

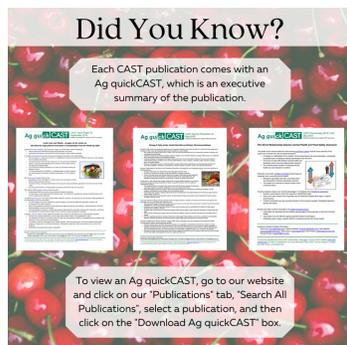


Friday Notes is designed to enhance communication among various agricultural sectors, educators, students, and the public who are interested in a variety of plant, animal, food, and environmental issues. *Friday Notes* advocates the pursuit of credible, unbiased, science-based information. Material contained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

In This Issue....

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Announcements



If you don't have time to read one of CAST's full publications, each one comes with an Ag quickCAST—a one page executive summary—that can be found on [each publication's page](#).

Jayson Lusk ([2017 BCCA](#)) shares the results of a [new, monthly survey of U.S. food consumers](#).

A February 17 [Agri-Pulse webinar](#) sponsored by the National Pork Board will feature Sara Crawford, Frank Mitloehner ([2019 BCCA](#)), and Dale Stevermer.

CAST College Corner

The [University of Nevada-Reno](#) has set up a fund to help CABNR students who have been affected financially, emotionally, and physically by the pandemic.

A [Mississippi State University](#) beef cattle specialist has been recognized for her service and

February 11, 2022

Climate Smart Agriculture

The USDA will [invest \\$1 billion in pilot projects](#) to promote farming, ranching, and forestry practices that cut greenhouse gas emissions or capture carbon. [Reactions to the proposals](#) came from policymakers, agriculture organizations, foundations, nonprofits, and more.



A [recent CAST Commentary](#), *The Role of Agricultural Science and Technology in Climate 21 Project Implementation*, summarized key recommendations and priorities from an earlier government initiative.

Companies, organizations, and societies are also involved in "climate smart activities," and many universities are developing solutions for environmental issues. Iowa State University experts have joined others to focus on [climate-resilient food, energy, and wealth-producing systems](#). Two specific examples of such practices coming from ISU research include 1) saturated [riparian buffer strips](#) and 2) [prairie strips](#) planted next to cropland.

News and Views

USDA News: The department released 1) its latest [World Agricultural Supply and Demand Estimates](#), 2) an online tool that allows farmers and ranchers to anonymously [report potentially unfair and anticompetitive practices](#) in the livestock and poultry sectors, and 3) results showing that American agricultural [exports shattered records](#) in 2021.

Importance of Research: A Kansas State University economist is looking at ways to combine [on-farm experiments with technology](#) to develop management practices.

Extension Education: Alexa Lamm ([2020 BCCA](#) and outgoing editor of the *Journal of International Agricultural and Extension Education*) explains the importance of [education, research, and extension](#) activities.

Women in Science: February 11 is the [International Day](#) of Women and Girls in Science.

research with one of the most prestigious honors in the field of animal science.

The [North Carolina A&T State University](#) is hosting Small Farms Week March 21-26.

CAST Social Media

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

Far Side of the Barn

Classic Super Bowl Ads (videos): This page shows some of the top agriculture-related commercials that have been [featured during the Super Bowl](#)—including the "herding cats ad."



Super Bowl Clydesdale (video): This year's ads include the [return of a resilient Clydesdale](#), [a loyal dog](#), and stunning mountain scenery.

Tackling Food Waste (video): Pete Davidson—and others—get tackled hard in a food company's [Super Bowl ad to create awareness about food waste](#).

CAST Updates

CAST Welcomes a New Student Assistant



Rachel Bauler recently joined CAST as the new Student Administrative Assistant of Finance and Membership. She is looking forward to learning more about keeping track of daily financial statements and database usage, but also using many of her creative skills to help around the office.

Rachel grew up as the oldest of three girls on her family's heritage farm. She is currently attending Iowa State University and wants to continue her passion for agriculture by educating the community and her future students. [Learn more about her here](#).

Animal Agriculture and Environmental News

Beef Power: Even through the height of the pandemic, U.S. [beef remained a winner](#) at the meat case and this ag economist doesn't expect that to change anytime soon.

Avian Influenza: The USDA confirmed the presence of [highly pathogenic avian influenza](#) in a commercial turkey flock in Indiana.

Flock Biosecurity: The [Defend the Flock Resource Center](#) brings together biosecurity information and free resources from the USDA and many other experts.

Poultry Research: Scientists discovered an immune pathway in chickens that viruses tend to target, and this could shed [light on immune responses to zoonotic viruses](#).

Indoor Equine Research: Plenty of research exists surrounding outdoor equine and livestock arenas, but these University of Kentucky experts are [focusing on indoor facilities with a new multi-year study](#).



This West Texas A&M University grad student shares what she's learned about choices and [practices in modern pig housing](#).

Food Science and Safety News

Olympic Food Goes High-tech (video): [Robots and high-tech vending machines](#) are providing food for participants and journalists at the Beijing Olympics Village.

Food and Nutrition Study: North Carolina State University is part of a study with the NIH to [examine personalized and precision nutrition](#).

Microbiome Influence: Researchers are [investigating how the microbiome—the bacterial ecosystem—regulates](#) how people think and feel.

Egg Care: This article offers some cold weather egg tips that might help prevent [cracked or fully frozen](#) chicken eggs this winter.

Food Price Inflation: The USDA ERS released their [food price outlook](#) for 2022.



The USDA announced revised [school nutrition standards](#)—including updates to milk, whole grains, and sodium.

Plant Agriculture and Environmental News

Bio-butanol: Scientists from The Ohio State University and ARS have [devised a procedure](#) for making bio-butanol from sweet sorghum bagasse.

Annual Seed Week: The Crop Science Society of America [celebrates Seed Week](#) with a site posting links to guest blogs, science news, videos, and other scientific information.

Crop Yields: Mark Lynas looks at research from the University of Nebraska-Lincoln that [examines crop yield gains](#) in relation to climate conditions, agronomic improvements, and genetic advancements.

Eggplant Pre-breeding Project: Researchers in Spain are trying to [produce eggplant varieties that are resilient](#) to climate change stresses.

Fruit or Vegetable? Plants are a funny thing—they are [treated differently](#) in the world of botany than in day-to-day life.



This University of Arkansas [podcast includes information](#) about an improved method for carbonated beer, nocturnal pollinating moths, and weedy rice research.

International News

Hamsters and COVID-19: Sneezing hamsters sparked a COVID-19 [outbreak](#) in Hong Kong.

Livestock in the Netherlands: The Dutch government unveiled a [plan to radically reduce the number of livestock](#) in the country as it struggles to contain an overload of animal manure, but the program is getting backlash from farmers.

Oil and Water: An [oil spill has contaminated a protected area of rainforest](#) in the Ecuadorian Amazon and polluted the Coca River that supplies water to Indigenous communities.

Peru Pig Production: Due to increased production and consumption, Peru's [pig industry is increasing rapidly](#).

Bee Wars: Asian [honeybees use feces](#) to ward off the cousins of dangerous "murder hornets." Check out the CAST Commentary, [Why Does Bee Health Matter?](#)



Global [waste also comes in the form of fashion clothing](#), and a desert in Chile is suffering the consequences.

Space-Time: For the first time, it is possible to see the [quantum world from multiple points](#) of view at once. This hints at something very strange—that reality only takes shape when we interact with each other.

Preparing the Field: An Iowa State University alum has a role in [preparing the field](#) for the Super Bowl on Sunday.

Sci Comm: Science Communication Week at Penn State aims to [introduce researchers](#) to the broader science communication community.

Lures: Two seniors at the University of Nebraska-Lincoln have their own custom lure business after they took a class that challenged them to [develop a business with \\$50](#).

Carbon Pipelines: A flurry of proposed carbon pipelines in the U.S. Midwest has triggered a battle over [eminent domain](#).



As the pandemic and burnout affect teachers nationwide, this [dairy-farmer-turned-ag-teacher](#) has kept [her passion](#) and enthusiasm.

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- * 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
- * Corteva Agriscience
- * CropLife America
- * Crop Science Society of America
- * Innovation Center for U.S. Dairy
- * Iowa State University
- * 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
- * Penn State University
- * Poultry Science Association
- * Rural Sociological Society
- * Society for In Vitro Biology
- * Soil Science Society of America
- * Syngenta Crop Protection
- * The Fertilizer Institute
- * The Minor Use Foundation
- * 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

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.

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The Science Source for Food,
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