

What is the Envirothon?

The Envirothon is a hands-on environmental problem-solving competition for students in grades 9 through 12 in the United States and Canada. Teams train for and compete in five subject areas: **Soils and Land Use**, **Aquatics**, **Forestry**, **Wildlife**, and a rotating current environmental issue

Aquatics– Students explore complex under-water ecosystems with marine and freshwater biologists. They also learn how wetlands and buffers contribute to healthy streams.

Forestry– WV foresters will teach how to identify tree species and determine a tree's height and age. Students also learn management techniques for healthy and productive forestry resources.

Soils– Students work alongside soil scientists to learn about profiling and mapping techniques used to determine soil characteristics for farming and developing activities.

Wildlife– Students learn firsthand from wildlife managers about animal populations and dynamics in WV and the importance of preserving wildlife habitat.

Starting a Team:

- Identify an Advisor who is interested in forming an Envirothon Team
- Form a team of 5 students
- Have teams train in the 5 subject areas
- Register for the WV Envirothon Competition

Note: There are usually several Envirothon practice events held in various areas of the state, typically held in late March-early April. There is also a Teacher's Workshop held each year, usually in September at Holly-Gray Park in Sutton, WV.

Day 1 of Competition – Oral Presentations:

- Registration – turn in oral presentation materials; pick up Envirothon t-shirts
- Team Photo
- College and Career Exhibits
- Lunch
- Fifth Topic Oral Presentations
- Review Stations open to teams
- Dinner

- Entertainment

Day 2 of Competition – Testing Day:

- Breakfast
- Aquatics
- Wildlife
- Soils
- Forestry
- Lunch
- Top Five teams give final 5th topic presentations
- Award Presentation

Students compete in a two-day State event in April. The WV Envirothon is sponsored by WV Conservation Districts. There are 14 Conservation Districts in WV. If you contact your local Conservation District Office <http://www.wvca.us/map.cfm> they may provide financial support for your trip to the WV Envirothon.

The top 5 Place Envirothon winners will receive scholarships:

First Place Team: \$5,000

Second Place Team: \$3,750

Third Place Team: \$2,500

Fourth Place Team: \$1,750

Fifth Place Team: \$1,250

Students will also be awarded for top team score at each testing station. The Stations includes Aquatics, Soils, Wildlife, Forestry and the Current Environmental issue or 5th topic. The award will be \$250 for students and \$250 for the Advisor.

ROOKIE TEAM AWARD

A rookie team awarded to the highest scoring first year competing team in the amount of \$600 for the team broken down to \$100 per member and \$100 to the coach.

ATTENDANCE AWARD

There will be also be a drawing for \$500 attendance award.

- The top five placing teams and the station award teams are NOT eligible for the attendance award
- All five members of each Team must be present at the final presentation to be eligible
- The drawing will be held prior to the announcement of the 1st place team

The top Scoring team will represent West Virginia at the NCF North American Envirothon. Each year the Envirothon is located at a different location in the US or Canada.

Expenses for the trip will be paid by the WV Envirothon committee.

Oral Presentation:

You will prepare an oral presentation according to this Current Environmental Issue Listed on The West Virginia Envirothon Web Page.

At the Envirothon you will give a presentation in front of a panel of Judges according to the following rules:

Oral Presentation Rules

Topic oral presentation, teams will use PowerPoint slides. A maximum of 10 slides may be used. No videos, sound or hyperlinks will be allowed. Slides may use the animation features that are available with the PowerPoint software.

Teams will turn in their flash drive and notecards when they register. The flash drive will be given to the team at the time scheduled for their 15 minute practice session. To receive full credit, presentations must be between 5 minutes and 7 minutes. Points will be deducted according to the score sheet if they take less time. Teams will be stopped at 7 minutes. This will allow time for a three minute Question and Answer session with the judges.

Presentation Rules and Regulations

- 1). 10 slide maximum
- 2). No videos, sound, or hyperlinks allowed
- 3). 3 X 5 inch notecards can be used to read from; cannot be used as visual aid
- 4). Windows operating system will be used for all presentations utilizing Microsoft Office PowerPoint
- 5). Absolutely no props. Pointer will be provided.
- 6). No team, school, county, district, or personal names on presentation
- 7). No identifying clothing to be worn, Envirothon t-shirts required
- 8). Points will be deducted for any infractions of these rules

Score Sheet

Preliminary Oral Presentation Score Sheet

Final Oral Presentation Score Sheet

It is to your advantage to review these Score Sheets.

These Videos may be helpful:

https://youtu.be/dk2G1_N5kdk

https://youtu.be/pAO_uKxRguA

<https://youtu.be/AyfmoSB5ztI>

PLEASE READ OUR POLICY AND PROCEDURES

http://www.wvca.us/envirothon/pdf/WV_Envirothon_Policy_and_Procedures2018.pdf

QUESTIONS??

Contact Envirothon Chairman, Wayne McKeever by email at

Wayne.mckeever@gmail.com

We hope to see you at the next Envirothon Competition!

Helpful Resources ,Please Review, they will help you.

<http://www.wvca.us/envirothon/f2.cfm>

<http://www.wvca.us/envirothon/soil.cfm>

<http://www.wvca.us/envirothon/w2.cfm>

<https://youtu.be/xaQWjXAJYdw>

<https://www.youtube.com/watch?v=yIYJTIqpGMc&feature=youtu.be>

https://youtu.be/dk2G1_N5kdk

<https://youtu.be/janMim8Hr0k>

<https://youtu.be/-hVqs-YZ28Q>

<https://youtu.be/KHFvaj2a0qI>

<https://youtu.be/-HJbAhKvtlw>

<https://youtu.be/2MmRAH8etmU>

<http://www.envirothonpa.org/station-training/>

<https://www.envirothon.org/the-competition/current-competition> (Review learning objectives)

<https://www.envirothon.org/the-competition/test-writing>

<http://mdenvirothon.org/training/>

<https://vaswcd.org/additional-study-resources>

See Below

2020 Envirothon

Water Resource Management: Local Control and Local Solutions

Key Topics:

1. Understanding how groundwater and surface water systems function.
2. Understanding the importance of water quality and quantity as a foundation in a healthy ecosystem
3. Understanding a variety of water quality indicators in different landscapes.
4. Understanding a variety of water quantity indicators in different landscapes
5. Understanding how sustainable and best management practices enhance and protect water quality and quantity for humans and wildlife.
6. Understanding the differences of local, regional, and national systems that manage natural resources and the importance of each in water resources.
7. Understanding the social, economic, political impacts of natural resources management and decision making.
- 8 Understand the ability of Conservation Districts to implement local policy and local management to protect water users;
9. Understand administrative structures and processes for managing water uses and supplies;
- 10..Understand ground and surface water hydrology and connectivity
- 11.Understand the economic, social and environmental impacts of projects and policy decisions.

See Below

<https://www.greenfacts.org/en/water-resources/l-3/6-sustainable-management.htm>

<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/2014WR016869>

<https://www.thesolutionsjournal.com/article/improving-the-sustainability-of-water-treatment-systems-opportunities-for-innovation/>

https://www.who.int/water_sanitation_health/resourcesquality/watpolcontrol.pdf

<http://www.accountability-central.com/hot-topics/water-quality-and-quantity-issues-news-and-updates/>

<https://www.in.gov/idem/nps/2487.htm>

<https://learn.eartheasy.com/guides/45-ways-to-conserve-water-in-the-home-and-yard/>

https://www.cleanwateraction.org/files/publications/ca/10_Ways_to_Protect_Our_Water.pdf

<https://www.epa.gov/environmental-topics/water-topics>

<https://www.fedcenter.gov/programs/water/>

<https://www.whalefacts.org/water-pollution-facts-causes-effects-solutions/>

<https://www.earthclipse.com/environment/causes-effects-and-solutions-to-water-scarcity.html>

<https://extension.psu.edu/common-drinking-water-problems-and-solutions>

<https://wakeup-world.com/2015/08/27/agricultural-water-problems-and-solutions-what-you-need-to-know/>

<https://dep.wv.gov/WWE/Programs/wqs/Pages/default.aspx>

<https://efotg.sc.egov.usda.gov/references/public/WV/wvaglaws.pdf>

<http://www.wvca.us/>

<https://www.nrcs.usda.gov/wps/portal/nrcs/site/wv/home/>

<https://cleantechnica.com/2019/12/04/hydropanels-provide-rural-west-virginia-community-with-fresh-drinking-water/>

<https://www.wvdhhr.org/phs/water/index.asp>

<https://www.nacdnet.org/about-nacd/about-districts/>

<https://www.ncsl.org/research/environment-and-natural-resources/rainwater-harvesting.aspx>

<https://dep.wv.gov/oil-and-gas/Pages/default.aspx>