



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 **Agrisafe Network** on **November 15 at 11 AM CST** for a free suicide prevention training session. The training is designed for agricultural communities and is open to anyone interacting with individuals in the agricultural industry, including agribusiness and rural business employers and employees.
[Register now!](#)

Join the **National Academy of Sciences** on **December 19-20** for a workshop on Effective Communication with the General Public about Scientific Research that Requires the Care and Use of Animals. This virtual workshop will explore public views on the care and use of animals in research and how scientists can communicate effectively with members of the public.
[Register now!](#)

November 10, 2023

Native American Heritage Month

November is recognized as [Native American Heritage Month](#), a time to celebrate and honor the rich heritage of Native American and tribal nations. It is an opportunity for us to reflect on the significant contributions made by Native peoples to shape our country, including their many contributions to agriculture and science throughout history.

Native practices have always prioritized a harmonious relationship with the earth, and these practices are now widely incorporated into regenerative agriculture. [The National Farmers Union](#) acknowledges the significance of intercropping, agroforestry, water management, and permaculture. These practices have greatly influenced regenerative agricultural research in North America.

In addition to guiding regenerative research, the USDA has launched the [Indigenous Food Sovereignty Initiative](#) to support Native Heritage and promote healthy diets within Native communities. This program encourages traditional diets through local gardens managed by indigenous practices. It also guides regenerative research to ensure sustainable practices for future generations.

News and Views

USDA: The USDA (1) is updating its [competition and innovation in seeds](#) initiative, (2) is investing over \$1.2 billion in loans and grants to [boost rural cooperatives](#), and (3) is launching a new initiative to further support and increase the competitiveness of [U.S. specialty crops](#).

Far Side of the Barn

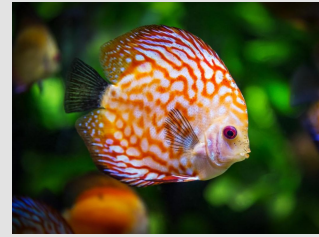
CAST Social Media

Visit our
website



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

Patterns: Researchers are revising Turing's theory on animal patterns with a new study on how [diffusiophoresis creates sharp patterns](#).



CAST Updates



Successful 2023 CAST Annual Meeting in College Station, TX: A Collaborative Gathering

From November 6 to 9, the vibrant city of College Station, Texas, played host to the 2023 CAST Annual Meeting, a pivotal event for all three governing boards - Directors, Representatives, and Trustees. The gathering, held at the heart of the Texas A&M University campus, saw a collaborative effort between CAST and Texas A&M AgriLife, marking it as a noteworthy success.

The meeting was a platform for extensive discussions, planning, and decision-making. Additionally, it provided a unique chance for CAST board members and work groups to meet in person, have insightful discussions, propose recommendations, and plan for future publications and projects.

The event's highlights included tours of Texas A&M and private companies'

research and manufacturing facilities, which allowed attendees to see the latest innovations up close and fostered an environment of collaboration and knowledge exchange.

For those who could not attend, comprehensive coverage of the 2023 CAST Annual Meeting will be delivered on Tuesday via a special edition of CAST Updates.

Heartfelt appreciation goes out to all the sponsors whose generous support contributed to the success of the 2023 CAST Annual Meeting. Additionally, our sincere gratitude extends to Texas A&M AgriLife for their invaluable partnership, without which this collaborative gathering would not have been possible.



OUR NEW PAPER IS OUT!

A NEW ISSUE PAPER BY **CAST** AND **IFT** EXAMINES **FOOD TRACEABILITY** TECHNOLOGIES TO ENHANCE **FOOD SAFETY, SOURCE TRANSPARENCY, AND CONSUMER CONFIDENCE.**

DOWNLOAD IT NOW!

CAST The Science Source for Food, Agriculture, and Environmental Issues | **IFT** Feeding the world that food the world

Animal Agriculture and Environmental News

Turkey: Wholesale prices for [whole frozen turkeys are decreasing](#), reaching their lowest monthly average since July 2021.

Cattle: Texas A&M researchers are investigating whether an [individual's microbiome](#) could impact coronavirus transmission in humans and cattle in an international project.

Stress: Researchers are using an [innovative electrical device](#) to monitor the temperature of individual cows in real-time to better understand their behavior while stressed.



Dairy: U.S. dairy consumption has been [steadily increasing](#), reaching over 11.5 million metric tons in 2022, a 15% increase from ten years ago.

Food Science and Safety News

Food Texture: The [texture of food](#) might be a determining factor for seconds and purchases, according to a Texas A&M study.

Farm-Free Food: Researchers are proposing the use of [synthesizing dietary fats](#) to reduce agriculture's adverse climate impacts on our food supply chain.

Food Waste: Europe can significantly reduce its demand for global food resources and associated GHG footprint by [reducing food waste by 50%](#) before 2030, according to recent calculations.



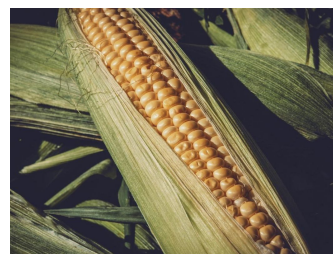
Peanuts: A "peanut patch" might become a safe and effective way to desensitize [toddlers' allergy to peanuts](#) by reducing the severity of allergic reactions due to accidental exposure.

Plant Agriculture and Environmental News

Water-hemp: A University of Illinois study finds that a [single gene controls water-hemp's resistance](#) to soil-applied herbicides.

Insecticides: The Eighth Circuit Court of Appeals has overturned the EPA's [ban on the use of the chlorpyrifos insecticide](#).

Invasive plants: A new study uses [drone technology and artificial intelligence](#) to analyze the efficacy of dropping natural enemy insects on invasive plants.



Corn: Researchers are hunting for [hard-to-spot genetic links](#) to improve crop and livestock breeding.

International News

Canada: Canada is taking measures to [safeguard its pork industry](#) in the event of an outbreak of African swine fever.

Ukraine: Ukraine will get [\\$550 million from the World Bank](#) to support agricultural producers' access to finance through concessional loans and grants.

Brazil: Brazil's agriculture ministry has extended the [national health emergency for 180 days](#) due to HPAI detection in wild birds.



China: China is expected to maintain [high soybean imports through Q4](#), potentially breaking all-time records for 2023.

General Interest

Agricultural Perception: A new study quantifies [perception gaps between North American farmers and consumers](#) on sustainability, technology, and land usage.

Farm Economy: According to October's Ag Economy Barometer, [farmer sentiment improves](#) as financial conditions on their farms get better.

Farm Trade: Dozens of US ag representatives [met with their Chinese counterparts in Beijing](#) to bolster farm trade despite strained political ties.



Retro Machinery: More and more farmers are now opting to [retrofit existing machinery](#) instead of investing in new ones.

Photo Credits

Unless otherwise noted, photos courtesy of the USDA ARS, Constant Contact, Pixabay, or CAST.

Ethiopia photo courtesy of Curtis Youngs.

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
- * University of Arkansas System Division of Agriculture

- * Kansas State University
- * 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

- * University of California-Davis
- * University of Florida Institute of Food and 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

Contact CAST:

cast@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

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 Chris Boomsma (cboomsma@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, or [CLICK HERE](#) for CAST membership information. For media inquiries, please contact our Communications Manager, Carlos Vianna, at cvianna@cast-science.org or 515-292-2125 ext 222.

Council for Agricultural Science and Technology

www.cast-science.org



Council for Agricultural Science and Technology | 4420 West Lincoln Way, Ames, IA 50014

[Unsubscribe](mailto:unsubscribe@cast-science.org) aowens@cast-science.org

[Update Profile](#) | [Constant Contact Data Notice](#)

Sent by cast@cast-science.org powered by



Try email marketing for free today!