



## *Izaak Walton League Chapter Toolkit*



***Monitoring***

***Outreach***

***Advocacy***

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# INTRODUCTION

The goal of this Toolkit is to provide Izaak Walton League members with the information and resources necessary to help engage their chapters and their communities in Nitrate Watch.

Additional information about Nitrate Watch can be found on our website, [www.nitratewatch.org](http://www.nitratewatch.org).

If you have questions, please reach out to [nitratewatch@iwl.org](mailto:nitratewatch@iwl.org).



This toolkit contains clickable links to websites and downloadable resources. For this reason, **it is best viewed on a computer** or other internet-connected device.



# NITRATE WATCH®

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# BACKGROUND

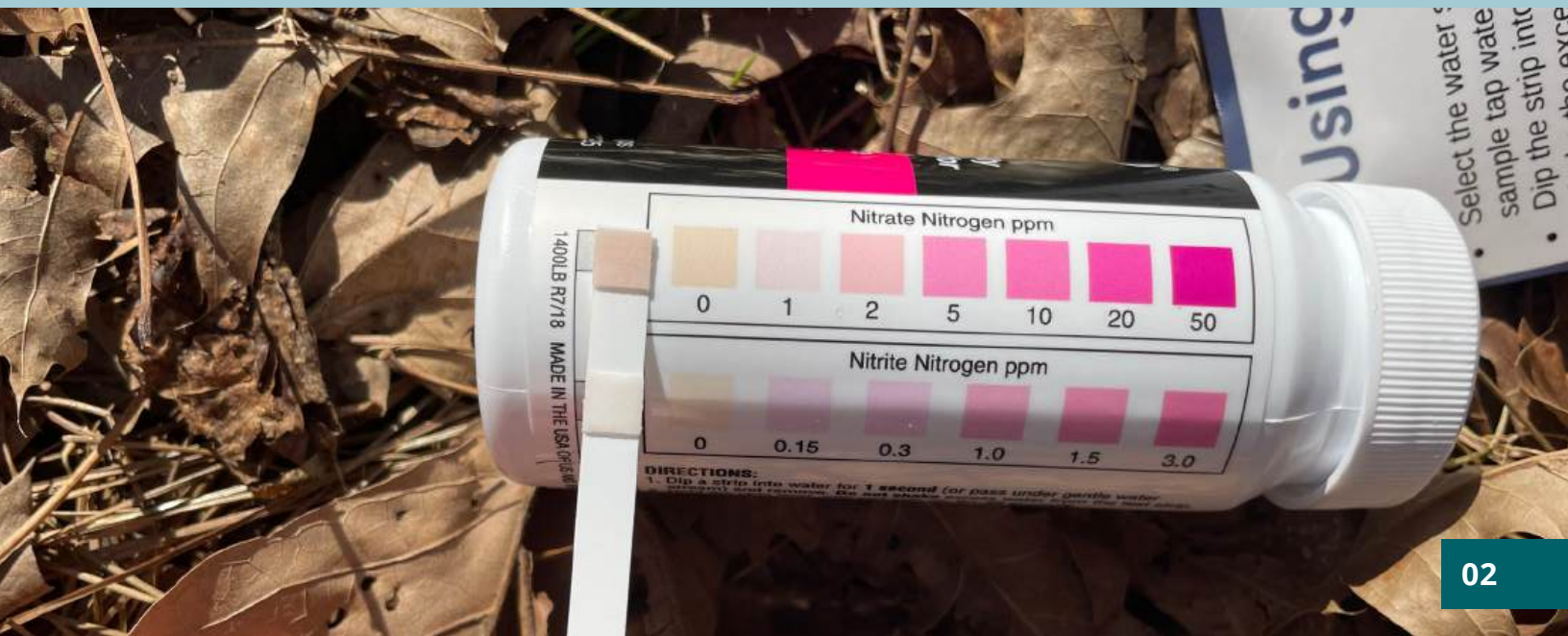
## WHAT IS NITRATE WATCH?

Nitrate Watch is a crowd-sourced community science project of the Izaak Walton League of America. This program mobilizes volunteers across the country to monitor nitrate levels in the waterways they care about.

The goals of Nitrate Watch are:

- **Raise awareness** about the impacts of nitrate on the environment and human health.
- **Identify hotspots** of nitrate pollution.
- **Advocate for solutions** that reduce nutrient pollution.

[www.NitrateWatch.org](http://www.NitrateWatch.org)



# BACKGROUND

## WHAT IS NITRATE POLLUTION?

Nitrate ( $\text{NO}_3^-$ ) is a naturally occurring compound made up of nitrogen and oxygen. Nitrogen is an essential nutrient for plant growth, but human activities produce more nitrogen than natural systems can use.

Fertilizers, manure, and sewage all add extra nitrogen to the landscape. As this nitrogen moves through the environment, it becomes nitrate. The nitrate can then make its way to streams and sources of drinking water via surface runoff or groundwater saturation. Excess nitrate in water can pose serious problems for the health of humans and the environment.

## ENVIRONMENTAL IMPACT

When excess nitrate is present in waterways, it may overstimulate the growth of algae, creating what is known as an algal bloom. This not only encourages the formation of unsightly "scum" on the water, but can also have a myriad of negative effects on the environment. When the algae die and decompose in the water, the decomposition process consumes oxygen. This depletion of dissolved oxygen makes it harder for animals to survive in the water. The result is a dead zone, which in turn leads to fish kills and overall decreased plant and animal diversity.

Algae blooms may also harbor toxic cyanobacteria, also called "blue-green algae." These cyanobacteria create compounds called "cyanotoxins" which can be dangerous and even deadly to humans or animals that come into contact with them. When beaches and waterways are closed to swimming in the summer, cyanotoxins from harmful algae blooms are often to blame.

## HUMAN HEALTH IMPACT

When we consume too much nitrate, it can make it harder for our blood to transport oxygen. In infants younger than six months, that can lead to a condition called methemoglobinemia (or "blue baby syndrome"), which can cause the skin to turn blueish-gray and may lead to serious illness or death.

Research has shown that other health conditions are also linked to consuming high levels of nitrate. Peer-reviewed studies document increased risk of cancers, thyroid disease, and neural tube birth defects in populations with prolonged exposure to drinking water contaminated with nitrate. Even more concerning - these health effects have been observed when the nitrate levels in drinking water are lower than the current federal drinking water standards allow<sup>1</sup>.

If you get your water from a well, like an estimated 43 million other Americans, you could be at risk. The EPA does not regulate private wells, nor does it provide recommended criteria or standards for individual wells. Moreover, states do not regulate well water for contaminants like nitrate. Nitrate is impossible to detect by sight, smell, or taste. The only way to know if your well water has elevated levels of nitrate is to test it.



1. Ward, M., Jones, R., Brender, J., de Kok, T., Weyer, P., Nolan, B., Villanueva, C., & van Breda, S. (2018). **Drinking water nitrate and human health: An updated review.** *International Journal of Environmental Research and Public Health*, 15(7). <https://doi.org/10.3390/ijerph15071557>



## ECONOMIC IMPACT

Beyond the obvious value of human health and environmental quality, nitrate pollution is very costly. Nitrate pollution has far-reaching effects on the economy, impacting a wide range of industries. From the cost of nitrate removal infrastructure to keep drinking water safe, to the costs associated with treating nitrate-related health issues, to lost revenue in the recreation and commercial fishing industries, to declining value of waterfront property, the cost of nitrate pollution adds up.

Altogether, the estimated impact of nitrate pollution on the US economy is approximately 210 billion dollars a year<sup>2</sup>.

## HAVE MORE QUESTIONS ABOUT NITRATE POLLUTION?

Find more answers using the following Izaak Walton League resources:

- [Nitrate Watch FAQs](#)
- [A Growing Problem: Nitrate in Our Water \(Outdoor America 2023 Issue 1\)](#)
- [Webinar: Nitrate Watch and Public Health](#)
- [Webinar: Nitrate in Drinking Water - Public & Private](#)

Still have questions? Send us an email - [nitratewatch@iwla.org](mailto:nitratewatch@iwla.org)



2. Sobota, D. J., Compton, J. E., McCrackin, M. L., & Singh, S. (2015). **Cost of reactive nitrogen release from human activities to the environment in the United States.** *Environmental Research Letters*, 10(2). <https://doi.org/10.1088/1748-9326/10/2/025006>

# MONITORING

## REQUESTING YOUR KIT

To participate in Nitrate Watch, you'll first need to request a kit. Nitrate Watch kits are free as supplies allow.

Head to [www.nitratewatch.org](http://www.nitratewatch.org) and complete the kit request form.

Kits are sent via USPS and should arrive within approximately 1-2 weeks of receiving your request.

### KIT CONTENTS:

- a bottle of 25 nitrate-nitrite test strips
- postcards explaining how to use your test strips and how to report your results
- a Nitrate Watch sticker





# MONITORING

## MAKING A PLAN

If you want to make the most of your Nitrate Watch kit, it helps to make a plan. Each Nitrate Watch kit includes 25 test strips - Your goal is to use each and every test strip and report your data on the Clean Water Hub.

The '**Make a Plan to Monitor**' worksheet is a resource that can help you plan out when and how you will use your nitrate test strips.

Click to access the  
'Make a Plan to  
Monitor' worksheet.



### Make a Plan to Monitor

Each free Nitrate Watch test kit comes with 25 nitrate test strips. Use this worksheet to make a plan and get the most out of your test kit!

1

#### CREATE AN ACCOUNT ON THE CLEAN WATER HUB

The Clean Water Hub is the database where all Nitrate Watch readings are reported. Visit [www.cleanwaterhub.org/nitratewatch](http://www.cleanwaterhub.org/nitratewatch) and follow the prompts to create an account!

Already have a Clean Water Hub account? You're all set!

2

#### PLAN OUT WHERE YOU WILL MONITOR

You can use your test strips to monitor:

- **Surface water** (rivers, lakes, streams) or
- **Drinking water** (from a public drinking water system or private groundwater well)


Choose waterways that are important to you!

Places I plan to monitor:

Location	Type of Sample Source

**Concerned about a potential polluter?**

Monitor upstream and downstream of it and compare your results.

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# MONITORING

The postcards in each Nitrate Watch kit include the following instructions:

## USING YOUR NITRATE TEST STRIPS

- Select the water source(s) you'd like to sample. You can sample tap water, streams, lakes, and more!
- Dip the strip into your water for 1 second and remove. Do not shake the excess water off.
- Hold the strip level, pad side up, for **30 seconds**.
- At **exactly 30 seconds**, compare the color of the top pad to the color chart on your bottle labeled "Nitrate Nitrogen ppm."
  - Remove sunglasses before taking your reading.
  - The color will continue to change after 30 seconds, so record your value as close to 30 seconds as possible.
  - If your strip's color falls between two values, **estimate an intermediate value**.



## SUBMITTING YOUR RESULTS

- Navigate to [www.cleanwaterhub.org/nitratewatch](http://www.cleanwaterhub.org/nitratewatch). Log in to the Clean Water Hub or create a new account.
- Click on **CREATE NITRATE WATCH READING**
- Select a site from the dropdown menu or click "Create a New Site"
- Fill out the form for your site.
- Double-check all fields and click **SAVE CHANGES** when finished.

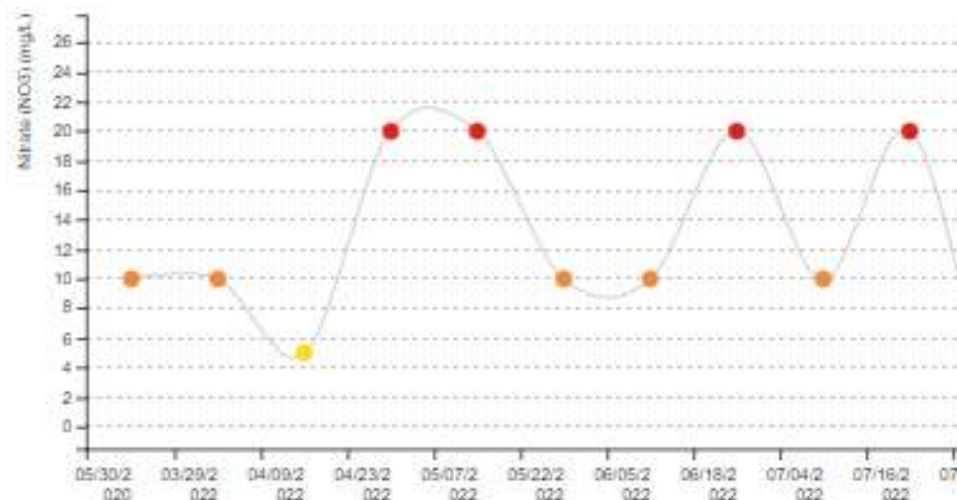
# MONITORING

## THE CLEAN WATER HUB

[www.cleanwaterhub.org](http://www.cleanwaterhub.org)

The Clean Water Hub is a water quality database used by the Izaak Walton League and over 200 organization across the country. It houses volunteer-reported data for projects including Save Our Streams, Salt Watch, and Nitrate Watch.

The Clean Water Hub was created to be a place where organizations and individuals can easily share their data, track changes in water quality, and display their results in meaningful ways.



Data is summarized in color-coded graphs and interactive maps. In most cases, data can be easily viewed and downloaded, even without needing to create an account on the Hub.

Want a place where all the data reported by your chapter can be viewed and downloaded? **Fill out this form** and we will create an organization for your chapter the Clean Water Hub.



# OUTREACH

## SHARING NITRATE WATCH WITH OTHERS

Whether they are hosting an event, inviting people to use their facilities, or simply talking to their neighbor, Izaak Walton League members and chapters are constantly interfacing with their communities. We encourage Iles and their chapters to see these occasions as opportunities to introduce others to the League's clean water programming - like Nitrate Watch!

In this section, you'll find resources to help get the word out about Nitrate Watch programming.



# OUTREACH

## MESSAGING GUIDE

It is important that we are consistent in the ways that we communicate about Nitrate Watch and the issue of nitrate pollution. Please review this messaging guide and incorporate it into your communications surrounding Nitrate Watch.

### Boilerplate:

#### What is Nitrate Watch?

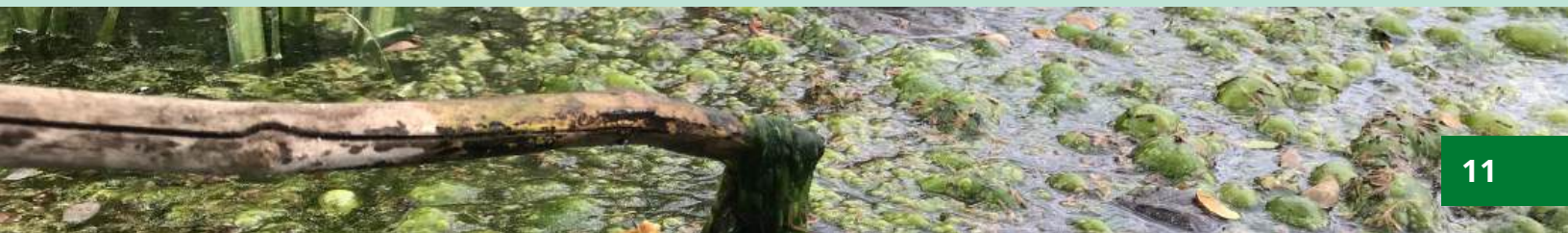
- Nitrate Watch is a crowd-sourced community science project of the Izaak Walton League of America. This program mobilizes volunteers across the country to monitor nitrate levels in the waterways they care about.

#### What are the goals?

- Raise awareness about the impacts of nitrate on the environment and human health
- Identify hotspots of nitrate pollution
- Advocate for solutions that reduce nutrient pollution.

### Reminders:

- Refer to 'nitrate' not 'nitrates'
  - Nitrate (singular) refers to the nitrate ion,  $\text{NO}_3^-$ , which is the form that nitrate takes when it is present in water. Nitrates (plural) typically refers to nitrate-containing compounds, such as the nitrate salts found in foods and fertilizers. When discussing nitrate pollution in water, it makes most sense to use the singular "nitrate."



# OUTREACH

## **Reminders (continued):**

- Farmers are not the enemy
  - While we recognize that agriculture is one of the primary sources of nitrate pollution, we do not accuse individual farmers of creating this reality. The increasing environmental impact of farming practices is the result of an agricultural system that undervalues conservation. Systemic problems require large-scale solutions. The Izaak Walton League has long stood for policy reform that benefits farmers as well as the environment.
- Nitrate pollution is an urban and rural issue
  - Many urban areas are downstream from animal feedlots or sites that utilize synthetic fertilizers, both of which introduce large amounts of excess nitrate into the watershed. Additionally, there are significant non-agricultural sources of nitrate pollution, such as septic systems and water treatment plants.
- Nitrate Watch is not intended to displace or replicate monitoring done by state or federal agencies
  - The role of this program is to fill gaps where data is not already being collected (in the streams our volunteers recreate in, their private wells, etc.), to raise awareness about the impact of nitrate pollution on human and environmental health, and to empower more people to become advocates for clean water. Just because the data collected by our volunteers doesn't carry the same weight as data collected by state/federal agencies doesn't mean it doesn't have power.
- Be careful not to over-inflate risks/dangers of nitrate pollution, especially when describing human health impacts
  - The stats are compelling enough on their own! We don't want to undermine our credibility by making claims about nitrate pollution that can be construed as stretching the truth.



# OUTREACH

## OUTREACH RESOURCES

The following resources are available to Izaak Walton League members and chapters to aid in their outreach efforts.

### Outreach Postcards (5"x7"):

Ideal for distributing at outreach events or having onsite at your chapter's facilities.

We can send you postcards (as supplies allow)! Use this form to request up to 100 postcards from Izaak Walton League National headquarters:

<https://forms.gle/du1fRtnT9y3LtCBP9>

Want to print your own? [Click to view/download the design as a PDF.](#)



Front



Back



# OUTREACH

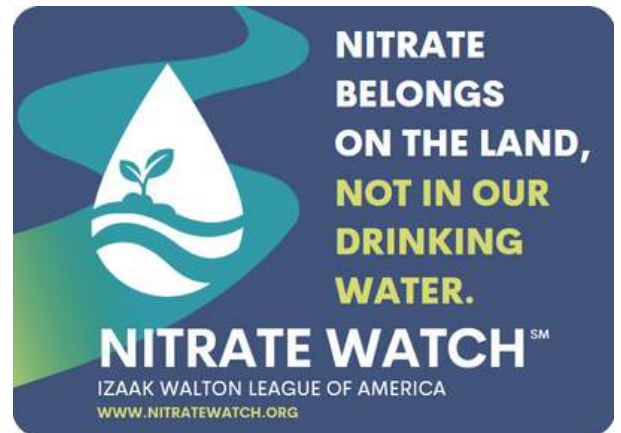
## OUTREACH RESOURCES

### Nitrate Watch stickers (2.5"x3.5"):

Ideal for distributing at outreach events.

We can send you stickers (as supplies allow)! Use this form to request up to 50 stickers from Izaak Walton League National headquarters:

<https://forms.gle/du1fRtnT9y3LtCBP9>



### Media Kit:

The Nitrate Watch media kit includes sample text and graphics that can be used for outreach via email, social media, newsletters, and more. It also includes the Nitrate Watch logo, which can be used if creating your own outreach materials.

[Click to access the Nitrate Watch Media Kit](#)

Folders

- Fact Sheets
- Kit Postcards
- Logos
- Newsletter Graphics
- Outreach
- Social Media Graphics

Files

- Email Template
- Make A Plan Fillable...
- Newsletter Blurbs
- Social Media Posts

# OUTREACH

## OUTREACH RESOURCES



### Tabling Sign:

Promoting Nitrate Watch at an outreach event? Use this sign to draw people to your table or booth.

**[Click to view/download as a PDF.](#)**

After your outreach event, send a photo/scan of your newsletter sign-ups to **[sos@iwla.org](mailto:sos@iwla.org)** and we will add folks to newsletter lists.

## Newsletter Signup Sheet:

Use this newsletter signup sheet when you are tabling and give people a way to stay up-to-date on Izaak Walton League news.





Edit the columns to suit your needs  
- add a column for your chapter  
newsletter, if you have one!

**[Click to download as a word document.](#)**

## Let's keep in touch!

Sign up to receive newsletters from the Izaak Walton League and let us know what programs you're interested in hearing about.

Name (First & Last)	Email		Nitrate Watch	Salt Watch	Clean Water program	Agriculture program



# OUTREACH

## OUTREACH RESOURCES

### Nitrate Watch Presentation:

This presentation is a great tool to use if you're interested in introducing Nitrate Watch to others. It includes a detailed notes section, making your job as a presenter easier.

[Click to access the presentation on Google Slides.](#)



### Introduction to Nitrate Watch video:

This brief video to explains how nitrate affects the environment, human health, and the economy, and how to get involved in Nitrate Watch. It is a great resource to help educate others and recruit new volunteers.

[View the "Introduction to Nitrate Watch" video.](#)



Introduction to Nitrate Watch

# OUTREACH

## OUTREACH RESOURCES

### Fact Sheets:

Use these flyers to educate your community about nitrate pollution.

Click on the name of a fact sheet to view it.

Fact sheets can also be found on the Nitrate Watch [‘Take Action’ page](#).

### [Nutrient Pollution 101](#)

**Nutrient Pollution**

**Eutrophication (n):** the process by which a body of water becomes enriched by excessive nutrients, especially nitrogen and phosphorus.

**Causes:** Eutrophication is caused by **nutrient pollution** which can come from agricultural runoff, wastewater discharge, industrial operations, or stormwater.

**Effects:** Nutrient pollution sets off a cascade of ecological effects, illustrated below:

- A nutrient influx encourages the rapid growth of algae.
- The resulting algal bloom blocks sunlight, lowers the pH, and uses up available nutrients.
- When the algae dies, its decomposition depletes oxygen in the water.
- The lack of oxygen creates a **dead zone**, where aquatic wildlife and plants struggle to survive.

**NUTRIENT RUNOFF** → **ALGAL BLOOM** → **DECAY**

Want to learn more about nitrate pollution near you? Visit [nitratewatch.org](http://nitratewatch.org) to request your free nitrate test kit!

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### [Nitrate & Drinking Water](#)

**Nitrate in Drinking Water**

Chemical fertilizers, animal waste, and leaky septic tanks are just a few sources of the elevated nitrate levels in many public water systems and private wells. The impact of nitrate on human health is an area of ongoing research, but there are several health risks that are known to be linked with nitrate in drinking water.

**DRINKING WATER STANDARD**

The drinking water standard for nitrate as nitrogen is 10 mg/L, as established by the US Environmental Protection Agency in 1992 (over 30 years ago). Current research suggests that prolonged exposure to nitrate levels below 10 mg/L can still lead to increased health risks.

**WELL WATER ISN'T TESTED**

Approximately 43 million Americans get their water from private wells, which are not regulated by the EPA. Well users are responsible for testing their own water. Most states recommend testing at least once every other year.

**HEALTH CONCERNS**

- **THYROID DISEASE**
- **BIRTH DEFECTS**
- **COLON CANCER**
- **BLUE BABY SYNDROME (METHEMOGLOBINEMIA)**

**WHAT TO DO**

If your drinking water contains nitrate levels above 10 mg/L, take the following steps:

- Contact a licensed well contractor or your public system operator to identify next steps.
- Obtain drinking water from a safe source, such as bottled water. Boiling water will not remove nitrate.
- Consider installing a reverse osmosis, ion exchange, or distillation water filtration system. Well users may also consider drilling a new well.

**JOIN NITRATE WATCH**

Want to find out how much nitrate is in your water? Visit [nitratewatch.org](http://nitratewatch.org) to request your free nitrate test kit!

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### [Healthy Soil, Clean Water](#)

**HEALTHY SOIL, CLEAN WATER**

Soil health and water quality go hand in hand. Healthy soil contains an ecosystem of bacteria, fungi, and microbes that help plants to thrive. These organic components create pores, allowing the soil to soak up water like a sponge.

Soil health suffers when it is tilled, sprayed, fed a steady diet of chemical fertilizer, or limited to just one or two crops. When soil health is threatened, water quality is too.

**Luckily, there are solutions!**

Read on to discover some of the conservation practices that improve water quality, reduce water pollution, protect soil health, and benefit farmers.

**LOW OR NO TILL**

Tilling can destroy beneficial fungi and increase erosion. “No-till” and conservation tillage leave plant material on the surface to protect the soil from erosion, improve water retention, and feed soil microbes.

**COVER CROPS**

Cover crops nourish microbes, soak up nutrients, and hold the soil in place when it would otherwise be bare after crops are harvested. Farmers who use cover crops enjoy improved soil health, decreased soil compaction and erosion, and up to 50% reduction in nitrogen runoff.

**EXTENDED CROP ROTATION**

Planting additional crops beyond just one or two helps to feed a diversity of soil fungi and bacteria and break up pest and disease cycles. Like cover crops, extended rotation retains soil and nutrients on the field, all while increasing yields and making a profit.

The Isaac Walton League advocates for policies and programs that improve water quality for all Americans by helping farmers and ranchers restore the health of their soils.

To learn more about this work, visit [iswl.org/water](http://iswl.org/water)

### [Cost of Nitrate Pollution](#)

**The Cost of Nitrate Pollution**

The contamination of surface water and drinking water with nitrate is dangerous to human health and harmful to the environment. But what is the economic impact of nitrate pollution?

**WATER TREATMENT COSTS**

When nitrate is present in drinking water sources, water utilities must remove the excess to meet the EPA standard. Specialized nitrate removal infrastructure is required, which is expensive to install and operate.

**MEDICAL COSTS**

Health conditions associated with nitrate pollution - like thyroid disease, birth defects, and some cancers - are costly to treat.

**IMPACT ON THE FISHING INDUSTRY**

Algal blooms that harbor toxic cyanobacteria can contaminate fish and shellfish, meaning the commercial fishing industry suffers.

**DECLINING PROPERTY VALUES**

Unightly and dangerous algal blooms affect the value of waterfront property.

**LOSS IN RECREATION**

Nitrate pollution can lead to unightly and dangerous algal blooms. It makes sense that this would negatively impact recreation activities, like fishing and paddling.

Visit [www.nitratewatch.org](http://www.nitratewatch.org) to learn about nitrate pollution and how you can help protect clean water in your community.

**NITRATE WATCH**  
THE WALTON LEAGUE OF AMERICA

**ESTIMATED U.S. ECONOMIC IMPACT: \$210 BILLION/YEAR\***

\* Sources: D. J. Cohn, J. G. McElroy, M. L. A. Stoltz, S. (2017). Cost of nitrate pollution: a review of the literature. Environmental Research Letters, 12(2). <https://doi.org/10.1088/1748-9326/aa6666>

### [Reducing Nitrate Pollution at Home](#)

**Reducing Nitrate Pollution at Home**

While the majority of nitrate pollution can be attributed to massive systems like industrial agriculture and wastewater treatment, we all have the ability to reduce nitrate pollution within our own areas of influence. Explore some of the ways that we can mitigate nutrient pollution starting at home.

**Use Fertilizer Wisely**

Before you fertilize your lawn, get your soil tested. This will tell you how much fertilizer your lawn or garden actually needs and what specific nutrients it is lacking. Check with your local environmental agency to see if they offer free or reduced rate soil testing.

**Remember these tips when applying fertilizer:**

- Look for fertilizer with slow-release nitrogen.
- Do not apply fertilizer when rain is in the forecast.
- Dispose of any leftover fertilizer properly.

**Try Conservation Landscaping**

Conservation landscaping uses the power of plants to improve water infiltration and remove pollutants. Consider adopting one or more of these practices:

- Native plants are typically more resilient and better suited for your local environment, requiring lower inputs of fertilizer and water.
- By capturing rainwater before it becomes runoff, rain barrels reduce the amount of pollutants delivered to waterways.
- Rain gardens and bioswales are landscape features designed to capture rainwater, help it soak into the ground, and filter pollutants naturally.

### [Nitrate and Algae](#)

**Nitrate and Algae**

Nitrate pollution can lead to toxic algal blooms, which can harm human health, the environment, and our economy. Luckily, Nitrate Watch gives you the ability to assess nitrate pollution in the waterways you care about.

**NECESSARY NUTRIENT TO POLLUTION PROBLEM**

Nitrate is a naturally occurring compound and an important nutrient for plant growth. Unfortunately, chemical fertilizers, animal waste, and leaky septic tanks introduce excessive amounts of nitrate to the landscape, which washes away and collects in surface waters or seeps into the water table.

**ALGAL BLOOMS**

When exposed to excess nitrate, algae utilize the nutrient and explode in population, forming an algal bloom. The rapid growth and decay of algae sets off a cascade of effects, including:

- Lack of oxygen and available food causes fish kills and dead zones.
- Release of toxins like microcystin threatens wildlife, pets and humans.
- Firm of scum impacts recreation, businesses, and property values.
- Raises treatment costs for drinking water.

**JOIN NITRATE WATCH**

Want to learn more about nitrate pollution in your community? Visit [nitratewatch.org](http://nitratewatch.org) to request your free nitrate test kit!

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# ADVOCACY

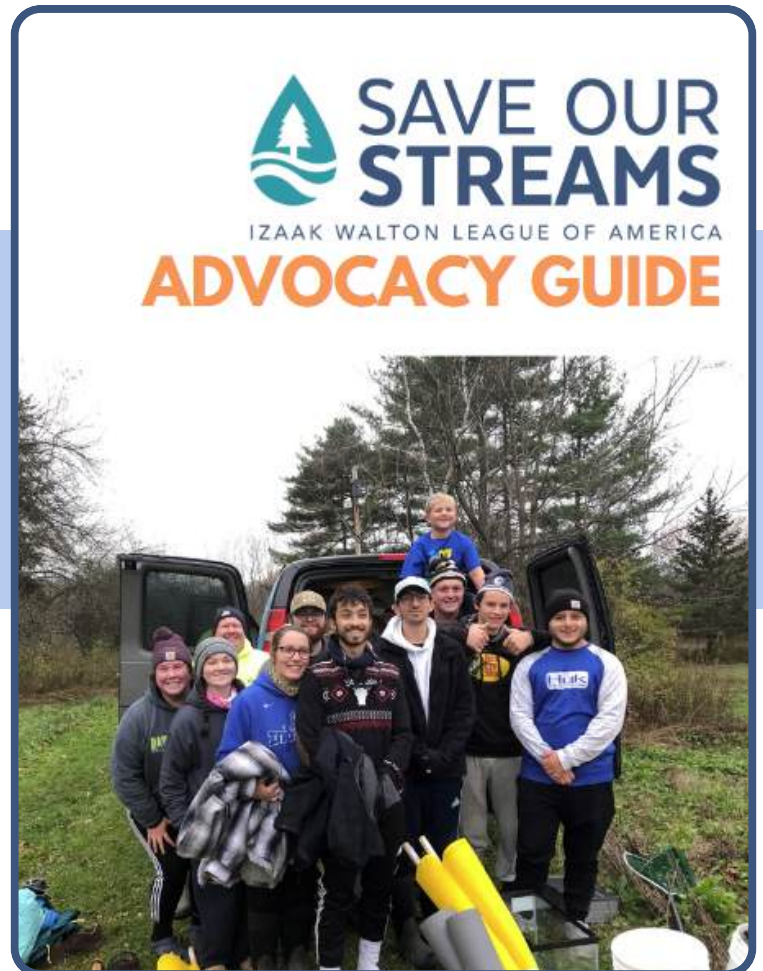
## SPEAKING UP FOR CLEAN WATER

**Advocacy**, by definition, is the support or recommendation of a particular cause or policy. With federal, state, and local governments as integral players in the protection of natural resources, it is vital that individuals advocate for what matters to them.

In this section, you'll find tips and resources to help you advocate for clean water that is free from unsafe levels of nitrate.

This section includes excerpts from the Save Our Streams Advocacy Guide.

**[Click to view the complete Save Our Streams Advocacy Guide.](#)**





# ADVOCACY

## WATER QUALITY COMMUNICATIONS

Here are some important things to keep in mind as you hone your message and communicate about water quality issues:

- **Use your data.** The data you collect can bolster your cause. Being transparent with your data gives your credibility, but manipulating or hiding data will harm that credibility.
- **Understand community needs.** Every community has unique needs and concerns. Is your community concerned about development? Agriculture? Road salting? Identify where your mission can align with existing environmental concerns.
- **Identify reasonable asks.** Not every campaign or action is appropriate for every audience. Figure out what actions your audience can take, and what actions they can't. An individual landowner can't stop a salt truck, but they can sign a petition to reduce road salt use and attend public meetings.
- **Build partnerships.** It's likely there are already watershed or environmental groups in your area. Find ways they can help amplify your voice and how your data can help their cause. Partnerships will help you reach a wider audience and show the breadth of your issue.
- **Educate.** Many people may not know about local threats to clean water. Don't assume that everyone has the same level of knowledge as you. Likewise, don't assume that they are uninterested or don't care.
- **Listen.** Most importantly, listen to the citizens, businesses, and committees you reach out to. Everyone is entitled to clean water for all kinds of reasons, from access to drinking water to outdoor recreation. Your reasons may be different than your neighbors'. By listening and acknowledging the views of your community, you can identify effective ways to make positive change.

# ADVOCACY

## LOOK FOR COMMON GROUND

There are so many forces influencing water quality and we all view environmental issues through a unique lens. Our perspectives on water quality issues may be shaped by our upbringing, educational background, career, and more.

This diversity of perspectives can be difficult to navigate, but it also creates ample opportunities to find common ground when communicating about water quality issues. If your audience is wary of pinpointing climate change as a contributing factor to water quality issues, they may still be receptive to discussing the effects of urbanization on water quality. Maybe your audience is not inspired to take action based solely on the environmental impact of water pollution, but the human health impacts are more compelling.

Approaching water quality issues from many angles can help rally audiences with varying perspectives around the common goal of cleaner water.



# ADVOCACY

## INFLUENCING LOCAL POLICY

### **Get in touch at a local level**

Your local elected officials and government agencies are there to work for and listen to you. Their job is to listen to concerned residents and respond accordingly. You can write or call your local leaders, or you can show up to a meeting like a city council or a local planning board. In towns and small cities, decisions are often made by the few people who put in the effort to be involved in local politics and decision making. Showing up to meetings in person can give you the opportunity to have your voice heard.

### **Advocate for your cause**

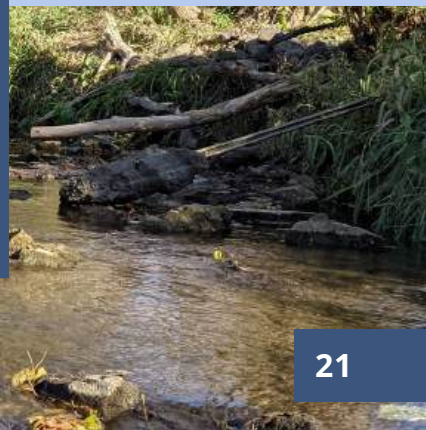
Many local policymakers are dealing with a wide range of issues. If you can come and clearly share why a water quality issue is important to you, it can make a big difference. They might not know about local water quality, and educating them can help them make more informed decisions.

### **Are they still not listening to you?**

If you get brushed off or boxed out, you can put in the work to become one of those decision-makers yourself! While you might not want to become a local government employee, there are often openings on local boards that always need more people involved. You could become one of those people and amplify your voice on water quality.

### **Get Creative.**

Want to get the attention of your elected officials? Consider bringing a sample of water from their district to their office and demonstrate a Nitrate Watch test. Better yet, invite them to come monitoring with you in the field!





# ADVOCACY

## INFLUENCING STATE AND FEDERAL POLICY

### Get in touch

Your elected officials may seem hard to pin down, but they are meant to listen to your needs. They often have staff and at least one local office in your district if you cannot get in touch with them directly. You can write or call your representatives, and potentially get a meeting with a staff member, if not the representatives themselves. Learn who represents you and how to contact them here: [ballotpedia.org/Who\\_represents\\_me](https://ballotpedia.org/Who_represents_me)

### Advocate for your cause

There is strength in numbers. One comment or one letter about a cause from one person may not make much of an impact, but working with others can amplify your efforts. Find out if there are people already advocating for your interests and join them! If you are the first to care, or the most driven, you can start to organize like-minded people. Get a group to call or write to your representatives' offices. Specific legislation that you support or oppose can make advocating simpler by defining a clear ask for your representatives: a vote.



# ADVOCACY

## TAKING ACTION AS A COMMUNITY

A group of united voices is more powerful than a single voice. Mobilizing your community to take action for clean water is one of the best things you can do to protect your local waterways. Once you have worked with a community and gotten community buy-in, you can use your collective voice to effect change.

- **Make it fun!** The best and most engaging advocacy groups engage new people at events that are meant to be fun, such as state fairs, public events, brewfests, and more!
- **Build community partnerships!** Partnerships with local businesses and organizations can help make an event more attractive and reach a new audience. Think outside the box! Diverse partners will help reach a diverse audience and strengthen community buy-in.
- **Don't forget to ask.** With busy lives, many folks are hesitant to commit to a cause or event unless explicitly asked to do so. Make sure to ask folks for their support or participation, and clearly set expectations for what you are asking them to do.
- **Collect signatures.** Gathering signatures and testimonials from your community will amplify your message and gather more attention from decision and policymakers.
- **Get involved with outreach events.** Host or attend public events to educate the community.
- **Get boots on the ground.** Some people prefer to commit to a one-time tangible action. Activities like trash cleanups, restoration days, invasive species removal, or water quality monitoring provide a chance for people to contribute to the cause, and it gives you a platform to engage them in discussion and education. You could develop long-time community partners!

# ADVOCACY

## ADVOCACY RESOURCES

The following resources are available to Izaak Walton League members and chapters to aid in their advocacy efforts.

### Action Alerts

[www.iwla.org/actionalert](http://www.iwla.org/actionalert)

On the Izaak Walton League of America website, you can find Action Alerts for current issues, often related to protections for clean water. These Action Alerts make it easy to contact your representatives about timely conservation issues.

To be notified about new Action Alerts, you can subscribe to email updates on our website. Click **Get involved > Sign up, Stay Informed.**

#### Our Issues

##### Federal/National Issues

### Support the Clean Water Act of 2023!

The Clean Water Act of 2023 would ensure that wetlands and streams are protected water resources. It would also reaffirm our nation's commitment to safeguarding water quality. Urge Congress to support H.R. 5983 today!



TAKE ACTION

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[LEARN MORE](#)

### Support healthy food, clean water, and a stable climate!

The Farm Bill has enormous impacts on resources that are important to all of us, like healthy food, clean water, and a stable climate. Ask your three members of Congress to support a Farm Bill that improves day-to-day life for every American!



TAKE ACTION



# ADVOCACY

## ADVOCACY RESOURCES

The following resources are available to Izaak Walton League members and chapters to aid in their advocacy efforts.

### Nitrate Watch Petition

[www.iwla.org/nitratepetition](http://www.iwla.org/nitratepetition)

The Nitrate Watch petition calls up on community leaders to stop harmful nitrate pollution. Add your name and encourage others to do the same.



A little fertilizer goes a long way.

Many modern agricultural practices depend on synthetic fertilizers that are high in nitrates to produce crop yields that will support a growing population. Unfortunately, those nitrates can be harmful to human health and the environment when they run off into waterways. From July 2017 to June 2018, Iowa distributed 4,486,121 tons of fertilizer. Runoff from rain and snow may carry the nitrates from fertilizers into groundwater or into drainage systems which empty into streams. About 80% of the nitrogen in fertilizers is lost from the fields where they are applied. Iowa has more than 22 million acres of row crop agriculture, and most of it remains incompletely or inadequately treated for nitrate pollution.

High levels of nitrates in streams can lead to unsafe drinking water. More than 118 million Americans depend on local streams for drinking water. In 1990, the Environmental Protection Agency (EPA) established the drinking water standard for nitrates as 10 mg/L. But studies have found that water with nitrate levels even lower than that may not be safe to ingest. Some health risks related to ingesting high levels of nitrate include methemoglobinemia (blue baby syndrome), cancer, thyroid disease, respiratory issues, and birth defects. Only about 10% of public water suppliers in Iowa treat their water for nitrate, and private water supplies, such as groundwater wells, are not regulated and do not have standards for contaminants. Together, that means that about one third of the households in Iowa are at high risk of nitrate exposure.

[add data from your Nitrate Watch testing and/or share why this issue is important to you personally]

As an Iowan, I understand the responsibility that our state has for providing food for our people and country. However, our current farming practices can be modernized to improve soil health and reduce runoff so fertilizers applied to fields don't poison our water. Our agriculture systems must evolve so that we can continue to feed a growing population without harming our waters. Government officials and our communities need to unite to reduce chemical fertilizer use, advocate for alternative farming practices, and stop polluting our waterways.

For more information about nitrate pollution, visit [nitratetwatch.org](http://nitratetwatch.org).

### Letter to the Editor Templates

We've created template letters that you can use as inspiration for a letter to the editor of your local paper. Make these templates your own by adding information about the impact of nutrient pollution on your community. Including data from your Nitrate Watch testing is a great way to make your letter unique!

Find letter templates on the Nitrate Watch ["Take Action" page](#).

# QUESTIONS?

Visit our website, [www.NitrateWatch.org](http://www.NitrateWatch.org)

Shoot us an email at [nitratewatch@iwla.org](mailto:nitratewatch@iwla.org)

## Thank you for joining Nitrate Watch!

Use this kit to track nitrate concentrations in your local surface water and tap water, and share your data with monitors across the country via the **Clean Water Hub**.



**NITRATE WATCH**<sup>SM</sup>

IZAAK WALTON LEAGUE OF AMERICA

### Did you know?

Nitrate is a naturally-occurring chemical that helps plants grow. However, human activities produce more nitrate than natural systems can use.

Fertilizer, manure, sewage, and other nitrogen-rich substances contain nitrate, which is easily transported through water in surface runoff or groundwater saturation.

Learn how to  
participate



**NITRATE  
WATCH**<sup>®</sup>

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