programs and Projects Supporting Nutrient Loss Reduction Goals (con't)
Leadership for Midwestern Watersheds
Nutrient Research & Education Council
Nutrient Stewardship Grant Program
Precision Conservation Management (IL Corn)
The S.T.A.R. Farmer Recognition Program
Upper Macoupin Watershed Regional Conservation Partnership Program
Women for the Land
etric Collection
ture Strategic Actions
Agricultural Water Quality Partnership Forum



Chapter 5: Point Source Sector

Implementation Report	
Resource Measures	
Staff Resources	
Funding Resources	
Outreach Measures	
Outreach Activities	
Topics	
Land and Facilities Measures	
Progress Across Illinois	
Statewide Total Phosphorus Reductions for 2019-2020	
Total Phosphorus Reductions from Individual Dischargers	
Nutrient Reduction Special Conditions	
Nutrient Assessment Reduction Plans	
Statewide Total Nitrogen Reductions for 2019-2020	
Method for Calculating Point Source Nutrient Loads	
NPDES Permits Issued with Nutrient Criteria	
Watershed Approach	
Fox River Study Group	
DuPage River Salt Creek Workgroup	
Lower Des Plaines Watershed Group	
Lower DuPage River Watershed Coalition	
North Branch Chicago River Watershed Workgroup	
The Des Plaines River Watershed Workgroup	IL



Chapter 5: Point Source Sector (con't)

Current Programs and Projects Supporting Nutrient Loss Reduction Goals

Agriculture and Point Source Sector Partnership: Testing Best Management Practices

Total Maximum Daily Loads

Concentrated Animal Feeding Operations

State Livestock Management Facilities Act

State Revolving Fund

Future Strategic Actions

Unsewered Communities Grant Program



Chapter 6: Stormwater Sector

Implementation Report	
Resource Measures	
Staff Resources	
Funding Resources	
Outreach Measures	
Outreach Activities	
Topics	
Land and Facilities Measures	
Illinois Environmental Protection Agency Section 319 Grant Program	
GIGO	
MS4 Report Analysis	
Data Considerations	
Findings	
Metric Establishment and Collection	



Chapter 6: Stormwater Sector (con't)

Current Programs and Projects Supporting Nutrient Loss Reduction Goals

Urban Stormwater ILR10 Permit Reissued MWRDGC Rain Barrels and Green Infrastructure Programs Calumet Stormwater Collaborative IDOT IDNR Coastal Programs CMAP DuPage County Green Infrastructure Inventory DuPage County Water Quality Improvement Program East Branch DuPage River Watershed Plan **Equitable Green Infrastructure National Green Infrastructure Certification Program** Lawn to Lake **Conservation@Home Future Strategic Actions** Urban Stormwater Working Group



Chapter 7: Working Group Accomplishments

Policy Working Group

Communication Subgroup

Agriculture Water Quality Partnership Forum

Agriculture Water Quality Partnership Forum Technical Subgroup

Urban Stormwater Working Group

Urban Stormwater Education Subgroup

Urban Stormwater Tracking Subgroup

Nutrient Monitoring Council

Performance Benchmark Committee

ILLINOIS NUTRIENT LOSS REDUCTION STRATEGY

Chapter 8: Adaptive Management & Measuring Progress

Water Quality Goals **Reporting challenges Agricultural Implementation Progress Point Source Implementation Progress** Adopting New Conservation Practices and Updating Practice Performance **Proposal Submission Process Update** Watershed-Based Plans **Looking Ahead Future Strategy Considerations Potential Future Resource Needs Partners for Conservation** Soil and Water Conservation Districts Wastewater Treatment Facility Upgrades **Stormwater Practice Adoption** Water Quality Monitoring **U.S. Geological Survey Illinois EPA Illinois NLRS Meetings and Reporting**

REDUCTION STRATEGY

Draft Review

Policy Working Group:

Thank you for submitting the requested information for the Biennial Report. Below are links to the chapter drafts.

INSTRUCTIONS: We ask that you review the areas that are applicable to your sector -- especially the sections that you contributed.

You'll find two versions: word doc and pdf. You may use either one. For the word doc, please track your changes so we can see them. Otherwise, we may not be able to capture your suggestions. A lower tech alternative is to print out the pdf, make handwritten comments, and scan it. You'll have 2 weeks for review. RETURN IT BY_____.

Chapters 1 and 2 (Executive Summary and Introduction) will be written post-feedback Chapter 3: Science Assessment Update - <u>Here</u>. Chapter 4: Agricultural Sector - <u>Here</u>. Chapter 5: Point Source Sector - <u>Here</u>. Chapter 6: Urban Stormwater Sector - <u>Here</u>. Chapter 7: Working Group Accomplishments - <u>Here</u>. Chapter 8: Adaptive Management - <u>Here</u>.



Timeline

Draft Review	Due Date
First draft due to PWG	15-Apr
Comments due back to Extension	30-Apr
Draft due to Steering Committee	15-May
Comments due back to Extension	30-May
Develop appendices of spreadsheets (Resource & Outreach)	7-Jun
Final changes before design	7-Jun
Design	
Text and photos (and alt-text) to graphic designer	9-Jun
Design work	9-Jul
Final Stretch	
Notify directors of incoming draft report	2-Jul
Notify print shop of incoming printing job	7-Jul
Copy editing	9-Jul
Final changes	16-Jul
Hand to Directors	16-Jul
Directors hand in review	30-Jul
Due to printer	7-Aug
Biennial Report completed	31-Aug
Online version with Appendices	31-Aug



NLRS Explorer Update

Kate Gardiner



NLRS Explorer

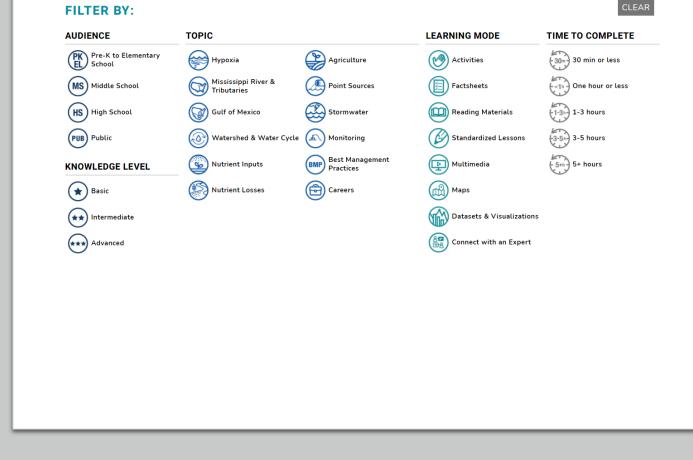
- Collaboration between the Illinois NLRS Extension Team and the Illinois-Indiana Sea Grant educators
- GOAL: Increase awareness of hypoxia, the Illinois NLRS efforts, and what people can do to help
 - ...by getting a younger generation interested in this topic
- The toolkit offers educational resources in one convenient place and covers a wide range of topics related to the nutrient strategy



NLRS Explorer

Users can filter the resources by:

- Audience
- Topic
- Learning Mode
- Time required to complete
- Knowledge level



NLRS Explorer

• Demonstration:

<u>https://iiseagrant.org/education/nutrient-loss-reduction-strategy-</u> toolkit/





Trevor Sample





Congratulations on your retirement!

JEAN PAYNE