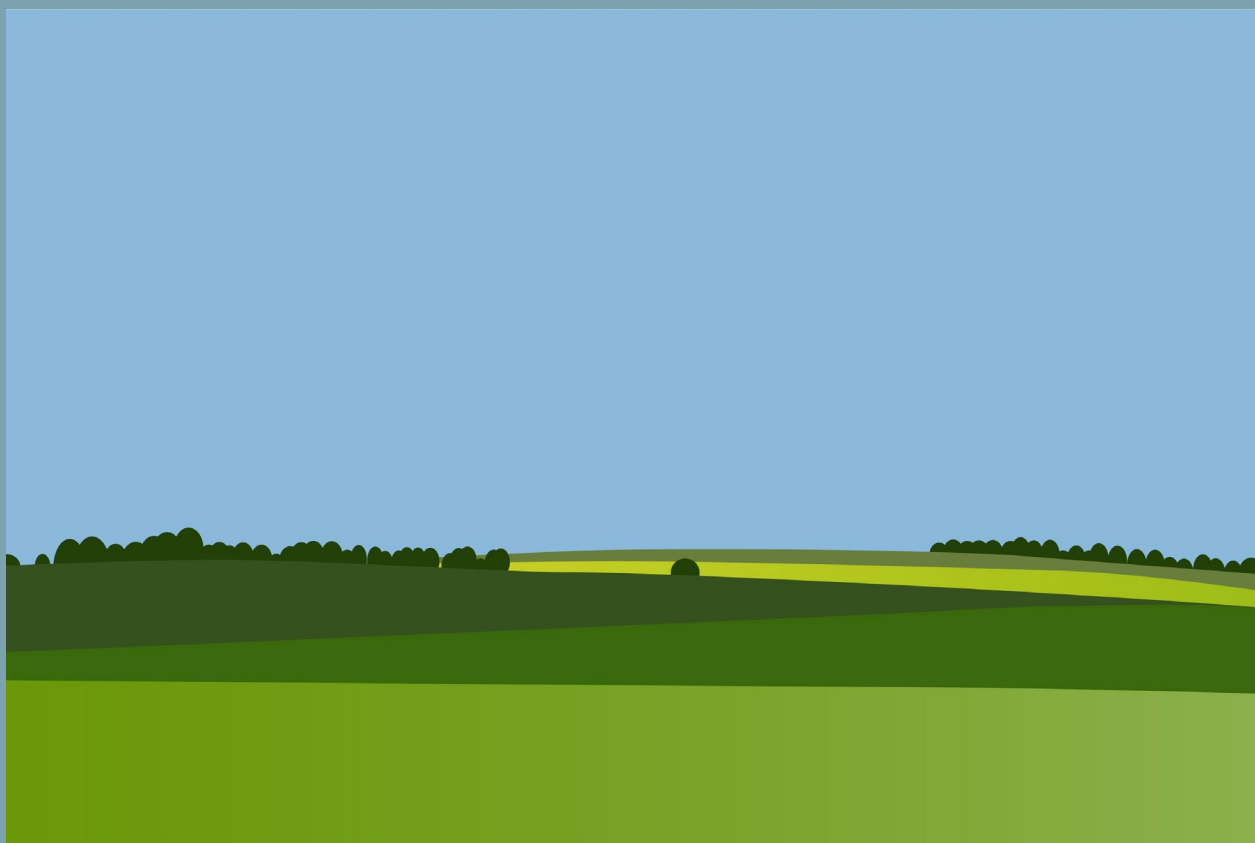


**INSTITUTE OF WORLD
AGRICULTURAL MARKETS**

MEDIA DIGEST

12.06 – 18.06.2023



THREE MAIN TOPICS

- **Russian Ministry of Agriculture and PhosAgro Expand Cooperation in the Field of Agricultural Education**
- **First Bachelor's Degree in Organic Agriculture in Russia**
- **SibFU Scientists Elaborated a Project for a Mushroom Farm on the Moon**



EDUCATION

EDUCATION / 15.06.2023

President Opens Ghana's National Aquaculture Centre

Ghana's President, Nana Akuffo-Addo, recently opened the 12 million dollars National Aquaculture Centre, in Accra, which aims to promote RAS technology, train 90 young graduates every year and produce 25 tonnes of tilapia, 25 tonnes of catfish and 4 tonnes of prawns per year. The President said that the project was a major component of government plans to produce more quality fish products, and create more jobs for graduates. [The Fish site](#)

EDUCATION / 16.06.2023

Russian Ministry of Agriculture and PhosAgro Expand Cooperation in the Field of Agricultural Education

Russian Minister of Agriculture Dmitry Patrushev and CEO of PJSC PhosAgro Mikhail Rybnikov have signed an additional agreement on cooperation in agro-industrial complex on the sidelines of SPIEF. The document will expand existing educational programs and create a new one devoted to the development of digital competencies. One of the promising areas of cooperation is developing computer literacy of students and agricultural producers to optimize business processes in the field of agriculture. [Russian Ministry of Agriculture](#)

EDUCATION / 16.06.2023

First Bachelor's Degree in Organic Agriculture in Russia

Russian State Agrarian University named after K.A. Timiryazev has launched an admission campaign for a new speciality in the field of Organic Agriculture within the direction of Agrochemistry and Agrosoil Science. The university became the first in Russia to start training specialists in organic agricultural production. Applicants can apply for a new program from June 17. [Svoe Fermerstvo](#)



 SCIENCE

SCIENCE / 13.06.2023

SibFU Scientists Elaborated a Project for a Mushroom Farm on the Moon

Researchers at the Siberian Federal University (SibFU) have proposed the design of modules for an interplanetary station that will be able to supply astronauts with an important product — mushrooms. According to scientists, their farm will provide the most efficient yield per 1 m2 of sown area. This was reported on the website of the university with reference to Heliyon. [GlavAgronom](#)

SCIENCE / 16.06.2023

Crushed Rock in Farm Soils Could Boost Carbon Capture

According to research scientists, calcium and magnesium-rich silicate rocks ground into small particles of less than 2mm have been found to accelerate natural carbon dioxide (CO2) sequestration, and potentially improve crop production and soil health. It is the first initiative of its kind to provide an integrated, whole-system assessment of the scientific, societal, and scalability opportunities for ERW deployment in UK agriculture. [Agriland](#)



SCIENCE / 16.06.2023

American Scientists Examine Ways to Adapt Plants to Climate Change

American researchers studied the impact of climate change on three factors at once: the planted area, the harvested area and the yield of the crop in that area. "Yield is important, but an exclusive focus on yield stability severely constrains the solution space. If we want to have greater flexibility in adapting agriculture to climate change, we should focus on ways to stabilize planted and harvested areas too. The producers' decisions on cropping patterns can play a crucial role in stabilizing food production," said one of the scientists.

[AZOLifeSciences](#)

SCIENCE / 16.06.2023

A Newly Identified Protein Confers Drought Tolerance to Plants

Researchers at CRAG have characterized for the first time the function of AtMC3, a protein of the metacaspase family that is involved in drought tolerance. When researchers increased the levels of AtMC3, plants increased survival rate and their ability to maintain their photosynthetic capacity in water scarcity conditions, indicating that AtMC3 alone can confer enhanced drought tolerance. More importantly, the altered levels of this protein did not cause any detrimental changes in plant growth, which "is a key finding to be able to fine-tune early drought responses at the whole plant level without affecting growth or yield in crops".

[AgNews](#)



INNOVATION

INNOVATION / 13.06.2023

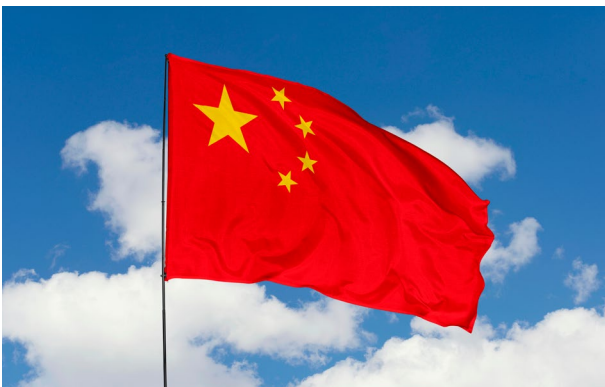
GRoW Tomato Harvesting Robot in the Netherlands

The GRoW harvesting robot, developed jointly by Ridder and MetoMotion, will harvest at Axia Vegetable Seeds greenhouses in the Netherlands. This demonstration gives the opportunity to see and experience the GRoW robot in a high-tech greenhouse. As a reminder, Axia Vegetable Seeds is a leading innovative breeding company specializing in the search for vegetable seeds for protected open and closed ground. [GlavPahar](#)

INNOVATION / 14.06.2023

In China, Presented a Hydrogen-Powered Tractor with an Autopilot Beidou

CHIAIC, the National Institute of Agricultural Machinery Innovation and Creation of China, has officially unveiled an upgraded version of the innovative ET504-H self-driving autonomous tractor powered by hydrogen and electricity. The new version of the smart tractor prototype now uses a number of new positioning sensors, cameras, navigation systems, and most importantly, a new autopilot from Chinese digital giant Beidou. The robot has also become better adapted to small ground operations, including working on fields with a slope, in hilly or even mountainous areas. [GlavPahar](#)



INNOVATION / 14.06.2023

Technology to Identify Tuber Size Could Be Rolled out in Ireland

A new technology, based on a 3D camera system, is helping potato growers to identify the size and weight of a tuber at exact locations within a field. HarvestEye has been specifically designed to allow growers to identify the size and specific weight of potatoes across an entire field in total detail. It's understood the information can be used to determine future cropping practices. [Agriland](#)

INNOVATION / 14.06.2023

Scientists Found a New Way to Grow Plants in the Northern Regions of Russia

A group of scientists belonging to the world-class Scientific Center "Agrotechnologies of the Future" has developed light culture technologies (light recipes) for autonomous modular mobile cultivation of basic salad green plants in an intensive cultivation system that will be installed in the Arctic zone. The technology is relevant not only for the Arctic territories, but also for all regions of Russia. [GlavPahar](#)



WORLD MARKET / 13.06.2023

EU and Brazil Pledge to Ratify Mercosur Deal

The president of the EU Commission, Ursula von der Leyen has outlined her intention to complete the EU-Mercosur free trade agreement by the end of this year. The controversial deal was agreed in 2019 but its ratification has been stalled due to concerns raised by member states, including Ireland. These concerns include deforestation in Brazil, the potential impact of imports on the EU beef market and the imposition of stricter standards on EU farmers compared to primary producers in the Mercosur countries of Argentina, Brazil, Paraguay and Uruguay. [Agriland](#)

WORLD MARKET / 13.06.2023

National Agency for Land Reclamation in Moldova

The Government of Moldova has approved the creation of a new body for the implementation of policy in the field of land reclamation. "The institution will be subordinate to the Ministry of Agriculture and Food Industry. It will be responsible for the implementation of the policy in the field of land reclamation and the implementation of investment projects in centralized irrigation systems," explained the Minister of Agriculture and Food Industry of Moldova. [IA Red Spring](#)



WORLD MARKET / 13.06.2023

India to Limit Wheat Stocks for Traders

High wheat prices have prompted the government of India to limit the amount of wheat stocks traders can hold, Reuters reported, citing Sanjeev Chopra, the country's food secretary. India, the world's second biggest wheat producer, will also provide 1.5 million tonnes of wheat to bulk consumers such as flour millers, as part of efforts to bring down prices, which have risen 8% in a month, Chopra said. [World Grain](#)

WORLD MARKET / 16.06.2023

China Lifts 22-year Ban on Meat from Poland and Belgium

China has lifted its ban on imports of beef from cattle less than 30 months old from Poland and Belgium, the General Administration of Customs said in statements. The ban was introduced over 22 years ago after mad cow disease was discovered in these countries. According to the head of the Chinese Customs Administration, the customs authorities will inspect imports of beef deboning from Poland and Belgium, following special inspection and quarantine rules. [IA Red Spring](#)



ANALYTICS

ANALYTICS / 15.06.2023

IGC Anticipates Record Soybean, Rice Output

The International Grains Council (IGC) during its annual meeting in London discussed its latest global crop forecast, projecting record soybean and rice production in marketing year 2023/24, while forecasting total grains ending stocks to drop to a nine-year low. With large corn and sorghum outturns more than compensating for reduced wheat and barley harvests, the IGC sees global grains production expanding by 40 million tonnes year-on-year to 2.294 billion tonnes. In particular, crops such as soybeans and rice are expected to achieve record levels. Consumption is also predicted to expand by 2% year-on-year, from 2.254 billion tonnes to 2.302 billion, on increased uptake across food, feed and industrial sectors, causing ending stocks to further tighten. [World Grain](#)

ANALYTICS / 16.06.2023

FAO: Global Meat Production Set to Increase in 2023

Global meat production is set to increase in 2023 when compared to last year's figures, according to the Food and Agriculture Organisation of the United Nations (FAO). The FAO has released its biannual report on global food markets, which estimates that the global food bill will rise to 1.98 trillion dollars in 2023, an increase of 1.5% on last year. This will be a new record, but the global food bill is expected to rise slowly due to escalating world prices reducing the demand for food from countries. [Agriland](#)

ANALYTICS / 16.06.2023

IFA: Global Fertilizer Market Remains Unstable

The IFA's latest Medium-Term Outlook estimates that globally, fertilizer use decreased by close to 3% in 2021, falling to 194.7 million tonnes, and by close to 5% in 2022, falling to 185.1 million tonnes. Global fertilizer use in 2022 was 15 million tonnes lower than the record-high level of 200.2 million tonnes reached in 2020, according to the IFA. The picture dramatically varies across the key market. Since then, some markets have stabilized, namely nitrogen and phosphate, while others remain disrupted, in the case of potash. [World Grain](#)

