Hurricane Dorian ravaged the Bahamas and continued up the east coast of the United States. These videos and photos taken from above show the destructive reach of Hurricane Dorian.

Scholarship Recipient
The Poultry Science Association Foundation announced Laney Froebel (Texas A&M) as the recipient of the 2019 Dr. James H. and Shirley H. Denton Endowed Memorial Scholarship.

Coming Events
NC State’s Food Animal Initiative is hosting the first international symposium on Precision Systems and Data Analysis in Animal Agriculture—September 9-10 in Raleigh, North Carolina.

College students can check out the Animal Agriculture Alliance’s annual College Aggies Online Scholarship.

News and Views
Farmer Confidence Falls: Although government payments to farmers seem to be helping, overall farmer confidence is plummeting, according to a Purdue University poll.

Trade Possibilities: China and the United States agreed to hold high-level talks in early October, and U.S. farmers hope the announced trade deal with Japan will yield benefits, as they cope with international markets that have been affected by tariffs.

Light Bulb Regulations Change: The Trump administration continued its deregulatory focus by scrapping a rule that would have phased out less energy-efficient incandescent bulbs.
CAST Report Now Available in Spanish
Gene Flow in Alfalfa

This influential CAST report describes the biology and agronomic practices in alfalfa that should be considered in developing coexistence strategies to allow growers to have choices, specifically between genetically engineered (GE), conventional, and GE-sensitive markets in the United States. The original report was released in English in September 2008 and is now available in Spanish. Both versions are available as free downloads from the CAST website.

Spanish Version: Fluojo de Genes en Alfalfa: Biología, Mitigación y Efectos Potenciales en la Producción


Translator Susana Fredin

Susana Fredin received the CAST President's Award from Kent Schescke, CAST EVP, in Washington, D.C., on April 21, 2016. Susana has translated many CAST publications into Spanish, from 12-page commentaries to lengthy issue papers, as well as several one-page Ag quickCAST documents. By doing so, she has enabled CAST to reach a range of readers around the globe with credible science-based information, readers who otherwise might not have been able to benefit from our publications. The President's Award recognizes those individuals who have personally contributed to the advancement of CAST and who have furthered the cause of agriculture, science, and technology in a world so dependent on all three disciplines.

Click here to read various translations from Fredin—plus translated papers from other experts.
Livestock and Climate (video): Dr. Frank Mitloehner explains how greenhouse gas emissions from burning fossil fuels differ from those produced by livestock. Note: Mitloehner is the 2019 BCCA recipient, and he will present at a CAST breakfast event during the World Food Prize October 16. Watch for details coming soon.

What Makes a Chick Tick? (video): According to this veterinarian, it is important to educate non-farm audiences about a chicken's inherent needs and preferences.

VFD Regulations: The USDA published a summary assessment of inspection activities related to its Veterinary Feed Directive (VFD) regulations—looking at the use of antimicrobial drugs.

Egg Safety: With the help of the egg industry, the USDA, and academia, USPOULTRY is introducing a new shell egg-washing training module.

A Look at the Unpredictable Hog Market: Summer is ending and the big productive capacity of the U.S. pork industry will kick into high gear as temperatures moderate and new-crop corn makes its way into feed.

Calculators, Sugar, and Enzymes: This corporation developed an online calculator to help dairies develop products with less sugar.

Cattle in Paradise: Hawaii's cattle industry dates back more than two centuries, and producers are now interested in getting their story across about how beef production weaves in with the community and land conservation.

A Growing Problem (video): A report in The Atlantic attempts to explain why there are more obese Americans today than in the 1980s—and why even if people eat healthy and exercise, it is easier to be obese today.

We'll Have What They're Having (video): Students turn the dining hall into a dance floor at North Carolina A&T State University (related links in caption at right).

Blinded by Diet? Researchers concluded that a young man's "junk food" diet and limited intake of nutritional vitamins and minerals resulted in the onset of nutritional optic neuropathy.

Focus on Diets: This systematic global analysis examines dietary risks and
champions balanced diets that include animal proteins. The study focused on 195 countries during 28 years.

Dietary Guidelines Debate (opinion): Regarding the 2020 dietary guidelines, some experts say the administration is narrowing the research that can be used and potentially leaving key information out.

Target, Measure, Act: Instead of a one-size-fits-all solution to solving the food waste crisis, this report proposes a simple three-step system that they say can be implemented across the planet.

Eyes Bigger Than Stomachs: Ohio State researchers found that people overestimate how much food they will eat from their refrigerators, adding to the nation’s food-waste problem.

Waste Research: Click here to access the CAST Issue Paper Food Loss and Waste, a paper in the series on The Need for Agricultural Innovation to Sustainably Feed the World by 2050.

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**Plant Agriculture and Environmental News**

**Informing the Public (video):** This new video from GMO Answers explains how the organization communicates information about genetically modified organisms.

**Support for Soy Checkoff:** With resounding support from U.S. soybean farmers for their soy checkoff, the USDA will not conduct a referendum this year but instead will continue the organization’s research and promotion efforts.

**Feedback from the Fields:** This interactive map provides reports about crop conditions and yields.

**Carbon Questions:** A new Iowa State study on agricultural land use calls into question conclusions made by previous studies that say recent land-use changes have caused the United States to take up more carbon than it emits.

**Capturing Phosphate:** A Cornell University researcher’s work uncovered the function of a pair of plant genes that could help farmers improve phosphate capture, potentially reducing the environmental harm associated with fertilization.

**Crop Conditions from a Farmer’s Perspective (podcast):** The National Corn Growers Association spoke with an Illinois grain farmer about yields, crop quality, and the difficult growing conditions this year.

**A Sinister Corn Maze:** A cornfield can turn into a death trap if a young child gets lost in its tall stalks. This blog looks at an incident from the past that pulled the community together in a rescue effort.

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**International News**

**Herbicide Ban (video):** The German government will join Austria in a ban of glyphosate. The makers of the herbicide say extensive research confirms the chemical is not carcinogenic if used properly.

**Unintended Consequences?** Carbon and biodiversity losses in Asia resulting from palm oil development have spurred calls to slow sales and limit forest losses. This Purdue University study looks at the various repercussions these actions could incur.

**Tariff Easing, But?** Though the Brazilian
People in flood-prone Bangladesh are coping with rising water levels by using innovation and resilience. The changing climate is affecting crops, habitats, and careers.

In a Star Wars-like setting in the Mojave Desert, a solar car created by a team of Cal Poly students eclipsed 50 mph, just shy of a world record.

The government announced an easing regarding tariffs on certain ethanol imports, ethanol and grain-interest groups said Brazil should fully open its doors.

**The Greening of Paris**: France’s rooftop vistas are changing, and one development in Paris is turning a flat roof into the world’s largest urban farm.

**Ag Tech in the Sub Continent**: This report looks at the ways India has been turning to technology to improve dairy productivity and animal health.

**Beaked Whale (video)**: While headlines announce that Japan has resumed whale hunting, a new beaked whale species has been discovered there.

**General Interest News**

**Preserving the Past (video)**: Tuskegee University participated in a program this summer that aims to bring students working toward architecture degrees into historic preservation and related career paths.

**Tagging Bees for Research**: This Purdue University lab has thousands of honey bees tagged. Using radio waves, sensors can capture simple data to learn about bee colonies.

**Community Health**: This University of Nevada-Reno graduate works with the community by teaching nutrition programs to low-income families.

**Locks, Dams, and Ag**: A USDA report shows investing in the Mississippi and Illinois River lock and dam system can boost agricultural sales and improve prices for farmers.

**Wind Energy Challenges**: Wind turbines are made to be sturdy, but they don’t last forever. Recycling some of the material can be a challenge.

**CAST Information**

Check out CAST’s page at the [YouTube site](https://www.youtube.com) to view highly regarded ag-science videos about probiotics, food safety, and water issues—or the latest video dealing with proposed mandatory labeling of GMO food items.

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