Green County Water WELLness 2025



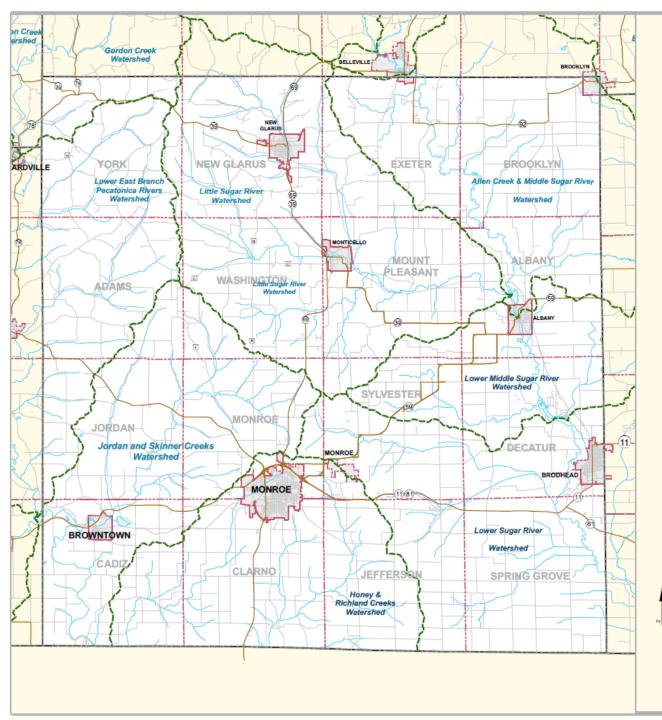




Center for Watershed Science and Education College of Natural Resources **University of Wisconsin - Stevens Point**



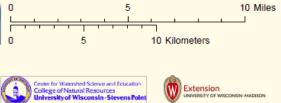
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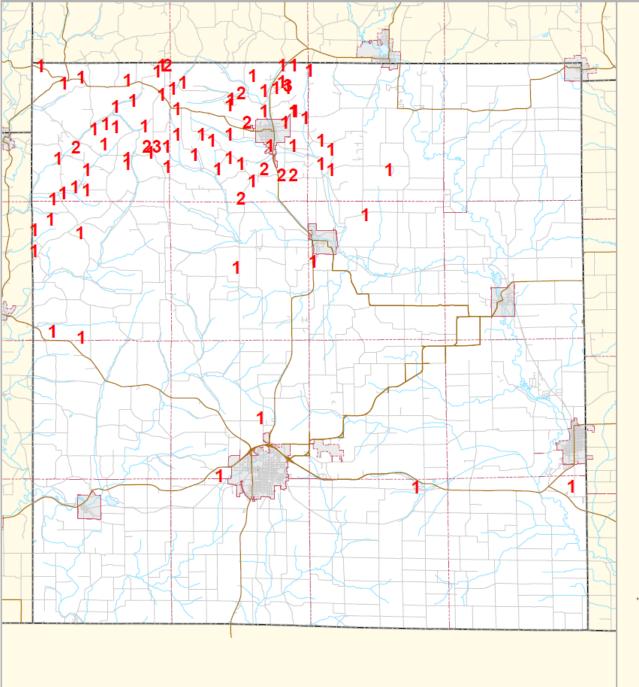






Watershed Boundary Streams Lakes/Reservoirs Wetlands State/US Highways Other Roads Town Boundaries Municipalities

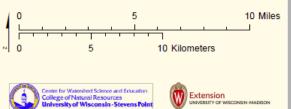


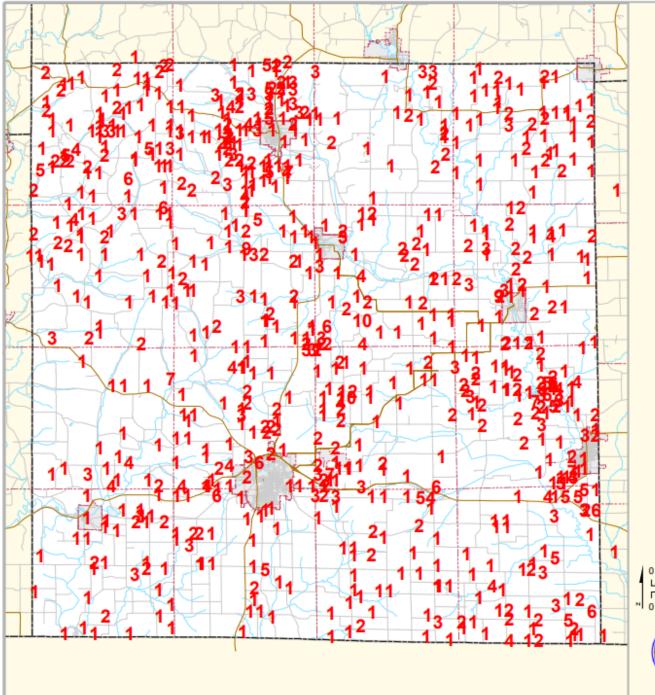




SAMPLE DISTRIBUTION

NUMBER OF SAMPLES per 1/4 1/4 SECTION





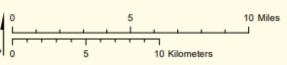
Green County

2013 - 2023



SAMPLE DISTRIBUTION

NUMBER OF SAMPLES per 1/4 1/4 SECTION





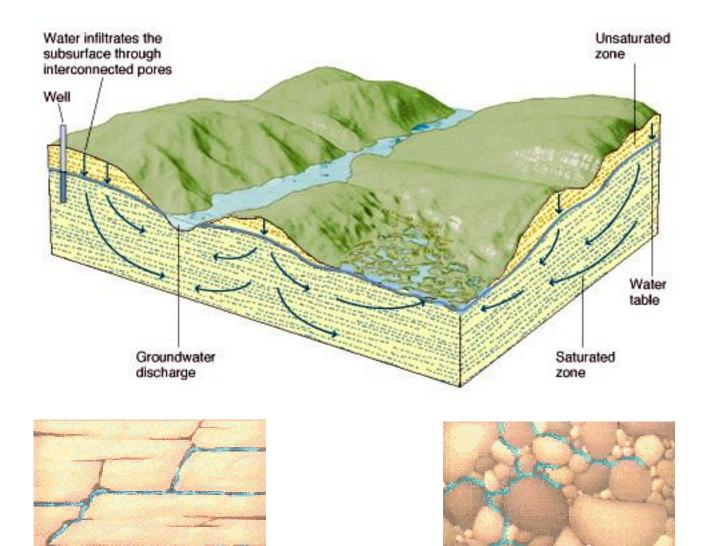
Center for Watershed Science and Education College of Natural Resources University of Wisconsin - Stevens Point

Today's presentation

- Groundwater Basics: Where does my water come from
- Well Construction
- What do my individual test results mean?
- General groundwater quality in Green County
 - Water WELLness Testing
 - Green County Trend Monitoring
- Improving your water quality



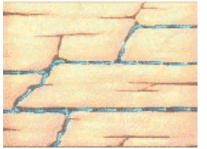
Groundwater Movement



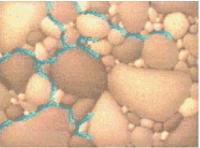
Aquifers: Our groundwater storage units

Aquifers are geologic formations that store and transmit groundwater.

The aquifer properties determine how quickly groundwater flows, how much water an aquifer can hold and how easily groundwater can become contaminated. Some aquifers may also contain naturally occurring elements that make water unsafe.

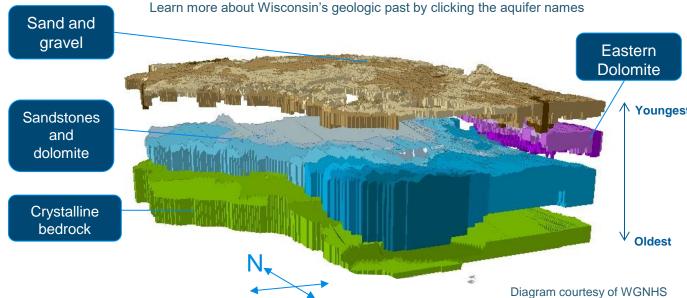


Water and contaminants can move quickly through cracks and fractures.

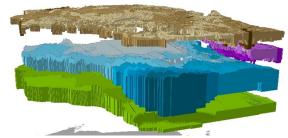


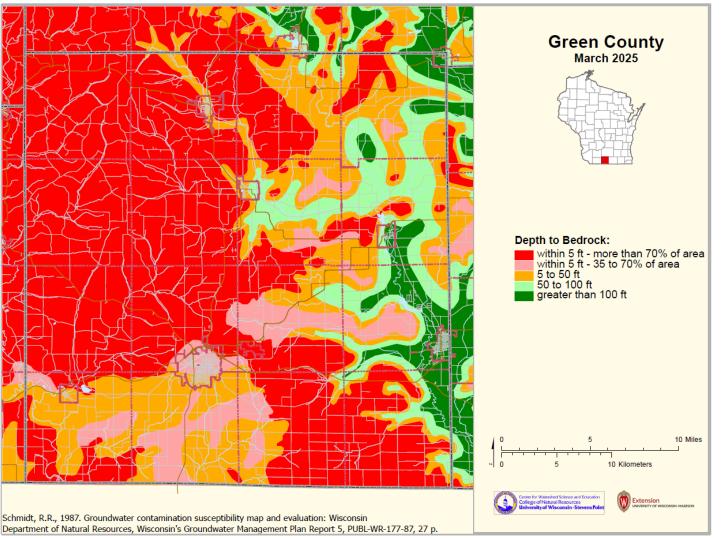
Water moving through tiny spaces in between sand particles or sandstone moves slower and allows for filtration of some contaminants.

Wisconsin's geology is like a layered cake. Underneath all of Wisconsin lies the Crystalline bedrock which does not hold much water. Think of this layer like the foundation of your house. All groundwater sits on top of this foundation. Groundwater is stored in the various **sandstone**, **dolomite** and **sand/gravel** aquifers above the **crystalline bedrock** layer. The layers are arranged in the order which they formed, oldest on the bottom and youngest on top.

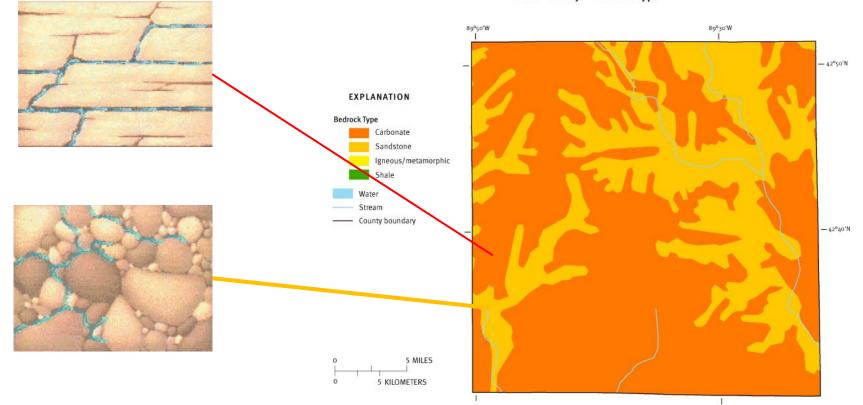


Depth of unconsolidated materials (i.e. soil, sand, gravel)





Green County Geology



Green County - Bedrock Type

This resource characteristic map was derived from generalized statewide information at small scales, and cannot be used for any site-specific purposes.

Map source: Schmidt, R.R., 1987, Groundwater contamination susceptibility map and evaluation: Wisconsin Department of Natural Resources, Wisconsin's Groundwater Management Plan Report 5, PUBL-WR-177-87, 27 p.

Figure created for the "Protecting Wisconsin's Groundwater Through Comprehensive Planning" web site, 2007, http://wi.water.usgs.gov/gwcomp/

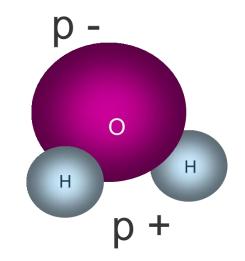
water basics

"Universal Solvent"

Naturally has "stuff" dissolved in it.

 Impurities depend on rocks, minerals, land-use, plumbing, packaging, and other materials that water comes in contact with.

Can also treat water to take "stuff" out





Interpreting Drinking Water Test Results

Tests important to health:

- Bacteria
- Sodium
- Nitrate
- Copper
- Lead
- Manganese
- Triazine (DACT Screen)
- Zinc
- Sulfate
- Arsenic

Tests for aesthetic (taste,color,odor) problems:

- Hardness
- Iron
- Manganese
- Chloride

Other important indicator tests:

- Saturation Index
- Alkalinity
- Conductivity
- Potassium

Red = human-influenced **Blue** = naturally found

Health Concern Categories

Acute Effects

 Usually seen within a short time after exposure to a particular contaminant or substance.

(ex. Bacteria or viral contamination which may cause intestinal disease)

Chronic Effects

- Result from exposure to a substance over a long period of time.
- Increase risk of developing health complications later in life.

(ex. Arsenic or pesticides can increase the risk of developing certain cancers)



	Adapted from Everyone's Guide to Cancer Therapy	
Chronic related health concerns are generally about risk management	Viruses & Infection: 10% Diet: 30-35% Unknown: +5% Alcohol: 3-4% Industrial Occupations: 4% Environmental Pollution: 2% Family History: 2% Food Additives: 1% Radiation (environmental & medical): 1% Sunlight (ultraviolet): 1%	
Being struck by lightning	0.16 in 1,000 chance.	
0.010 mg/L of arsenic in drinking water.	3 out of 1,000 people likely to develop cancer.	
2 pCi of indoor radon level.	4 out of 1,000 people likely to develop lung cancer. ¹	
2 pCi of indoor radon combined with smoking.	32 out of 1,000 people could develop lung cancer. ¹	

Drinking water quality is only one part of an individual's total risk.

¹http://www.epa.gov/radon/healthrisks.html

National Cancer Risk Factors with Percentages

Adapted from Everyone's Guide to Cancer Therapy

Private vs. Public Water Supplies

Public Water Supplies

Regularly tested and regulated by drinking water standards.

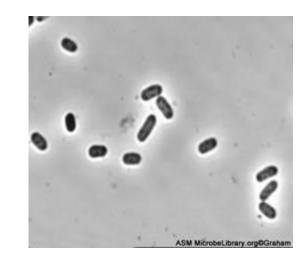
Private Wells

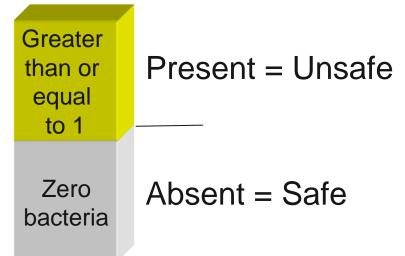
- Not required to be regularly tested.
- Not required to take corrective action
- Owners must take special precautions to ensure safe drinking water.



Coliform bacteria

- Generally do not cause illness, but indicate a pathway for potentially harmful microorganisms to enter your water supply.
 - Harmful bacteria and viruses can cause gastrointestinal disease, cholera, hepatitis
- Well Code: "Properly constructed well should be able to provide bacteria free water continuously without the need for treatment"
- Recommend using an alternative source of water until a test indicates your well is absent of coliform bacteria
- Sources:
 - Live in soils and on vegetation
 - Human and animal waste
 - Sampling error





If coliform bacteria was detected, we also checked for e.coli bacteria test

- Confirmation that bacteria originated from a human or animal fecal source.
- E. coli are often present with harmful bacteria, viruses and parasites that can cause serious gastrointestinal illnesses.
- Any detectable level of E.coli means your water is unsafe to drink.

Centers for Disease Control and ed States Department of Health and Human Services Information Sources: Unit

	Contaminants	Sources Symptoms	
	BACTERIA		
	Escherichia coliform (E. coli) Salmonella Campylobacter E. coli 0157 (Requires a special water test for detection. Causes similar, but more serious illness than other E.coli strains. Requires medical treatment.)	 Infected human and animal feces Manure Septic systems Sewage 	 Gastrointestinal illness Low-grade fever Begins 12 hrs - 7 days after exposure
gov) and United States Environmental Protection	Leptosporidia MICROSCOPIC PARASITES	 Urine of livestock, dogs and wildlife Manure 	 High fever, severe headache and red eyes Gastrointestinal illness Begins 2-28 days after exposure
	Cryptosporidia Giardia VIRUSES	 Infected human and animal feces Manure Septic systems Sewage 	 Gastrointestinal illness Begins 2-14 days after exposure
	Norovirus	 Infected human feces and vomit Septic systems Sewage 	 Gastrointestinal illness Low-grade fever & headache Begins 12-48 hrs after exposure
	Nitrate	 Fertilizers Manure Bio-solids Septic systems 	Methemoglobinemia or "Blue Baby Syndrome" – No documented cases in Door County, but elevated nitrate levels in well water may indicate risk of contamination by additional pathogens.
	Atrazine (trade-name herbicide for control of broadleaf and grassy weeds)	Estimated to be most heavily used herbicide in the U.S. in 1987/89, with its most extensive use for corn and soybeans in the Midwest, including WI. In 1993, it became a restricted-use herbicidenationally. U.S. EPA set a max. contaminant level (MCL) at 3 parts per billion for safe drinking water.	Short-term exposure above the MCL may cause: congestion of heart, lungs and kidneys; low blood pressure; muscle spasms; weight loss; damage to adrenal glands. Long-term exposure above MCL may cause: weight loss, cardio- vascular damage, retinal and some muscle degeneration; cancer.

Well Construction Defects



Is the well cap or casing cracked?

Well Construction Defects



Does your well have a verminproof cap?





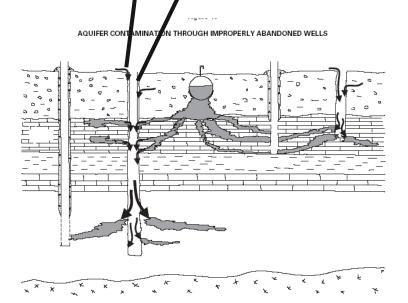
Other Well Construction Defects



- Don't leash
 pets within 10
 feet of the well
 - Pay attention
 to runoff from
 rooftops and
 driveways
- Avoid bird feeders and other decorations directly above the well

Well Construction Defects





Are there old wells on the property?

> Wells are a direct conduit to groundwater

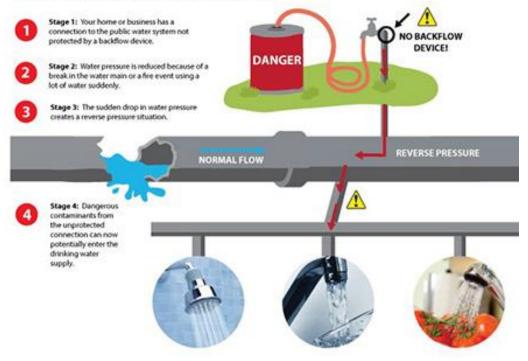
 Consider having them properly filled and sealed

Well Construction Defects



Do yard hydrants, livestock waterers, and service to outbuildings have proper backflow prevention?

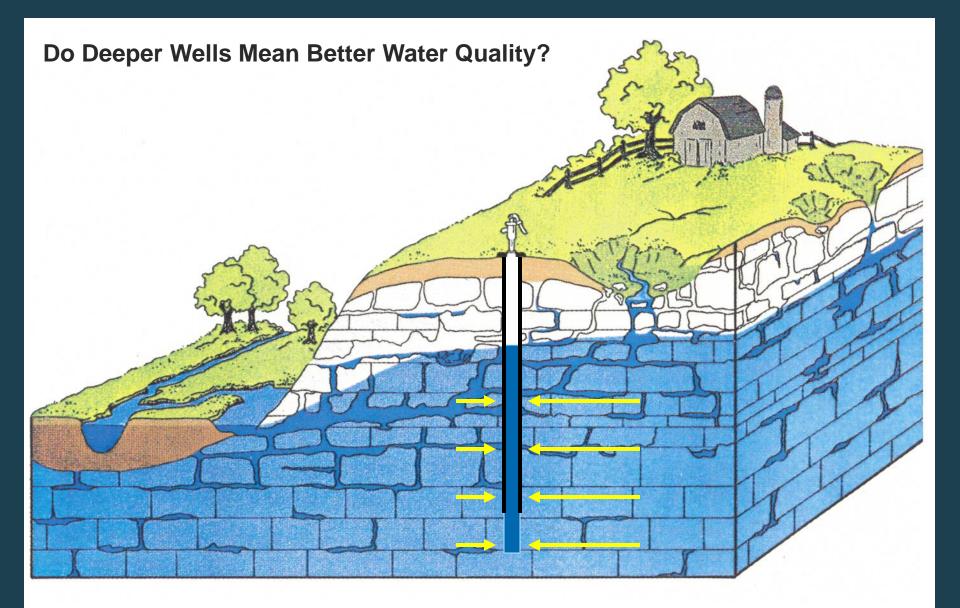
HOW BACKFLOW CAN HAPPEN



What makes a good well....



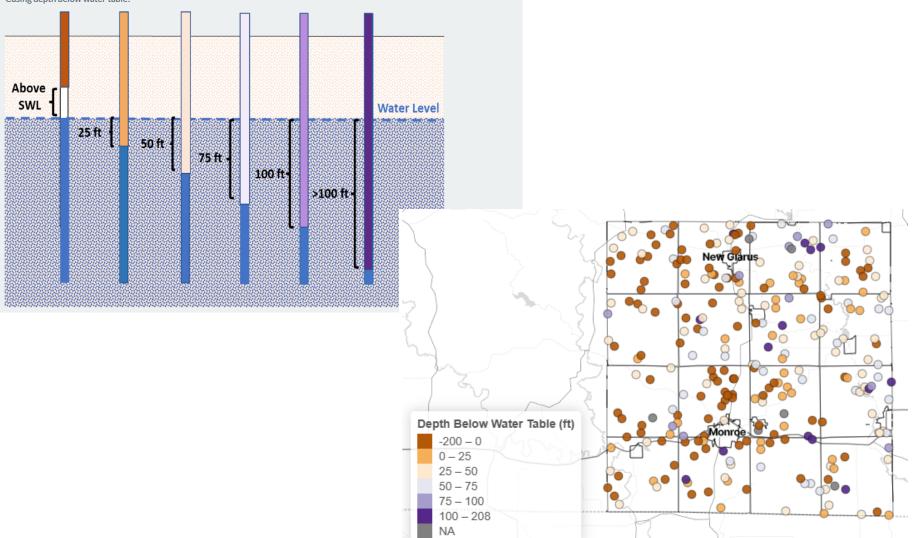
- > Vermin proof cap
- Casing extends at least 12" above grade
- > Area around well free and clear of debris or other obstructions
- Down spouts or runoff from driveways/other surfaces not directed towards the well



Green County Casing Depth Below the Water Table

Casing depth below the water table (feet)

Diagram below illustrates the role of casing depth in reference to the water table. Colors correspond to map legend for the variable 'Casing depth below water table'.



What should I do if coliform bacteria was present?

- 1. Use alternative source of water for drinking
- 2. Retest using a bacteria count
- 3. Try to identify any sanitary defects
 - Loose or non-existent well cap
 - Well construction faults
 - A nearby unused well or pit
 - Inadequate filtration by soil
- 4. Disinfect the well
- 5. Retest to ensure well is bacteria free.
- For reoccurring bacteria problems the best solution may be a new well or if new well is unlikely to remedy the problem because of geology, may seek approval for treatment.

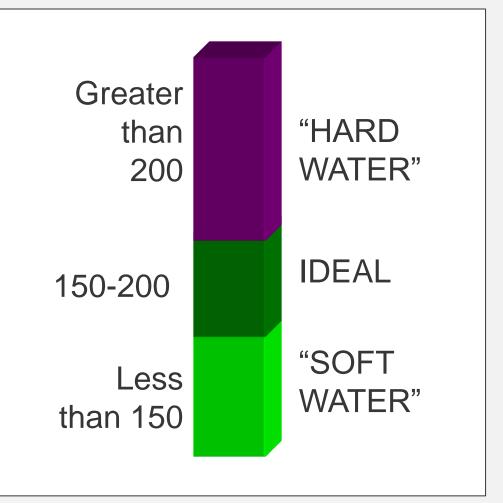
Rock and Soil Impacts on Water Quality

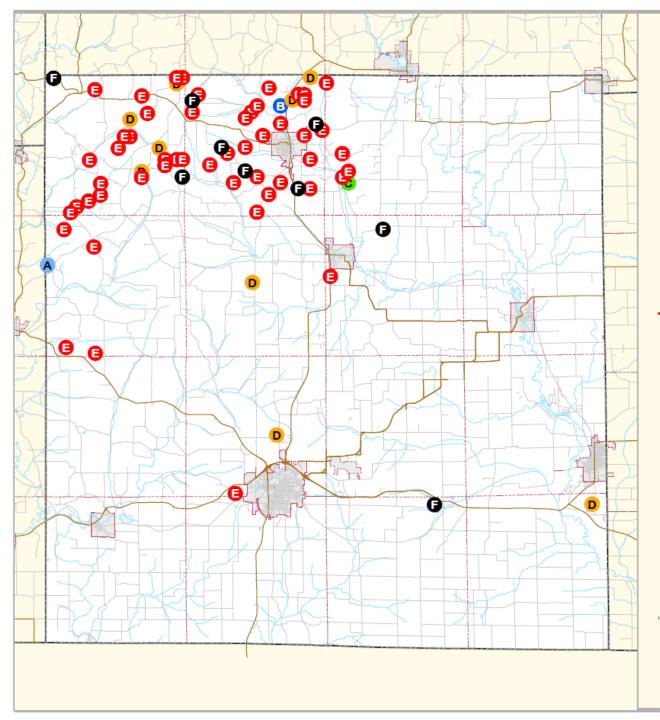
Tests for Aesthetic Problems

Hardness

- Natural (rocks and soils)
- Primarily calcium and magnesium

 Problems: scaling, scum, use more detergent, decrease water heater efficiency



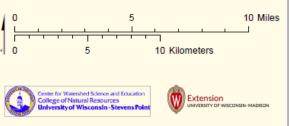


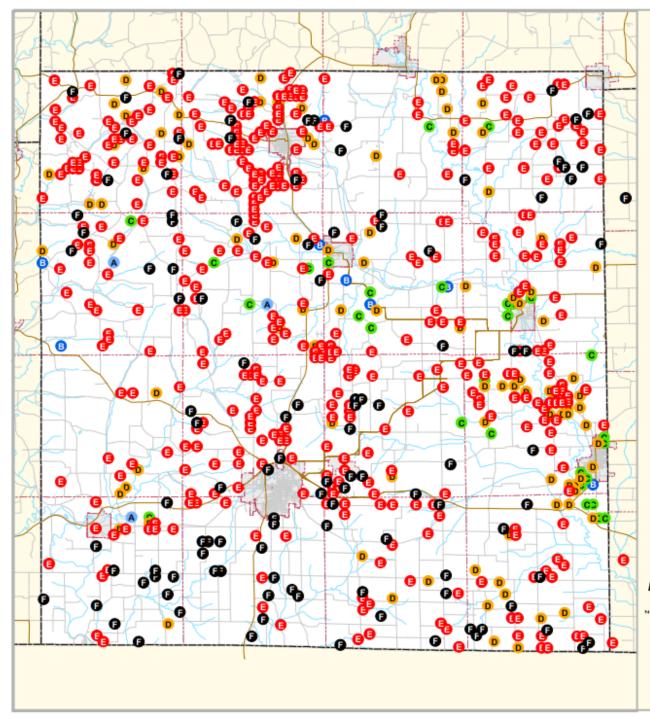


TOTAL HARDNESS (ppm CaCO3)

A 50	9	10%
6 51 - 100	1	1%
C 101 - 200	2	2%
201 - 300	11	12%
(3) 301 - 400	58	63 %
9 401	11	12%

Mapped value is the average for the 1/4 1/4 section Treated samples not mapped





Green County

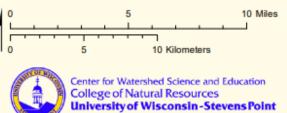
2013 - 2023



TOTAL HARDNESS (ppm CaCO3)

🔺 50	161	13%
🕒 51 - 100	21	2%
C 101 - 200	72	6%
D 201 - 300	173	14%
📵 301 - 400	608	51%
9 401	163	14%

Mapped value is the average for the 1/4 1/4 section Treated samples not mapped

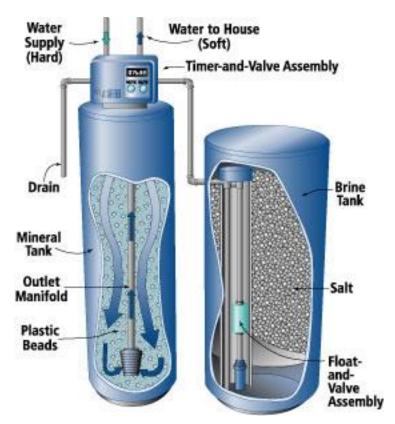




Water Softening

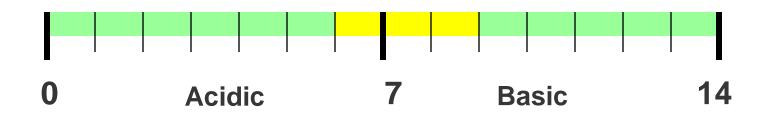
Water softeners remove calcium and magnesium which cause scaling and exchange it for sodium (or potassium).

- Negative: Increases sodium content of water.
- Suggestions:
 - Bypass your drinking water faucet.
 - Do not soften water for outdoor faucets.
 - If you are concerned about sodium levels – use potassium chloride softener salt.

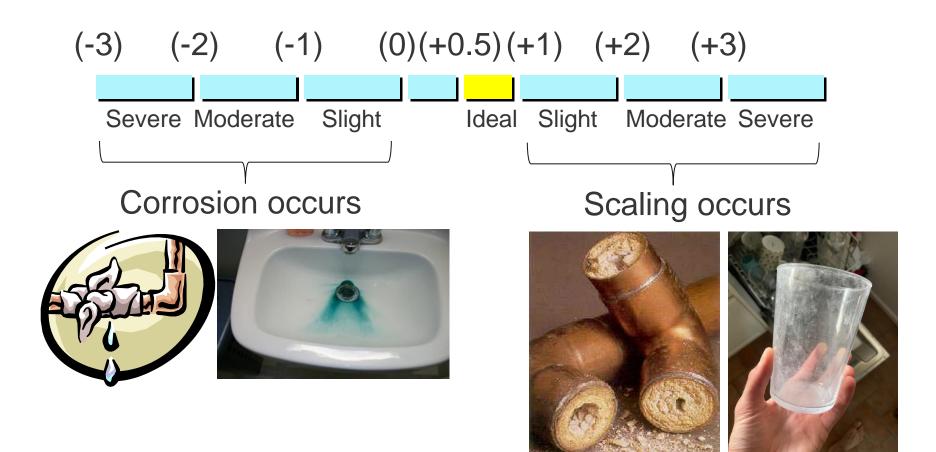


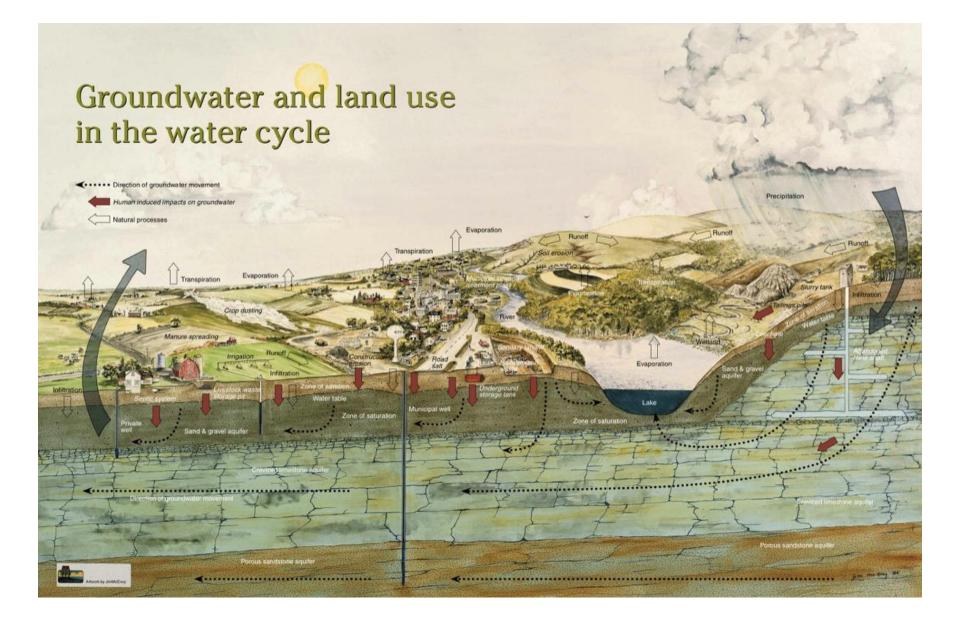
Tests for Overall Water Quality

- Alkalinity ability to neutralize acid
- Conductivity
 - · Measure of total ions
 - can be used to indicate presence of contaminants (~ twice the hardness)
- **pH** Indicates water's acidity and helps determine if water will corrode plumbing



Tests for Overall Water Quality Saturation Index

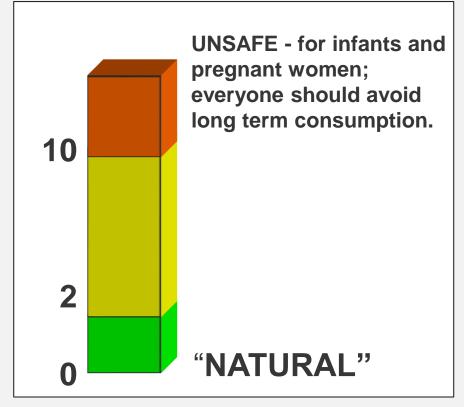




Test Important to Health

Nitrate Nitrogen

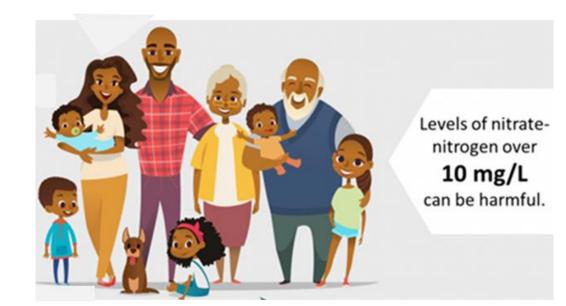
- Greater than 10 mg/L Exceeds State and Federal Limits for Drinking Water
- Between 2 and 10 mg/L Some Human Impact
- Less than 2.0 mg/L "Transitional"
- Less than 0.2 mg/L "Natural"



Nitrate-Nitrogen

Health Effects:

- Infants Less than 6 months:
 - Methemoglobinemia (blue baby disease)
- Women who are or may become pregnant:
 - Possible links to birth defects and miscarriages (humans and livestock)
- Everyone:
 - · Thyroid disease
 - Increase risk of certain types of cancers



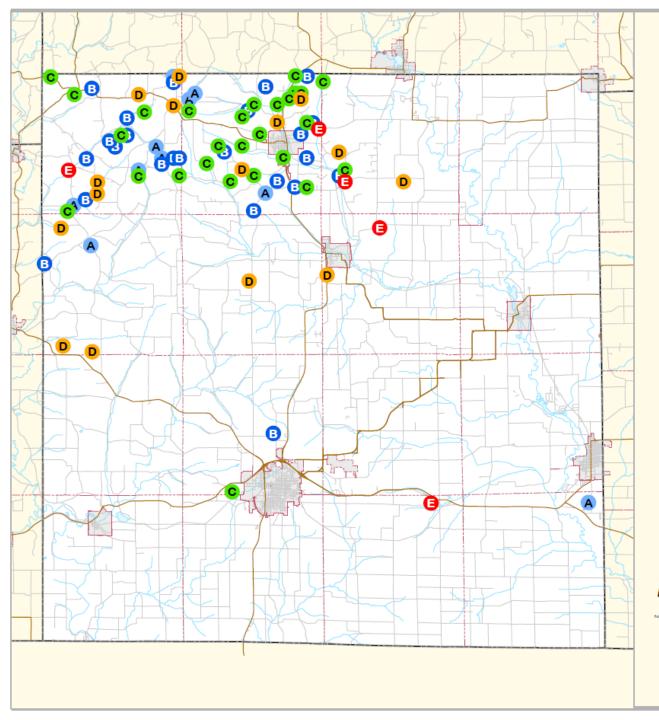
Sources:

Agricultural fertilizer / Animal Waste or other bio-solids / Septic Systems / Lawn fertilizer







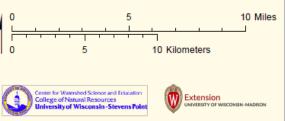


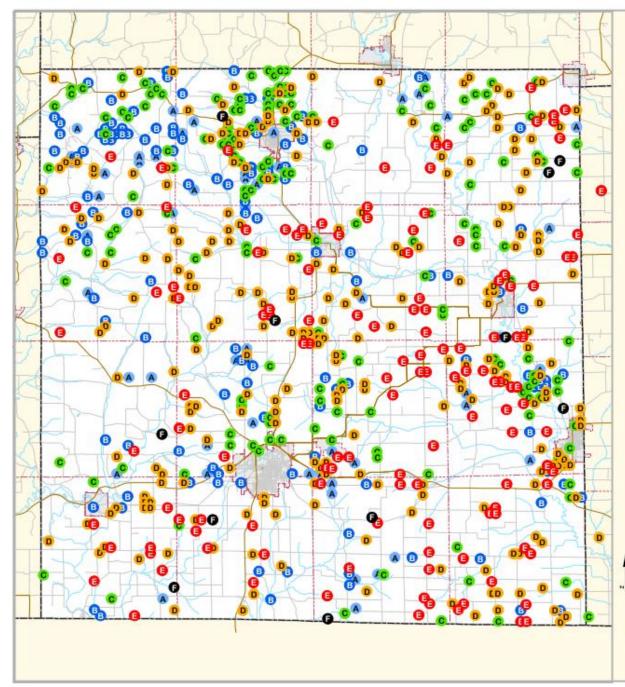


NITRATE-NITRITE (ppm N)

A None Detected	13	14%
B 2.0	28	30 %
<mark>©</mark> 2.1 - 5.0	31	34 %
D 5.1 - 10.0	14	15%
🕒 10.1 - 20.0	6	7%
G 20.1	0	0 %

Mapped value is the average for the 1/4 1/4 section Treated samples not mapped





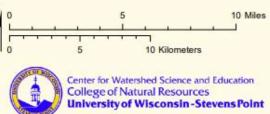
Green County 2013 - 2023



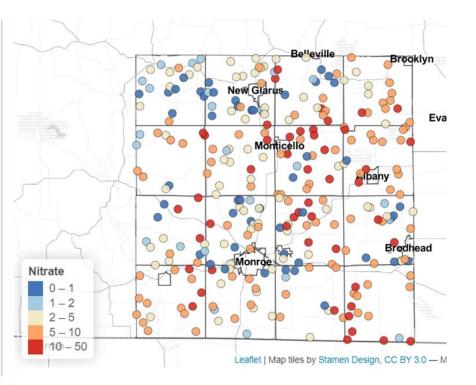
NITRATE-NITRITE (ppm N)

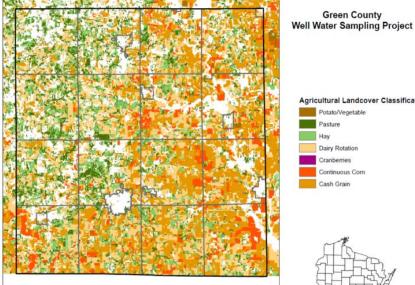
A	None Detected	124	10 %
0	2.0	211	17 %
C	2.1 - 5.0	289	23%
D	5.1 - 10.0	386	31 %
Ø	10.1 - 20.0	212	17%
Ø	20.1	15	1%

Mapped value is the average for the 1/4 1/4 section Treated samples not mapped



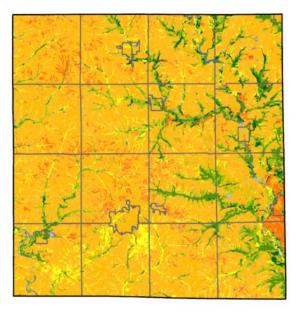
Modeling of Nitrate Risk





Source: Wiscland 2.0

Created: Elizabeth Belmont. February 28, 2022





Green County

Green County Well Water Sampling Project

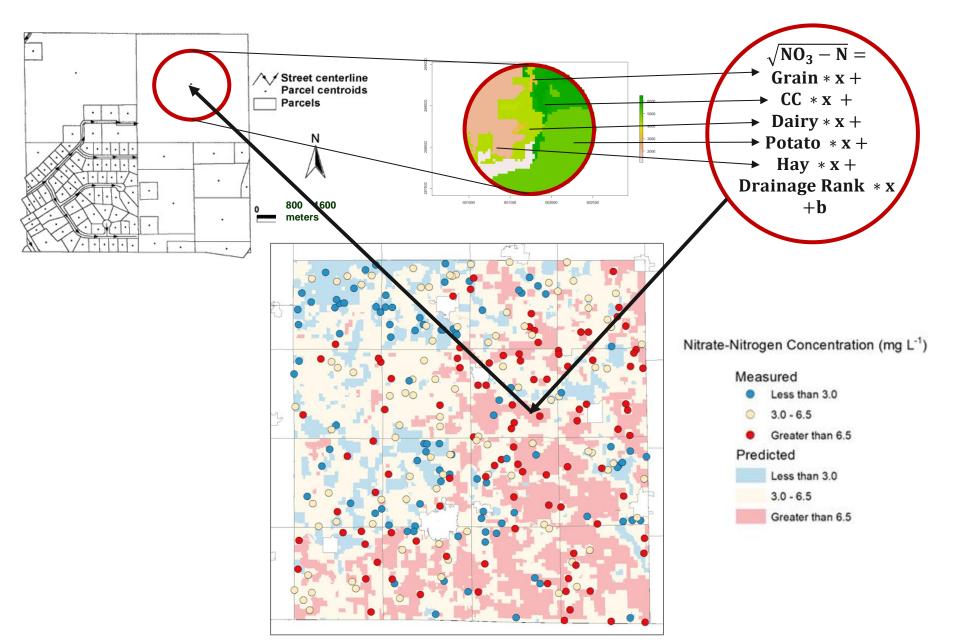




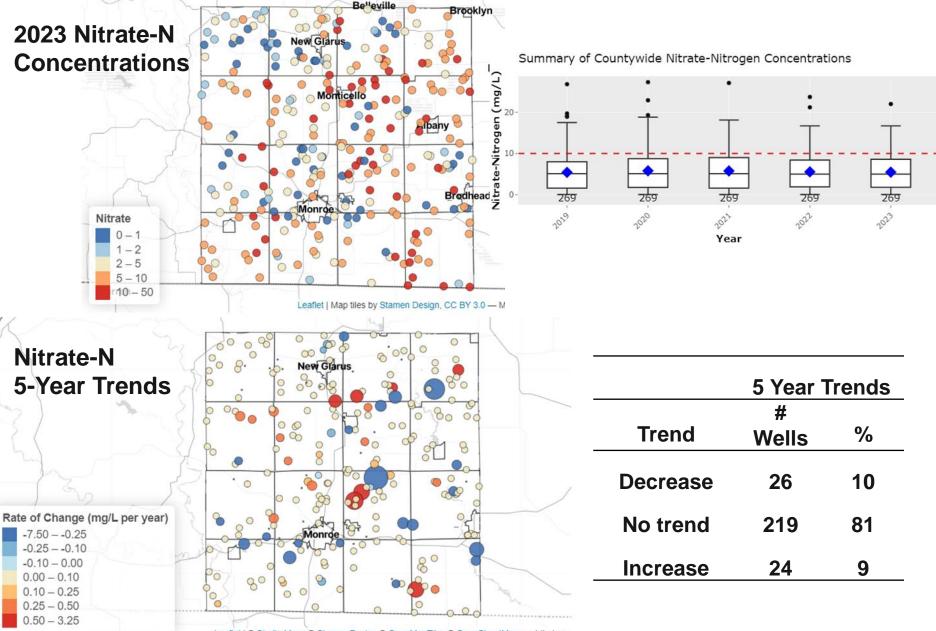
Source: Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Soil Survey Geographic (SSURGO) Database

Created: Elizabeth Belmont. February 28, 2022

Applying that model to Green County

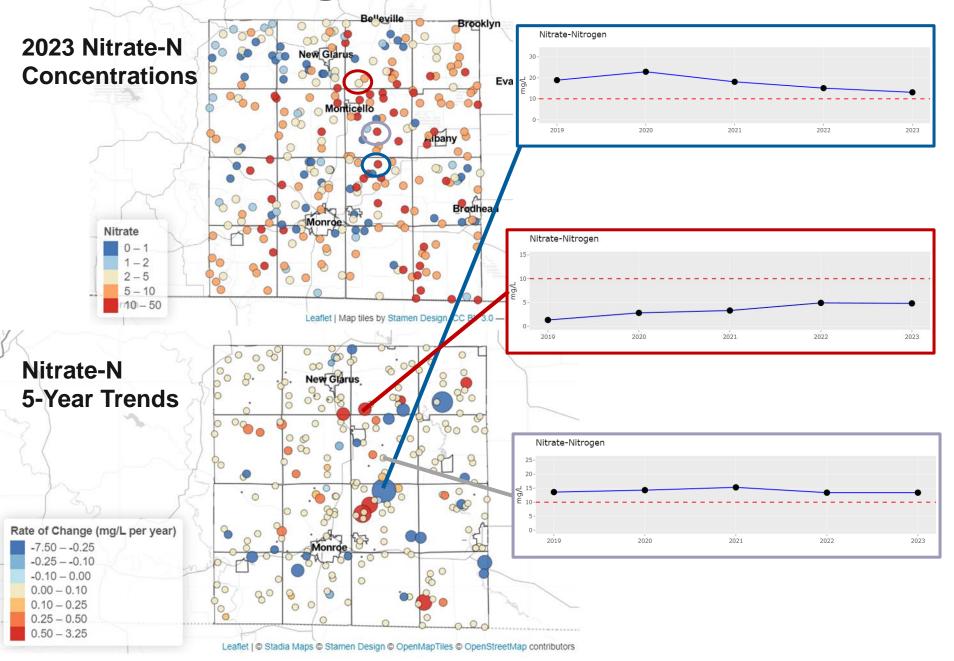


Green County Trend Monitoring Results



Leaflet | © Stadia Maps © Stamen Design © OpenMapTiles © OpenStreetMap contributors

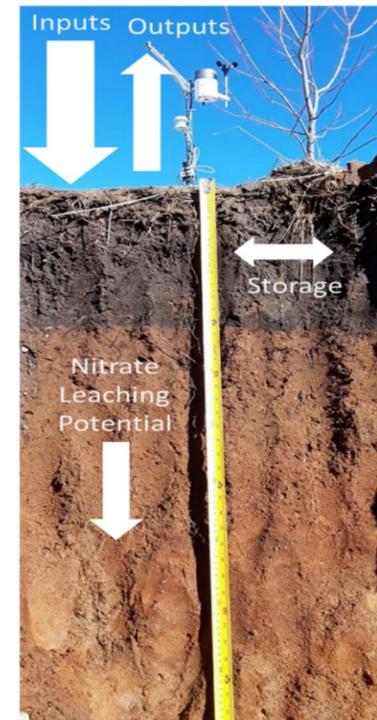
Nitrate-Nitrogen Results



Strategies to reduce nitrate in groundwater

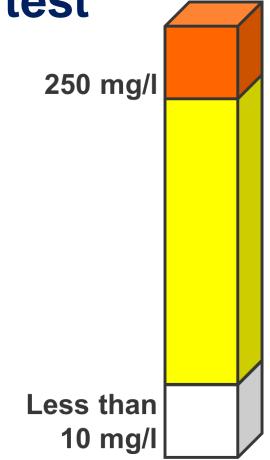
• Applying fertilizer at the right rate, time, source, place will maximize profitability and minimize excessive losses of nitrogen to groundwater; additional practices may be needed to improve water quality in areas with susceptible soils and geology

- You may not need as much nitrogen fertilizer as you think, **conduct your own on-farm rate trials to develop customized fertilizer response curves for your farm**
- Utilize conservation incentive programs to take marginal land or underperforming parts of fields out of production
- **Diversify cropping systems** to include less nitrogen intensive crops in the rotation
- Explore and experiment with the use of cover crops, perennial cropping systems, or managed grazing to reduce nitrate losses to groundwater



Interpreting your chloride test

- Greater than 250 mg/l
 - No direct effects on health
 - Salty taste
 - Exceeds recommended level
- Greater than 10 mg/l may indicate human impact
- Less than 10 mg/l considered "natural" in much of WI



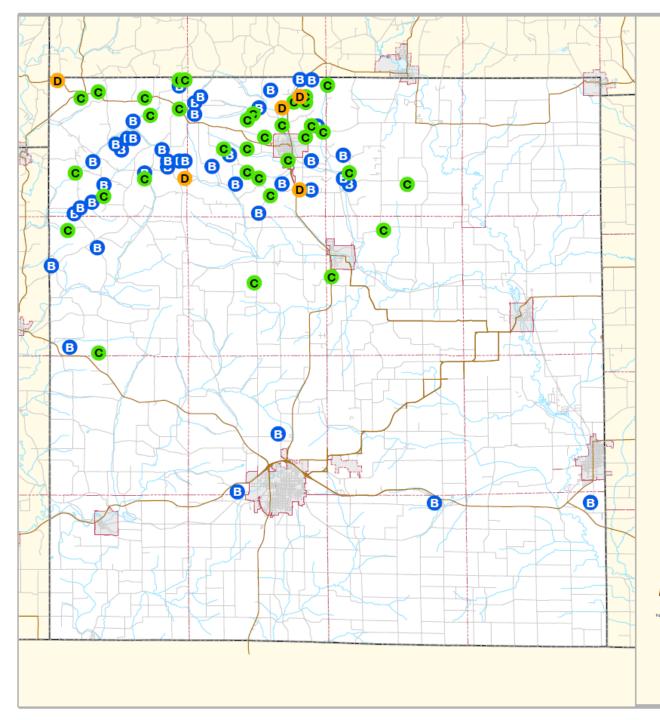
Sources:

Fertilizers / Septic Systems / Road Salt







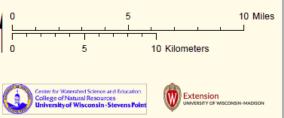


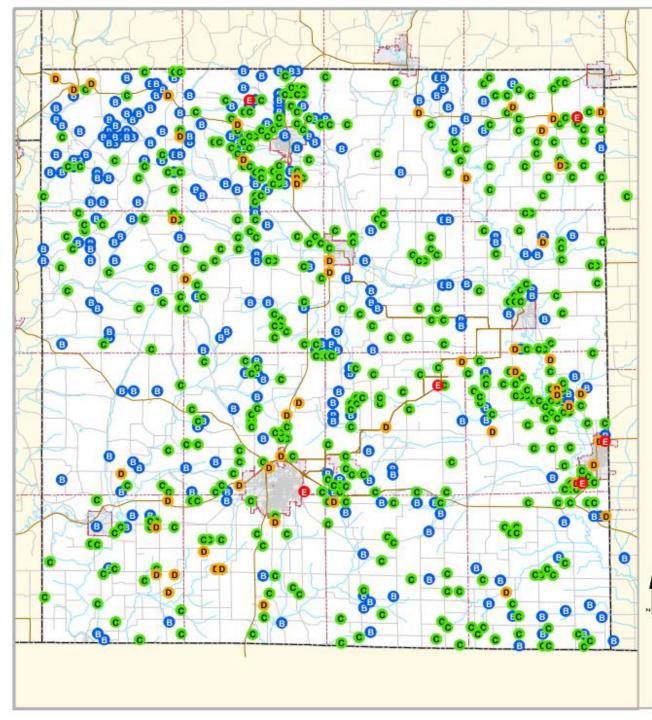


CHLORIDE (ppm)

A None Detected	0	0 %
B 10	49	53 %
C 11 - 50	37	40 %
D 51 - 100	6	7 %
🕒 101 - 200	0	0 %
G 201	0	0 %

Mapped value is the average for the 1/4 1/4 section Treated samples not mapped





Green County

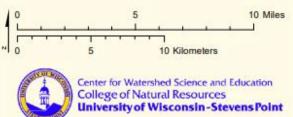
2013 - 2023



CHLORIDE (ppm)

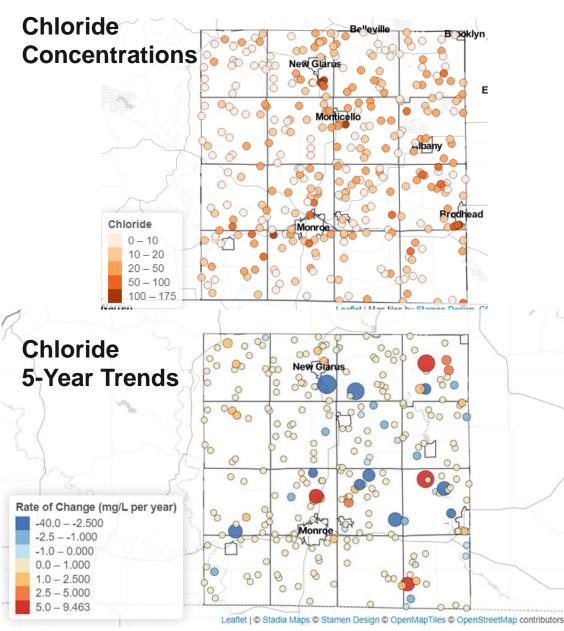
A None Detected	2	<1 %
B 10	437	36 %
C 11 - 50	644	54 %
D 51 - 100	101	8%
() 101 - 200	17	1%
3 201	0	0%

Mapped value is the average for the 1/4 1/4 section Treated samples not mapped





Green County Chloride Results

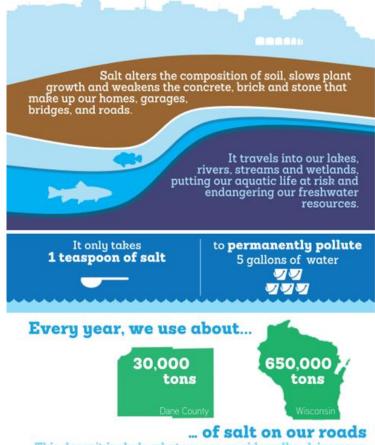


Chloride Summary

- <1% of wells tested greater than 100 mg/L
- 35% of wells tested less than 10 mg/L
- Average: 19.1 mg/L
- Median: 14.6 mg/L
- Maximum: 125 mg/L
- Minimum: 0.9 mg/L

WI Salt Wise Recommendations

Once you put salt down, it doesn't go away



This doesn't include what we use on sidewalks, driveways, and parking lots.

Reduce your salt use to help protect our lakes, streams, and drinking water.

1. Shovel



Clear walkways and other areas before the snow turns to ice. The more snow you remove manually, the less salt you will have to use and the more effective it will be.

2. Scatter



If you use salt, scatter it so that there is space between the grains. Believe it or not, a coffee mug of salt is enough to treat an entire 20-foot driveway or 10 sidewalk squares.

3. Switch



When pavement temperatures drop below 15 degrees, salt won't work. Switch to sand for traction or a different ice melter that works at lower temperatures.

4. Select a Certified Applicator



Encourage your maintenance professional to get certified through the City of Madison's Winter Salt Certification Program and ask businesses in your community to do the same.

5. Love the Lines



Stripes on roads before a storm are anti-icing. They show that your professional maintenance crew is concerned about safety and is saving money, time and protecting our environment!

6. Be Salt Wise All Year



Water softener salt ends up in local freshwater bodies. If your household softener uses more than 1 bag of salt per month, have a professional tune it up or replace it with a high-efficiency model.

Test Important to Health

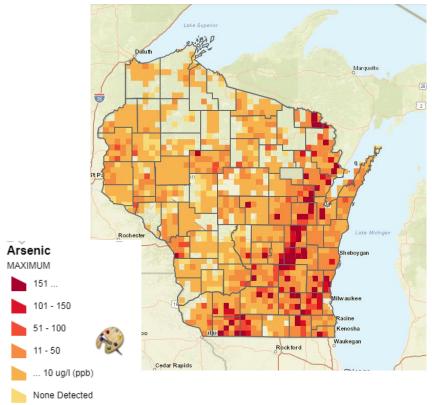
Arsenic

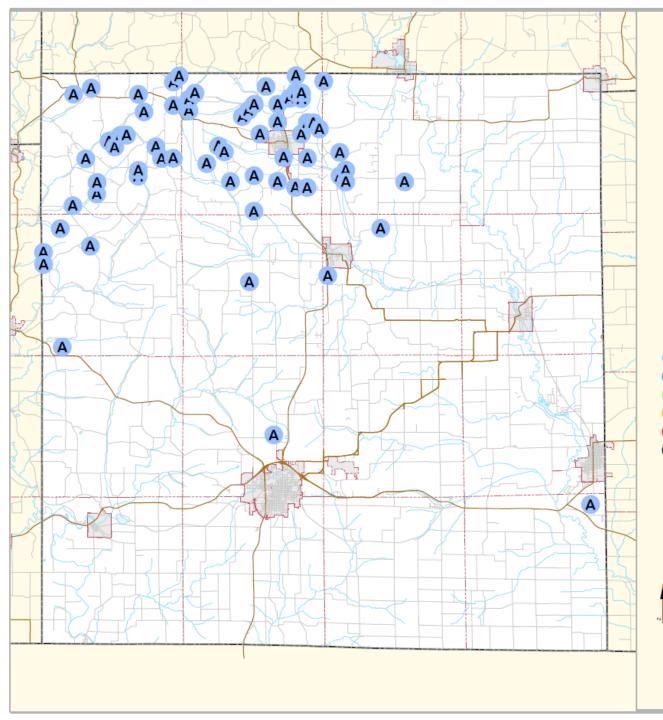
Sources: Naturally occurring in mineral deposits

Standard: 0.010 mg/L (10 ppb)

Health Effects:

- Increased risk of skin cancers as well as lung, liver, bladder, kidney, and colon cancers.
- Circulatory disorders
- Stomach pain, nausea, diarrhea
- Unusual skin pigmentation



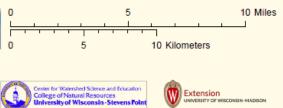


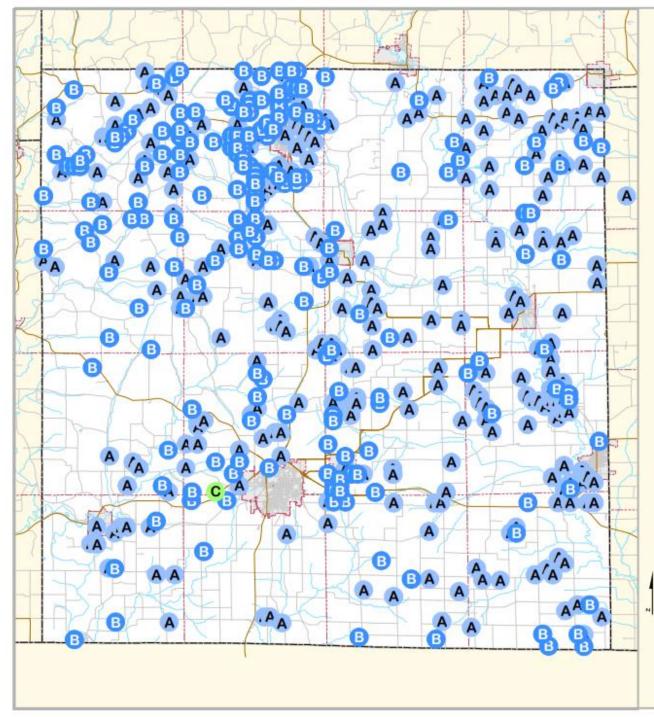


ARSENIC (mg/l)

A None Detected	75	100 %
B 0.010	0	0 %
c 0.011 - 0.050	0	0 %
D 0.051 - 0.100	0	0 %
🧿 0.101 - 0.150	0	0 %
〕 0.151	0	0 %

Mapped value is the maximum for the 1/4 1/4 section Treated samples not mapped





Green County

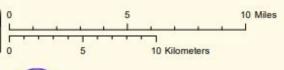
2013 - 2023



ARSENIC (mg/l)

A	None Detected	390	61 %
8	0.010	243	38 %
C	0.011 - 0.050	6	<1%
D	0.051 - 0.100	0	0%
0	0.101 - 0.150	0	0%
Ø	0.151	0	0%

Mapped value is the average for the 1/4 1/4 section Treated samples not mapped





Center for Watershed Science and Education College of Natural Resources University of Wisconsin-Stevens Point

Tests for Aesthetic Problems

Iron

- Natural (rocks and soils)
- May benefit health
- Red and yellow stains on clothing, fixtures
- If iron present, increases
 potential for iron bacteria
 - · Slime, odor, oily film



Greater than 0.3 mg/L

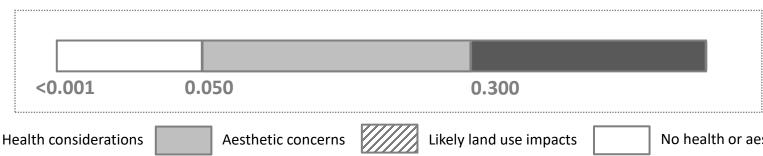
Aesthetic problems likely

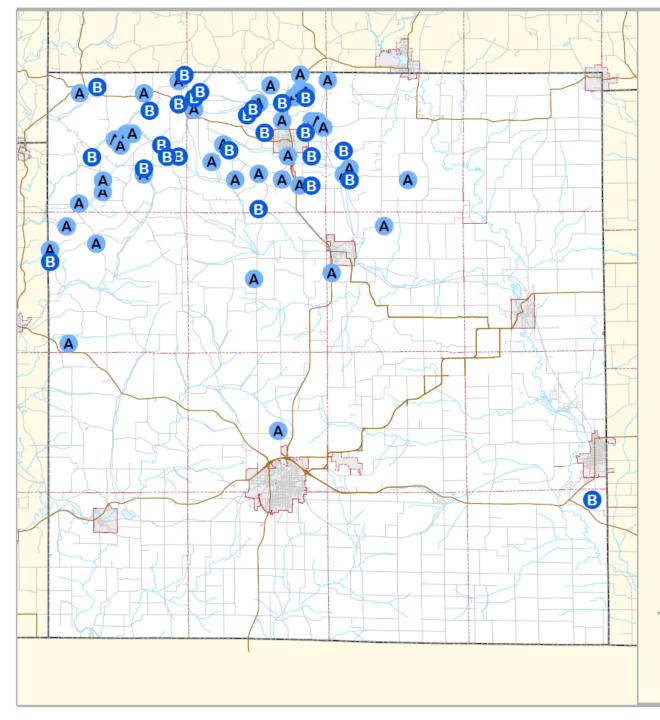
Less than 0.3 mg/L

Manganese

- Naturally occurring
- Aesthetic Level: 0.050 mg/L
 - Causes black/brown precipitate and possible staining on fixtures
- Health Advisory Level: 0.300 mg/L
 - Long-term exposure may harm the nervous system





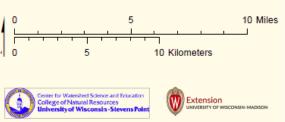


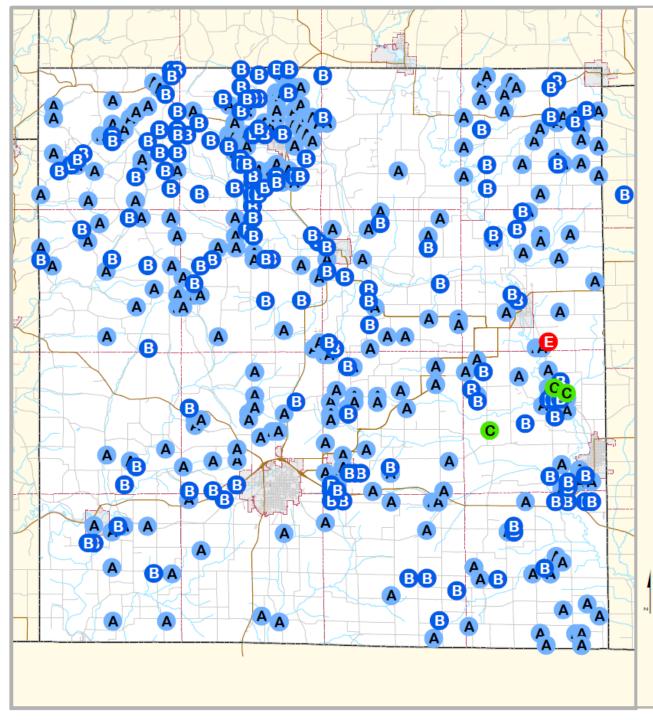


MANGANESE (mg/l)

A None Detected	48	64 %
B 0.050	27	36 %
C 0.051 - 0.300	0	0 %
D 0.301 - 0.500	0	0 %
🕒 0.501 - 1.000	0	0 %
G 1.001	0	0 %

Mapped value is the average for the 1/4 1/4 section Treated samples not mapped





Green County

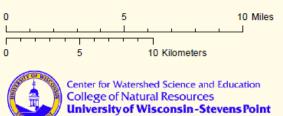
2014 - 2023



MANGANESE (mg/l)

A	None Detected	350	68 %
B	0.050	163	31 %
С	0.051 - 0.300	4	<1 %
D	0.301 - 0.500	0	0 %
0	0.501 - 1.000	1	<1 %
G	1.001	0	0 %

Mapped value is the average for the 1/4 1/4 section Treated samples not mapped



Test Important to Health

Copper

- Sources: Copper water pipes
- Standard: Less than 1.3 mg/L is suitable for drinking



Health Effects:

- Some copper is needed for good health
- Too much may cause problems:
 - · Stomach cramps, diarrhea,
 - · vomiting, nausea
 - Formula intolerance in infants

Test Important to Health

Lead

Sources: Lead solder joining copper pipes (pre-1985) or brass fixtures

Standard: 0.015 mg/L (15 ppb)

Health Effects:

- Young children, infants and unborn children are particularly vulnerable.
- Lead may damage the brain, kidneys, nervous system, red blood cells, reproductive system.







Lead and Copper

Solutions:

- Allow water to run for a minute or two before using for drinking or cooking
- Clean out faucet
 screen or aerator occ
- Use a treatment device, but generally not necessary



Pesticides in Drinking Water

- Pesticides include: insecticides, herbicides, fungicides and other substances used to control pests.
- Health standards usually only account for parent compound.
- Parent compounds breakdown over time.
- Little research into health effects from the combination of chemicals..



Most frequently detected pesticides in Wisconsin:

- Alachlor* and its chemical breakdown products
- · Metolachlor and its chemical breakdown products
- Atrazine** and its chemical breakdown products
- Metribuzin
- Cyanazine and its chemical breakdown products.

Tests Important to Health

DACT Screen

Sources: Triazine pesticides (mainly atrazine used on corn crops)

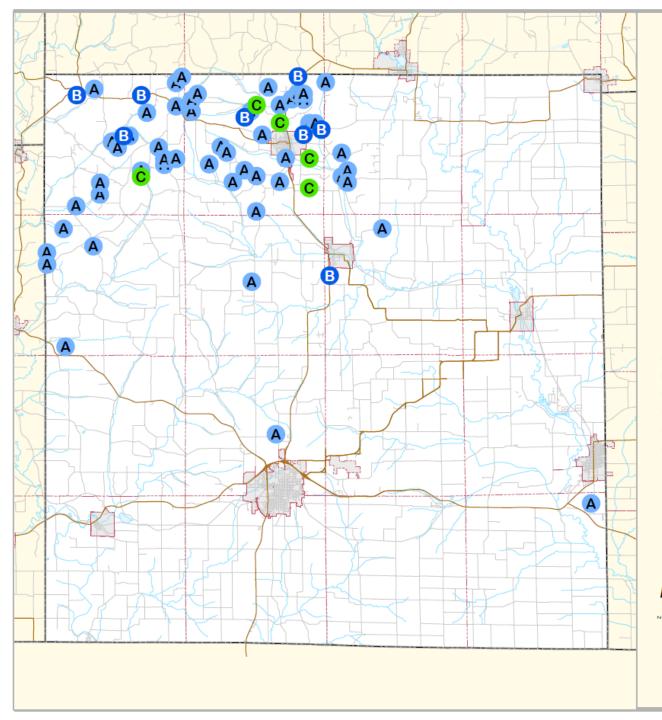
DACT Screen: Only measures the diaminochlorotriazine (DACT) residue levels of triazine type pesticides (atrazine, simazine, propazine, cyanazine, etc)

Specific to diaminochlorotriazine (DACT), does not account for parent compound or other breakdown components

Drinking water limit:

• **3 ppb of total atrazine** (atrazine + the 3 breakdown components)



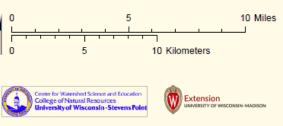


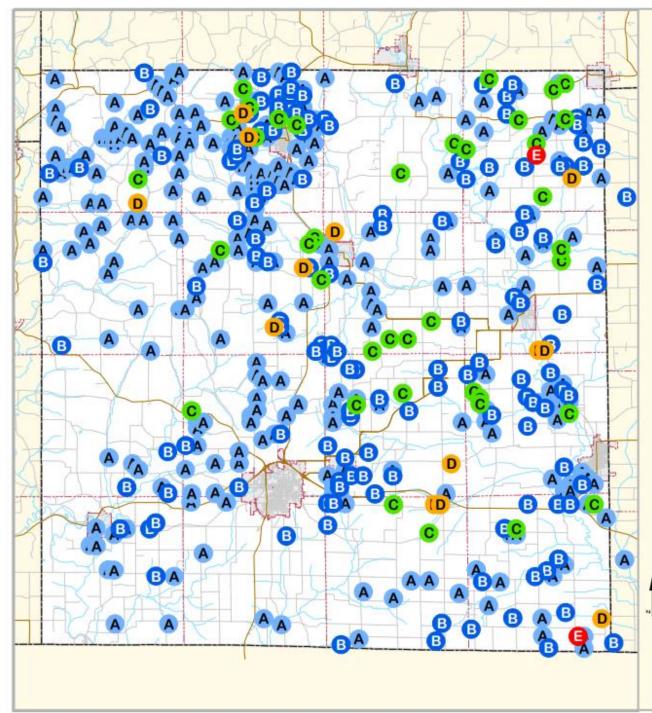


DACT (ug/l)

A None Detected	60	82%
B 0.3	8	11 %
o.4 - 1.0	5	7%
D 1.1 - 2.0	0	0 %
🕒 2.1 - 3.0	0	0 %
3 .1	0	0 %

Mapped value is the maximum for the 1/4 1/4 section Treated samples not mapped





Green County

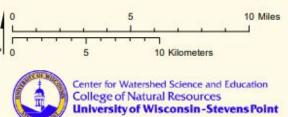
2013 - 2023



DACT (ug/l)

A None Detected	368	62 %
B 0.3	165	28%
C 0.4 - 1.0	48	8%
D 1.1 - 2.0	13	2%
() 2.1 - 3.0	2	<1 %
3 .1	0	0%

Mapped value is the maximum for the 1/4 1/4 section Treated samples not mapped





Improving water quality

Long-term improvements

 Eliminate sources of contamination

Short-term improvements

- Repair or replace existing well
- Connect to public water supply or develop community water system
- Purchase bottled water for drinking and cooking
- Install a water treatment device
 - Often the most convenient and cost effective solution

 \sum This table lists the devices certified to remove the contaminants \bigcup commonly found in Wisconsin private wells.

	Carbon filtration	Reverse osmosis	Water softener
Arsenic		✓	
Atrazine	✓		
Copper		✓	
Fluoride		✓	
Lead	1	✓	
Manganese			1
Nitrate		✓	
Per- and polyfluoroalkyl substances (PFAS)	✓	1	
Trichloroethylene (TCE)	✓		
To reduce levels, look for products with:	NSF/ANSI 53 certification	NSF/ANSI 58 certification	NSF/ANSI 44 certification

X All treatment devices require regular maintenance.

For devices that are connected to your home's plumbing, test the treated water after it is installed to make sure the device is working to remove the contaminants.

For all devices, follow the instructions for proper cleaning and maintenance – this may be replacing filters or membranes or adding softener salt. Devices that are not properly maintained lose their effectiveness over time and can even make water quality worse.

Where do you go from here: Recommended next steps

- Test well annually for bacteria, or if water changes color or clarity.
- Consider testing annually for nitrate, particularly if your levels are approaching 10 mg/L.
- If your nitrate level was greater than 5 mg/L consider testing for pesticides
- If you haven't checked for arsenic or manganese consider testing at least once

Why Should I Join?

- Understand your well water trends or changes over time.
- Access trainings, e-newsletters, technical assistance, and other resources to help manage your private well.
- Contribute to the baseline knowledge of water quality in Green County



How Does It Work?

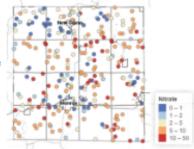
- Private well owners interested in participating will subscribe and receive an email confirming continued participation every August.
- The baseline kit will be \$70 and will include nitrate-nitrogen, chloride, alkalinity, total hardness, pH, and conductivity. Participants will easily pay online.
- A water test kit and pre-paid mailer will be sent to you during the months of September - October. Collect the sample and mail back at your earliest convenience.
- Individual well data is confidential! Only the well owner and the lab will have access to that well's specific data.
- · Visit this link to view the results maps of previous years: https://tinyurl.com/8xar5sbw

Sign Up Now!

- · Participation is completely up to you.
- To enroll, please visit: <u>https://go.wisc.edu/5tvxqi</u> or use the QR code above to access the participation form.

Questions?

 Contact Olivia Roth, Extension Office Specialist at olivia.roth@wisc.edu or (608) 328-9440.



Above: Nitrate-nitrogen map results from 2023

Join now!



Better Understand Your Well Water Join the Green County Groundwater Quality



https://go.wisc.edu/5tvxqi

Program!

Operating your private water utility:

- Periodically inspect and maintain the area around your well
- Test your water regularly to evaluate common water quality concerns
- If necessary, take corrective actions*

*Know when to call a licensed well driller or pump installer



Contact Info:

Kevin Masarik 800 Reserve St. Stevens Point, WI 54481 715-346-4276 kmasarik@uwsp.edu

www.uwsp.edu/cnr/watersheds

Thanks to you and the following for helping promote and sponsor this program:

- Green County Extension
- Green County Land and Water Conservation Department
- •Towns of Adams, New Glarus, Washington and York



Center for Watershed Science and Education College of Natural Resources **University of Wisconsin - Stevens Point**

