Pollution Prevention with Lawn to Lake

Urban Stormwater Working Group (USWG) meeting update May 12, 2020

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History of Lawn to Lake





Program Goals

Inform homeowners and communities how actions we take **on land** have effects on our **watersheds**.

Offer resources to encourage adoption of sustainable lawn and landscaping practices.







Sustainable Lawn & Landscape Practices for Communities

Lawn to Lake Guidebook for Illinois & Indiana

Conserving

Seed or Sod? Water Outdoors Establishing a New Lawn









2012



LAWN TO LAKE

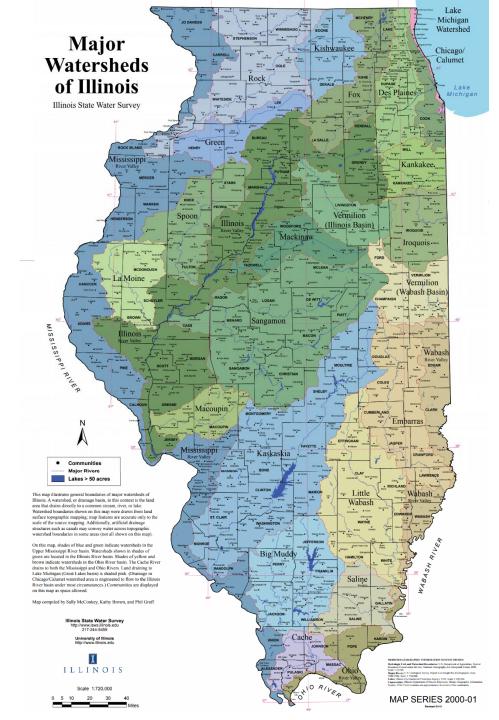


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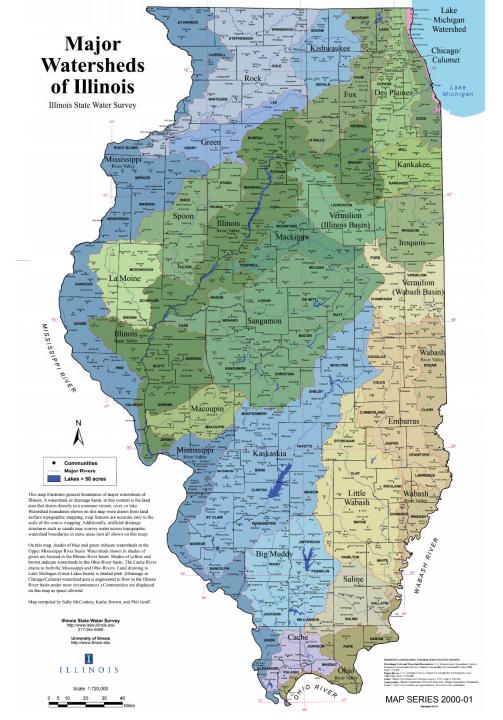




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Current Project

Targeting Natural Lawn Care Communications to Homeowners in Illinois

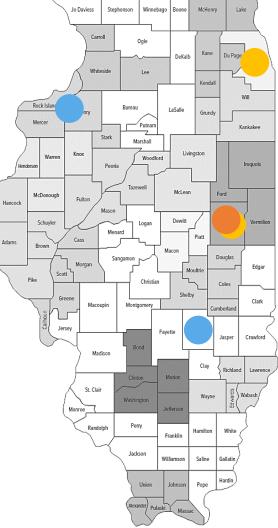
Interdisciplinary Collaborations in Extension Grant

Illinois-Indiana Sea Grant

 Agricultural Communications Program
 +
 UIE Watershed Outreach Associates



ILLINOIS. Extension



Current Project

Targeting Natural Lawn Care Communications to Homeowners in Illinois

Interdisciplinary Collaborations in Extension Grant

- 1. Survey Illinois residents
- 2. Develop Communications materials
- 3. Conduct Focus Groups
- 4. Revise and finalize communications materials

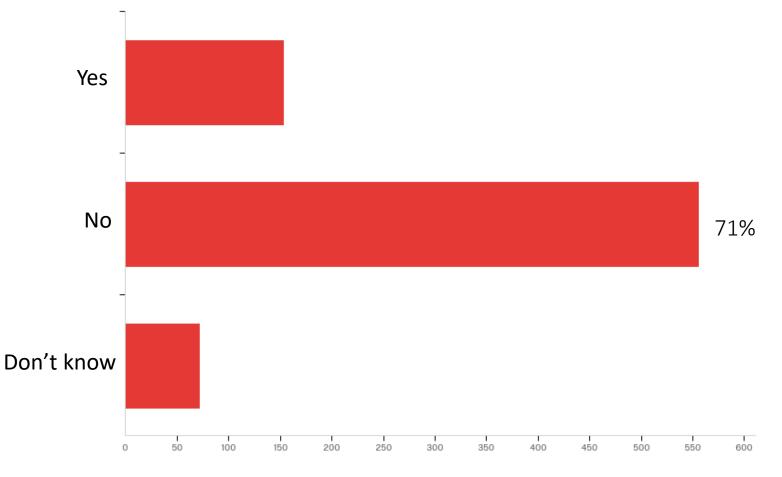


Survey Results

- 841 respondents; 799 (95%) had a lawn
 - 89% were homeowners
 - Size: 47% small, 26% medium, 26% large
 - 67% manage their own lawns, 21% ask other household members to take care of it
 - 95% said they participate in caring for their lawns
 - 82% felt they had some to a great deal of experience
- Demographics:
 - 65% female
 - 85% college graduates or held advance degrees
 - 80% between 35-74 years old
 - 167 between 55-64 years old

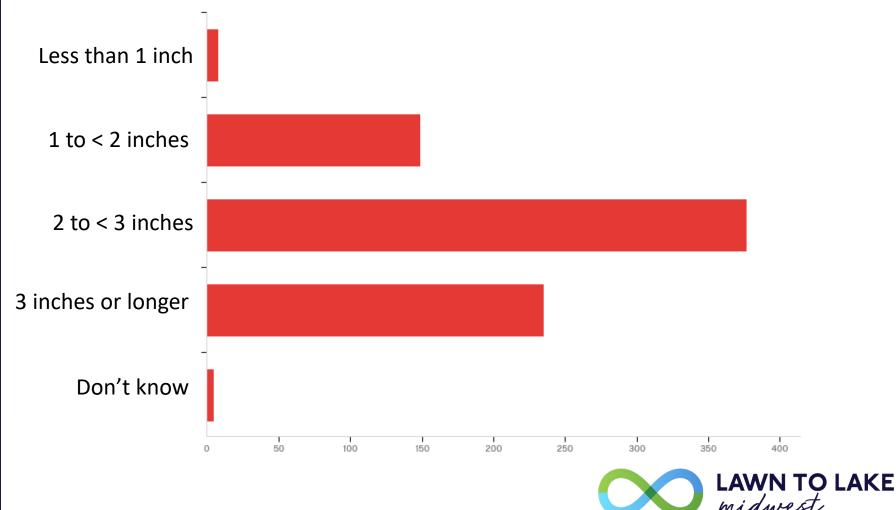


Has your soil ever been tested?





Typically, how long is your grass after it has been cut?



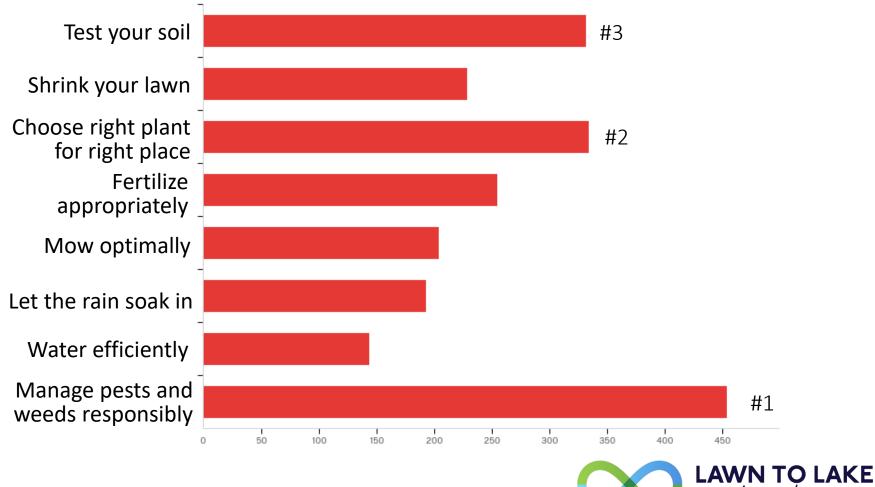
Do you already follow the lawn care practices below? If not, would you be willing to do them in the future?

#	Question	ALREADY do this	YES, willing to do in the future	NO, not willing to do in the future	Unsure/ Don't know	Total
1	Choose plant or grass species that best fit yard conditions (e.g., sunlight, drainage)	54.44% (417)	34.20% (262)	2.61% (20)	8.75% (67)	766
2	Design landscape to reduce unnecessary grass area	43.28% (325)	36.62% (275)	8.79% (66)	11.32% (85)	751

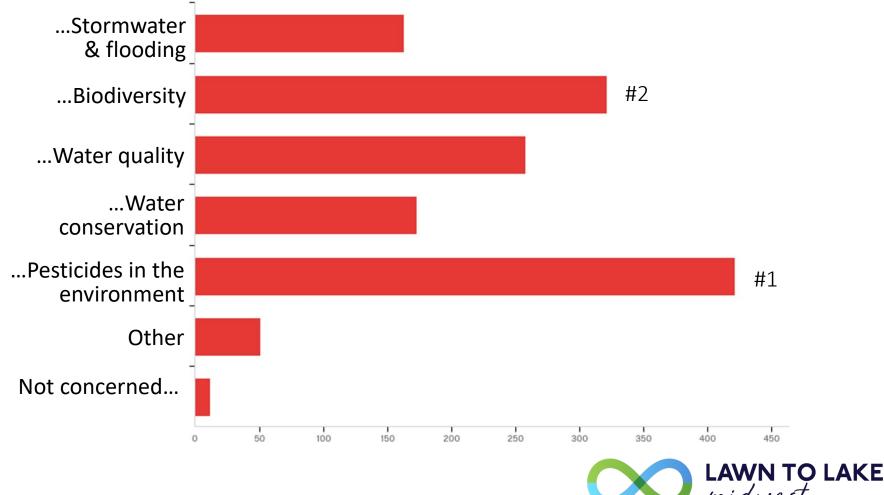


DRAFT RESULTS

Which of these environment-friendly lawn care practices would you like to learn more about? Select all that apply.



What are your major concerns related to the environment in general? Select your top two concerns.



What are your current and preferred sources of lawn care information?

Current

- 1. Internet research (15%)
- 2. University Extension experts (9%)
- 3. Family, friends, neighbors, and/or colleagues (8%)
- 4. Newspaper or magazine articles (8%)
- 5. Product packaging (7%)

Preferred

- 1. Internet research (13%)
- 2. University Extension experts (11%)
- Brochures or factsheets (11%)
- 4. Guidebook or manual (8%)
- 5. Family, friends, neighbors, and/or colleagues (6%)



Conclusions

- Although some respondents are testing their soil and following best practices when it comes to planting and fertilizer/pesticide use, there is room for improvement, and many are willing to adopt new practices.
- Although outreach materials aren't currently a source of lawn care information, they are a priority.
- Continued engagement of Extension experts is key to successful natural lawn care education.



Focus Groups

- January 9, 2020: Effingham
- January 16, 2020: Rock Island
- January 23, 2020: Lake



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What's in Your Watershed? Flint-Henderson

What is a watershed Writes he a water shear . A watershed is an area of land that drains to a waterbody, such as a lake, stream, or wetland. They can be as A watershed is an area of land that draws to a waterbody, such as a lake, stream, or wetland. They can be as small as the dwarage area for a pond or as large as the Mississippi River Basin (Figure 1). Evolved land features like hills and slopes separate one watershed from another. Even if you don't like directly next to a river or lake. As anyword at in the land surroundeas your home will exect table draw to advect the law. are ming any source separate one waterares from another, even in you don't are one-cay rest to a tree the precipitation that fails on the land surrounding your home will eventually drain to nearby waters.

How does pollution enter a watershed? Any single source of pollution that is easy to identify, like a pipe Airy single source or pollution that is easy to luentify, like a p coming from a factory or sewage treatment plant, is called point-source pollution. On the other hand, nonpoint source pollution comes from many, difficult to identify sources. As poliurum comes from many, dimcut to identity sources. As water flows across residential lawns, farm fields, and streets, it value invested as a concerner lawro, term meno, and server Nexs up triese nonpoint source pointants—which include entilizers, pesticides, road salt, and oils. This means that herousers, pestindes, road sait, and ous. I nis means that landscaping and other such land management decisions affect the health of your watershed and the plant, animal, and human

ne major threat to water quality is nutrient pollution from One major timeat to water quanty to nutrient production more fertilizers. Excess nitrogen and phosphorus in waterbodies Terraizers, Excess introgen and phosphorus in wateroom triggers algae blooms, which creates a host of problems cluding impaired use of the water for drinking and recreation ered property values, and the creation of "dead zones" here decreased oxygen levels in the water harm aquatic its and animals. One such example is the dead zone that he such example is the deal zone that indis of square miles in the Gulf of Maxico (Figure 1). The Gulf deal zone results from the second state of the state of the state of the second sta ³⁵ square must in the sum or invexico (Figure 1). The sum dead zone results lississippi River Basin watershed, which covers 41% of the continental U.S.

erson watershed is a sub watershed within the sippi River Basin, and is also referred to as the North Central River watershed. It covers ately 1.5 million acres and encompasses portion ois: Henry, Mercer, Knox, Warren, Henderson ock. Over 65 tributaries make up the Flint-Hend which accounts for over 865 miles of rivers, creeks, whe major tributaries include the Edwards River anderson Creek, and Ellison Creek. and in the Flint-Henderson n watershed is used in

rient pollution locally in Illinois and downstrea Presentatives from state and federal agencies and non-profit organizations gathered with I wastewater treatment professionals to develop a alled the Illinois Nutrient Loss Reduction Strategy





Coming Soon...

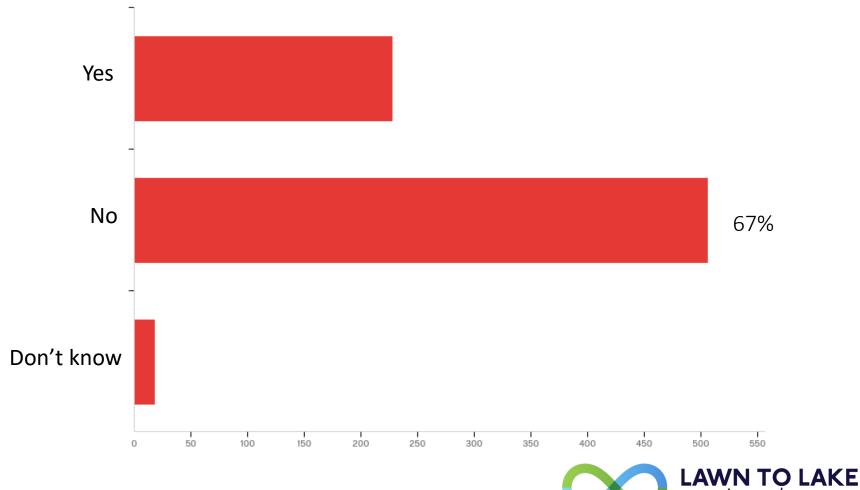
- Outreach Materials
 - Brochures:
 - Soil Health/Testing
 - Right Plant Right Place
 - IPM
 - Factsheets: "What's in your watershed?"
 - Website & updated, digital Guidebook
 - Library Displays
- 3 NLC Workshops in April 2020
 3 NLC Webinars April/May 2020
 - 1 Collaboration with Cook County Extension & Conservation@Home
 - 2 Everyday Environment UIE webinar series
- Connecting with other UIE staff/units!



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Do you use a combined pesticide and fertilizer (e.g., weed and feed) on your lawn?



DRAFT RESULTS

Of the 54% of respondents who have aerated their lawns... **How often is your lawn aerated?**

