

# NC COASTAL ENVIROTHON

WEYERHAEUSER'S COOL SPRINGS ENVIRONMENTAL

EDUCATION CENTER

945 COOL SPRINGS ROAD, ERNUL, NC 28527

MARCH 16, 2021



MANUAL

## **2021 NC Coastal Envirothon • March 16 • Weyerhaeuser's Cool Springs Environmental Education Center**

*Sponsored by Area 5 and Area 6 of the North Carolina Association of Soil and Water Conservation Districts*

### **General Information**

The Envirothon program is a competitive event for five member high school and middle school teams to compete in a natural resources knowledge and ecology field day against other high school and middle school teams. It stimulates, reinforces and enhances students' interest in the environment and our state's natural resources. Resource subject areas are: Soils/Land Use, Forestry, Wildlife, Aquatic Ecology, and Current Environmental Issues.

The Coastal Envirothon is a one-day competition hosted by Areas 5 and 6 of the North Carolina Association of Soil and Water Conservation Districts. (Areas 5 and 6 include local Soil and Water Conservation District offices in 28 coastal counties). The middle school competition will run simultaneously with the high school competition. The competition is limited to 35 middle school teams and 35 high school teams.

An entire school class or group can participate in studying the resource subjects, however only five members shall be on a team for station training and testing rotations. Each team must have an advisor and may have 2 alternates who can go through the training and testing rotations as separate "teams" for practice. One advisor may manage teams from the same school.

At the Coastal Envirothon, a resource station is set up in an outside setting for each of the five resource subject areas. Teams are given a brief presentation by a natural resource professional, and a test is taken on each of the resource subjects.

### **Training/Testing Stations**

Teams are expected to learn resource material prior to the competition. Resource material is available at your local Soil & Water Conservation District office (contact information for local offices is included later in this manual). Please contact the district office in your County for assistance to obtain any resource materials. Resource materials are also available online at [www.ncenvirothon.org](http://www.ncenvirothon.org).

Local Soil & Water Conservation District offices also have access to "resource boxes" for the subject areas. These boxes include additional sample and reference materials to assist your team to further engage in the subject area. For example, the wildlife box includes several pelts and skulls, and the soils box includes a Munsell Soil Color book. These materials are available for hands-on study. Contact your district office for further details or to reserve a resource box.

For the station training sessions, teams will rotate through the five resource stations with other teams. Five test stations will likely cover the following topics, but are not limited to these:

- **Soils/Land Use** - classification, erosion, soil surveys, site suitability, current issues, profiles, soil, texture, characteristics, and conservation practices.
- **Forestry** - tree identification, improvement of timber stands, forest ecology, insects, diseases, use of Biltmore Stick, best management practices, forest management, and forest measurements.
- **Wildlife** - habitat, identification, foods, rules & regulations, bird calls, diseases, and management.
- **Aquatic Ecology** - ecology of water, stream improvement, water chemistry, plants and animals living in or around water, pollution, and conservation.
- **Current Environmental Issues** - any current or newsworthy environmental issue.

Professionals from cooperating agencies and/or independent environmental organizations will conduct the station competitions.

Each of the 5 written tests will last for 25-30 minutes and will have approximately 25 questions. These questions are answered as a team and not by individual students. After finishing one station at a set time, the teams will rotate to the next station. The tests are graded and the scores totaled to select the winners.

## Who May Participate

The Coastal Envirothon Competition is open to ecology clubs, Girl Scouts, Boy Scouts, FFA Chapters, 4-H clubs, home study groups, environmental groups, Vo-Ag groups, or others interested in competing. The eligible Middle School grades are five (5) through eight (8), with the High Schools being nine (9) to twelve (12). Team members must be high school or middle school students and from the same school or group. An advisor is required.

Maximum team size to compete is five (5) members. If a team has less than five (5) members, they will still be allowed to participate. *Please be aware that at the State Envirothon, teams with less than five members cannot place in the overall scoring because (1) the North American Envirothon requires the state to have a five member team, and (2) the way our State Envirothon picks a final winner out of the top three overall scoring teams with a final oral presentation.* Schools may send up to two teams, however each team must register separately. Each team can have up to two alternates and may bring them to the Envirothon. Alternates cannot participate or confer with their team during the testing. If an alternate or any other individual is observed assisting a team during testing or while walking between stations during testing, that team will be disqualified.

At the Coastal Envirothon, teams will be assigned to an alternate team and participate in the testing. This gives them experience and allows them to share in the fun of participating. Teams made up of alternates are not allowed to place.

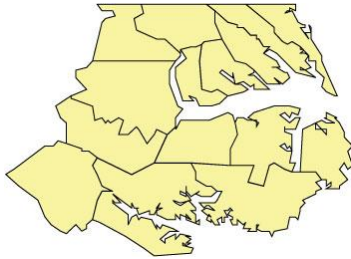
## Grievance Policy

A Grievance Committee has been established to hear complaints about teams not following the rules, cheating, etc. Please inform your team members that if they wish to make a grievance or complaint, this must be done as soon as possible and before the winners are announced. The guides at the stations are available to take grievances. They should be written down by the guide to present to the Grievance Committee.

## **Awards**

After the competition, there will be a brief awards program to announce the winners, present certificates, and recognize the financial contributors and important guests. The final decision on teams that will compete in the State Envirothon will be the responsibility of the Coastal Envirothon Committee. Awards and qualifiers for the State Envirothon Competition are as follows:

### **AREA 5 AWARDS**



**Area 5 Counties:** Beaufort, Bertie, Camden, Chowan, Currituck, Dare, Gates, Hertford, Hyde, Martin, Northampton, Pasquotank, Perquimans, Pitt, Tyrrell, Washington

### **High School Awards**

- 1<sup>st</sup> Place High School Team – \$100 cash prize, trophy, paid State Envirothon registration, State Envirothon travel reimbursement (up to \$350)
- 2<sup>nd</sup> Place High School Team - \$75 cash prize, trophy
- 3<sup>rd</sup> Place High School Team - \$50 cash prize, trophy

### **Middle School Awards**

- 1<sup>st</sup> Place Middle School Team – \$100 cash prize, trophy, paid State Envirothon registration, State Envirothon travel reimbursement (up to \$350)
- 2<sup>nd</sup> Place Middle School Team - \$75 cash prize, trophy
- 3<sup>rd</sup> Place Middle School Team - \$50 cash prize, trophy

### **Advisor/Teacher Awards**

- Area 5 – Teacher of 1<sup>st</sup> Place High School Team – \$100 cash prize
- Area 5 – Teacher of 1<sup>st</sup> Place Middle School Team - \$100 cash prize

### **State Envirothon Registration**

- 1<sup>st</sup> Place High School from Area 5 – paid State Envirothon registration
- 1<sup>st</sup> Place High School FFA from Area 5 – paid State Envirothon registration
- 1<sup>st</sup> Place Middle School from Area 5 – paid State Envirothon registration

### **State Envirothon Qualifiers**

- The top seven High School teams from Area 5 will be eligible to compete in the State Envirothon. Additionally, the top scoring High School FFA team from Area 5 will also qualify to compete (maximum of 8 Area 5 High School teams qualifying for the State Envirothon).
- The top seven Middle School teams from Area 5 will be eligible to compete in the State Envirothon (maximum of 7 Area 5 Middle School teams qualifying for the State Envirothon).

## **AREA 6 AWARDS**



**Area 6 Counties:** Brunswick, Carteret, Craven, Duplin, Greene, Jones, Lenoir, New Hanover, Onslow, Pamlico, Pender, Wayne

### **High School Awards**

- 1<sup>st</sup> Place High School Team – \$100 cash prize, trophy, paid State Envirothon registration, State Envirothon travel reimbursement (up to \$350)
- 2<sup>nd</sup> Place High School Team - \$75 cash prize, trophy
- 3<sup>rd</sup> Place High School Team - \$50 cash prize, trophy

### **Middle School Awards**

- 1<sup>st</sup> Place Middle School Team – \$100 cash prize, trophy, paid State Envirothon registration, State Envirothon travel reimbursement (up to \$350)
- 2<sup>nd</sup> Place Middle School Team - \$75 cash prize, trophy
- 3<sup>rd</sup> Place Middle School Team - \$50 cash prize, trophy

### **Advisor/Teacher Awards**

- Area 6 – Teacher of 1<sup>st</sup> Place High School Team – \$100 cash prize
- Area 6 – Teacher of 1<sup>st</sup> Place Middle School Team - \$100 cash prize

### **State Envirothon Registration**

- 1<sup>st</sup> Place High School from Area 6 – paid State Envirothon registration
- 1<sup>st</sup> Place High School FFA from Area 6 – paid State Envirothon registration
- 1<sup>st</sup> Place Middle School from Area 6 – paid State Envirothon registration

### **State Envirothon Qualifiers**

- The top seven High School teams from Area 6 will be eligible to compete in the State Envirothon. Additionally, the top scoring High School FFA team from Area 6 will also qualify to compete (maximum of 8 Area 6 High School teams qualifying for the State Envirothon).
- The top seven Middle School teams from Area 6 will be eligible to compete in the State Envirothon (maximum of 7 Area 6 Middle School teams qualifying for the State Envirothon).

**Important information for teams that receive Registration and Travel Reimbursement:**

- For teams outlined above that have State Envirothon registration paid by the Coastal Envirothon Committee: when registering for the State Event, **DO NOT send your registration payment in.** Instead make note on the registration that you are a 1<sup>st</sup> Place winner from the Coastal Envirothon, and registration will be paid by the Committee (the Committee will provide one registration check directly to the State Envirothon committee for the State Event in April).
- For teams that qualify for **travel reimbursement** (up to \$350): receipts for travel expenses will need to be *postmarked NO LATER THAN 2 WEEKS* following the State Envirothon to: Carolyn Garris, Pitt Soil and Water Conservation District, 403 Government Circle, Suite 4, Greenville, NC 27834. Please call Carolyn at 252.902.1746 with questions.

**If you place in your Area's top seven at the Coastal Envirothon, please confirm your team's plans to compete in the State Envirothon – April 16 and 17, 2021, at Cedarrock Park in Burlington, NC! As your team prepares for the Coastal event, please consider their availability and intent to participate in the State competition. Please let us know as soon as possible after the Coastal Envirothon results are announced. We understand that there may be circumstances where you need to confirm details but the absolute deadline to let us know of your plans to attend the State event is April 2, 2021. Your point of contact is: Carolyn Garris, Pitt SWCD, 403 Government Circle, Suite 4, Greenville, North Carolina 27834. Telephone – 252.902.1746. Thanks for representing the coast at the State Envirothon!**

## Registration

*There is no registration fee to participate in the Coastal Envirothon. Up to two teams from the same school will be allowed to compete. Additional team slots will be opened up after the deadline date, allowing up to two additional teams per school to register.*

Registration for the 2021 Coastal Envirothon will be completed **ONLINE!** Registration will open **January 11, 2021 and will run through February 19, 2021.** After February 21st, additional teams will be accepted as space permits. (Please note that T-shirt sizes cannot be guaranteed for teams that register after the February 19th deadline.)

To register online, please visit our website: <http://www.nccoastalenvirothon.org/> and click the link on the left-hand side for "Team Registration" to provide general information for your team. You will receive an email confirmation of your responses from our registrars (names listed below). To be considered "registered", each team must submit an online registration form and submit by mail Parental Consent/Medical Information, and Weyerhaeuser Waiver forms for each student participating in your team (as a team member or alternate). Student Code of Conduct forms must also be mailed for each student participating in your team (as a team member or alternate). The deadline for registration is February 19, 2021 (postmarked date). If you have questions about registration for a High School team, please contact Sherry Harris at 252.232.3360. If you have questions about registration for a Middle School team, please contact Vickie Baker at 910.335.3116.

The Adult Code of Conduct and Weyerhaeuser Waiver Form **MUST** be filled out by all participating/visiting adults and returned to team advisors and submitted with students' forms.

**Please return High School materials to:**

Sherry Harris  
Currituck SWCD  
153 Courthouse Road, Suite 501  
Currituck, North Carolina 27929  
252.232.3360  
Email: [sherry.harris@currituckcountync.gov](mailto:sherry.harris@currituckcountync.gov)

**Please return Middle School materials to:**

Vickie Baker  
Duplin SWCD  
165 Agriculture Drive - Suite B,  
Kenansville NC 28349-9058  
910.335.3116  
Email: [vickie.baker@nc.nacdnet.net](mailto:vickie.baker@nc.nacdnet.net)

## Meal

On the day of the competition, lunch will be provided for the teams and/or groups registered. If anyone has special dietary needs (e.g. vegetarian, gluten-free), they will need to bring their own food and a cooler to store it. To determine the menu in advance, you may contact Coastal Envirothon Committee Chair, Carolyn Garris in Pitt SWCD 252.902.1746.

## Special Needs

If you have a student(s) with special needs, please contact Carolyn Garris at 252.902.1746, prior to the competition so that appropriate arrangements can be made.

## Visitors

Visitors are welcome to come and observe; however, no children (other than those competing) will be allowed at the stations at any time. **All visitors are required to register.** A registration fee of \$3.00 is required to cover cost of lunch. Please contact Carolyn Garris at 252.902.1746. The Adult Code of Conduct Form and Weyerhaeuser Waiver **MUST** be filled out by all participating adults and included with the registration forms.

## Parking

Please park in the designated areas. We will have someone directing traffic.

## Attire

The competition will be held outside regardless of the weather. Wear (bring) appropriate clothing (close-toed shoes, jackets, rain coats, etc.). If it is warm and sunny, please consider sunscreen, hats, and insect repellent. If it is cold, you may want to bring a blanket. Do not wear any item of clothing or anything else that might identify your team by city, county, or school.

## Seating

Seating will not be provided for students or visitors/guests. You are urged to bring chairs, cushions, etc., to sit on.

## First Aid

A first aid provider will be on site to handle medical emergencies.

## Rules

1. Middle school students are eligible to compete as a team.
2. High school students are eligible to compete as a team.
3. Teams must consist of members that are from the same school or group.
4. Each team will consist of at least three, but no more than five members; in addition, up to two alternates will be allowed per team.
5. Teams must be accompanied to the event by a team advisor and/or a Soil & Water Conservation District representative.
6. During the testing, advisors may NOT circulate with the teams.
7. The advisors shall not assist their team in any way during the testing.
8. Advisors will be responsible to ensure that teams display proper conduct during the competition and at the host facility.
9. Drugs, alcohol, and firearms are NOT permitted on premises.
10. No clothing or other identification of local schools, town, cities, or counties will be permitted.
11. All identification badges to be used, will be furnished by the Coastal Envirothon Committee.
12. Biltmore sticks used in the competition will be provided to the teams at the Forestry Station.
13. The winning team will be the team with the highest cumulative point total. Certain questions will be pre-selected as tie-breakers. The tied teams will have their pre-selected questions compared until the tie is broken.
14. Rules and regulations of the Envirothon are subject to change. Any and all changes will be explained in advance to all teams and advisors.
15. Only participating team members are allowed in testing areas.
16. Once the teams have checked in on the day of the event, alternates may not be substituted for team members unless it is an emergency.
17. The judges' decisions are final on all events.
18. All grievances must be reported before the awards program when winners are announced.
19. Advisors must send in complete and signed team members' Health, Code of Conduct, and Weyerhaeuser Waiver forms for registration to be considered "complete".
20. No book bags, pocketbooks, etc., may be carried to stations during testing.
21. Substitutions may be made on a team selected to go to the state competition but there must be at least three original members able to compete at the state level.
22. No electronic devices, digital cameras, cell phones, or taping devices are allowed during station training or testing.
23. During testing, participants must be accompanied by a guide if it is necessary to leave the testing area.

**Violations of these rules may result in the disqualification of a team.**



## Event Schedule – Tuesday, March 16, 2021

|               |  |
|---------------|--|
| 8:30 - 9:30   | Check-In (If time permits, get team pictures taken after check-in) |
| 9:30 - 9:45   | Welcome and Instructions   |
| 10:00 - 12:30 | Station Training   |
| 12:30 - 1:30  | Lunch  |
| 1:30 - 4:00   | Competition (testing)  |
| 4:00 - 4:45   | Awards Program   |
| 5:00          | Depart for home!   |

## Websites

- Coastal Envirothon Website • for sponsor information, directions, and everything you need to know about the NC Coastal Envirothon • [www.nccoastalenvirothon.org](http://www.nccoastalenvirothon.org)
- North Carolina Envirothon Website • for resource materials, directions, and everything you need to know about the North Carolina Envirothon • [www.ncenvirothon.org](http://www.ncenvirothon.org)
- National Conservation Foundation Envirothon Website • [www.envirothon.org](http://www.envirothon.org)
- North Carolina Association of Soil & Water Conservation Districts Website • [www.ncaswcd.org](http://www.ncaswcd.org)
- NRCS Website • [www.nc.nrcs.usda.gov/NaturalResEd/envirothon/envirothon.htm](http://www.nc.nrcs.usda.gov/NaturalResEd/envirothon/envirothon.htm)
- Division of Soil & Water Conservation Website • [www.ncagr.gov/swc/](http://www.ncagr.gov/swc/)
- Cool Springs Environmental Education Center Website • [www.coolsprings.org](http://www.coolsprings.org)

## Contact Information

Carolyn Garris, **Chair** (Area 5)  
Pitt County Soil & Water Conservation District  
403 Government Circle, Suite 4  
Greenville, NC 27834  
[carolyn.garris@pittcountync.gov](mailto:carolyn.garris@pittcountync.gov)  
Office – 252.902.1746; Mobile 252.944.3307

Pamela Fenton, Logistics Coordinator  
Weyerhaeuser  
1785-B Weyerhaeuser Road  
Vanceboro, NC 28586  
[Pamela.Fenton@weyerhaeuser.com](mailto:Pamela.Fenton@weyerhaeuser.com)  
Office - 252.633.7101; Mobile 252.617.3811

Sabra Cahoon, **Vice Chair** (Area 6)  
Pamlico County Soil & Water Conservation District  
13724 HWY 55 East B  
Bayboro, NC 28515  
[sabra.cahoon@nc.nacdnet.net](mailto:sabra.cahoon@nc.nacdnet.net)  
Phone – 252.745.5064 X 3

Shelvie Stancil, **Secretary/Treasurer** (Area 6)  
Lenoir County Soil & Water Conservation District  
2026 HWY 11, 55 South  
Kinston, NC 28504  
[sstancil@co.lenoir.nc.us](mailto:ssancil@co.lenoir.nc.us)  
Phone – 252.523.7011 X 3

**Area 5 Soil and Water Conservation Districts**

|                  |                  |              |  |
|------------------|------------------|--------------|--|
| Beaufort SWCD    | Debbie Boyd      | 252.946.4989 | <a href="mailto:debbie.boyd@co.beaufort.nc.us">debbie.boyd@co.beaufort.nc.us</a>                 |
| Bertie SWCD      | Dianne Cowand    | 252.794.5305 | <a href="mailto:dianne.cowand@bertie.nc.gov">dianne.cowand@bertie.nc.gov</a>                     |
| Camden SWCD      | Brian Lannon     | 252.338.6353 | <a href="mailto:blannon@camdencountync.gov">blannon@camdencountync.gov</a>                       |
| Chowan SWCD      | Celeste Maus     | 252.482.4127 | <a href="mailto:celeste.maus@chowan.nc.gov">celeste.maus@chowan.nc.gov</a>                       |
| Currituck SWCD   | Sherry Harris    | 252.232.3360 | <a href="mailto:sherry.harris@currituckcountync.gov">sherry.harris@currituckcountync.gov</a>     |
| Dare SWCD        | Kristina Fischer | 910.352.7771 | <a href="mailto:kristina.fischer@ncagr.gov">kristina.fischer@ncagr.gov</a>                       |
| Gates SWCD       | Ashley Preedy    | 252.357.0290 | <a href="mailto:ashley.preedy@nc.nacdnet.net">ashley.preedy@nc.nacdnet.net</a>                   |
| Hertford SWCD    | Dottie Roberson  | 252.358.7846 | <a href="mailto:dottie.roberson@herfordcountync.gov">dottie.roberson@herfordcountync.gov</a>     |
| Hyde SWCD        | Debbie Cahoon    | 252.926.4195 | <a href="mailto:dcahoon@hydecountync.gov">dcahoon@hydecountync.gov</a>                           |
| Martin SWCD      | Cathy Barber     | 252.792.4350 | <a href="mailto:cathy.barber@nc.nacdnet.net">cathy.barber@nc.nacdnet.net</a>                     |
| Northampton SWCD | Joan Downing     | 252.534.2591 | <a href="mailto:joan.downing@nhcnc.net">joan.downing@nhcnc.net</a>                               |
| Pasquotank SWCD  | Kathryn Smith    | 252.338.6353 | <a href="mailto:smithk@co.pasquotank.nc.us">smithk@co.pasquotank.nc.us</a>                       |
| Perquimans SWCD  | Janet Stallings  | 252.426.5545 | <a href="mailto:janetstallings@perquimanscountync.gov">janetstallings@perquimanscountync.gov</a> |
| Pitt SWCD        | Carolyn Garris   | 252.902.1746 | <a href="mailto:carolyn.garris@pittcountync.gov">carolyn.garris@pittcountync.gov</a>             |
| Tyrrell SWCD     | Ty Fleming       | 252.796.3891 | <a href="mailto:tfleming@tyrellcounty.net">tfleming@tyrellcounty.net</a>                         |
| Washington SWCD  | Martha Jones     | 252.793.4561 | <a href="mailto:washingtonsoilandwater@gmail.com">washingtonsoilandwater@gmail.com</a>           |

**Area 6 Soil and Water Conservation Districts**

|                  |                  |              |  |
|------------------|------------------|--------------|--|
| Brunswick SWCD   | Marybeth Watkins | 910.253.2830 | <a href="mailto:mary.watkins@brunswickcountync.gov">mary.watkins@brunswickcountync.gov</a> |
| Carteret SWCD    | Todd Kelly       | 252.222.6360 | <a href="mailto:todd.kelly@carteretcountync.gov">todd.kelly@carteretcountync.gov</a>       |
| Craven SWCD      | Pam Hawkins      | 252.633.0397 | <a href="mailto:phawkins@cravencountync.gov">phawkins@cravencountync.gov</a>               |
| Duplin SWCD      | Vickie Baker     | 910.335.3116 | <a href="mailto:vickie.baker@nc.nacdnet.net">vickie.baker@nc.nacdnet.net</a>               |
| Greene SWCD      | Dawn Murphy      | 252.747.3705 | <a href="mailto:dawn.keel@nc.nacdnet.net">dawn.keel@nc.nacdnet.net</a>                     |
| Jones SWCD       | Tiffeny Yohman   | 252.448.2341 | <a href="mailto:tiffeny.yohman@nc.nacdnet.net">tiffeny.yohman@nc.nacdnet.net</a>           |
| Lenoir SWCD      | Shelvie Stancil  | 252.526.9799 | <a href="mailto:ssstancil@lenoircountync.gov">sstancil@lenoircountync.gov</a>              |
| New Hanover SWCD | Dru Harrison     | 910.798.7137 | <a href="mailto:drharrison@nhcgov.com">drharrison@nhcgov.com</a>                           |
| Onslow SWCD      | Candice Jarman   | 910.937.1306 | <a href="mailto:Candice.jarman@onslowcountync.gov">Candice.jarman@onslowcountync.gov</a>   |
| Pamlico SWCD     | Sabra Cahoon     | 252.201.9072 | <a href="mailto:sabra.cahoon@nc.nacdnet.net">sabra.cahoon@nc.nacdnet.net</a>               |
| Pender SWCD      | Priscilla Pierce | 910.259.9123 | <a href="mailto:ppierce@pendercountync.gov">ppierce@pendercountync.gov</a>                 |
| Wayne SWCD       | Jennifer Sparrow | 919.734.5281 | <a href="mailto:jennifer.sparrow@waynegov.com">jennifer.sparrow@waynegov.com</a>           |

## 2021 Sponsors

Many thanks to the sponsors for our 2021 event!  
Your contribution is an investment in our youth, communities, and education.

HUMPBACK WHALE - \$2,000

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Smithfield Hog Production Division-Warsaw, NC

SOUTHERN FLYING SQUIRREL - \$500

American Skin LLC - Burgaw Facility



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- NCASWCDs Area 5
- NCASWCDs Area 6

MINK - \$100

- Coastal Plains Insurance Services, Lenoir County
- North Carolina County Farm Bureaus
- Local Soil and Water Conservation Districts from NCASWCD Area 5
- Local Soil and Water Conservation Districts from NCASWCD Area 6