

Source Water Protection Program

Matt Krueger

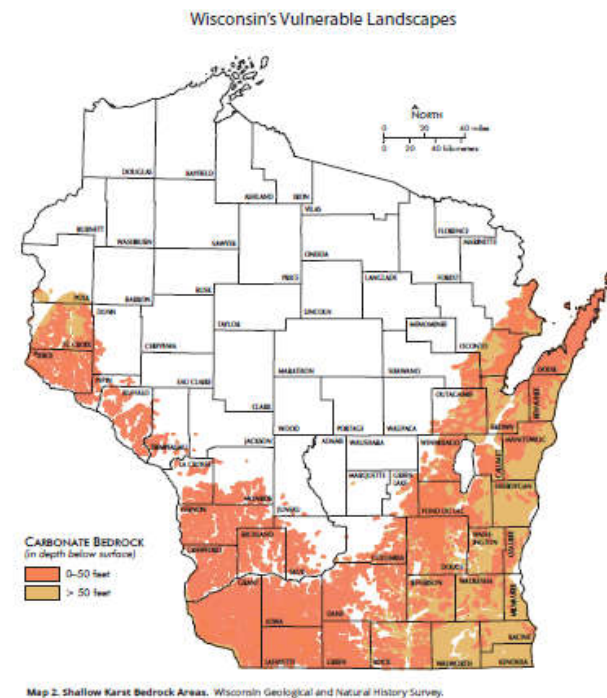
2019 NACD Executive Director Conference



Wisconsin's Vulnerable Landscapes



Source: DNR Wisconsin's Ecological Landscapes



Map 2. Shallow Karst Bedrock Areas. Wisconsin Geological and Natural History Survey.

Source: WI Geological & Natural History Survey



Contaminants in Tap Water



Groundwater quality in the news...

DNR rule revisions for manure spreading take effect July 1



Published by [Central Office](#) June 26, 2018

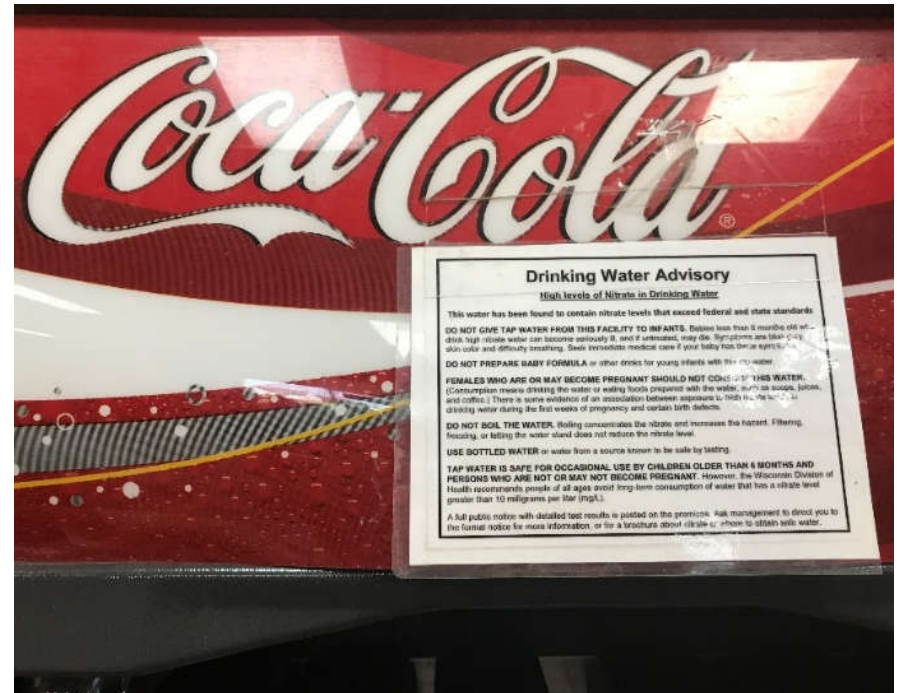
Contact(s): Mary Anne Lowndes, 608-261-6420

MADISON - New rule revisions designed to reduce manure groundwater contamination, specifically in the northeast section of the state, take effect July 1.

The changes, under the Wisconsin Department of Natural Resources' ch. NR 151, Wis. Adm. Code, relate to Silurian bedrock, which are areas where the soil depth to bedrock is shallow and the bedrock may be fractured.

Nitrate in Groundwater/Drinking Water

- ▶ Over 2/3 of Wisconsinites get their drinking water from groundwater sources
- ▶ 42,000 private wells contaminated by nitrate



Agricultural Trends

- ▶ Increasing row crops
- ▶ Fewer dairies
- ▶ Increasing N application

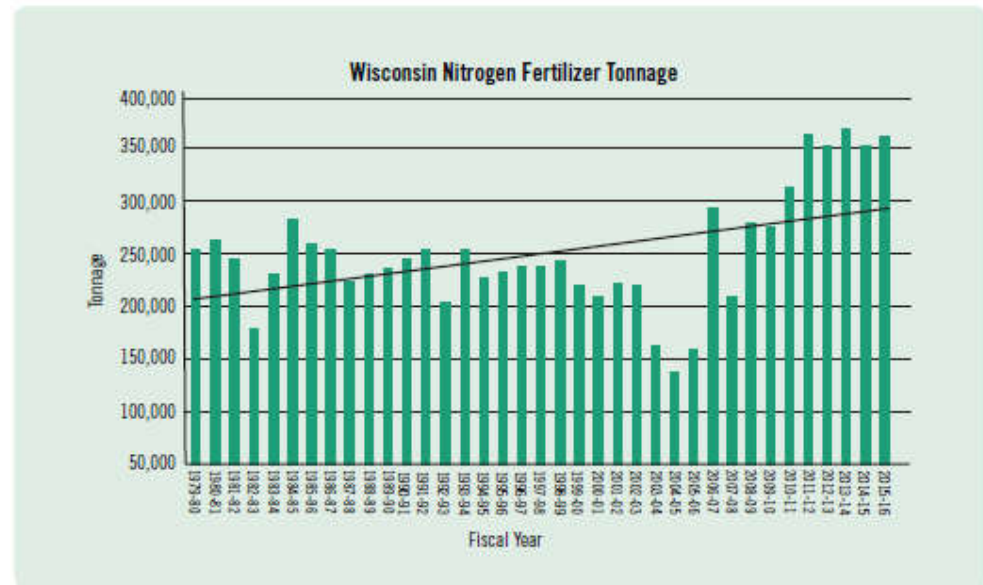
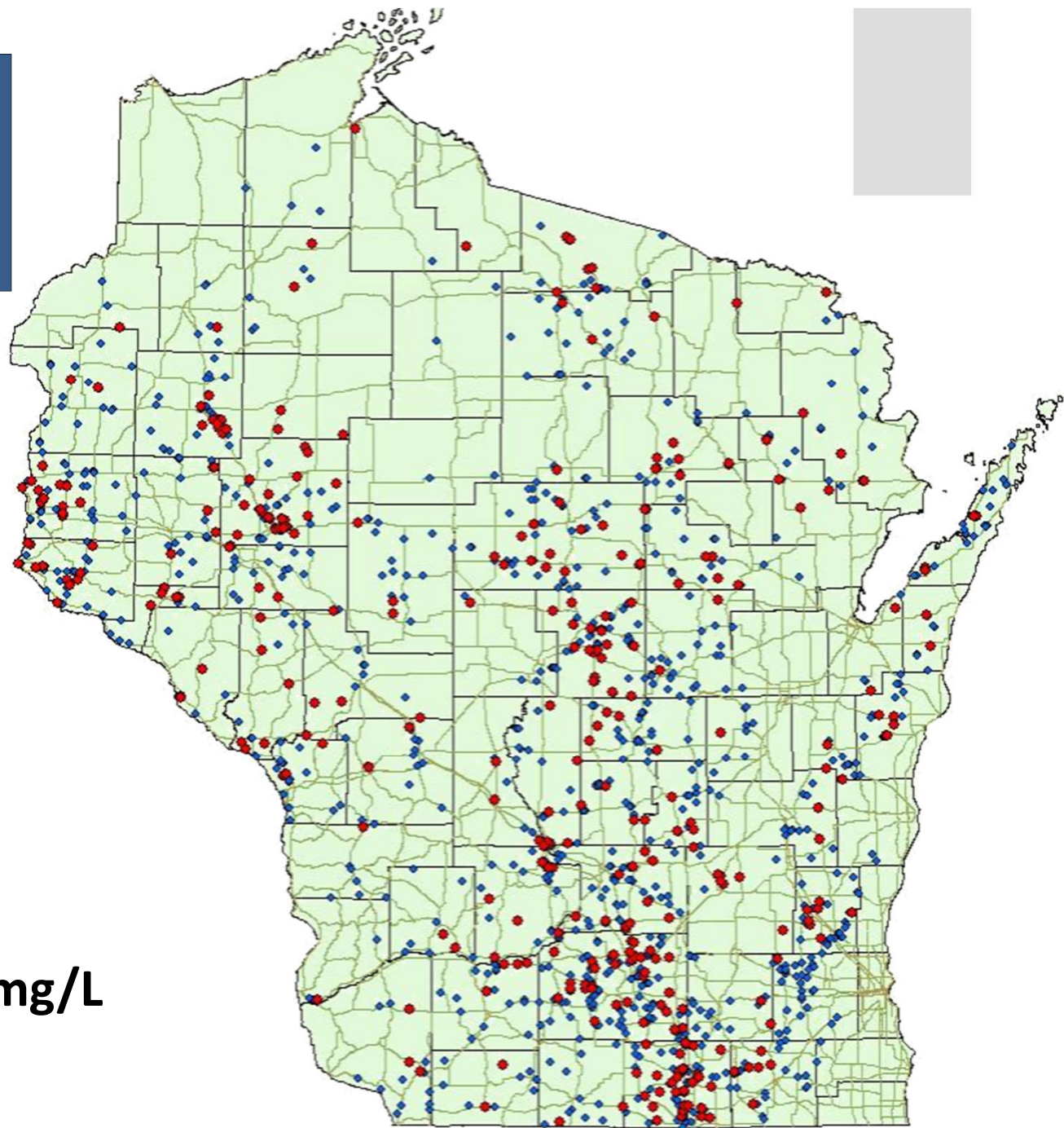


Chart 2. Wisconsin Nitrogen Fertilizer Tonnage (1979-2016). Less than 5% non-agricultural tonnage. Source: WI (DATCP) annual fertilizer tonnage reports.

Source: Food, Land, and Water: Moving Forward

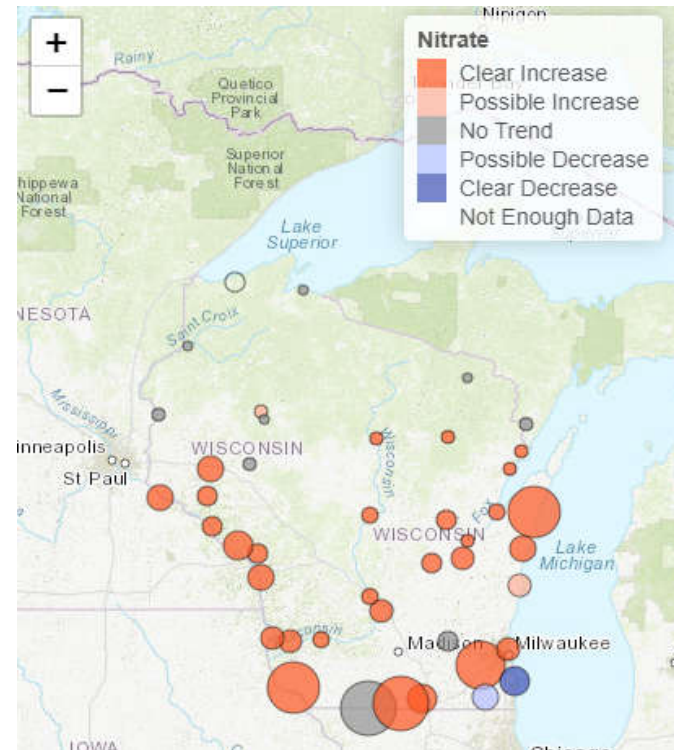
Nitrate at Public Drinking Water Wells

- Wells > 10.0 mg/L
- Wells > 5.0 <10.0 mg/L



Nitrate in Surface Waters

- Has increased in most rivers in agricultural basins over past several decades



Source:

<https://wisconsin.dnr.shinyapps.io/riverwq/>

More groundwater quality in the news...



Water quality has become a bipartisan issue

Tony Evers declared 2019 'the year of clean drinking water.' Here's the task he faces in Wisconsin

[Lee Bergquist and Mary Spicuzza](#), Milwaukee Journal Sentinel

Published 7:00 a.m. CT Jan. 25, 2019 | Updated 8:15 a.m. CT Jan. 25, 2019



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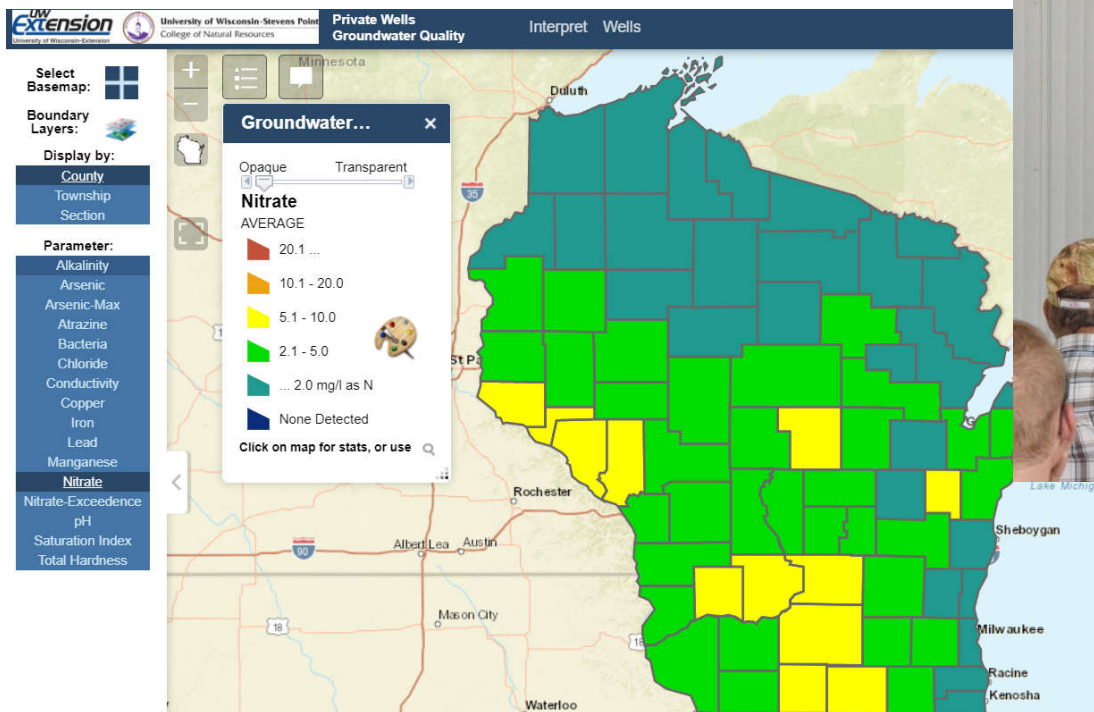
[Our Mission](#)

Source Water Protection Program

- ▶ Provide a connection between state and local resources
- ▶ Build local capacity for integrated groundwater programming
- ▶ Build cross agency relationships for innovative and holistic approaches to land management



Provide a connection between state and local resources



<https://www.uwsp.edu/cnr-ap/watershed/Pages/GWHome.aspx>

Provide a connection between state and local resources



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water table
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Trempealeau County

Displaying 20 of 100 items per page. Showing the single result.

Generalized Water-Table Elevation Map of Trempealeau County, Wisconsin

Data Accompanying M132: Generalized Water-Table Elevation Map of Trempealeau County, Wisconsin

Price Download: \$25.00 per

Author(s): Craven, J., Muldon, M.A.
Publication Date: 1996
Subject(s): Frac. Sand, Groundwater, Water
Physical Desc: Coverage Maps
Product Num: M132-CR (RAMP-AR0547-01)
Others in Wisconsin?

Generalized Water-Table Elevation Map of Trempealeau County, Wisconsin

Price Download: \$20.00 per

<https://wgnhs.uwex.edu/>

Build local capacity for integrated groundwater programming

- ▶ Develop and share resources
- ▶ Coordinate trainings and Webinars, such as:
 - ▶ How to design a private well monitoring program
 - ▶ Human health effects of nitrate
 - ▶ Wisconsin's groundwater basics
 - ▶ Accessing public well information

The image displays three vertical brochures from the La Crosse County Health Department. The first brochure, titled "WATER TESTING PROCESS", lists a five-step procedure: 1. Water sample collection by the consumer, 2. Bringing the sample to the health department or a certified lab, 3. Lab analysis by staff, 4. Contacting staff for positive samples, and 5. Providing reliable options to address contaminants. It includes an illustration of a glass of water with a splash. The second brochure, "WHERE TO REFER PATIENTS FOR WATER TESTING KITS", provides "Pick Up" locations (Town Clerks, Libraries, Local Health Departments) and "Drop Off" information for the La Crosse County Health Department (300 4th St N, 2nd Floor, La Crosse, WI 54601, Phone: 608-785-9872, Monday-Thursday 8:00am-4:00pm). The third brochure, "Encouraging Well Water Testing at Primary Care Visits", features images of a doctor and laboratory glassware.

<https://wisconsinlandwater.org/programs/groundwater-protection>

Collaboration



Health & Conservation Workgroup



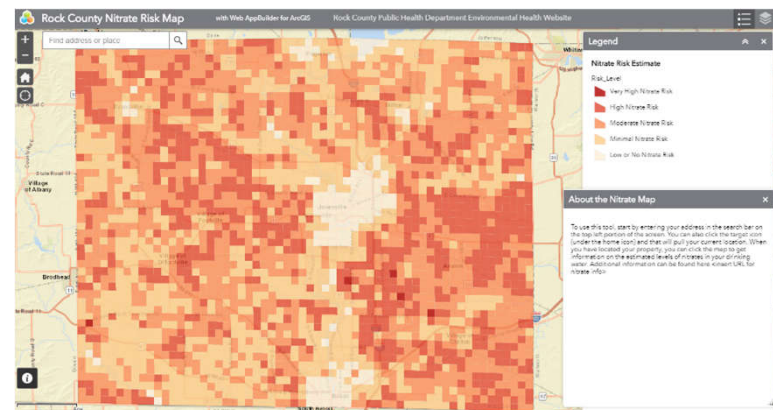
Forge relationship between WI Land+Water and WALHDAB and strengthen local conservation and public health partnership to protect and enhance drinking water.

Innovative Approaches

Testing BMPs and understanding nitrate leaching



Developing tools to understand risks



Resources

- ▶ Source Water Protection Program
 - ▶ <https://wisconsinlandwater.org/programs/groundwater-protection>
- ▶ Groundwater Webinar Series
 - ▶ <https://wisconsinlandwater.org/programs/groundwater-webinar-series>
- ▶ Food, Land, and Water Report
 - ▶ <https://wisconsinlandwater.org/programs/food-land-water-project>