

Friday Notes



The Science Source for Food, Agricultural, and Environmental Issues

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



Nominations are now open for the 2023 Borlaug CAST Communication Award, an honor that recognizes professionals actively working in the agricultural, environmental, or food sectors who are promoting agricultural science in the public policy arena. More nomination information can be [found on the CAST website](#).

Applications are due February 27, 2023.

The [USDA Agricultural Outlook Forum](#) is February 23-24, 2023.

CAST College Corner

A [University of Kentucky](#) study found that organic and inorganic selenium may increase beef cow fertility.

CAST Social Media

January 6, 2023

Satellite Technologies Shaping Agriculture in 2023

The world's first agri-focused satellite is preparing for launch from Cape Canaveral. This satellite constellation will [provide the agriculture and forestry industry](#) with



high-quality data. Images obtained from this satellite will deliver valuable information for harvest monitoring, application mapping, seasonal planning, and assessments that analyze information such as soil moisture, yield prediction and biomass levels.

An agricultural equipment manufacturer is in the process of finalizing a satellite partner. Their future goal is to create a geospatial map that farmers can use to [better track productivity](#) and the performance of crops.

News and Views

USDA Updates: The USDA 1) invested \$9.5 million to [develop new bioproducts](#) from agricultural commodities, 2) developed new tools to [identify COVID virus](#) in wild and domestic animals, and 3) the USDA, FDA, and U.S. Agency for International Development are launching the [Food Safety for Food Security Partnership](#), also known as FS4FS.

Ukraine War: Moscow blocks most shipments from Ukraine, one of the world's largest wheat producers, and its attacks on the energy grid also [disrupt the flow of food](#)—in turn worsening global starvation.

Opinion: In this opinion piece, Corey Rosenbusch of The Fertilizer Institute discusses the [need for carbon capture programs](#) to reduce GHG emissions.



CAST welcomes ideas for future publications and projects.

Far Side of the Barn

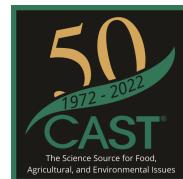
Snack Scarf: Hefty is selling a "snack scarf" to help you smuggle snacks out of parties—it comes in two sizes: quart and gallon.



CAST Updates

It's Time to Renew Your Membership for 2023!

The year of [CAST's 50th anniversary](#)—commemorating half a century of communicating the science, technology, and innovation so critical to the future of food, agriculture, and natural resources—has been very exciting and productive! We thank you for being a part of CAST's past and present, and now are asking you to continue your support in 2023 and beyond.



Please take a moment to renew your CAST membership for the coming year through the "Renew" button below.

Then along with your membership contribution, would you consider including an additional donation of \$50.00 toward CAST's next 50 years?

Any questions, please reach out to Colleen Hamilton, Membership Specialist, at chamilton@cast-science.org. Thank you for continuing your support of CAST's work and mission!

[Renew Membership](#)

Animal Agriculture and Environmental News

Poultry: A [poultry breeder webinar series](#) focusing on nutrition is now available at any time thanks to 13 poultry professionals.

BRD: A Texas A&M AgriLife researcher is taking a page out of human disease research to see if dogs might be able to [sniff out bovine respiratory disease](#) (BRD), one of the largest health challenges for the feedlot cattle industry.

PRRSV: Researchers from North Carolina State University modeled nine different potential transmission routes for porcine reproductive and respiratory syndrome virus (PRRSV), and found that [trucks can be carriers for disease spread](#).



Accurate parlor data enable dairy producers to get a [better handle on animal performance](#), as well as develop timely action plans for individual cows as needed.

Food Science and Safety News

Sesame: The FDA has added [sesame to its major food allergens list](#)—which also includes milk, eggs, fish, crustacean shellfish, tree nuts, peanuts, wheat, and soybeans.

Spice Containers: A study found that spice containers [pose contamination risk](#) during food preparation.

Marijuana Edibles: Edibles are often packaged to look like candy and children may find them appealing. Reports of young children [consuming them have soared](#).



Gourmet crops like cacao have enticed Puerto Rico islanders to return to agriculture, building a [burgeoning chocolate hot spot](#).

Plant Agriculture and Environmental News

Soybean Study: A Purdue University study shows that soybean oil for biofuels has [limited impact on overall food prices](#).

Wheat: Kansas State University researchers have [published a study quantifying the negative impacts](#) that the triple punch of heat, drought, and wind has had on wheat yields in Kansas and the surrounding region over the past 40 years.

Land Values: In 2022, farmers led land purchases while [setting record sales levels](#) in several states.



A startup in Hong Kong is trying to help coral adapt to the problems humans have caused—with its innovative use of [3D printing and terracotta](#).

International News

Agroforestry: A team in Brazil is planting [coffee plants, banana trees, and native trees](#) where row crops used to be grown in hopes of finding a new way of farming.

Male Chicks: Hatcheries in France must use in-ovo sexing technology to [stop male chicks](#) from being hatched.

Blockchain: India's natural farming could soon get a [technological push through blockchain](#), as the government plans to use the technology across all export-driven crops.



A Czech farm has to cull 220,000 chickens in the [country's largest bird flu outbreak](#).

General Interest

California Rain: Parts of drought-plagued California are facing an onslaught of powerful storms to start the new year, [bringing flooding rainfall to the state](#).

Germplasm Importance: At COP15, CIMMYT scientists [highlighted the significance of DSI](#) in conserving, exploring, and utilizing biodiversity as part of efforts to sustainably nourish the global population in a nature-positive manner.



CAST Issue Paper (related to above): Check out the publication, [Protecting Food Animal Gene Pools for Future Generations](#), released September 2019.

Two Purdue University professors have used a federal grant to [expand their safety and health training program](#) for beginning agricultural workers ages 12-20.

Photo Credits

Lead from Dragonfly Aerospace. Far Side from Hefty. Animal from [thetelegraph.com](#). Food from Jen Ruiz. Plant from [sanctuaries.noaa.gov](#). General from Hoards. 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
- * 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
- * Nutrien
- * 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
- * Zoetis

Members of CAST's Education Program

- * Cornell University
- * Iowa State University
- * 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 Arkansas System Division of Agriculture
- * 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

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 Nick Plaugher (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, or [CLICK HERE](#) for CAST membership information.

Council for Agricultural Science and Technology
www.cast-science.org

