



*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](#)  
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## Announcements

The webinar, "[Managing a PRRS outbreak: How can we progress to farm recovery?](#)" will be held on August 23, 2 p.m. EDT.

## CAST Social Media

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

**August 11, 2023**

## Reducing Food Waste Key to the Future

When thinking of feeding the world in the future, we often gravitate toward more technology and increasing production. However,



some [researchers are focusing on reducing food waste](#) to feed the future.

The World Economic Forum estimates that around [931 million tonnes of food go to waste globally each year](#), an estimated 17% of global food production. As the world population continues to increase, innovation in food waste will be essential.

This includes looking at innovation in established industries, such as dairy cows. New research looks at [cows as essential recyclers for agricultural waste products](#). This includes distillers' grains, almond hulls, and cotton seeds. All products that would traditionally be wasted can be recycled through the animals, and underutilized. This initiative has been led by Dr. Juan Tricarico, Senior Vice President of Environmental Research at Dairy Management Inc.

## News and Views

**USDA Updates:** The USDA (1) Invests nearly [\\$30 million in rural school nutrition programs](#); (2) releases the results of the [Cover Crops Survey](#) along with CTIC and ASTA; and (3) reveals that over 50% of cropland utilizes seed varieties [containing at least one genetically modified trait](#).

## Far Side of the Barn

**Invasive Worms:** The population of invasive

and toxic [hammerhead worms increases in Connecticut.](#)



## CAST Updates

### CAST Welcomes New AAAP Representative



We are very pleased to share that Dr. Mostafa Ghanem, Assistant Professor at the University of Maryland and Virginia-Maryland School of Veterinary Medicine, is the new CAST Representative for the American Association of Avian Pathologists (AAAP). Dr. Ghanem will be participating in the Animal Work Group.

"I am delighted to join CAST as the new liaison for the American Association of Avian Pathologists," says Ghanem. "This is an exciting opportunity to collaborate with experts across various fields and contribute to the mission of providing reliable, science-based information to inform policy, media, and the public. I am committed to fostering a strong partnership between AAAP and the broader agricultural community, and I look forward to leveraging our collective expertise to address challenges and opportunities in agriculture. Together, we can advance efficient and sustainable methods of food production while ensuring the health and well-being of both animals and consumers."

## Animal Agriculture and Environmental News

**Heat Stress:** New research shows [the effects of heat stress of cattle water requirements.](#)

**Cattle:** Origin of cattle in the Americas [traced back to ancient African DNA.](#)

**Cattle Breeding:** Australia is seen as a [safety net for rare livestock breeds.](#)



**A "swine flu" strain has reportedly passed from animals to humans nearly 400 times since 2009.**

## Food Science and Safety News

**Beans:** Unique Mexican black and pinto beans are found to be [high in healthy compounds.](#)

**Plant-based milk:** Pasteurization and sterilization [affect the look and feel of coconut and rice milk.](#)

**Chicken:** [Tyson will shut more U.S. processing](#)



[plants](#) in three states after a challenging third quarter.

New research examines the connection between [air pollution and the rise of antibiotic resistance](#).

## Plant Agriculture and Environmental News

**Climate:** Purdue University leads projects in the Midwest that [aim to double the impact of climate-smart ag](#).

**Food Supply:** As temperatures rise the [food supply and commodity crops face stressors around the world](#).

**Computer Science:** As the world population grows, [computer science may help farmers increase production around the world](#).



**Nearly 30 invasive fruit flies prompted a produce quarantine in Los Angeles.**

## International News

**Ukraine:** The world watches as [Central Europe's ban on Ukrainian grain](#) reaches the one-month mark.

**Turkey:** [Farming and food systems are left in disarray](#) after earthquakes earlier this year.

**Paraguay:** U.S. and Paraguay talks [lead closer to trade between the two countries](#).

**Brazil:** Agriculture Secretary Tom Vilsack prompts Brazil to [speed up mad-cow testing](#).



**Japan will hold the [5th Annual Cellular Agriculture Conference](#) in Tokyo.**

## General Interest

**Sensing Technology:** Advanced sensing technology [tracks pollinator activity](#) to improve crop yields and address declining bee populations.

**Fuel:** A new cover crop has been developed to be used for [renewable aviation fuel](#).

**China:** A [new lab-grown meat company is piloting a new product](#) while watching the U.S. market.



**The Black Sea wheat war could lead to a [mutual grain deal between Ukraine and Russia](#).**

## Photo Credits

Unless otherwise noted, photos courtesy of the USDA Agricultural Research Service, Constant Contact, or CAST.

Hammerhead worm photo from [Hammerhead Worm | National Invasive Species Information Center](#)

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- \* 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

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The Science Source for Food,  
Agricultural, and Environmental Issues

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