

Illinois NLRs AWQPF Technical Subgroup Meeting

Virtual Meeting
December 10, 2024
10 – 11:20 AM



Illinois Extension
UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN



ILLINOIS
NUTRIENT LOSS
REDUCTION STRATEGY

Welcome

Joan Cox, Illinois Extension



ILLINOIS
NUTRIENT LOSS
REDUCTION STRATEGY

Roles

Moderator/Presenter: *Joan Cox, Illinois Extension*

Meeting minutes: *Amanda Christenson, Illinois Extension*



Attendance

Please type your name and affiliation into the chat box.



Agenda

10:00 – 10:05	Welcome and Introductions
10:05-10:30 (25 min)	<p>Showcase and Discussion: BMP dashboard example and Illinois NLRs ag BMPs by county, HUC 8, HUC 12 (2011-22)</p> <p><i>Joan Cox, Illinois Extension</i></p> <ul style="list-style-type: none"> •FSA (CRP, Cover Crop Reporting) •NRCS (EQIP, CSP, ACEP), (RCPP, MRBI, NWQI) •IDOA (PFC, SSRP, Fall Cover for Spring Savings, OpTIS, LMFA) •IDNR (CREP) •IEPA (319, 604b, watershed plans)
10:30- 10:40 (10 min)	<p>Discussion: Data displays for conservation practices (by practice by program)</p> <p><i>Joan Cox, Illinois Extension</i></p>
10:40 – 10:50 (10 min)	<p>2023-2024 Land Measures Reporting, Joan Cox, Illinois Extension</p> <ul style="list-style-type: none"> •FSA (CRP, Cover Crop Reporting) •NRCS (EQIP, CSP, ACEP), (RCPP, MRBI, NWQI) •IDOA (PFC, SSRP, Fall Cover for Spring Savings, OpTIS, LMFA) •IDNR (CREP) •IEPA (319, 604b, watershed plans) •NASS-2024 NASS Survey results •Government Program Narratives
10:50- 11:05 (15 min)	<p>2023-24 Government Program Update Narratives, Joan Cox, Illinois Extension</p> <ul style="list-style-type: none"> •Revamping narratives to simplify and working 1 on 1 to identify static vs dynamic content for dashboard due January 31, 2025
	<p>2023-2024 Resources and Outreach spreadsheets and data display examples</p> <p><i>Joan Cox and Amanda Christenson, Illinois Extension</i></p> <ul style="list-style-type: none"> •R & O Spreadsheets due Jan. 31, 2025 •Land & Facilities data due Jan. - Mar. 2025
11:05-11:20 (15 min)	<p>Illinois NLRs Portal Progress Update and Ag partner timeline</p> <p><i>Joan Cox, Illinois Extension</i></p> <p>Q&A</p>

Showcase and Discussion: BMPs



BMP interactive data dashboard examples

Great Lakes to Gulf

<https://greatlakestogulf.org/bmp>

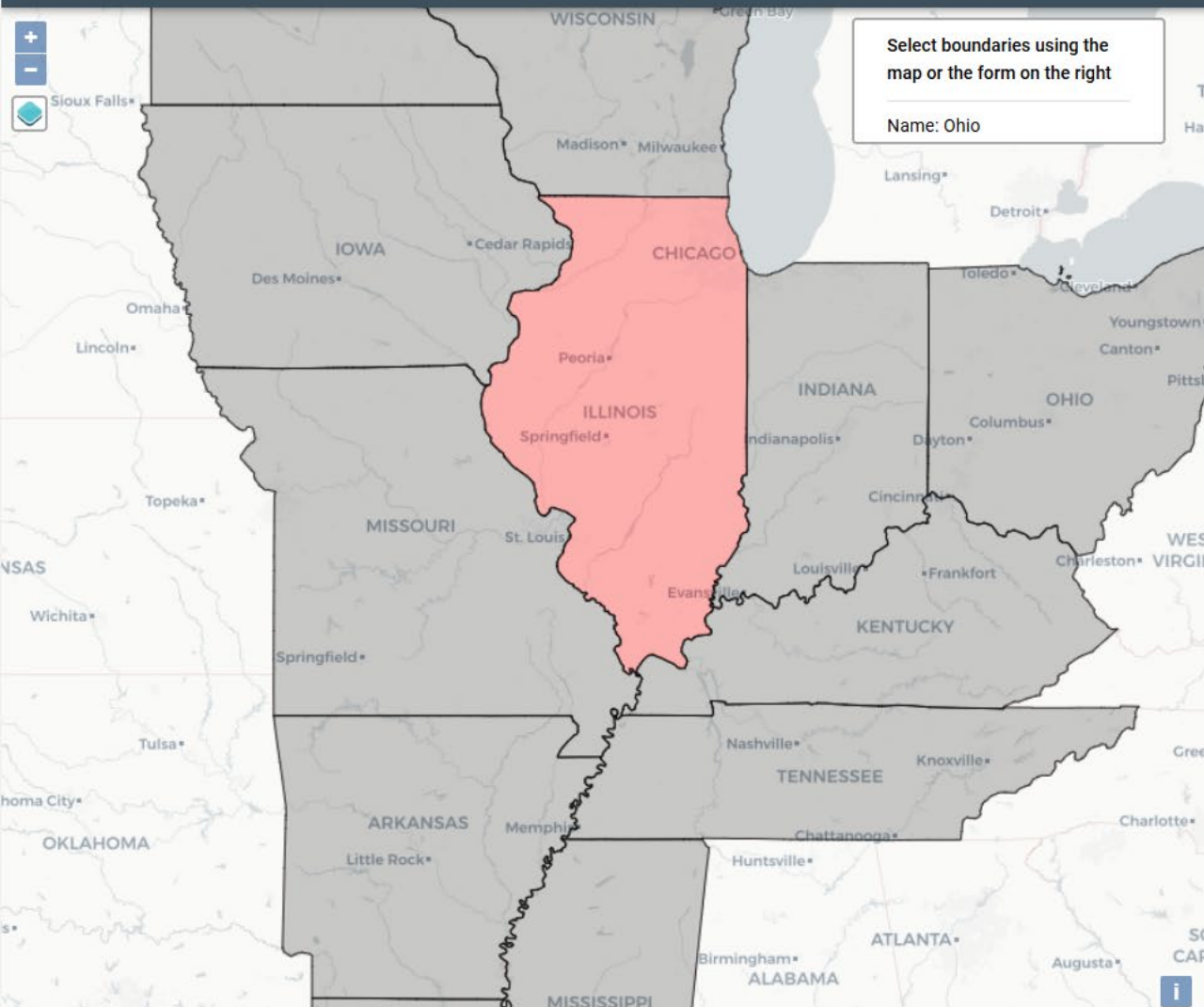
Minnesota Nutrient Reduction Strategy

<https://www.pca.state.mn.us/air-water-land-climate/reducing-nutrients-in-waters>



Best Management Practices

ABOUT BMP



Parameter Selections

CLEAR PARAMETERS

Select Boundary type

STATE HUC-8 State

Illinois

Select Data Range



Results

DOWNLOAD PDF

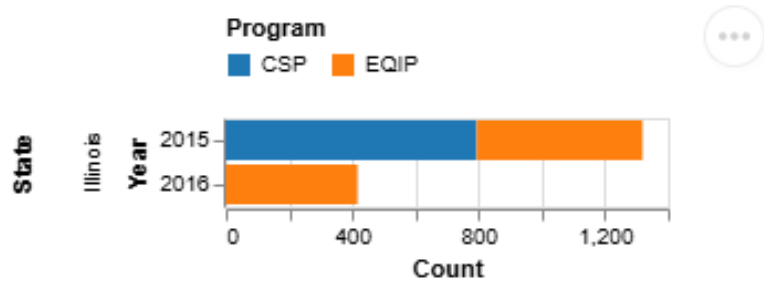
- Select a category
- Programs Count
- Programs Funding
- Programs - Area Treated
- Top 10 Practices by Area Treated

Results

DOWNLOAD PDF

Programs Count ▾

Distribution of the number of total conservation practices across selected area by year. Conservation practices are distinguished by funding source.



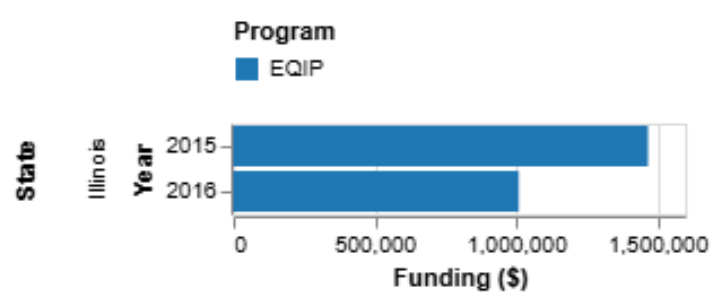
	CSP	EQIP
Illinois	794	942

Results

DOWNLOAD PDF

Programs Funding ▾

Distribution of the funding of conservation practices across selected area by year. Conservation practices are distinguished by funding source.



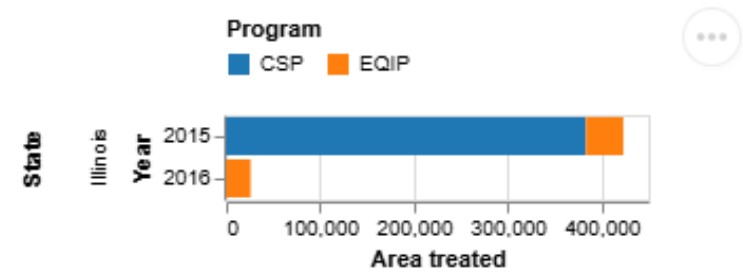
	CSP	EQIP
Illinois	-	\$2,478,333

Results

DOWNLOAD PDF

Programs - Area Treated ▾

Distribution of the number of acres treated by conservation practices across selected area by year. Conservation practices are distinguished by funding source. Please see this document for more information about assumptions made to estimate acres treated: http://draindrop.cropsci.illinois.edu/wp-content/uploads/2019/09/Data_Norms.pdf



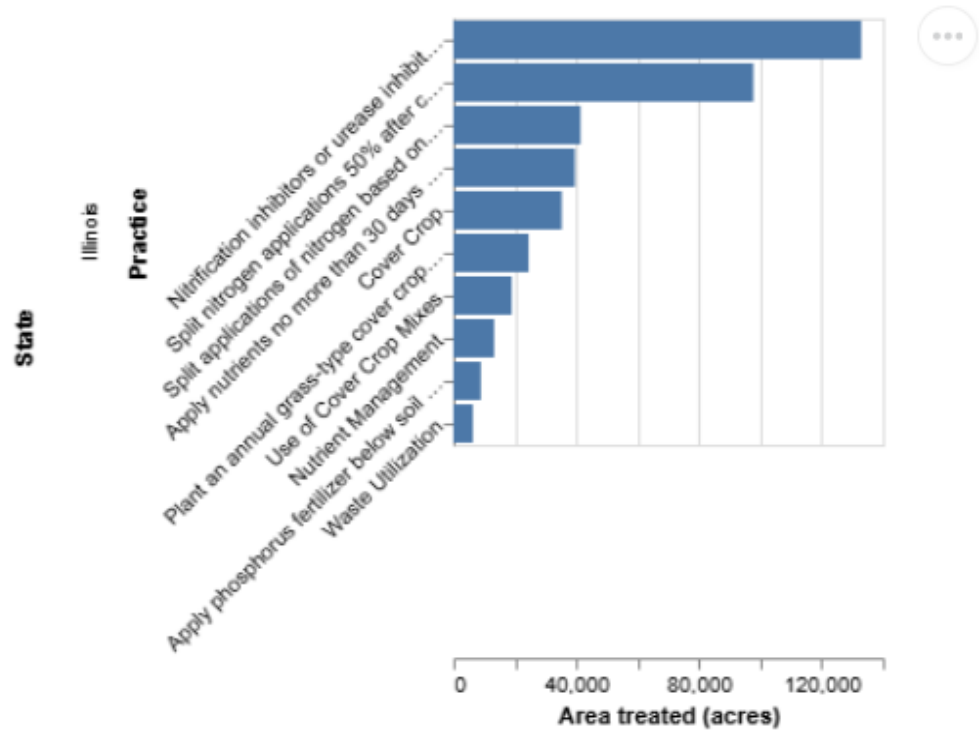
	CSP	EQIP
	Acres	
Illinois	383,233	65,880

Results

DOWNLOAD PDF

Top 10 Practices by Area Treated ▾

List of the most important (by area treated) conservation practices across selected area. This considers the time range selected. This figure represents all programs and funding sources.

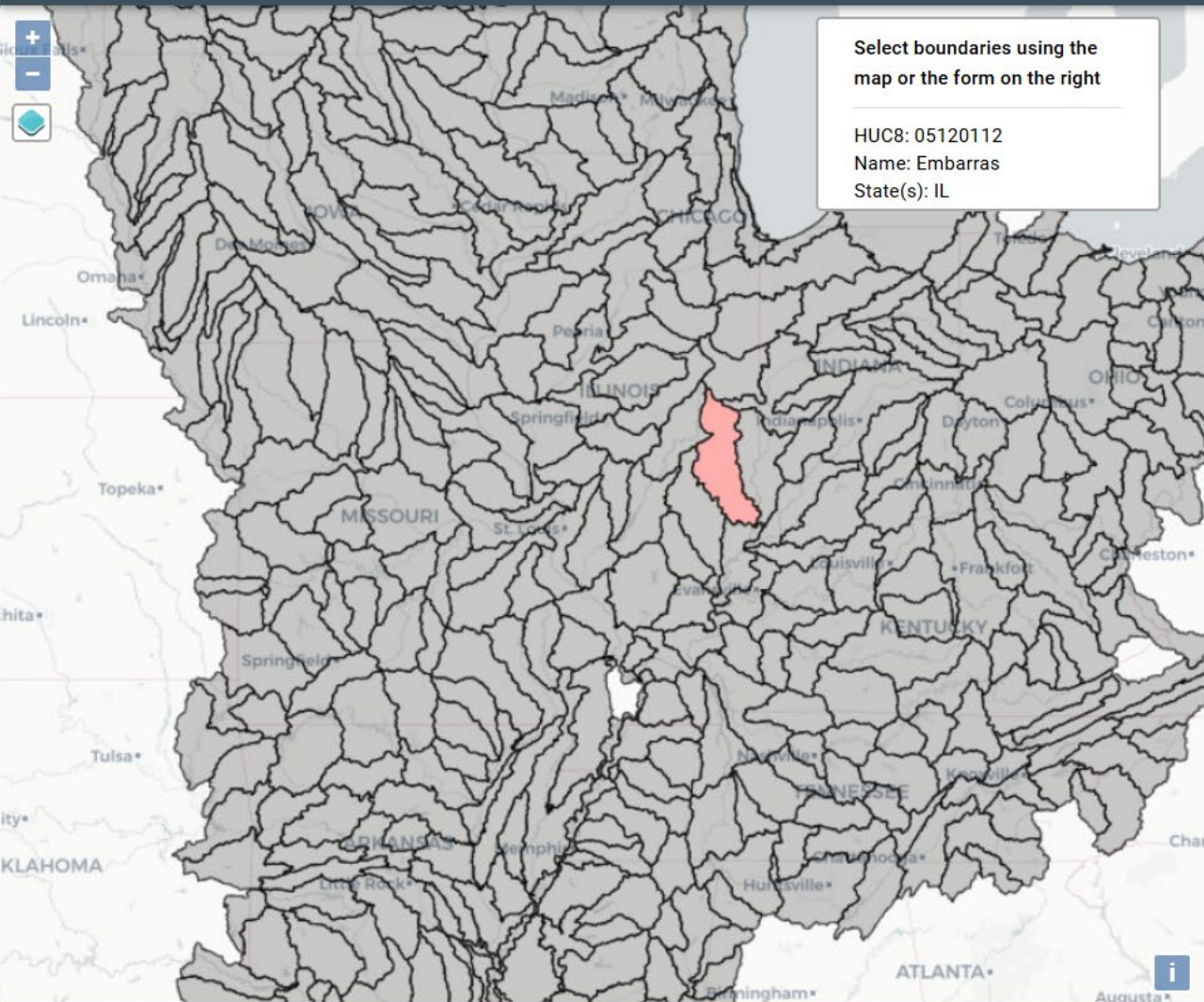


<https://greatlakestogulf.org/bmp>



Best Management Practices

ABOUT BMP



Parameter Selections

CLEAR PARAMETERS X

Select Boundary type

STATE

X

Select Data Range

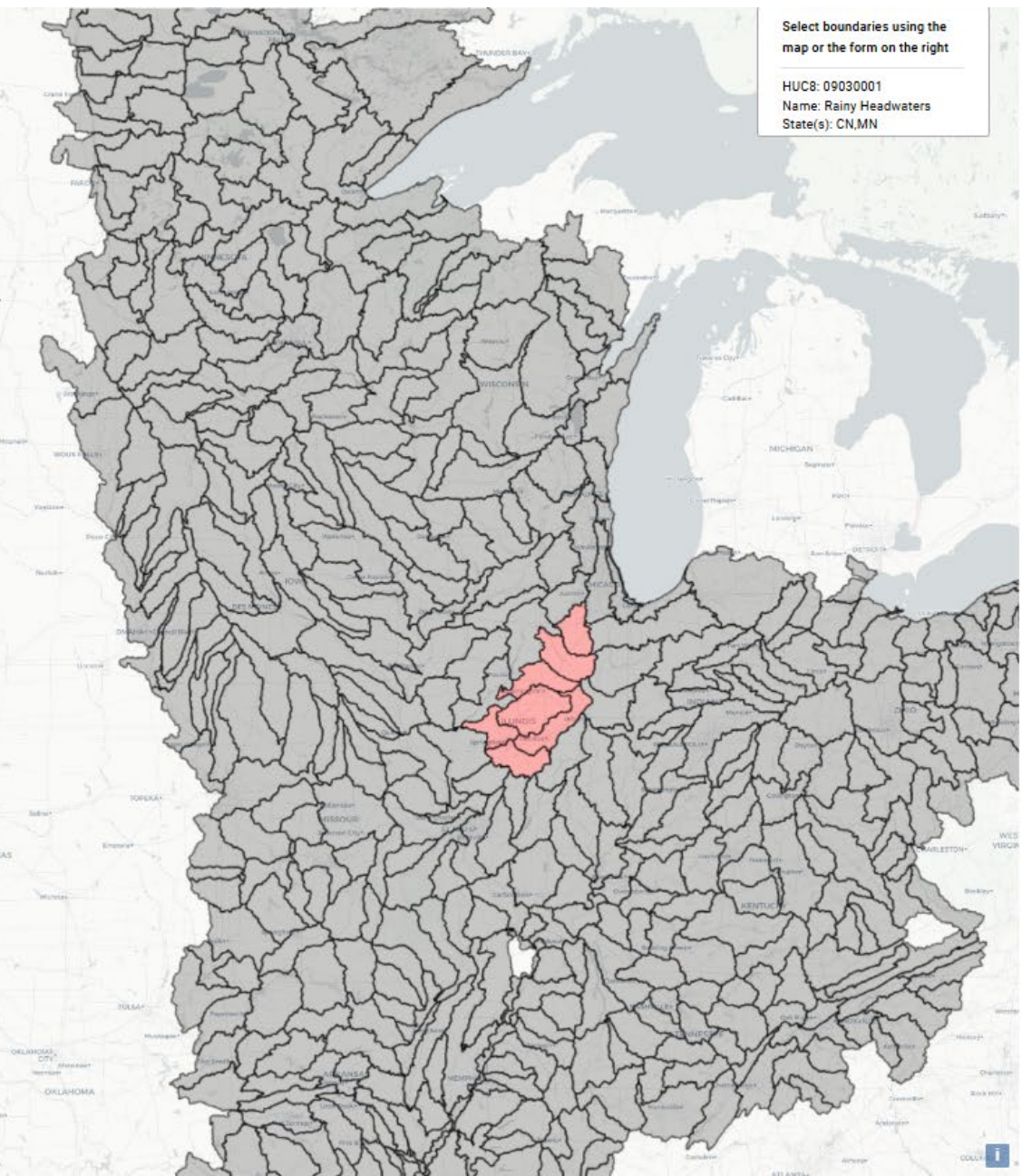


Results

DOWNLOAD PDF

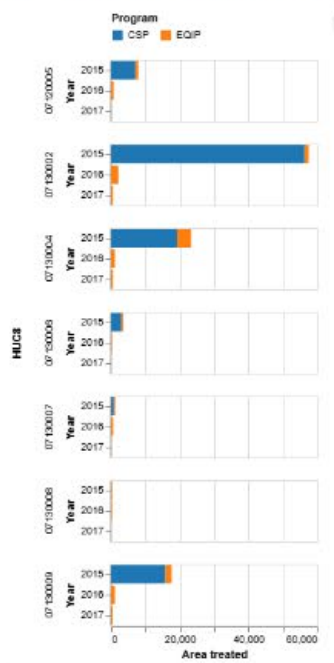
Select a category ▾

HUC 8



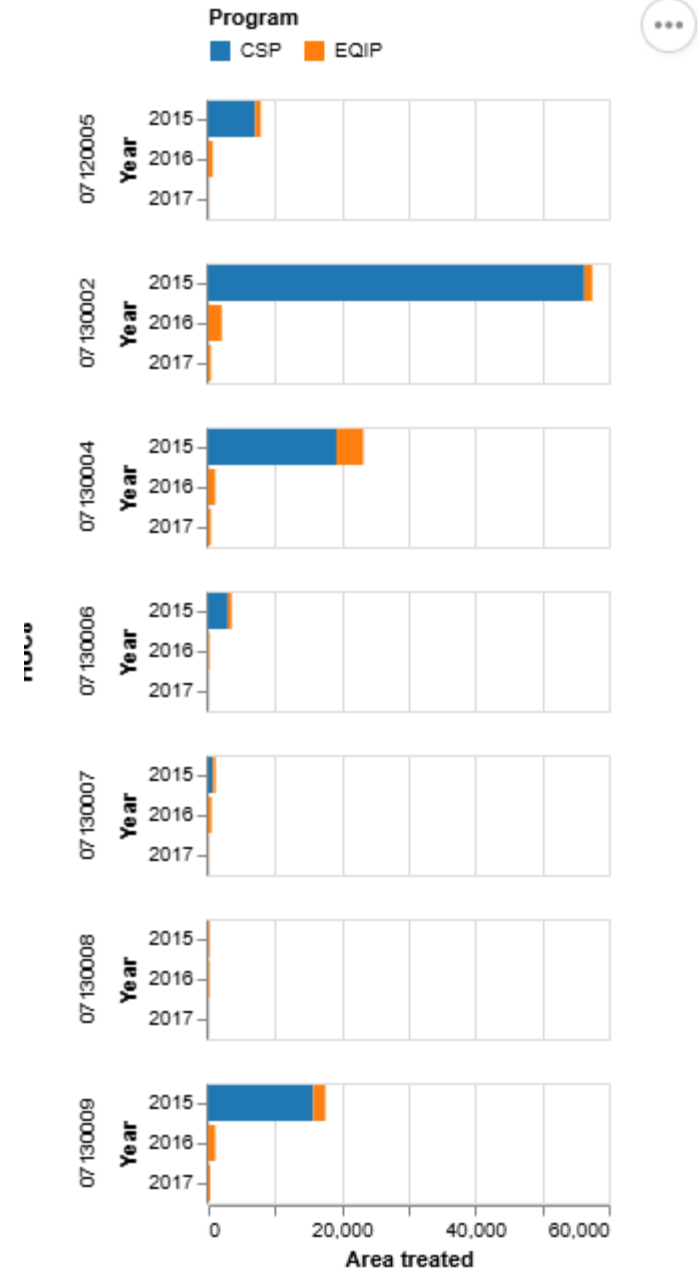
Programs - Area treated ▾

Distribution of the number of acres treated by conservation practices across selected area by year. Conservation practices are distinguished by funding source. Please see this document for more information about assumptions made to estimate acres treated: http://draindrop.cropsci.illinois.edu/wp-content/uploads/2019/09/Data_Norms.pdf



	CSP	EQIP
	Acres	
07120005	7,050	1,550
07130002	56,335	3,615
07130004	19,197	5,483
07130006	2,949	730
07130007	669	976
07130008	5	387
07130009	15,741	3,161

HUC 8



Questions?
Comments?

BMP dashboard example 2

<https://www.pca.state.mn.us/air-water-land-climate/reducing-nutrients-in-waters>

The screenshot shows the Minnesota Pollution Control Agency (MPCA) website. At the top, there is a language dropdown set to 'English' and a search bar. The navigation menu includes 'Air, Water, Land, Climate', 'Trending Topics', 'Business With Us', 'Get Engaged', and 'About MPCA'. The breadcrumb trail reads 'Air, Water, Land, Climate / Water / Water quality initiatives'. The main heading is 'Reducing nutrients in waters'. A left sidebar contains a 'WATER QUALITY INITIATIVES' menu with items: 'Addressing nitrate in southeastern Minnesota', 'Reducing nutrients in waters' (highlighted), 'Protecting wild rice waters', 'Cleaning up the St. Louis River', 'Minnesota's PFAS Blueprint', 'Understanding emerging contaminants', and 'Getting lead out of fishing tackle'. The main content area features a sub-heading 'Nitrate, phosphorus, and total nitrogen' followed by a paragraph explaining the problem of excessive nutrients in Minnesota's water bodies. Below this is a paragraph about the 'Minnesota Nutrient Reduction Strategy' established in 2014 and being updated in 2024. A section titled 'Minnesota Nutrient Reduction Strategy' includes a paragraph and two bullet points with links to the strategy document and a two-page summary. A 'Contact' box for David Wall is provided. At the bottom, a 'Ten-year revision' section explains the goal of the update. A process flow diagram at the very bottom shows three steps: a speech bubble, a document, and a checkmark.

English

MINNESOTA POLLUTION CONTROL AGENCY

Air, Water, Land, Climate

Trending Topics

Business With Us

Get Engaged

About MPCA

Air, Water, Land, Climate / Water / Water quality initiatives

Reducing nutrients in waters

< WATER QUALITY INITIATIVES

Addressing nitrate in southeastern Minnesota

Reducing nutrients in waters

Protecting wild rice waters

Cleaning up the St. Louis River

Minnesota's PFAS Blueprint

Understanding emerging contaminants

Getting lead out of fishing tackle

Nitrate, phosphorus, and total nitrogen

Excessive nutrients, particularly phosphorus and nitrogen, pose a significant problem for Minnesota's lakes and rivers as well as downstream waters including the Great Lakes, Lake Winnipeg, and the Gulf of Mexico. Nutrients enter our lakes and rivers from agricultural and urban lands and in discharges from wastewater treatment facilities. When nutrient levels exceed natural conditions, they can cause excessive algae growth, low levels of oxygen, toxicity to aquatic life, and unhealthy drinking water.

Minnesota established a statewide Nutrient Reduction Strategy in 2014 to guide our state's efforts to reduce nutrient pollution. In 2024, the strategy is being updated with a revised strategy expected in late 2025.

Minnesota Nutrient Reduction Strategy

The Nutrient Reduction Strategy compiles the latest science, research, and data and recommends the most effective strategies to reduce nutrients in our waters from both point and nonpoint sources. The strategy serves as a framework that outlines voluntary and regulatory actions to reduce nutrient pollution to meet long-term goals. Reductions in Minnesota's nitrogen and phosphorus pollution are needed to reach our in-state water quality goals and the 2040 goals that aim to restore the Gulf of Mexico, Lake Winnipeg, and Lake Superior.

- Minnesota Nutrient Reduction Strategy (wq-s1-80) (2014)
- Two-page summary (wq-s1-80q) (2014)

Contact

David Wall
651-757-2806
david.wall@state.mn.us

Ten-year revision

The same 10 organizations involved in creating the original strategy are working on the 10-year revision, expected in late 2025. The goal of the revision is to safeguard water from excess nutrients and protect the health and well-being of Minnesotans and downstream neighbors.

New acres of Cover Crop

Drainage area: All

Use filters to update the graphs

Filter by best mangement practice

Cover Crop

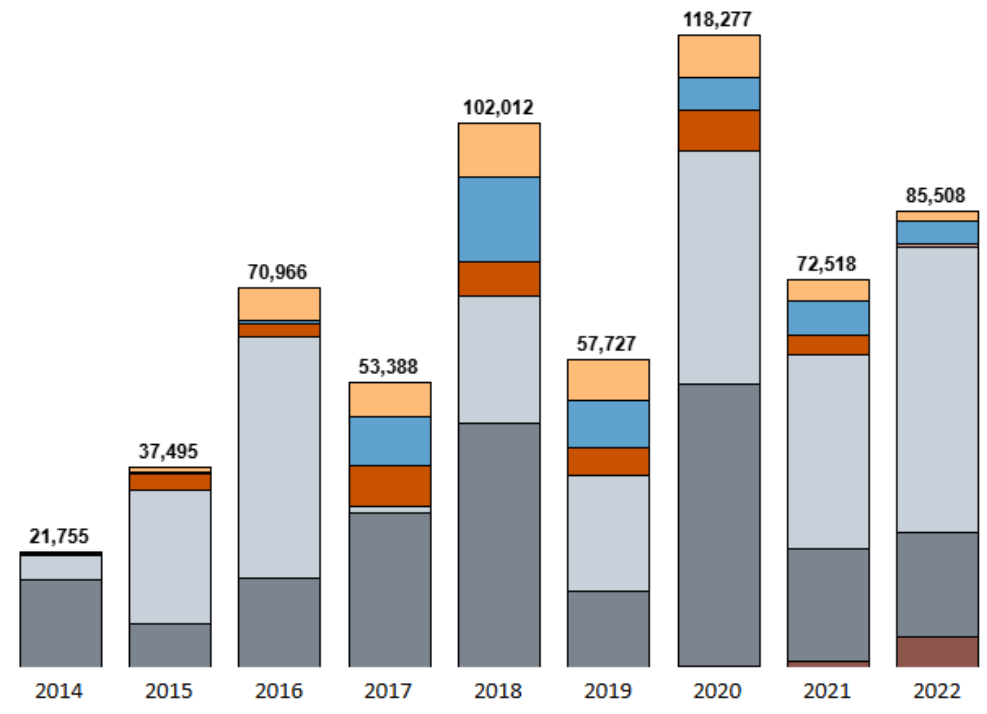
Filter by drainage area

(All)

Filter by date

2014 ————— 2022

- Government programs**
- BWSR - Competitive Grant Programs
 - MDA - Agricultural Water Quality Certification Program BMPs
 - MDA - MAWQCP Certified Acres
 - MPCA - Section 319 & Clean Water Partnership
 - NRCS - Conservation Stewardship Program
 - NRCS - Environmental Quality Incentives Program
 - NRCS - Unknown Easements

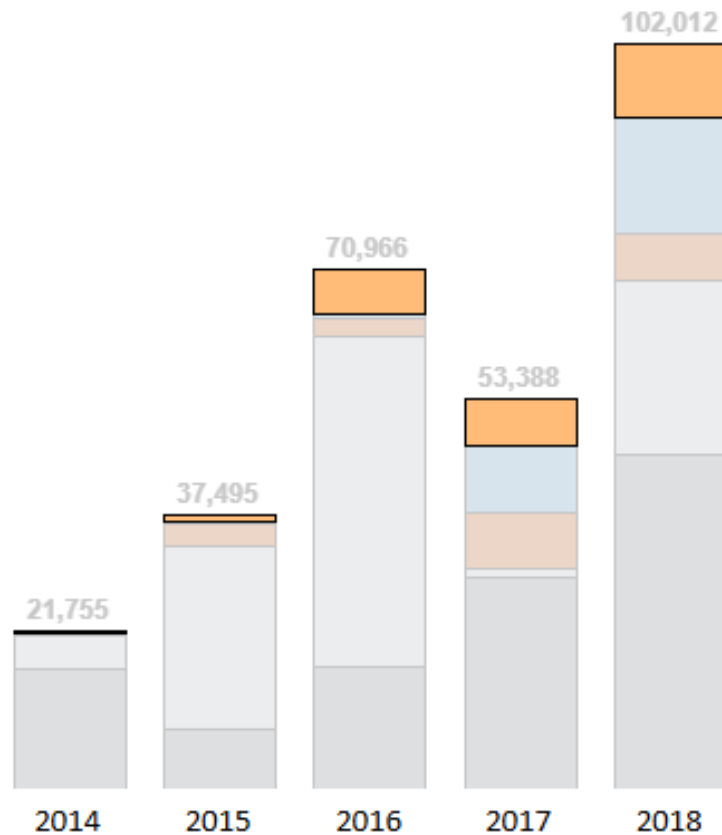


Multiple agencies in Minnesota are working together on Minnesota's Nutrient Reduction Strategy. This strategy guides existing state-level programs to achieve additional reductions in nutrients within Minnesota water bodies by maximizing ongoing efforts. This will help to enhance the health of aquatic life in Minnesota water bodies, and increase the recreational potential of Minnesota waters. The strategy will also provide incremental benefits for the Gulf of Mexico hypoxia problem and other waters downstream of Minnesota.

Agencies and stakeholders are working together to address excessive levels of nutrients to **improve water quality at home and downstream.**

New acres of Cover Crop

Drainage area: All



Filter by best mangement practice

- Cover Crop
- (All)
 - Alternative Tile Intake
 - Conservation Cover
 - Conservation Crop Rotation
 - Conservation Easement
 - Contour Buffer Strips
 - Contour Farming
 - Cover Crop
 - Critical Area Planting
 - Denitrifying Bioreactor
 - Drainage Water Management
 - Field Border
 - Filter Strip
 - Forage and Biomass Planting
 - Grassed Waterway
 - Mulching
 - Nutrient Management
 - Residue and Tillage Mgmt, No-Till/Strip Till
 - Residue and Tillage Mgmt, Reduced Till
 - Riparian Forest Buffer
 - Riparian Herbaceous Cover
 - Saturated Buffer
 - Sediment Basin
 - Stripcropping
 - Terrace
 - Water & Sediment Control Basins
 - Water Reuse
 - Wetland Restoration
 - Windbreak/Shelterbelt Establishment

Use filters to update the graphs

by best mangement practice

rop

by drainage area

by date

2022

ment programs

SR - Competitive Grant Programs

A - Agricultural Water Quality Certification Program BMPs

A - MAWQCP Certified Acres

CA - Section 319 & Clean Water Partnership

CS - Conservation Stewardship Program

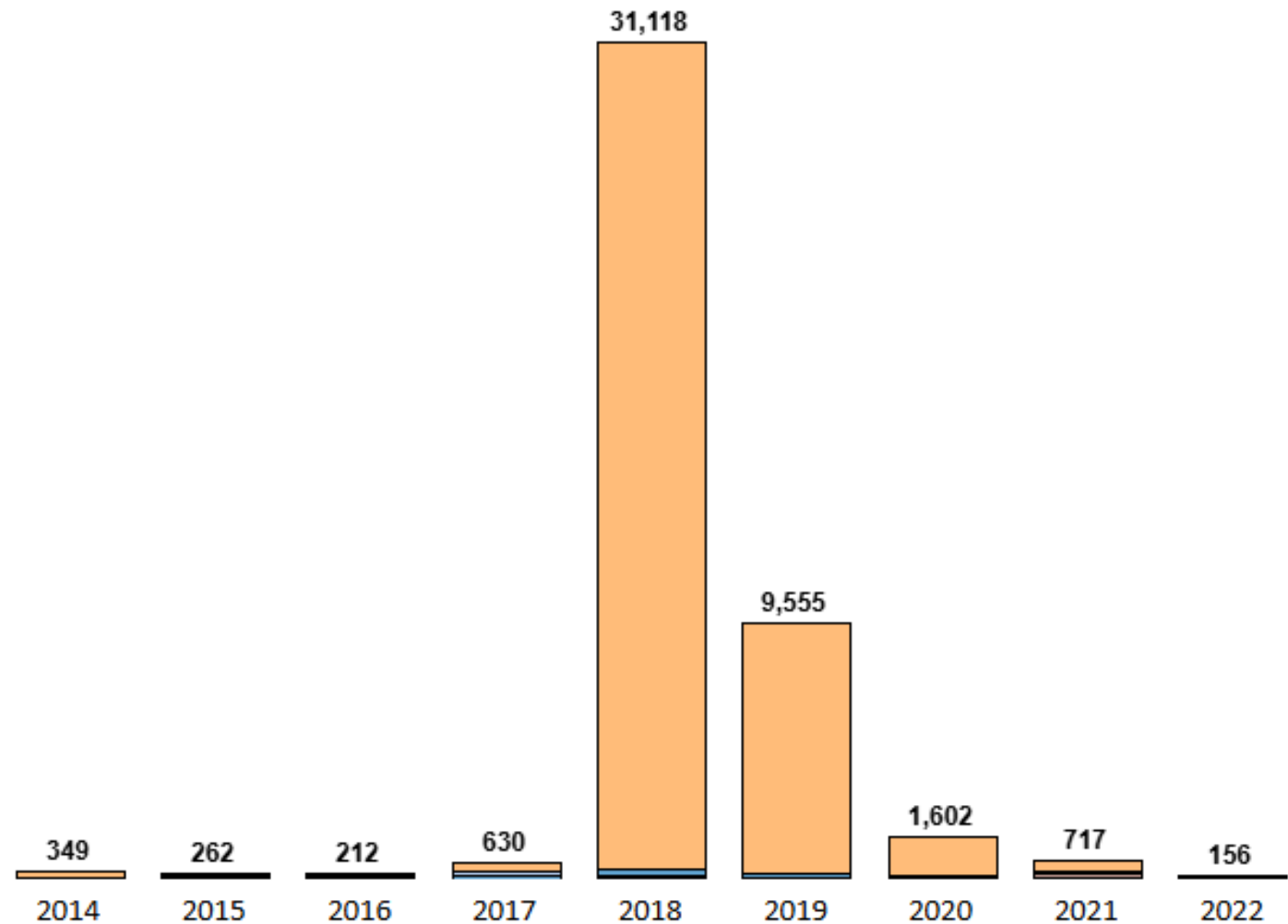
CS - Environmental Quality Incentives Program

CS - Unknown Easements

New acres of Filter Strip

Drainage area: All

Use filters to update the graphs



Filter by best mangement practice

Filter Strip

Filter by drainage area

(All)

Filter by date

2014 2022

Government programs

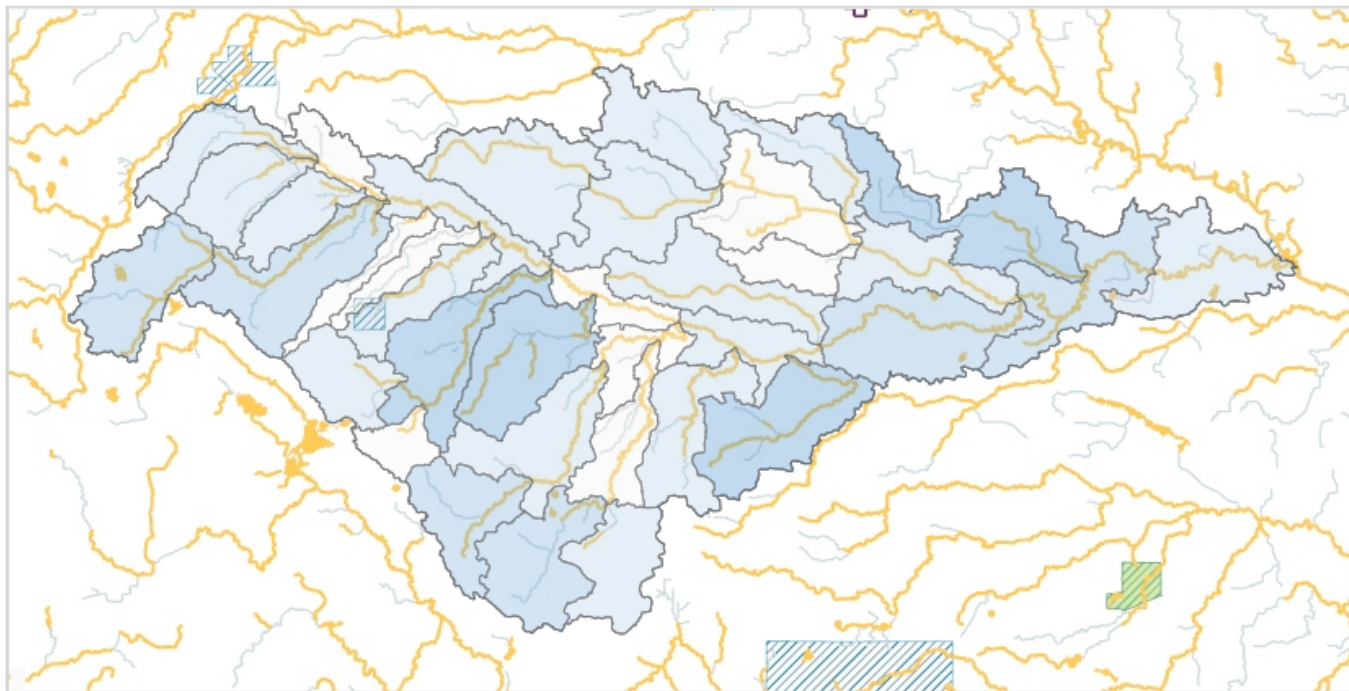
- BWSR - Competitive Grant Programs
- MDA - Agricultural Best Management Practices Loan Program
- MDA - Agricultural Water Quality Certification Program BMPs
- MDA - MAWQCP Certified Acres
- MPCA - Section 319 & Clean Water Partnership
- NRCS - Conservation Stewardship Program
- NRCS - Environmental Quality Incentives Program

Questions?
Comments?

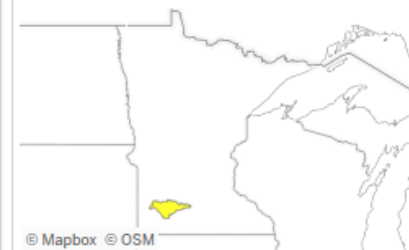
Choose watershed

Hover over a subwatershed for more information

Cottonwood River



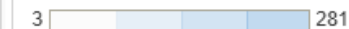
Watershed Location



Legend

Impaired waters

Count of BMPs



Areas of concern for environmental justice

- At least 35% of people reported income less than 200% of the federal poverty level
- 40% or more people of color
- Federally recognized tribal areas

Filter by year



Definitions

Best management practice (BMP) – conservation practice designed to prevent or reduce water pollution.

Strategy – a group of BMPs used in Watershed Restoration and Protection Strategies (WRAPS) when proposing implementation scenarios that could meet water quality goals.

Practice Description – specific type of BMP implemented by landowners in subwatersheds (HUC 12).

Cottonwood River watershed

Strategy	Practice Description	Total BMPs	Number of BMPs (by unit)	Installed Amount (by unit)	Units
Nutrient management (cropland)	Nutrient Management	493	383	103,439	acres
			110	54	count
Tillage/residue management	Residue and Tillage Management, No-Till	276	274	50,388	acres
	Residue and Tillage Management, Reduced Till	193	193	49,174	acres
	Residue Management, Mulch Till	36	36	1,666	acres
	Residue Management, No-Till/Strip Till	32	27	1,578	acres
Tile inlet improvements	Alternative Tile Intake - Gravel Inlet		5	5	count
		223	223	369	count
	Subsurface Drain		33	50,349	feet
		38	5	5	count
	Alternative Tile Intake		1	9	feet
		12	11	33	count
Alternative Tile Intake - Other Blind Intake	4	4	12	count	
Alternative Tile Intake - Dense Pattern Tiling	1	1	1	count	

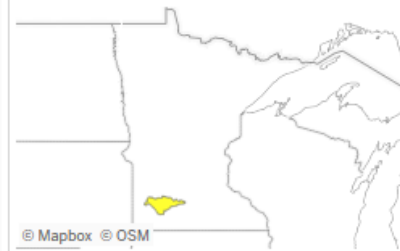
Choose watershed

Cottonwood River

Hover over a subwatershed for more information



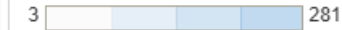
Watershed Location



Legend

Impaired waters

Count of BMPs



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Practice Description – specific type of BMP implemented by landowners in subwatersheds (HUC 12).

Cottonwood River watershed

City of Sanborn-Cottonwood River

Strategy	Practice Description	Total BMPs	Number of BMPs (by unit)	Installed Amount (by unit)	Units
Living cover to crops in fall/spring	Cover Crop	7	7	172	acres
Tillage/residue management	Residue and Tillage Management, No-Till	5	5	106	acres
Converting land to perennials	Conservation Cover	8	8	177	acres
	Critical Area Planting	4	4	2	acres
Designed erosion control	Water & Sediment Control Basins	4	4	4	count
	Grassed Waterway	3	3	3	count
Stream banks, bluffs & ravines	Grade Stabilization Structure	6	6	6	count
	Streambank and Shoreline Protection	2	2	700	feet
	Structure for Water Control	1	1	1	count
Pasture management	Prescribed Grazing	6	6	134	acres
Septic System Improvements	Septic System Improvement	1	1	1	count
Tile inlet improvements	Subsurface Drain	1	1	1	count
	Alternative Tile Intake	1	1	13	count
Tile drainage treatment/storage	Drainage Water Management	2	2	2	count

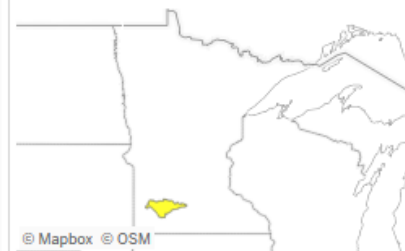
Choose watershed

Cottonwood River

Hover over a subwatershed for more information



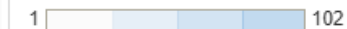
Watershed Location



Legend

Impaired waters

Count of BMPs



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Filter by year



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Practice Description – specific type of BMP implemented by landowners in subwatersheds (HUC 12).

Cottonwood River watershed

City of Sanborn-Cottonwood River

Strategy	Practice Description	Total BMPs	Number of BMPs (by unit)	Installed Amount (by unit)	Units
Converting land to perennials	Conservation Cover	4	4	52	acres
Other	Integrated Pest Management (IPM)	4	4	728	acres
	Underground Outlet	1	1	1	count

In the chat:

Great Lakes to Gulf: <https://greatlakestogulf.org/bmp>

Minnesota Nutrient Reduction Strategy: <https://www.pca.state.mn.us/air-water-land-climate/reducing-nutrients-in-waters>

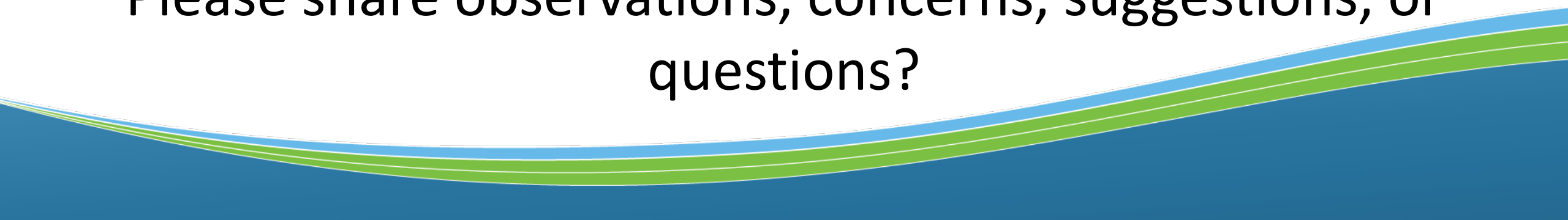
Statewide summary:

<https://data.pca.state.mn.us/views/Statewidebestmanagementpracticeadoptionssummary/MinnesotaNutrientReductionStrategyBMPSummary?%3Aembed=y&%3AisGuestRedirectFromVizportal=y>

Watershed scale summary:


<https://data.pca.state.mn.us/views/Bestmanagementpracticesbywatershed/Bestmangementpracticesbywatershed?%3Aembed=y&%3AisGuestRedirectFromVizportal=y>

Take 3-4 minutes to play with these maps.
Please share observations, concerns, suggestions, or
questions?



Illinois NLRs interactive data dashboards

*Program data by county, HUC 8, HUC 12
(2011-22 or -24 if ready)*

- FSA (CRP, Cover Crop Reporting)
 - NRCS (EQIP, CSP, ACEP), (RCPP, MRBI, NWQI)
 - IDOA (PFC, SSRP, Fall Cover for Spring Savings, OpTIS, LMFA)
 - IDNR (CREP)
 - IEPA (319, 604b, watershed plans)
- 

		county	HUC12	HUC 8	Does partner need lat/long conversion to aggregated county or HUC scale?	Time Period
FSA	CRP	x	?	?	?	2011-2024
	Cover Crops	?	?	?	?	
NRCS	EQIP	x	x	x	no	2011-2024
	CSP	x	x	x	no	2011-2024
	RCPP	x	x	x	no	2011-2024
	ACEP	?	?	?	?	
	MRBI special watersheds	?	?	?	?	
	NWQI special watersheds	?	?	?	?	
	RCPP special watersheds	?	?	?	?	
IDNR	CREP	?	?	?	?	
IEPA	319	?	?	?	?	
	604b	?	?	?	?	
	watershed plans	?	?	?	?	
IDOA	PFC	x	x	x	yes	2011-2024
	SSRP	x	x	x	yes	2011-2024
	FCSS	x	no	no	no	2019-2024
	OpTIS tillage	?	?	?	n/a	
NGOs	ICGA PCM	?	?	?	?	
	CropGrower stream buffers	?	?	?	?	
		county	HUC12	HUC 8		
Count of data sources displayed:		7	5	5		

Questions?
Comments?

Showcase and Discussion IL NLRS Data Displays



Filter strip Or "All Buffers" viewed by Program

NRCS – EQIP (filter strips)

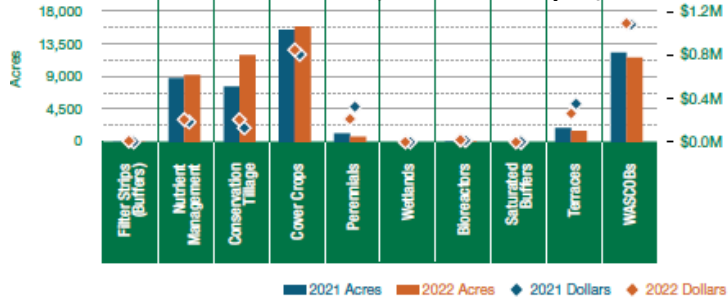


Figure 4.6. Acres implemented and dollars spent on nutrient conservation practices through EQIP. See Appendix G for companion data.

FSA – CRP+CREP (all buffers)

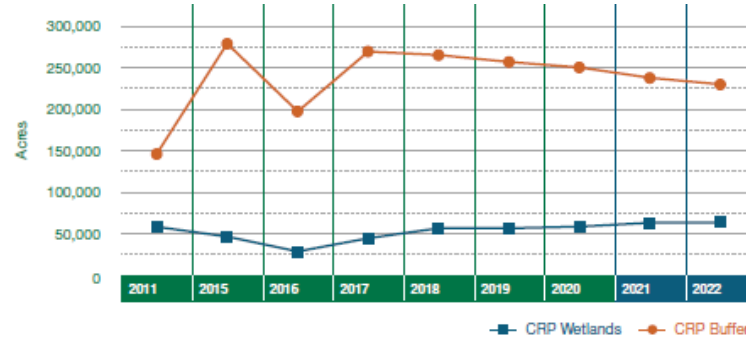


Figure 4.2. Acres enrolled in CRP wetlands and buffers. See Appendix G for companion data.

IDNR – CREP (all buffers)

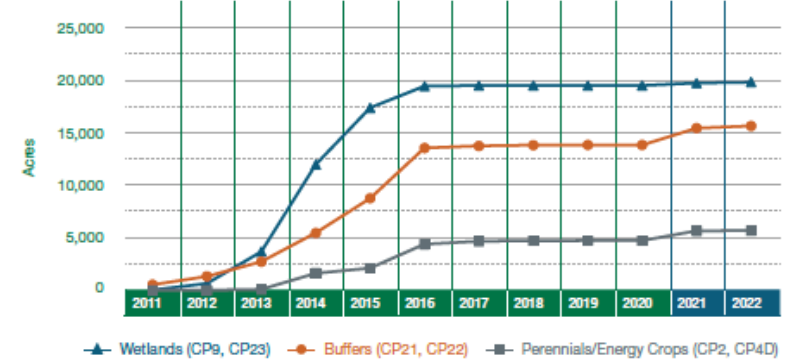


Figure 4.21. Acres of Illinois CREP easements contributing to NLRs. See Appendix G for companion data.

NRCS – CSP (filter strips)

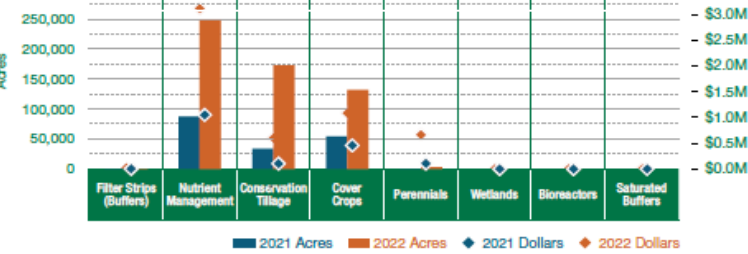


Figure 4.8. Acres implemented and dollars spent on nutrient conservation practices through CSP. See Appendix G for companion data.

IDOA – PFC (filter strips)

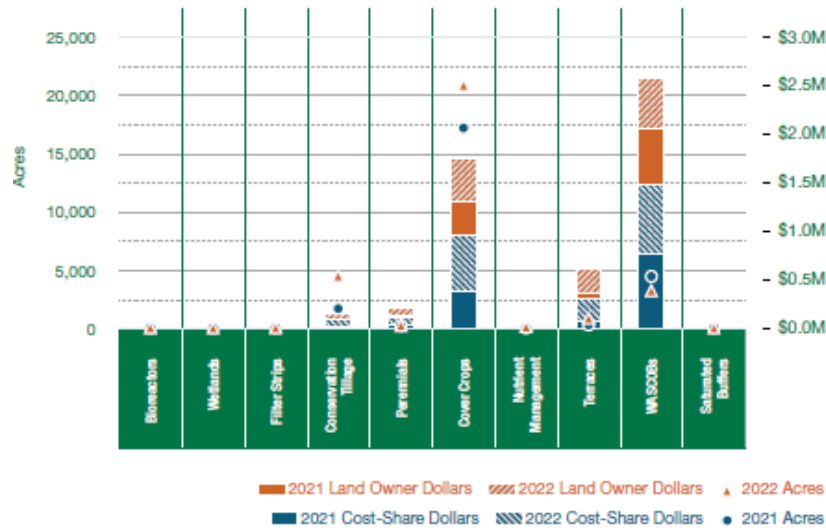


Figure 4.22. Acres treated by and dollars spent on PFC in 2021 and 2022. See Appendix G for companion data.

NRCS – RCPP (Filter strips)

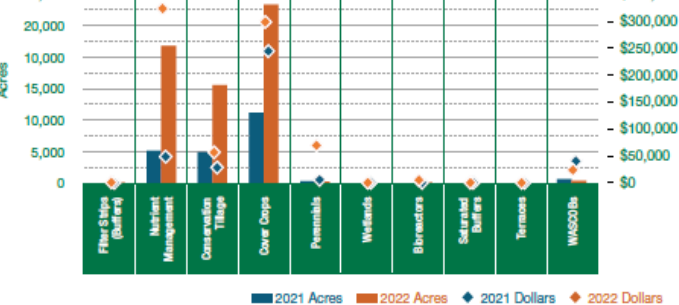


Figure 4.12. Acres implemented and dollars spent on nutrient conservation practices through RCPP. See Appendix G for companion data.

IEPA – 319 (filter strips)

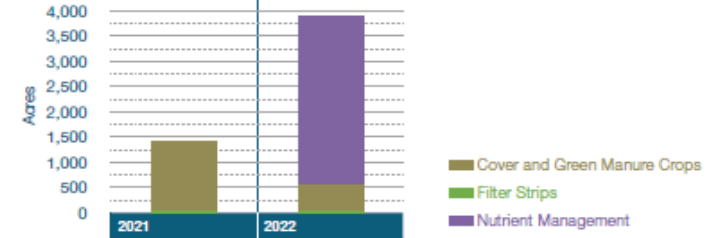
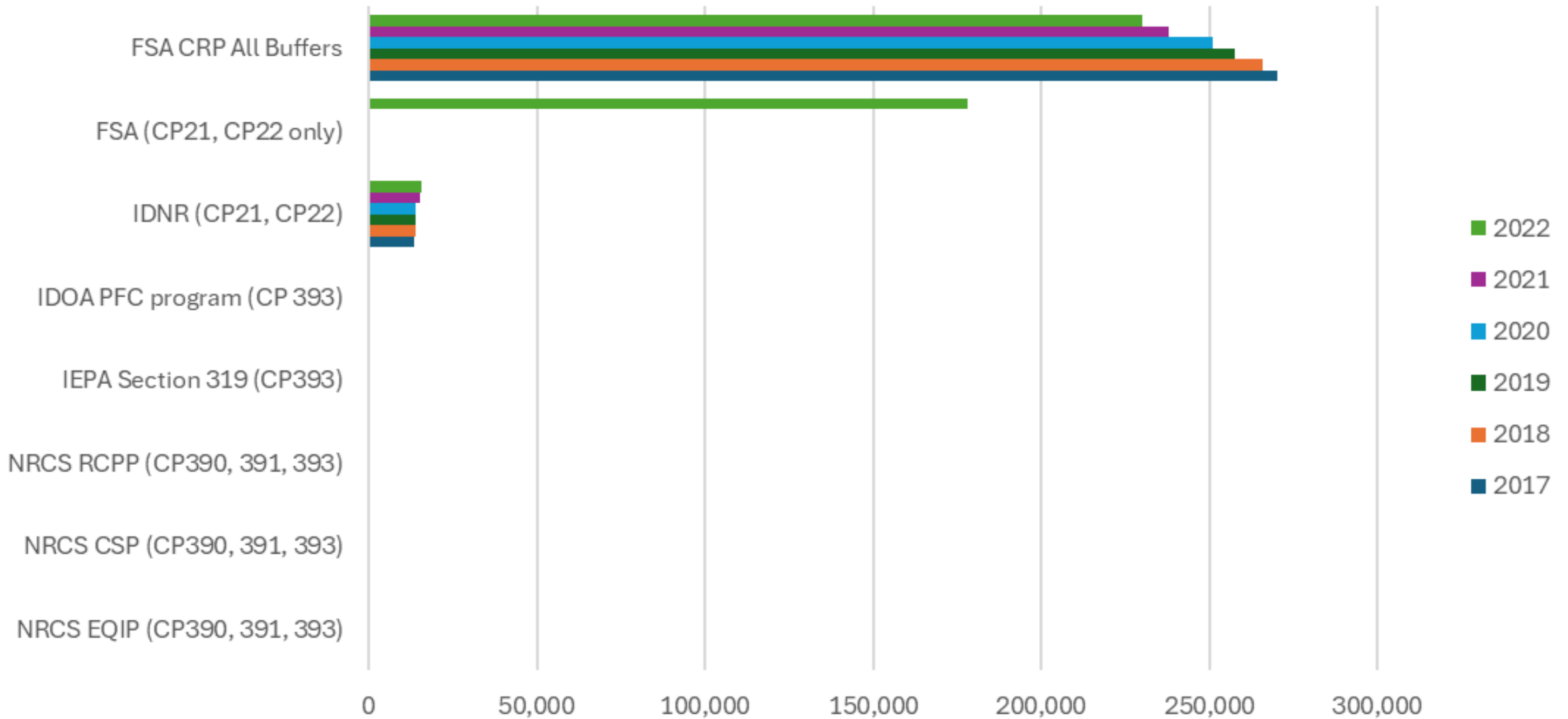


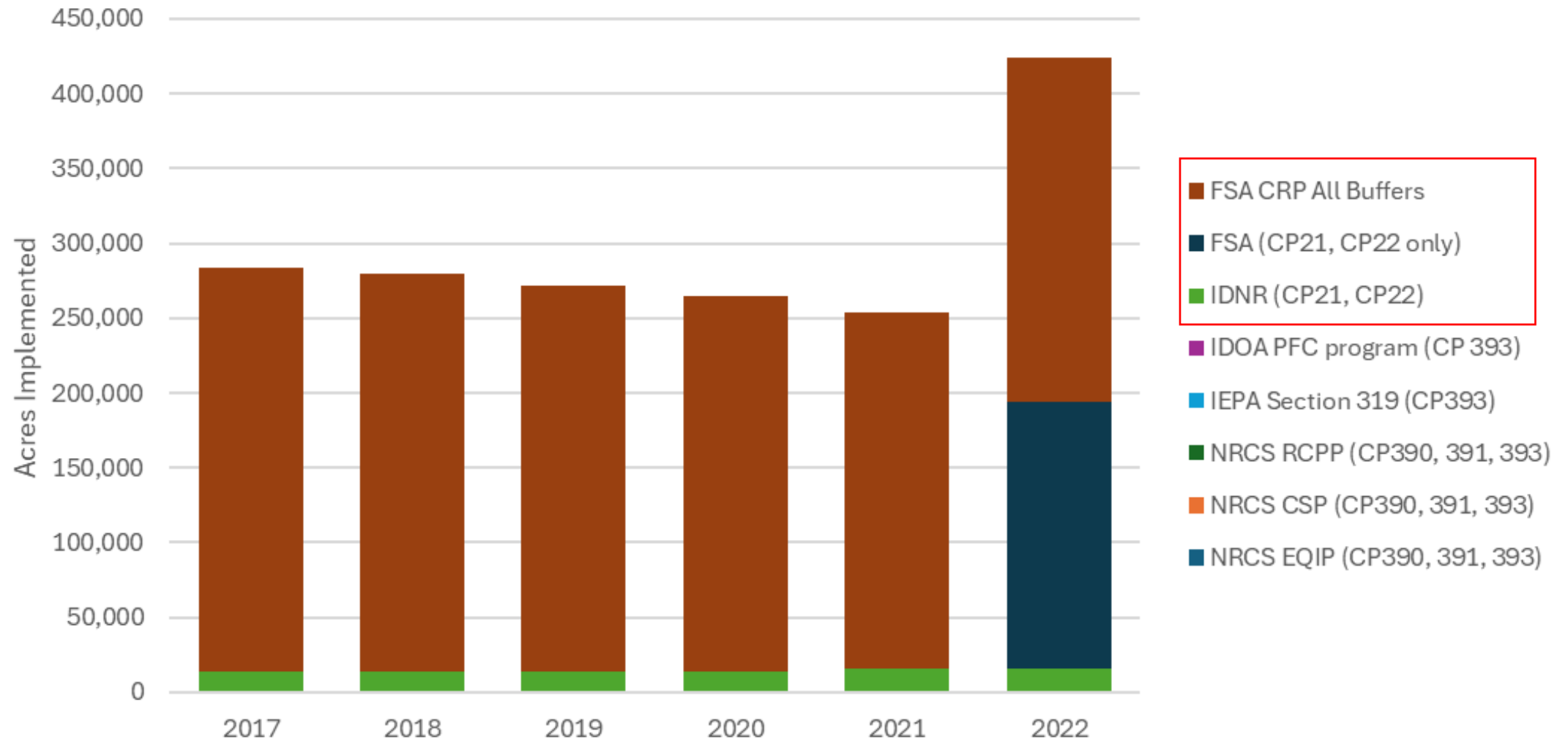
Figure 4.25. Acres treated by agricultural practices installed under the Section 319 grant program 2021-22. See Appendix G for companion data.



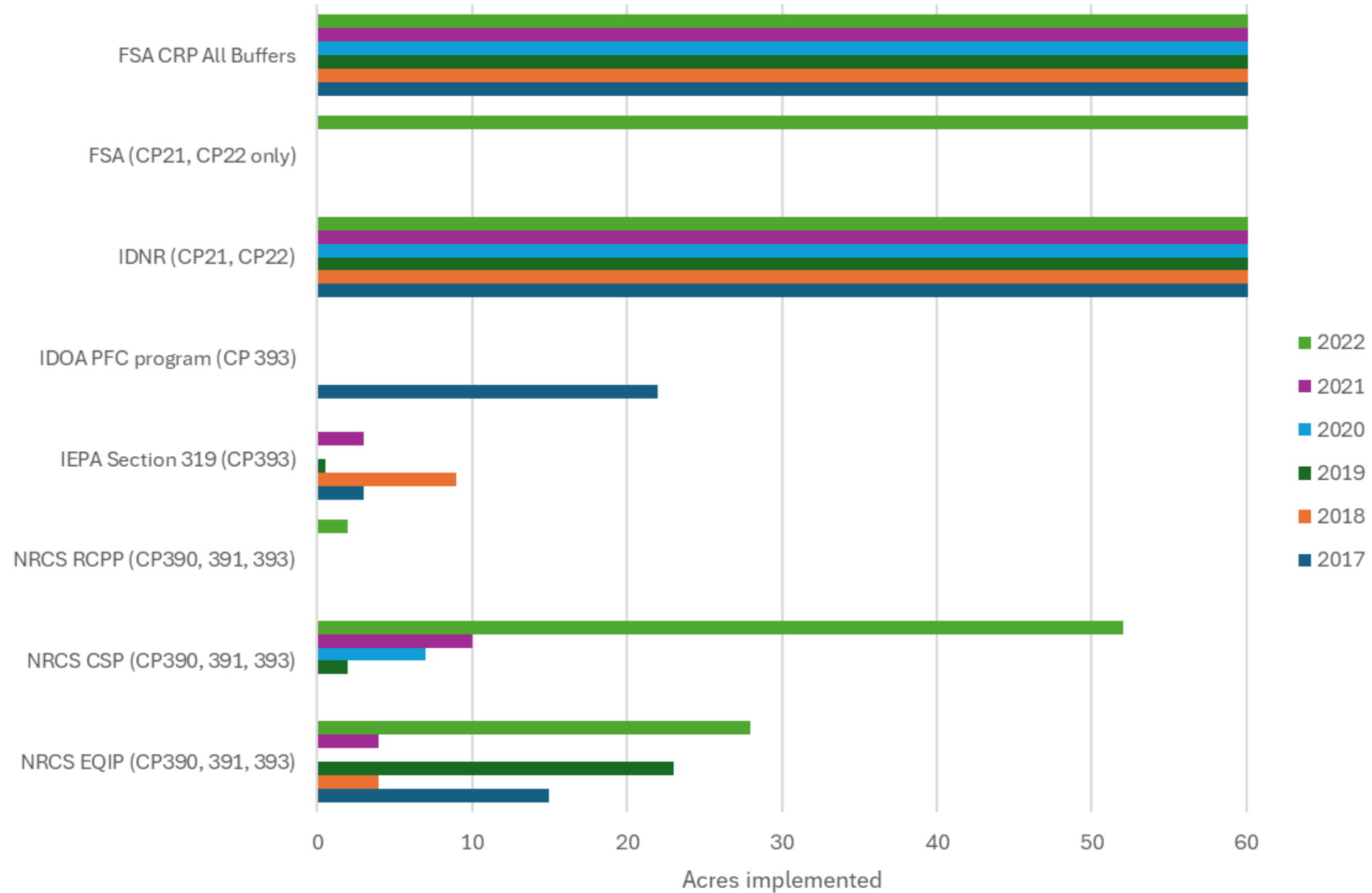
Filter Strips - dominated by federal and state CRP/CREP program



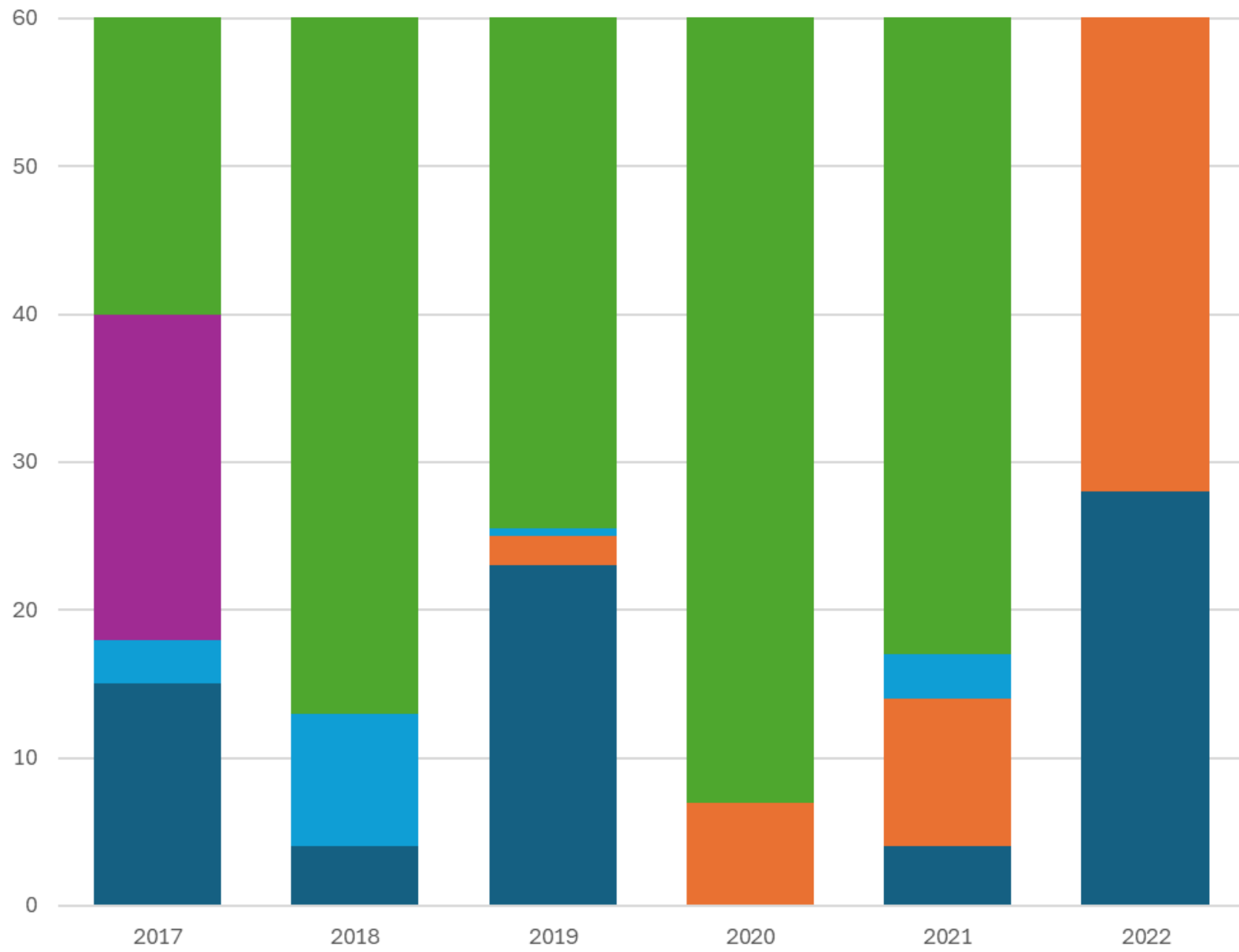
Filter Strips - dominated by federal and state CRP/CREP program



Filter Strips - rescaled to see other programs



Filter Strips - rescaled to see other programs



- FSA CRP All Buffers
- FSA (CP21, CP22 only)
- IDNR (CP21, CP22)
- IDOA PFC program (CP 393)
- IEPA Section 319 (CP393)
- NRCS RCPP (CP390, 391, 393)
- NRCS CSP (CP390, 391, 393)
- NRCS EQIP (CP390, 391, 393)

<i>Practice codes tracked in each program</i>							
PRACTICES	FSA CRP	NRCS EQIP, CSP, RCPP, MRBI, NWQI	IDNR CREP	IDOA PFC	IEPA 319	IDOA FCSS	Other
filter strips	CP21, CP22	390, 391, 393	CP21, CP22	393	393	-	
nutrient management	-	590	-	590	590	-	
conservation tillage	-	329, 345	-	329, 345	329	-	
cover crops	self-certified	340	-	340	340	340	
perennials		327, 512	CP2, CP4D	327, 342, 512	-	-	
constructed wetlands	CP9, CP23	656	CP9, CP23	656	-	-	
wetland restoration	-	-	-	-	657	-	
bioreactors	CP21B, CP22B	605	-	605	-	-	
saturated buffers	CP21S, CP22S	604	-	604	-	-	
terraces	-	600	-	600	-	-	
WASCOBs	-	638	-	638	-	-	

Questions?
Comments?

2023-2024 Land Measures Reporting

- *FSA (CRP, Cover Crop Reporting)*
- *NRCS (EQIP, CSP, ACEP), (RCPP, MRBI, NWQI)*
- *IDOA (PFC, SSRP, Fall Cover for Spring Savings, OpTIS, LMFA)*
- *IDNR (CREP)*
- *IEPA (319, 604b, watershed plans)*
- *NASS-2024 NASS Survey results*
- *Government Program Narratives*



Implementation Report

Resource Measures

Staff Resources

Funding Resources

Outreach Measures

Outreach Activities

Land 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

MRB-Big Bend Enhancing Water-Soil-Habitat Quality Project

Driftless Area Habitat for the Wild & Rare Phase 2

Working Lands, Water, and Wildlife Partnership

Other?



US Department of Agriculture (con't)

National Agricultural Statistics Service

Illinois NLRs Survey

Nitrogen Management

Nitrification Inhibitors

Fertilizer Application Strategies

Phosphorus Management

Cover Crops

Tiled Acres

General Knowledge

Illinois Department of Natural Resources

Conservation Reserve Enhancement Program (CREP)

Building Soil Health on Agricultural Leases

Contaminant Assessment Section Restoration

Illinois Department of Agriculture (*program list tentative*)

Partners for Conservation Program

Streambank Stabilization and Restoration Program

Fall Covers for Spring Savings

IDOA Conservation Planners

IDOA RCPP Climate-Smart Partnership & Kankakee-Iroquois Bi-state partnership

IDOA Ducks Unlimited Partnership

Illinois Environmental Protection Agency

Section 319 Non-Point Source Program

Illinois Fertilizer & Chemical Association

Ag Retail Survey

CropGrower

Identification of Agricultural In-field Buffers using Satellite Imagery

OpTIS (or other satellite tillage data)

University of Illinois

Woodchip Bioreactors

Illinois Extension Watershed Outreach Associates

From 2023 Report

Metric Collection

Future Strategic Actions

Agricultural Water Quality Partnership Forum

IDOA's Regional Conservation Partnership Program

Climate-Smart Partnership

Kankakee-Iroquois Bi-State Partnership

Ducks Unlimited Partnership

Any ideas for Future Strategic Actions for 2025 reporting?



ILLINOIS
NUTRIENT LOSS
REDUCTION STRATEGY

Water Quality Goals

Reporting challenges

Agricultural Implementation Progress

Point Source Implementation Progress

Watershed-Based Plans

Looking Ahead (*list is from 2023*)

Future Strategy Considerations

Human and Financial Resources for Implementation

Tracking Methods and Data Sources

Climate Change and Its Impacts on Nutrient Management and Practices

Disadvantaged Communities

Cross Sector Partnerships and Goals Alignment

Future Needs & Resources to Achieve Nutrient Goals

Agriculture

Federal Gulf Hypoxia Program Funding and Inflation Reduction Act

State PFC Funding, Fall Covers for Spring Savings, SWCDs

Wastewater Treatment Facility Upgrades

Stormwater Practice Adoption

Water Quality Monitoring

U.S. Geological Survey Continuous Nutrient Loading Network and Next Generation Observing Systems

Illinois EPA Monitoring Programs

IDOA Nitrate Analyzer & Testing

Illinois NLRS Meetings and Reporting

Any ideas for adaptive management for 2025 reporting?

2023-24 Government Program Update Narratives

Revamping narratives to simplify
Working 1 on 1



ILLINOIS
NUTRIENT LOSS
REDUCTION STRATEGY

2023-2024 Resources and Outreach Spreadsheets and Data Display Examples

- R & O Spreadsheets due Jan. 31, 2025
- Land & Facilities data due – normal statewide data ask due Jan. 31 as usual
- Extra spatial and temporal data ask – due Feb 28.



2023 Biennial Report data displays – Agriculture Resources (Financial)

Table 4.1. Funding resources in the agricultural sector

These numbers **do include:**

- NGOs
- SWCDs
- IDNR
- Illinois Extension

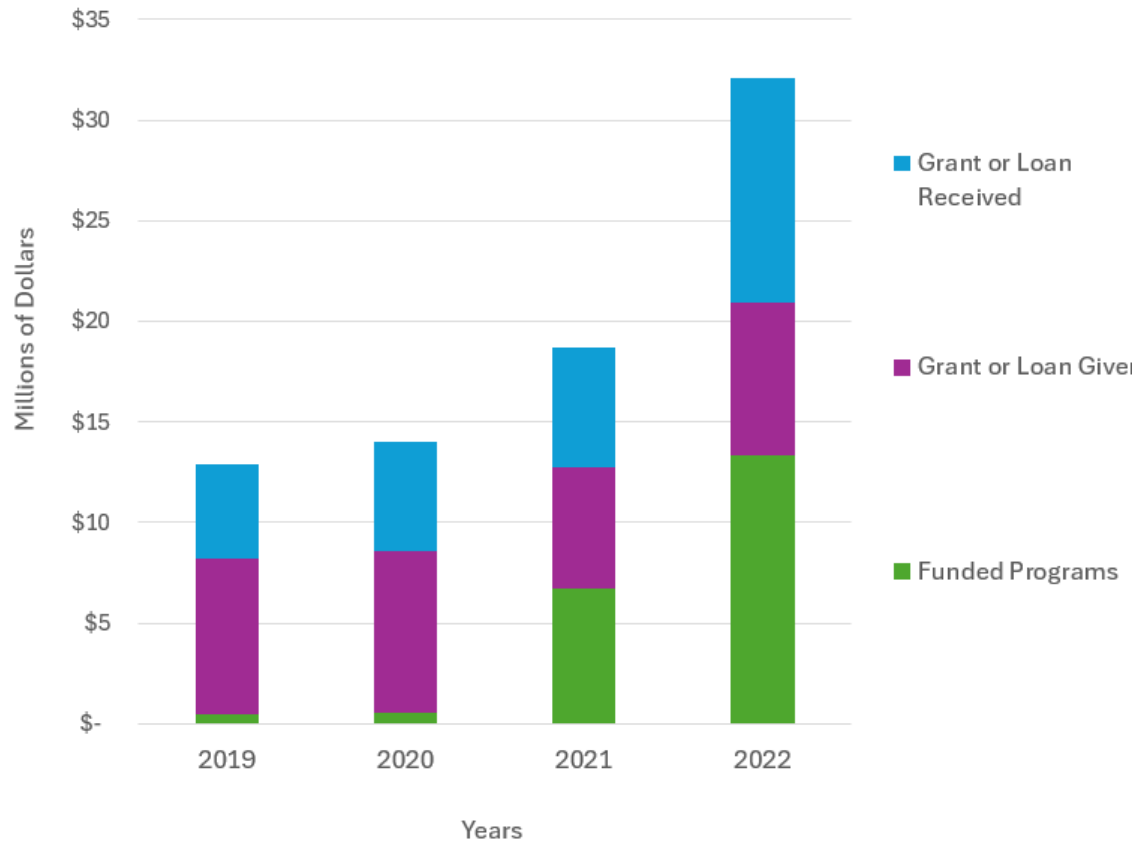
These numbers **do not include:**

- FSA
- NRCS
- IEPA

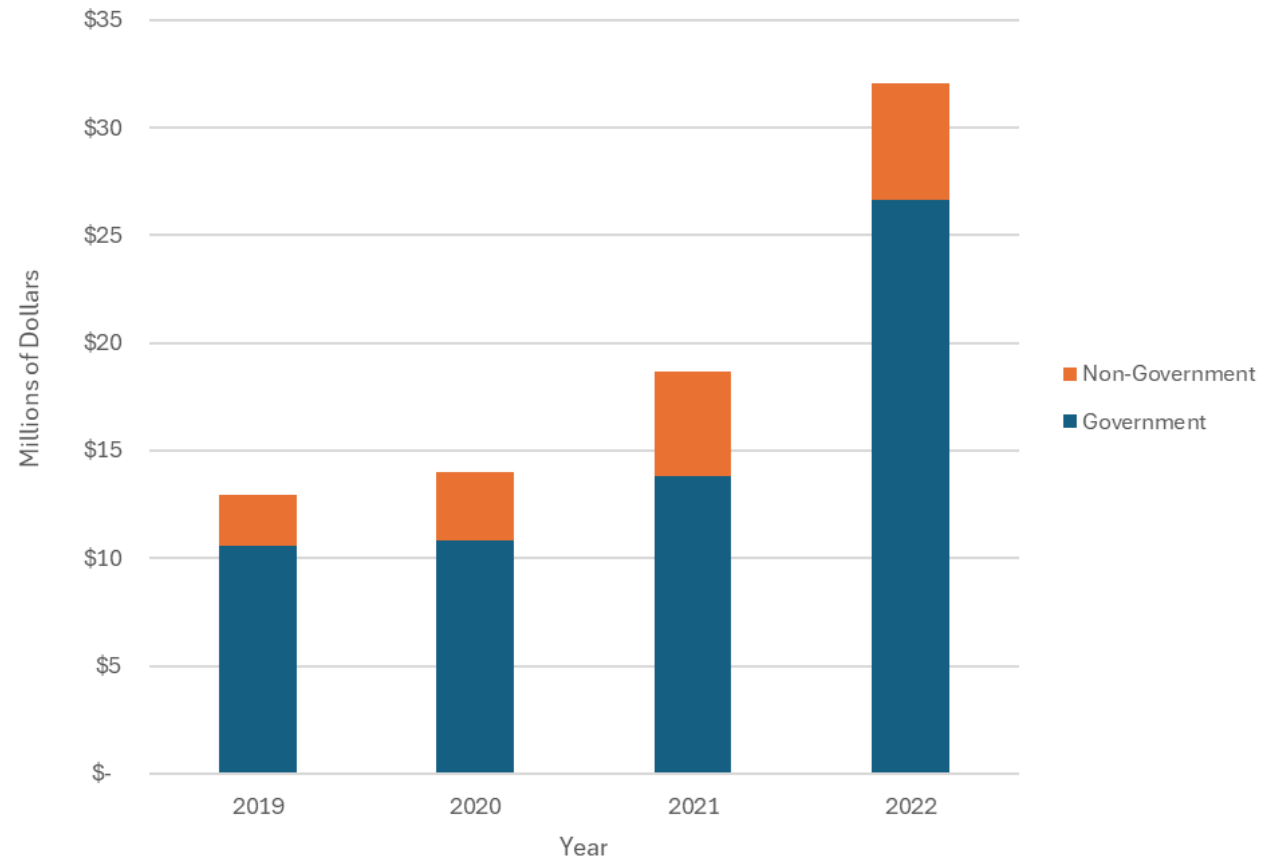
	2021	2022
Grants or Loans Received	\$5,952,381	\$11,150,423
Grants or Loans Given	\$6,031,760	\$7,551,601
Funded Programs	\$6,691,548	\$13,380,377
Total	\$18,675,690	\$32,082,402

Future data displays – Agriculture Resources (Financial)

Illinois NLRS Agriculture Funding



Illinois NLRS Agriculture Funding reported by partner organizations



2023 Biennial Report data displays – Agriculture Resources (Staff)

*In **2021**, approximately **195 full-time equivalent staff** members were engaged in Illinois NLRs outreach, implementation, or research for the agricultural sector. In **2022**, the number fell slightly to **186 staff members**. This includes existing agency employees and multiple organizations working in any capacity on nutrient loss reduction goals. **These numbers do not include Illinois' USDA Farm Service Agency, FSA, or Natural Resources Conservation Service, NRCS, staff operations.***

Future report data displays – Agriculture Resources (Staff)

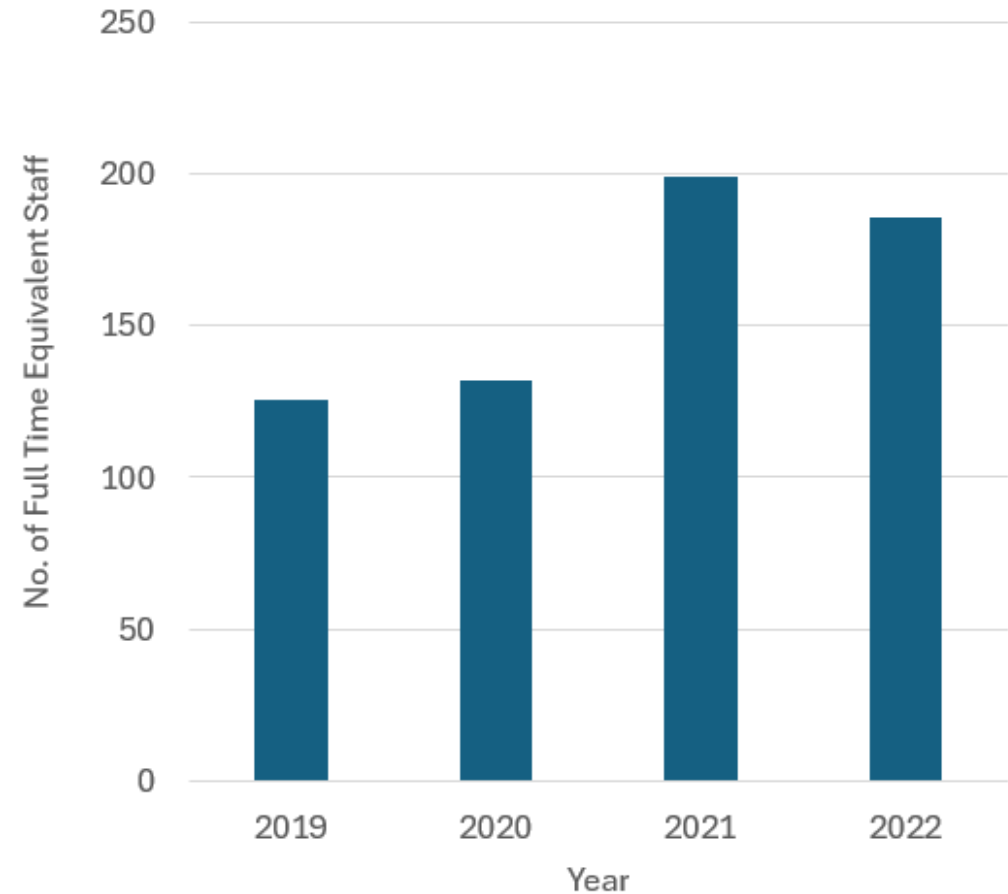
These numbers **do include** staff operations from:

- NGOs
- SWCDs
- IDNR
- Illinois Extension

These numbers **do not include** staff operations from:

- FSA
- NRCS
- IEPA

Illinois NLRS Agriculture Full Time Equivalent Staff



2023 Biennial Report data displays – Agriculture (Outreach event type and attendance)

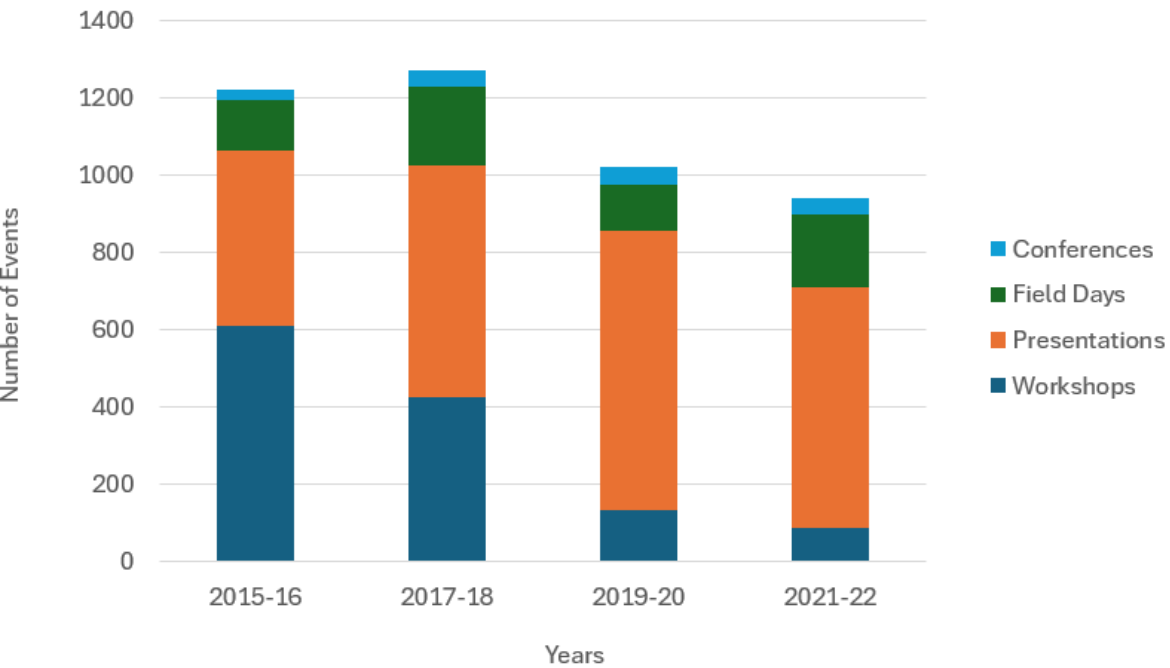
Table 4.2. NLRS outreach events 2021–22

Type of Outreach	Number of Events	Total Reported Attendance
Presentations	625	70,961
Field Days	186	13,548
Workshops	85	7,939
Conferences	44	18,212
Total	940	110,660

Future report data displays – Agriculture (Outreach events type, number, & attendance)

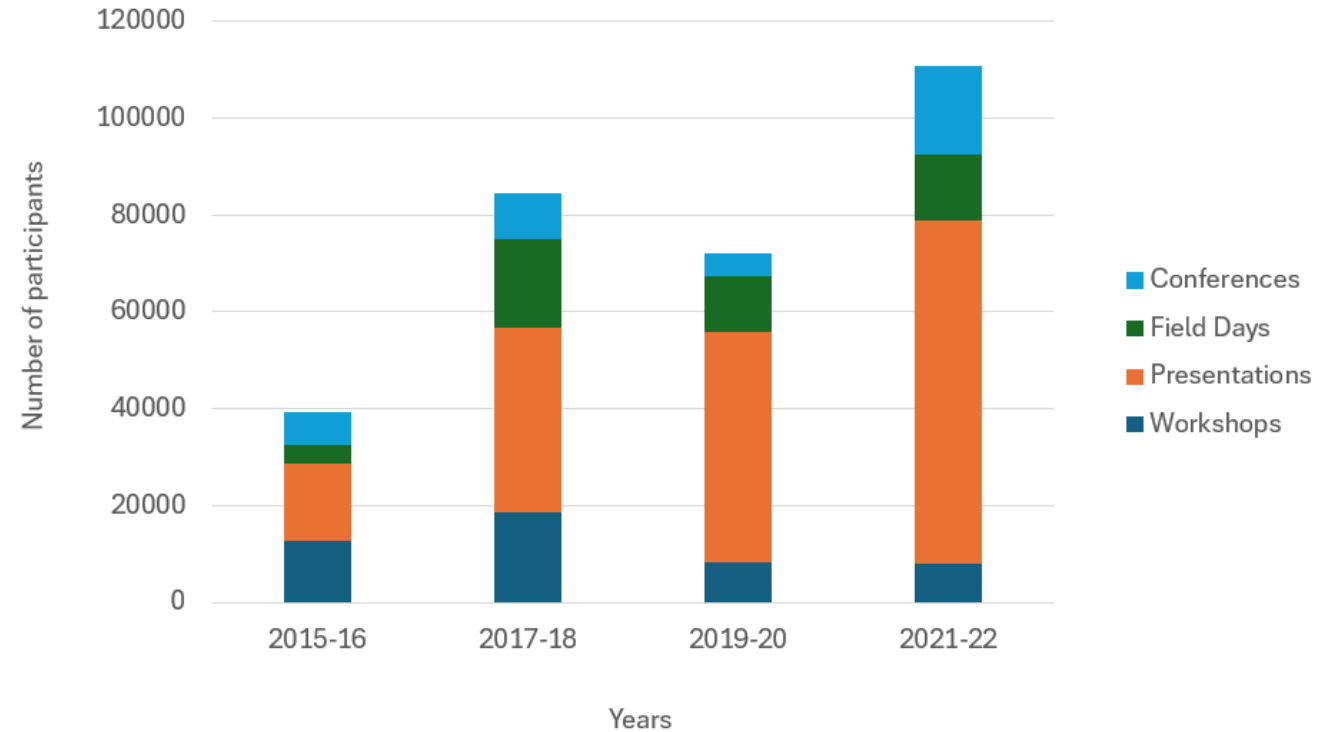


Number and Type of NLRS Agriculture Outreach Events



Number of events and type

Attendance and Type of NLRS Agriculture Outreach Events



Attendance and type

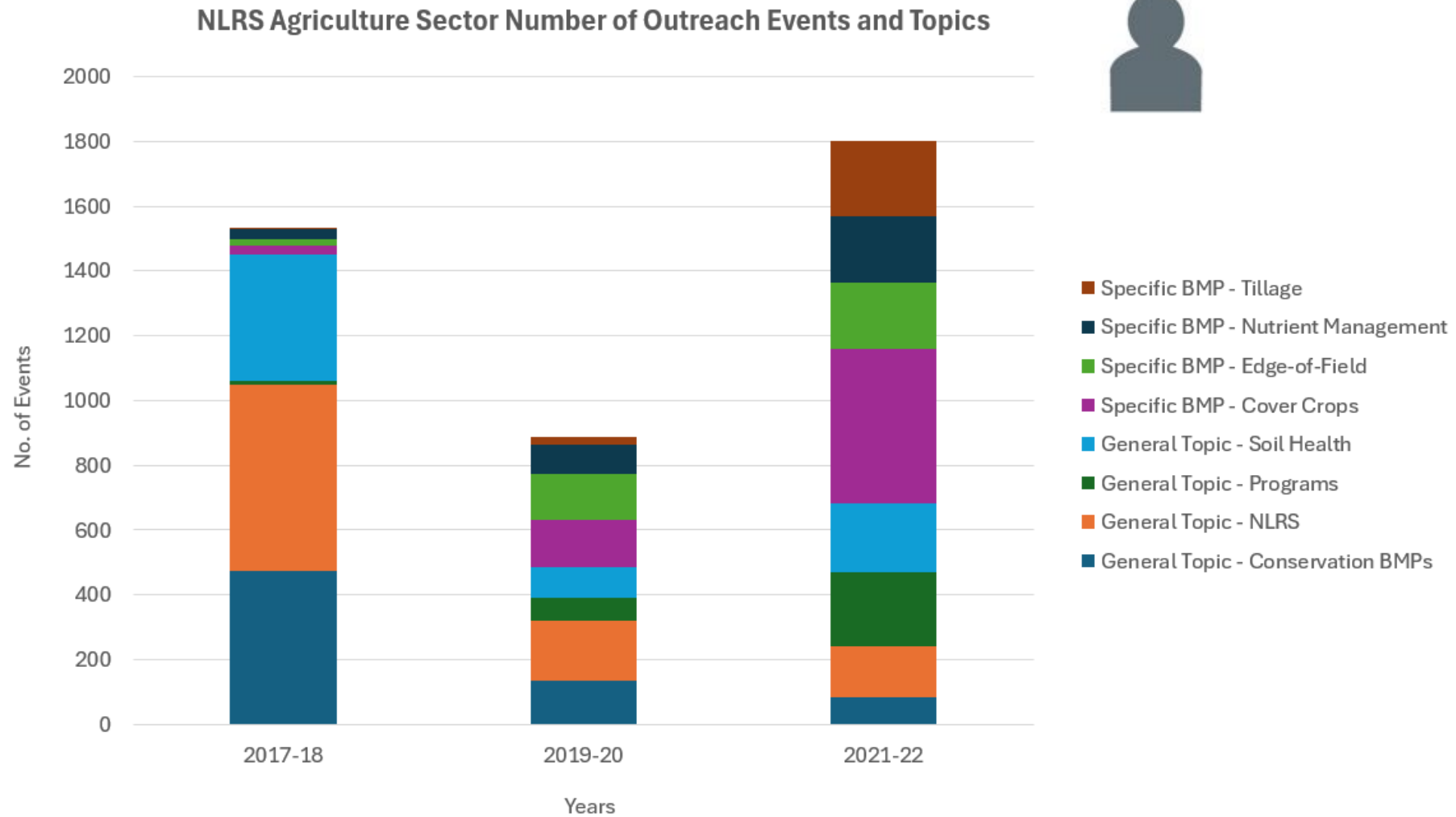
2023 Biennial Report data displays – Agriculture (Outreach topics)

Table 4.3. Topics of outreach activities 2021–22*

		Number of Events	Percent of Total Events
General Topics	NLRS	157	17%
	Conservation Best Management Practices	84	9%
	Soil Health	213	23%
	Programs	228	24%
Specific BMPs	Nutrient Management	207	22%
	Cover Crops	479	51%
	Edge-of-Field	203	22%
	Tillage	232	25%

*Table reports the number of events where a topic was discussed. More than one topic may have been discussed at an event.

Future report data displays – Agriculture (Outreach topics and number)



Illinois NLRS Portal Progress Update and Ag partner timeline

Joan Cox, University of Illinois Extension



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REDUCTION STRATEGY

Tentative Timeline – Development Tasks

	2024 Oct	2024 nov	2024 dec	2025 Jan	2025 Feb	2025 Mar	2025 Apr	2025 May	2025 Jun	2025 Jul	2025 Aug
Development Tasks											
homepage/navigation	Development	Development	Mockup due								Mockup due
point source content	Development	Development	Development	Mockup due							Mockup due
research			Development	Development	Mockup due						Mockup due
partnership accomplishments			Development	Development	Mockup due						Mockup due
water metrics			Development	Development	Development	Mockup due - USGS only	Mockup due				Mockup due
urban stormwater content				Development	Development	Mockup due - Urban stmwater only			Mockup due		Mockup due
agricultural content						Development	Development	Mockup due - AWQPF only	Mockup due		Mockup due



Tentative timeline – Stakeholder input

	2024 Oct	2024 Nov	2024 Dec	2025 Jan	2025 Feb	2025 Mar	2025 Apr	2025 May	2025 Jun	2025 Jul	2025 Aug
1											
2											
3	Stakeholder Voice										
4	focus group - Oct 22 meeting	Use and Homepage /navigation/subpage mockup survey Nov 4-14	Review finalized homepage mockup	Review Mockup point source subpage static + interactive dashbord	Review: static research, partnership accomplishments mockup		Review: water mockup (static + interactive dashboard)		Review ag and urban mockup (static + interactive dashboard)		Test final prototype
5		focus group, Use and Homepage /navigation/subpage mockup survey Nov 4-14	Review finalized homepage mockup	Review Mockup point source subpage static + interactive dashbord	Review: static research, partnership accomplishments mockup		Review: water mockup (static + interactive dashboard)		Review ag and urban mockup (static + interactive dashboard)		Test final prototype
6		focus group -Nov 7 meetig, Use and Homepage /navigation/subpage mockup survey Nov 4-14	Review finalized homepage mockup	Review Mockup point source subpage static + interactive dashbord	Review: static research, partnership accomplishments mockup		Review: water mockup (static + interactive dashboard)		Review ag and urban mockup (static + interactive dashboard)		Test final prototype
7				focus group	Review: static research, partnership accomplishments mockup	Review: water mockup - USGS only (static + interactive dashboard)	Review: water mockup (static + interactive dashboard)		Review ag and urban mockup (static + interactive dashboard)		Test final prototype
8		Use and Homepage /navigation/subpage mockup survey Nov 4-14			focus group	Review: urban stormwater mockup (static and interactive dashboard)	Review: water mockup (static + interactive dashboard)		Review ag and urban mockup (static + interactive dashboard)		Test final prototype
9		Use and Homepage /navigation/subpage mockup survey Nov 4-14				focus group	Review: water mockup (static + interactive dashboard)	Review ag mockup (static + interactive dashboard)	Review ag and urban mockup (static + interactive dashboard)		Test final prototype
10		Use and Homepage /navigation/subpage mockup survey Nov 4-14	Review finalized homepage mockup	Review Mockup point source subpage static + interactive dashbord	Review: static research, partnership accomplishments mockup		Review: water mockup (static + interactive dashboard)		Review ag and urban mockup (static + interactive dashboard)		Test final prototype
11		Use and Homepage /navigation/subpage mockup survey Nov 4-14	Review finalized homepage mockup	Review Mockup point source subpage static + interactive dashbord	Review: static research, partnership accomplishments mockup		Review: water mockup (static + interactive dashboard)		Review ag and urban mockup (static + interactive dashboard)		Test final prototype
12											
13						Review prototype to-date			Review prototype to-date		

Final Stretch – Oct. to Dec. 2025

October – final prototype testing by NLRS Steering and steering Agency marketing teams

November – Steering Agency Director reviews

December – launch dashboard

Oct. – Dec. marketing planning and execution



Data requests - Next Steps

- Financial/Staff Resources & Outreach Spreadsheets request
(email solicited on 12/2 – Due 1/31)
- “Normal” land and facilities statewide data request
(will send email solicitation prior to Dec. 20. – Due 1/31)
- Spatial/temporal data request for interactive data dashboard
(one-on-one email solicitations and Zoom calls in progress - Due Feb. 28.)
- Narratives – condensing and simplifying for mostly evergreen content
(solicitation to review proposed text in Jan. – Feb. - Due March 1)

PARTNER UPDATES?



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Thank you

Contact NLRS@Illinois.edu

if you have any comments or questions.



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