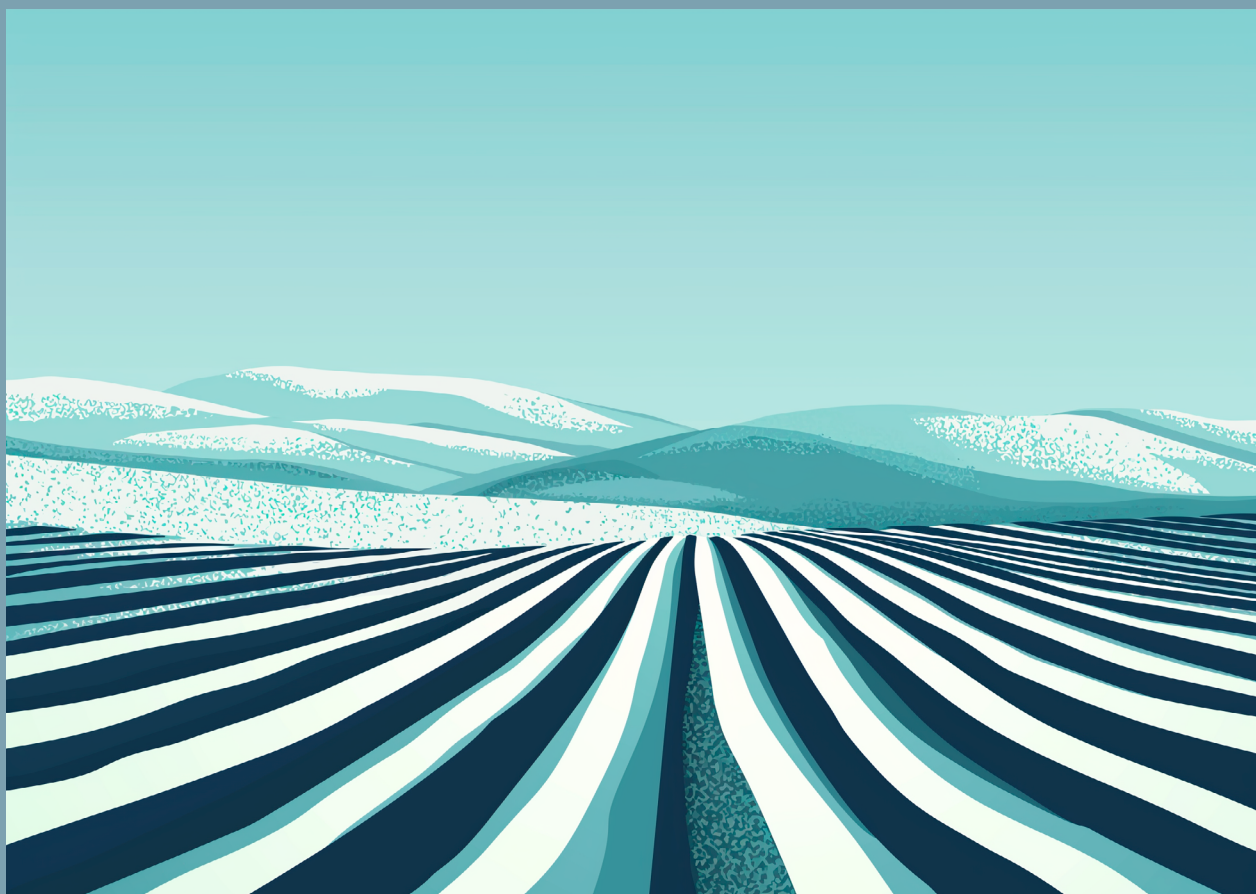


**INSTITUTE OF WORLD
AGRICULTURAL MARKETS**

MEDIA DIGEST

01.01 – 07.01.2024



THREE MAIN TOPICS

- **New Varieties of Tangerine Were Bred at the Russian Academy of Sciences**
- **Türkiye Supplied the First Batch of Eggs to Russia**
- **FAO: 2023 Ended with a Decline in World Food Prices**



EDUCATION

EDUCATION / 02.01.2024

New Specialized Classrooms at the Chuvash State Agrarian University

As the rector of the Chuvash State Agrarian University Andrei Makushev said, the classrooms are equipped for the Faculty of Veterinary Medicine and Animal Science. "More and more agricultural companies and farmers are joining projects to create special audiences. This is a good opportunity to introduce students to the profile of your enterprise and prepare future personnel. Now, with the support of agricultural enterprises, 24 such sites have been opened in the Chuvash State Agrarian University. Not only our agricultural producers, but also farmers from other regions of the country and Belarus took part in their creation," said Deputy Prime Minister and Minister of Agriculture of Chuvashia Sergei Artamonov. [Russian Ministry of Agriculture](#)



EDUCATION / 05.01.2024

The Stavropol Region Will Begin to Train Agricultural Drone Pilots

In 2024, pilots for agricultural UAVs will begin to be trained in the Stavropol region. Students will study at the Stavropol Agrarian University, the regional Ministry of Economic Development told Stavropol.Media. According to the rector of St. State Agrarian University Vladimir Sitnikov, the program of additional professional education is already ready. It will allow training of external pilots of agricultural UAVs weighing over 30 kg. [Stavropol.Media](#)





SCIENCE

SCIENCE / 02.01.2024

New Varieties of Tangerine Were Bred at the Russian Academy of Sciences

Scientists from the subtropical scientific center of the Russian Academy of Sciences, who conduct breeding work with citrus fruits, have patented three new varieties of tangerine. One of them was named "Prince Vladimir" in honor of the Equal-to-the-Apostles prince, Raisa Kulyan, head of the center's selection laboratory, candidate of agricultural sciences, told TASS. Today, the center houses a collection of citrus fruits, which includes over 150 varieties. On the basis of the collection, both agrotechnical research and extensive breeding work are carried out. [TASS](#)



SCIENCE / 02.01.2024

Chinese Scientists Studied how Microplastics Affect the Soil

The mechanisms and consequences of plastic pollution on soil health and the resistance of microorganisms in it to antibiotics were studied by scientists from Zhejiang Shuren University and China Agricultural University, reports the scientific news portal Phys.org. The study found that both nanoplastics and microplastics alter soil microbes and increase antibiotic resistance. Notably, nanoplastics, due to their small size, had a more significant impact, even in small quantities.

[IA Krasnaya Vesna](#)

SCIENCE / 03.01.2024

People Can Recognize the Emotions of Chickens

British scientists came to this conclusion. The researchers played recordings of these sounds, and most subjects responded correctly to the birds' emotions. Experts say that 69% of the experiment participants were able to determine the difference between the clucking of chickens that were experiencing joyful feelings about the upcoming treat, and the clucking caused by disappointment that such a reward did not follow. In practice, this means using the power of artificial intelligence to proactively analyze the mood of the chicken coop, reports [The Guardian](#)



SCIENCE / 05.01.2024

Scientists Created Nanoparticles for Antibiotics

Stavropol scientists have developed nanoparticles that make it possible to fight antibiotic-resistant strains. The innovative form of antibacterial drugs will have a long-lasting effect and less toxic effect. The creation of nanoparticles for antibiotics is the result of joint work by specialists from the Stavropol State Agrarian University and the Stavropol Anti-Plague Research Institute of Rosпотребнадзор. [KP - North Caucasus](#)



INNOVATION

INNOVATION / 02.01.2024

A Biogel Was Developed in Novosibirsk that Extends the Shelf Life of Fruits

Employees of the Novosibirsk State Technical University (NSTU NETI) have developed a gel from biopolymers that extends the shelf life of fruits at room temperature. The fruits can be processed both at the packaging stage and directly on the tree, Ekaterina Litvinova, a teacher at the Department of Electrophysical Installations and Accelerators at NSTU NETI, told TASS. It is assumed that the biogel spraying unit will be built into the packaging line. Employees of small farms will also be able to process the crop directly on the trees or after harvesting the fruits. [TASS](#)



INNOVATION / 03.01.2024

SSAU Developed the Technology of Sensory Control over the Harvest

The technology for sensory crop control, developed by SSAU scientists, is based on a wireless sensor network in which various types of sensors and electronic devices are combined into a common system using radio communication. In particular, such a network may include sensors that monitor soil temperature, soil humidity, microelements content and a number of other indicators. The research results of SSAU scientists were published in the scientific journal Computer Communications. [SSAU](#)

INNOVATION / 05.01.2024

Laser Scarecrows Were Tested in the USA to Protect Plantings from Birds

Scientists from the University of Florida and the University of Rhode Island studied the effectiveness of laser devices in repelling birds, publishing their findings in the journal Pest Management Science. The study involved captive flocks of European starlings that were fed fresh sweet corn. Experience has shown that devices that emit a moving laser beam can "significantly reduce" crop damage up to 20m from the laser device. Additionally, "lasers are silent, unlike acoustic repellers, which can be very disturbing to neighbors and workers". [IA Krasnaya Vesna](#)



WORLD MARKET

WORLD MARKET / 03.01.2024

Türkiye Supplied the First Batch of Eggs to Russia

Rosselkhoznadzor reports that it has monitored the first supply of Turkish food eggs to Russia. "On January 3, the first batch of edible eggs from Turkey in the amount of 19.36 tonnes (316,800 pieces) was imported through the Yarag-Kazmalyar checkpoint for further sale in Russia," says a message on the department's website. Rosselkhoznadzor previously issued permission to import eggs to 21 Turkish enterprises. In December 2023, eggs from Azerbaijan also began to arrive in the Russian Federation. [Interfax](#)



WORLD MARKET / 03.01.2024

Maersk Again Stops Cargo Transit through the Red Sea

One of the world's leading cargo carriers, Maersk, has suspended shipping through the Red Sea and the Suez Canal "until further notice" as it continues to review security following an attack on one of its ships due to an increase in attacks on transit ships, Economic Pravda reports. link to CNN. Other major shipping companies, including Hapag-Lloyd, Evergreen Line and MSC Mediterranean Shipping Company, have also stopped using the critical waterway due to the Houthi attacks. [APK-Inform](#)

WORLD MARKET / 04.01.2024

BRICS Countries May Launch Own Independent Grain Exchange

The Union of Grain Exporters, within the framework of Russia's chairmanship of BRICS, proposed creating its own grain exchange within the group in 2024, trading on which would be carried out without using the dollar. The SEZ sent a corresponding letter with such an initiative to the head of the Ministry of Agriculture, Dmitry Patrushev. According to the chairman of the SEZ, Eduard Zernin, reducing the difference between grain production and consumption in the BRICS countries lays the preconditions for internal trade and the creation of a grain exchange of the group. [GlavAgronom](#)



WORLD MARKET / 07.01.2024

Kazakhstan Intends to Create a Single Grain Exporter

The role of a single mass grain exporter in Kazakhstan should be played by the "Food Contract Corporation" ("Food Corporation"). The corresponding bill was published on the republican legal portal "Open Legal Entities". The message explains that this measure will ensure coordinated actions of Kazakh grain market participants for unhindered access of their products abroad. It is clarified that the transfer of such powers to this structure will become possible when the share of grain exports through it reaches at least half of the total volume of supplies abroad. [Rosng.ru](#)



ANALYTICS

ANALYTICS / 01.01.2024

Rabobank: Global Poultry Meat Production Will Grow by 1.5-2% in 2024

The negative impact of El Niño has caused delays in the soybean planting campaign in the Brazilian Midwest, potentially reducing the window for planting second-crop corn. It is also expected that this could increase demand for road freight transport, leading to higher transport costs, DatamarNews reports. In addition, EsalqLog experts expressed concern that heavy rains caused by the influence of El Niño could threaten the performance of Brazilian ports, as well as complicate access to them. [APK-Inform](#)

ANALYTICS / 05.01.2024

Flowers Learn to Survive without Pollinating Insects

A group of French researchers from the University of Montpellier studied the evolution of field violets in the vicinity of Paris. Scientists found that flower size decreased by 10% and nectar production decreased by 20% compared to specimens that grew in the same fields 20-30 years ago. This is due to the fact that they are visited less frequently by insects. According to scientists, the consequences of pollinator decline are difficult to reverse, so conservation measures are urgently needed to stop these processes costs. [RBC](#)



ANALYTICS / 05.01.2024

FAO: 2023 Ended with a Decline in World Food Prices

The basic level of world food prices decreased in December 2023 compared to November, averaging 118.5 points, which is 1.5% lower than in November and 10% lower than in December 2022. According to the Food and Agriculture Organization of the United Nations (FAO) Food Price Index, for 2023 as a whole, the index was 13.7% below the 2022 average, when prices of certain products, including grains, peaked. As noted, in 2023 only the international sugar price index was higher, but in December 2023 the sharpest drop in international quotations of this product occurred. [TASS](#)

ANALYTICS / 05.01.2024

Oil World: EU Rapeseed Processing Reaches Record Levels in 2023

According to Oil World, EU rapeseed processing reached 6.38 million tonnes in the fourth quarter of 2023, matching the record figure for the same period the previous year (6.41 million tonnes). The total processing volume of European oilseeds based on the results of last year is estimated at 24.4 million tonnes, which exceeds the figures for the previous two years (22.58 and 22.81 million tonnes, respectively). [Oil World](#)

