



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



The Irrigation Association recently hosted a joint webinar with the California Landscape Contractors Association and the National Association of Landscape Professionals: [“California Drought and New Water Restrictions.”](#)

CAST College Corner

[The Ohio State University](#) researchers find climate change is harming pine forests; trees starve and disease thrives.

[Texas A&M University's](#) international team finds connections between more H2A workers and lower inflation.

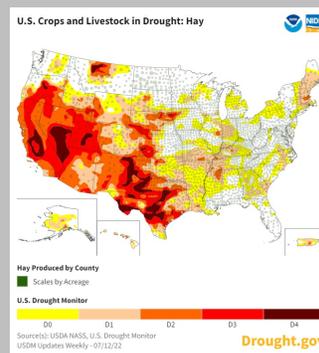
[University of Missouri](#) researches aim to better understand animal production issues.

[Iowa State University](#) received a grant to look at breeding

July 22, 2022

Implications on Agriculture from the Drought

More than 40 million people in the United States [were under a heat advisory this week](#). As climate change raises temperatures, heat waves are becoming increasingly dangerous.



Part of the country is also experiencing drought conditions. As the drought worsens, [weaning calves earlier than normal](#) may become necessary for producers. Producers need to keep an eye on their livestock watering systems, as [hot weather increases the chance of algae growth](#).

According to the [National Integrated Drought Information System](#), drought can reduce both water availability and water quality necessary for productive farms, ranches, and grazing lands, resulting in significant negative direct and indirect economic impacts to the agricultural sector. All of which can impact agricultural production, critical ecosystem functions that underpin agricultural systems, and the livelihoods and health of farming communities.

News and Views

USDA Updates: 1) The USDA makes it easier for American [farmers to grow food](#) and has eased burdens for American families. 2) Urban [producers and the public are invited](#) to attend the Federal Advisory Committee for Urban Agriculture and Innovative Production on August 5.

Heatflation: Soaring temperatures in Europe have [impacted agricultural production](#) and look set to have a knock-on effect on food costs.

mung beans for the plant-based protein market.

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Far Side of the Barn

Beer for Sunflower

Oil: A German brewpub has found a novel way to beat Europe's cooking oil shortages—letting

[customers pay for their beer with sunflower oil](#)

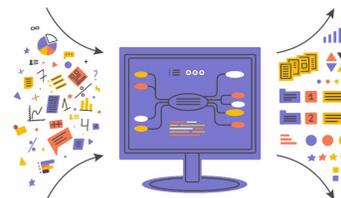
to ensure plentiful stocks for frying schnitzels.



CAST Updates

New Impact Report Available

The six-month impact report for the CAST Commentary—*Goals, Strengths, and Limitations Governing the Use of Life Cycle Assessment (LCA) in Food and Agriculture*—[is available for viewing](#).



This publication was released in January 2022. Taskforce members and contributors included

- Dr. Marty Matlock, Chair, University of Arkansas
- Dr. Stephen Pfister, ETH-Zurich
- Dr. Brad Ridoutt, Commonwealth Scientific and Industrial Research Organisation (CSIRO) Agriculture and Food
- Dr. Kurt Rosentrater, Iowa State University
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CAST provides many resources, including this weekly newsletter you're reading, that help you stay up to date with what's happening in agriculture. CAST's *Friday Notes*—a member benefit—can serve as a "one-stop" shop for insight into the latest animal, plant, food science, and general agricultural news.

[By joining CAST for free](#) as a student currently enrolled at an accredited college or university, you will be entered into membership with an organization that holds over 500 individual members from 47 states and 15 countries—as well as partnerships with 26 scientific agricultural societies, 20 companies, 40 nonprofits, 18 university libraries, and 17 universities across the U.S.! Your CAST membership is a great addition to your growing professional network and knowledge base. By joining the ranks of the folks mentioned above, you will have access to *Friday Notes*, CAST publications, and other resources that thousands use weekly to remain knowledgeable in current scientific and agricultural events.

Are you a professor within an agricultural department at a university? Encourage your students and advisees to join for access to CAST's excellent resources!

Take advantage of this opportunity to help CAST keep you better informed!

Possible Rail Worker Strike: Continued [issues shipping livestock feed](#) and other products via rail are growing more severe.

ASF Surveillance Plan: The USDA APHIS is updating the [Swine Hemorrhagic Fevers: African and Classical Swine Fevers Integrated Surveillance Plan](#).

Feral Cattle: A state cattle growers association has [reached an agreement](#) with the USDA on how to deal with feral cattle.



Two new studies show that domesticated [chickens were initially friends, not food](#).

Food Science and Safety News

The Scoop: Research from the USDA shows U.S. [frozen dairy consumption is down](#) over a 20-year period.

Food Waste Management: Here's why the food waste management [industry is set to boom](#).

Growing Food Demand: The American Farm Bureau Federation is urging the USDA to [help remove barriers](#) to meeting growing food demand.



A new popcorn variety [promotes growth of beneficial bacteria](#) in our gut.

Plant Agriculture and Environmental News

Berries Instead of Corn: Mexican berry production has grown to the extent where it has displaced corn as the crop of choice in areas. As a result, Mexico now [has to import 37 percent of the corn](#) it needs.

Plants Making Aspirin: Plants protect themselves from environmental hazards like insects, drought, and heat [by producing salicylic acid](#), also known as aspirin.

Wheat Harvest: A national association is reporting this year's winter wheat [harvest has exceeded expectations](#) despite lower production estimates.



Amid drought in the U.S. West, growers will [abandon three of every ten acres of cotton](#) they planted this spring, estimated the Agriculture Department.

International News

Importing Cows: Ukraine is [asking allies for 50,000 dairy cows](#) to subsidize herds lost in war, as the fear of food insecurity continues.

Grain Blockade: Talks between Russia and Ukraine may soon culminate in an [agreement to lift the Russian blockade](#) of the Black Sea port of Odesa, enabling Ukraine to resume exports of grain.



China's [pork output is at its](#)

Wildfires in Europe: Emergency services battled [wildfires across swathes of southern Europe](#) amid mass evacuations.

[highest](#) in years after their herds recovered from African Swine Fever.

General Interest News

Lawn and Landscapes: A Kansas State University horticulturist gives insight and tips for [maintaining your lawn and landscape](#) in summer months using water conservation.

Boost for Beginning Producers: More than half of American farmers will reach retirement age in the next ten years. The steep price of entry to start a farm, along with rising input costs and volatile markets, make it tough for [young and beginning farmers to take their places](#).

Diesel Prices: High diesel prices are magnifying the costs of goods and are [squeezing truckers, farmers, and consumers](#).



During the COVID-19 pandemic, drug-resistant infections and resultant fatalities [increased in hospitals by 15%](#).

Photo Credits

Lead from drought.gov. Announcements from growlermag.com. Far Side from REUTERS/Lukas Barth. Food Sci from Devon Breen from Pixabay. General from bio.news. Unless otherwise noted, photos courtesy of the USDA Agricultural Research Service, Constant Contact, or CAST.

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- * 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
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- * American Veterinary Medical Association
- * Association of Equipment Manufacturers
- * Aquatic Plant Management Society
- * BASF Corporation
- * Bayer

- * 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
- * Society for Range Management
- * Soil Science Society of America
- * Syngenta Crop Protection
- * The Fertilizer Institute
- * The Minor Use Foundation
- * Tuskegee University
- * United Soybean Board
- * University of Nevada-Reno

- * Corteva Agriscience
- * CropLife America
- * Crop Science Society of America
- * Innovation Center for U.S. Dairy
- * Iowa State University

- * U.S. Poultry and Egg Association
- * Weed Science Society of America
- * Western Society of Weed Science
- * Zoetis

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