



*Friday Notes* is designed to enhance communication among various agricultural sectors, educators, students, and the public who are interested in a variety of plant, animal, food, and environmental issues. *Friday Notes* advocates the pursuit of credible, unbiased, science-based information. Material contained in linked articles is from the original authors and does not necessarily reflect the views of CAST.

#### In This Issue....

[Animal Agriculture News](#)  
[Food Science & Safety News](#)  
[Plant & Environmental News](#)  
[International News](#)  
[General Interest News](#)

#### Announcements

Join the Minor Use Foundation on Feb. 5-9, 2024, in Madrid, Spain for the fourth Global Minor Use Summit #GMUS4. Discuss the challenges of specialty crop cultivation and international trade with regulators, growers, academics, and crop protection professionals. Learn more at <https://minorusefoundation.org/gmus-4/>.

#### CAST College Corner

[UC Davis](#) research shows that lab-grown meat may have a greater carbon footprint than retail beef.

USDA and [University of Kentucky](#) partner to break ground on a New Forage Research Building.

#### CAST Social Media

[Visit our website](#)

**May 26, 2023**

## Herbicide Resistance

Crops are starting to emerge in the United States, which means it is now time for farmers to fight a season-long battle with weeds. This is no easy task as weeds continue to evolve and [become more resistant to traditional herbicides](#).



Herbicide resistance is one of the greatest problems a farmer will face in a typical year, as rapid weed growth can decrease available water for the crop, use essential soil nutrients, and decrease yields.

Solutions to herbicide resistance can be complex, some suggest more [research and subsidies](#) would help producers better understand herbicide resistance in their fields. Others suggest rotating herbicides, using biological control, or creating an [integrated weed management plan](#). This is a challenge that will take many minds and many hands to innovate a solution.

Check out the CAST Commentary, "[Stewardship Challenges for New Pest Management Technologies in Agriculture](#)," published in May 2020. This paper identifies and explores the stewardship challenges of new pest management technologies for both growers and technology developers and offers recommendations on improving the stewardship of pest management technologies in agriculture.

## News and Views

**USDA Updates:** USDA has 1) announced [\\$394 million toward rural infrastructure](#), 2) invested [\\$265 million towards watershed infrastructure](#) to help communities prepare and recover from natural disasters, and 3) in conjunction with the Department of Homeland Security, cut the ribbon on the [National Bio and Agro-Defense Facility](#).



CAST [welcomes ideas](#) for future publications and projects.

## Far Side of the Barn

**Dairy Race:** [Indiana dairy farmers](#) will be an important part of the 2023 Indianapolis 500. The winner of the race will continue a nearly 90-year-old tradition with a glass of milk in the winner's circle.



## CAST Updates

### CAST Is Hiring!

Would you—or someone you know—be interested in joining CAST's communications team?

CAST is currently seeking a Communications Manager who will be responsible for planning, implementing, and evaluating effective CAST communications efforts. This includes but is not limited to, overseeing CAST's weekly e-newsletter *Friday Notes*, website, blogs, press releases, and social media platforms. For more information, visit [our website](#), or contact Anne Owens, Director of Council Operations, at [aowens@cast-science.org](mailto:aowens@cast-science.org). Please share with others you know who may be interested and qualified!

### Four BCCA Sponsors Announced

During the [2023 Borlaug CAST Communication Award \(BCCA\) announcement](#)—held during the CAST Board of Directors 2023 Spring Meeting in Washington, D.C. May 9-11—CAST EVP/CEO Kent Schescke was very pleased to announce that four organizations have committed to help sponsor the 2023 BCCA event. Sincere thanks to the [Association of Equipment Manufacturers](#), [CropLife America](#), [Innovation Center for U.S. Dairy](#), and [The Fertilizer Institute](#)!

Join Us in Welcoming  
Dr. Bentley to the  
BCCA Legacy of  
Excellence!



Allison Bentley  
2023



### Join Our Sponsors!

This unique CAST annual program has recognized and elevated outstanding science communicators around food and agriculture since 2010. If you and your organization would like to learn more about this important sponsorship opportunity, please contact Kent at [kschescke@cast-science.org](mailto:kschescke@cast-science.org) or 515.292.2125.

## Animal Agriculture and Environmental News

**BSE:** An [atypical case of BSE was confirmed at a South Carolina slaughter plant](#); however, the animal did not enter a slaughter line, causing no risk to human health.

**Grazing:** [Conservationists turn back to thousand-year-old practices](#) in more sustainable grazing practices.



Sheep and goats become a versatile and sustainable option  
to compliment beef operations in the Midwest.

**Ag Engineering:** [US News & World lists the best Agricultural Engineering programs.](#)

**Water:** [Iowa's nutrient management plan](#) aims to improve state water quality.

**Related to Above:** Check out CAST's, "[Reducing Impacts of Agricultural Nutrients on Water Quality Across a Changing Landscape](#)," released May 2019.

**WOTUS:** [The supreme court rules against the EPA](#) in recent WOTUS case.



[US farmers have a 90% chance of seeing El Nino](#) weather patterns this summer.

## Photo Credits

Far Side from phys.org. Food from stocksnap from pixabay. General from JanBaby from Pixabay. Unless otherwise noted, photos courtesy of the USDA Agricultural Research Service, Constant Contact, or CAST.

## *Societies, Companies, and Nonprofit Organizations Serving on the CAST Board of Representatives*

- \* Agricultural & Applied Economics Association
- \* American Association of Avian Pathologists
- \* American Association of Bovine Practitioners
- \* American Bar Association, Section of Environment, Energy, & Resources-Agricultural Management
- \* American Dairy Science Association
- \* American Farm Bureau Federation
- \* American Meat Science Association
- \* American Meteorological Society, Committee on Agricultural and Forest Meteorology
- \* American Seed Trade Association
- \* American Society of Agricultural and Biological Engineers
- \* American Society of Agronomy
- \* American Society of Animal Science
- \* American Society of Plant Biologists
- \* American Veterinary Medical Association
- \* Association of Equipment Manufacturers
- \* Aquatic Plant Management Society
- \* BASF Corporation
- \* Bayer Crop Science
- \* Corteva Agriscience
- \* CropLife America
- \* Crop Science Society of America
- \* Global Teach Ag Network
- \* Innovation Center for U.S. Dairy
- \* Iowa State University
- \* Minor Use Foundation, Inc.
- \* Mississippi State University
- \* National Cattlemen's Beef Association, a Contractor to the Beef Checkoff
- \* National Corn Growers Association/Iowa Corn Promotion Board
- \* National Milk Producers Federation
- \* National Pork Board
- \* National Turkey Federation
- \* North Central Weed Science Society
- \* Northeastern Weed Science Society
- \* Nutrients
- \* Penn State University
- \* Poultry Science Association
- \* Rural Sociological Society
- \* Society for In Vitro Biology
- \* Society for Range Management
- \* Soil Science Society of America
- \* Syngenta Crop Protection
- \* The Fertilizer Institute
- \* The Mosaic Company
- \* Tuskegee University
- \* United Soybean Board
- \* University of Nevada-Reno
- \* U.S. Poultry and Egg Association
- \* Weed Science Society of America
- \* Western Society of Weed Science

*CAST, through its network of experts, assembles, interprets, and communicates credible, balanced, science-based information to policymakers, the media, the private sector, and the public.*

## Members of CAST's Education Program

- \* Cornell University
- \* Iowa State University
- \* Kansas State University
- \* University of Arkansas System Division of Agriculture
- \* University of California-Davis
- \* University of Florida Institute of Food and



- \* Mississippi State University
- \* North Carolina Agricultural and Technical State University
- \* North Carolina State University
- \* Penn State University
- \* Purdue University Libraries and School of Information Studies
- \* Texas A&M University College of Ag & Life Sciences
- \* The Ohio State University
- \* Tuskegee University

- Agricultural Sciences
- \* University of Georgia
- \* University of Illinois College of Agricultural, Consumer and Environmental Sciences
- \* University of Kentucky
- \* University of Missouri-Columbia
- \* University of Nebraska Agricultural Research Division
- \* University of Nevada-Reno College of Agriculture, Biotechnology and Natural Resources

Dylana Luett (Communications and Social Media Specialist)  
 dluett@cast-science.org  
 The Council for Agricultural Science and Technology  
 4420 West Lincoln Way  
 Ames, Iowa 50014-3447  
 Phone: 515-292-2125



The Science Source for Food,  
 Agricultural, and Environmental Issues

*\*\* With assistance from Colleen Hamilton (Membership Specialist) and Charlotte Brockman (Communications Project Coordinator)*

*CAST provides Friday Notes as a benefit to its members. Please do not forward, edit, copy, or distribute the Notes in any form to nonmembers without the express permission of the CAST CEO/EVP Kent Schescke (kschescke@cast-science.org). Instead, please encourage your colleagues to join CAST and thereby become eligible for all membership benefits. Contact Colleen Hamilton at 515-292-2125 or [chamilton@cast-science.org](mailto:chamilton@cast-science.org), or [CLICK HERE](#) for CAST membership information.*

**Council for Agricultural Science and Technology**  
[www.cast-science.org](http://www.cast-science.org)

