



**The resources selected for the 2019 NCF-Envirothon Current Issue are intended to express a diversity of perspectives related to the topic, "Agriculture and the Environment: Knowledge and Technology to Feed the World." The views and opinions expressed in the articles below represent the views and opinions of the authors themselves, not the NCF-Envirothon or NC Envirothon staff or committee members. **

**Please note that PDF versions of the articles are included for ease of printing. Hyperlinks embedded within these PDFs are included for reference only, and are NOT official resources of the 2019 NCF-Envirothon competition. Hyperlinks to the articles' original forms are included at the bottom of the PDFs where applicable. **

Key Topic # 1 Resources

1. [Biodiversity conservation and agricultural sustainability: towards a new paradigm of 'eco-agriculture' landscapes](#) – Please note that the blue/greyed-out sections are NOT for study for the 2019 NCF Envirothon competition and are included for context only.
2. [Study: Bioenergy Decisions Involve Wildlife Habitat and Land Use Trade-offs](#) - **UPDATED**
3. [Could soils help save the climate?](#) - **UPDATED**
4. [Ecosystem services and agriculture: tradeoffs and synergies](#)
5. [Linking Ecologists and Traditional Farmers in the Search for Sustainable Agriculture](#)

Key Topic # 2 Resources

1. [Soil has a Microbiome too](#) - **UPDATED**
2. [Soil Health Growers](#)
3. [Soil Health and Soil Health Institute Featured on American Farmer TV Series \(Video – 9:00\)](#)
4. [The Hope in Healthy Soil' Video Series- Chapter 3: Do not Disturb- No Till Farming \(Video- 3:29\)](#)
5. [The Hope in Healthy Soil' Video Series- Chapter 5: The Benefits of Going Under 'Cover' \(Video- 5:57\)](#)

Key Topic # 3 Resources

1. [Beyond conservation agriculture](#)- Please note that the following sections are the ONLY sections for study for the 2019 NCF Envirothon competition:
 - a. The Many Shapes of Agriculture across the Globe (pg. 2)
 - b. Trade-offs Concerning Conservation Agriculture in Smallholder Agriculture (pgs. 8-9)
 - c. Assessing Current Approaches to Sustainable Intensification from Systems Agronomy Perspective (pg. 10)
 - d. How can Systems Agronomy Move Forward (pgs. 10-11)
 - e. Outlooks and Challenges (pg. 11)
2. [North Carolina Farm Family Awarded for Conservation Practices](#) - **UPDATED**
3. [Why Industrial Farms Are Good for the Environment](#) - **UPDATED**
4. [Organic Farming not always best for the planet](#) - **UPDATED**
5. [What is Sustainable Agriculture ?](#) - **UPDATED**

Key Topic # 4 Resources

1. [A Diversity of Bees Is Good for Farming](#)
2. [Cover Crops – Organic Farming](#)
3. [Farming for Bees](#)- Please note that the following pages are the ONLY pages for study in the 2019 NCF Envirothon competition (refer to page numbers in document): **pgs. 1-15; 26-29; 34-36**
4. [Forest Farming economic, environmental benefits](#) - **UPDATED**

Key Topic # 5 Resources

1. [Can meat actually be eco-friendly?](#) - **UPDATED**
2. [Sharing North Carolina Agribusiness Exports with the World](#) - **UPDATED**
3. [Urban Agriculture Could Potentially Produce a Tenth of the World’s Food. Is Grass Really the Best use of Your Yard?](#) - **UPDATED**

Key Topic # 6 Resources

1. [A controversial technology could save us from starvation ... if we let it](#) - **UPDATED**
2. [Battlefield](#)
3. [Biotechnology Frequently Asked Questions](#)
4. [Engineering Honesty: USDA Moves to Disclose “GMOs”](#) - **UPDATED**
5. [Opinion – When Genetic Engineering is an environmentally friendly choice](#) - **UPDATED**
6. [The Future of Agriculture](#)
7. [Next Generation –USDA...Learning Opportunities for new farmers 7 ranchers](#)
8. [Tech Savvy ... NC AG Technology](#)
9. [Breaking Ground](#)