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Purpose of the handbook

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In preparing this infobook, it was important for us to understand how the Ukrainian agricultural sector managed to adapt to the new reality that the entire country faced after February 24, 2022. The full-scale russian invasion created **unprecedented** challenges for Ukraine's agriculture from the destruction of infrastructure to the disruption of supply chains and the loss of significant agricultural areas.

However, looking back over the past three years, we can say that **Ukrainian** agriculture has survived and is gradually recovering. Thanks to the joint efforts of farmers, the government, and international partners, our country continues to ensure food security for millions of people around the world. Moreover, Ukrainian agrarians have become one of the symbols of the nation's strength and resilience in the struggle for survival.

Why ίνfographics?

Viewing infographics does not require much time and allows for the perception of large volumes of data about the agricultural market of Ukraine and the world in a simple and understandable format. In an era of information overload and time constraints. infographics serve as an effective **communication tool,** helping to quickly and visually convey complex statistical information, identify trends, and uncover patterns in the agricultural sector.

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Agricultural production, % of GDP

In prices of the previous year



Labor productivity in agriculture, USD thou.

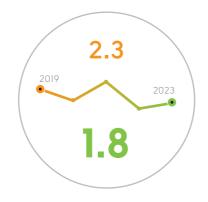
Per I employee per year, in constant prices of 2021



Agri-food exports, USD bln

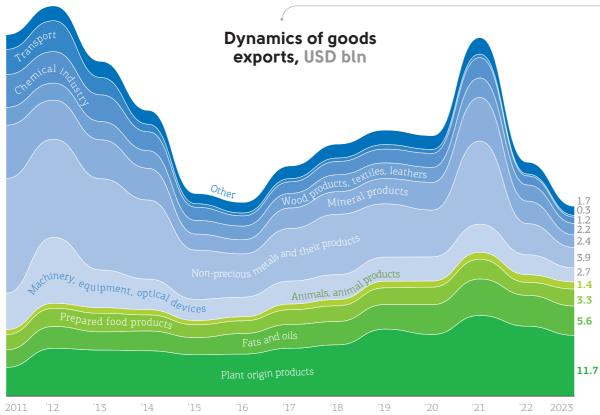


Capital investments, USD bln



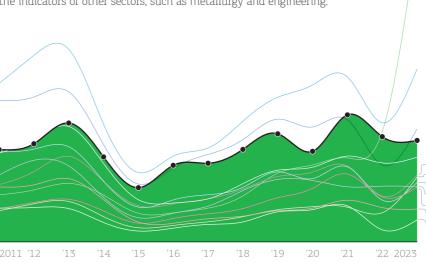
Foreign direct investments, USD mln¹





GDP growth of the main sectors of the economy, USD bln

The role of the state has increased due to significant expenditures in the field of national security and defense. At the same time, there is a decrease in the contribution of the agricultural sector to GDP against the background of a faster recovery of other sectors, in particular industry, construction, etc. However, the agricultural sector retains leadership in terms of export volumes, providing over 40% of export revenue, which significantly exceeds the indicators of other sectors, such as metallurgy and engineering.



39.6 State administration; compulsory social insurance

22.6 Wholesale and retail trade; repair of motor vehicles and motorcycles

14.7 Manufacturing industry

13.2 Agriculture

- 11.1 Education and healthcare
- 8.7 Real estate operations
 8.5 Electricity, gas supply
- 7.8 Transport
- 7.2 Mining industry
- 7.1 Information and telecommunications
- 4.3 Financial and insurance activities
- -2.8 Construction









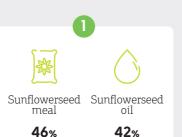
THE ROLE OF UKRAINIAN AGRIBUSINESS IN THE WORLD ECONOMY

Place among exporting countries

Ukraine on the world market in 2023/24 MY

CRÉDIT AGRICOLE

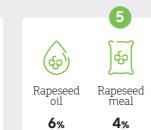
% of world exports, by tonnage





21%



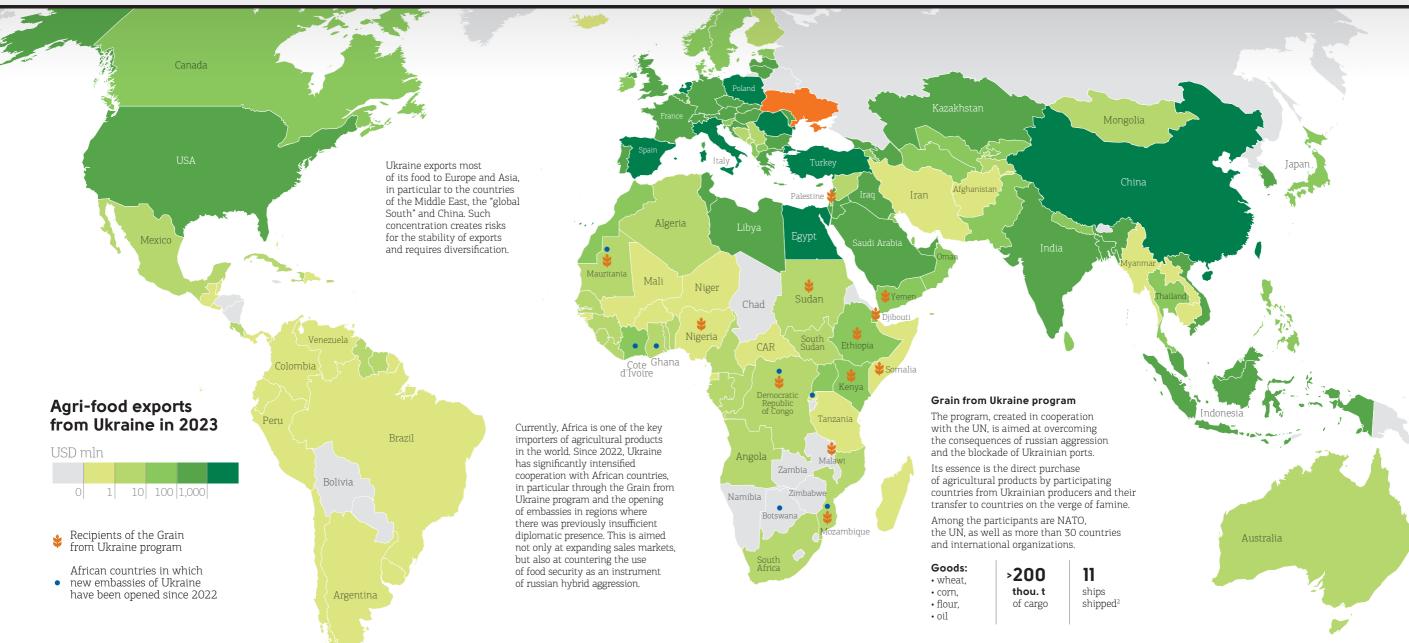




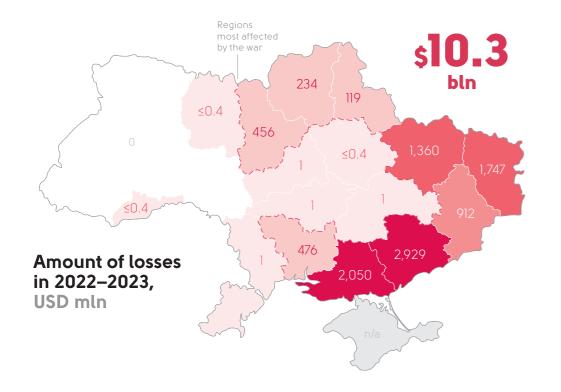








LOSSES OF THE UKRAINIAN AGRICULTURAL SECTOR DURING THE WAR



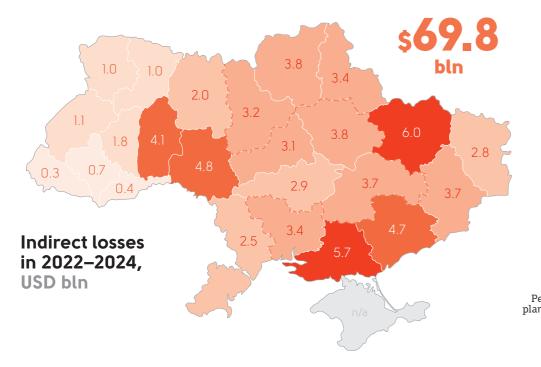
Amount of losses in 2022-2023, USD bln



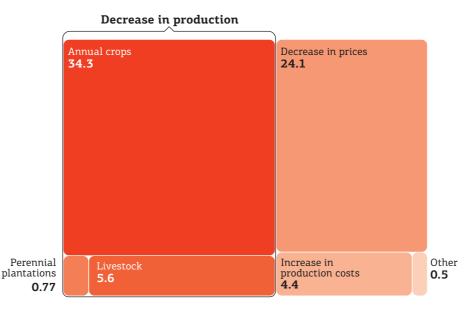
Damages are the monetary value of material assets that were destroyed, stolen, or partially damaged (but still suitable for repair or restoration) due to hostilities and occupation.

Agricultural machinery was the most affected, especially tractors, of which over 18,000 were destroyed. Significant damage was caused to grain elevators, with a total loss of capacity of 19.5% (excluding those inaccessible due to occupation). In addition, production was lost on the occupied territories, as well as destroyed stocks of fertilizers, fuel, and crop protection products.

Livestock farming suffered, in particular due to the deaths and forced slaughter of animals: 238,000 cattle, 544,000 pigs, 131,000 sheep and goats, and almost 13,000,000 poultry were lost. Aquaculture and fisheries have also suffered losses due to the destruction of the Kakhovka Dam.



Indirect losses in 2022-2024, USD bln



6

Indirect losses are the difference between actual income and the income that agricultural producers would have received if it were not for russia's invasion of Ukraine. Indirect losses are felt by farmers across the country, not just in areas affected by the fighting. The estimates cover data for 2022 and 2023, as well as a forecast for 2024.

Among the main impacts is the reduction in the production of annual crops, which are key to the agricultural sector. Losses in 2022–2023 are estimated at a total of 48.6 mln tons for grain crops and 8.7 mln tons for sunflower.

The decline in livestock numbers and productivity has had a significant impact on livestock production. Dairy production has suffered the most losses, with indirect losses estimated at \$2.9 billion over three years out of a total of \$5.6 billion.

Disruptions to exports due to the russian naval blockade have complicated logistics, reducing demand for products and increasing costs. While the maritime corridor has increased export potential, the gap between domestic and world prices remains wider than before the invasion.

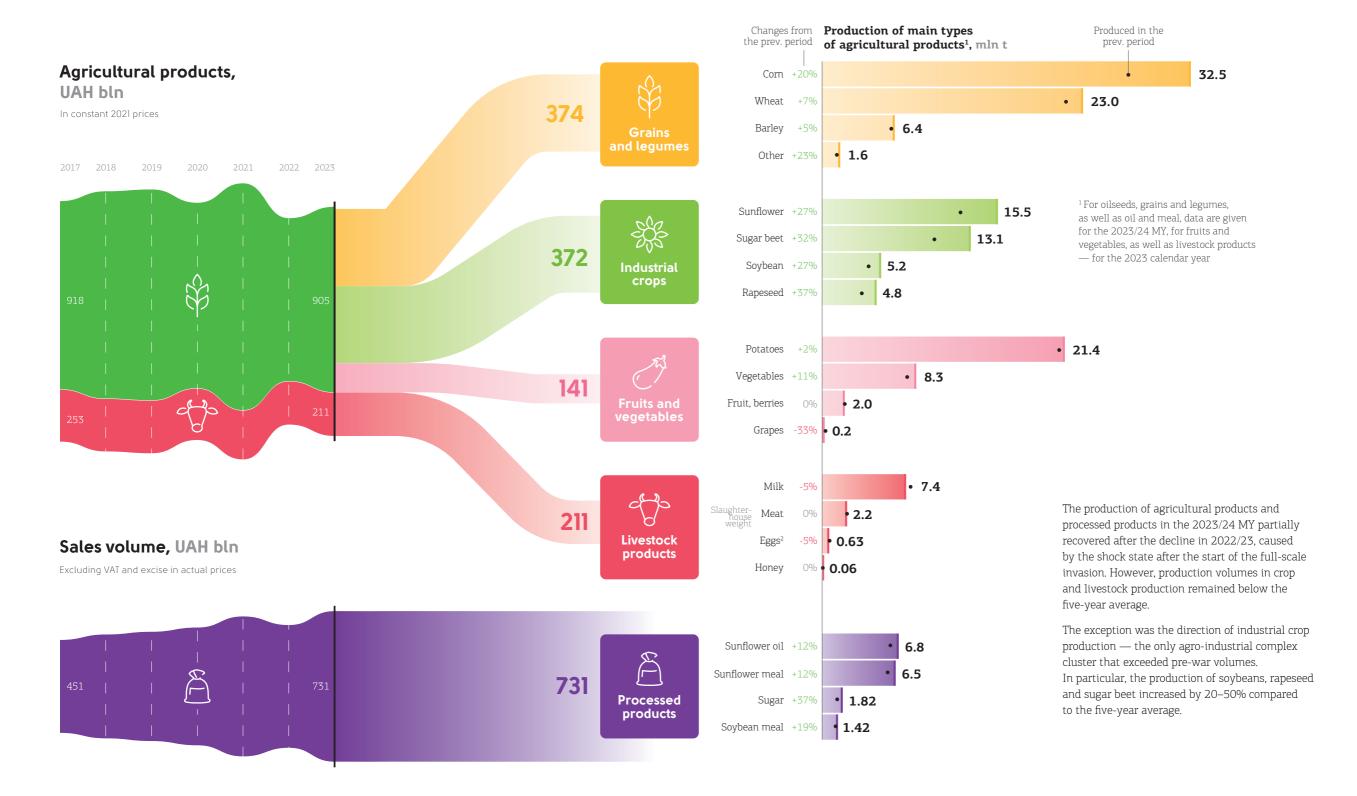








PRODUCTION OF THE MAIN TYPES OF AGRI-FOOD PRODUCTS

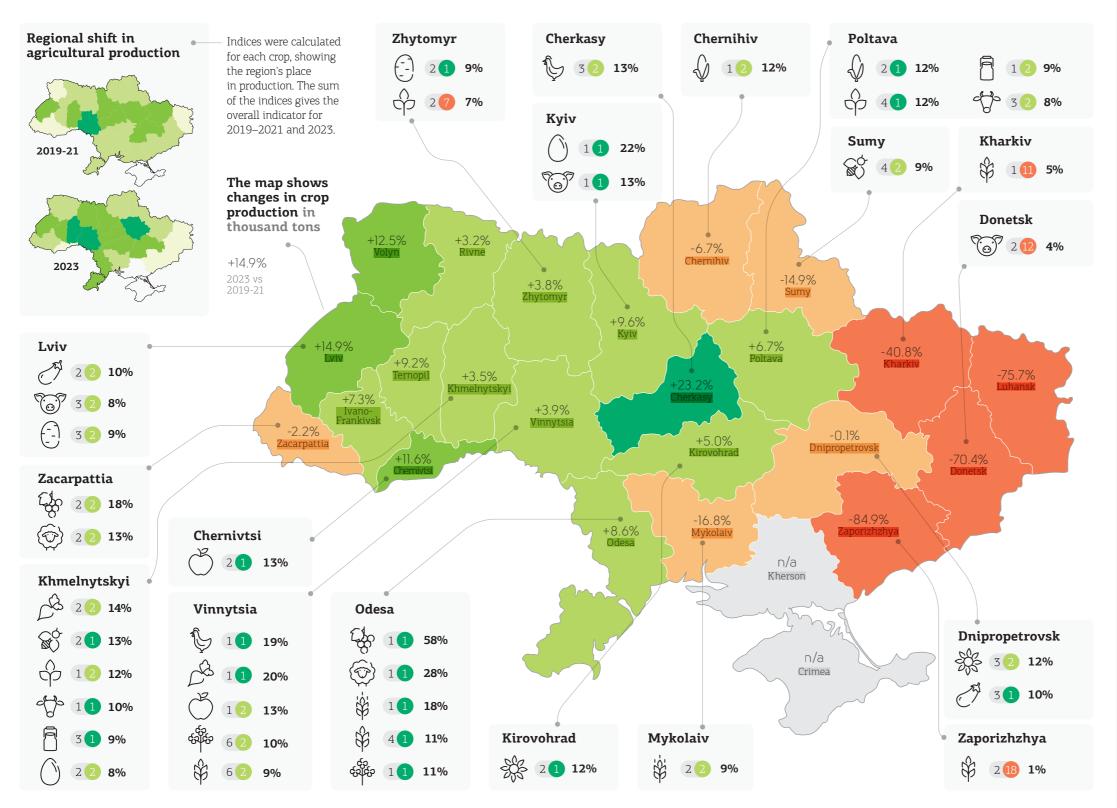








AGRICULTURAL SPECIALIZATION OF UKRAINE'S REGIONS



Legend

Place in national production in 2023

2 1 12%

2019-21 2023

Agricultural products and animals

- & Wheat
- ¦ ⊞ Barlev
- Potatoes
- ✓ Vegetables
- Fruit, berries
- Grapes
- Sugar beet
- Sunflower
- Soybean
- Rapeseed
- ৰ Milk
- (Eggs
- ₩ Honey
- Cattle population
- Pig population
- (Sheep and goat population
- Poultry population

For comparison with the period before the full-scale invasion, we used average production figures for 2019–2021 (except for honey, where 2021 figures were used).

The map shows changes in the production of crop products in thousand tons

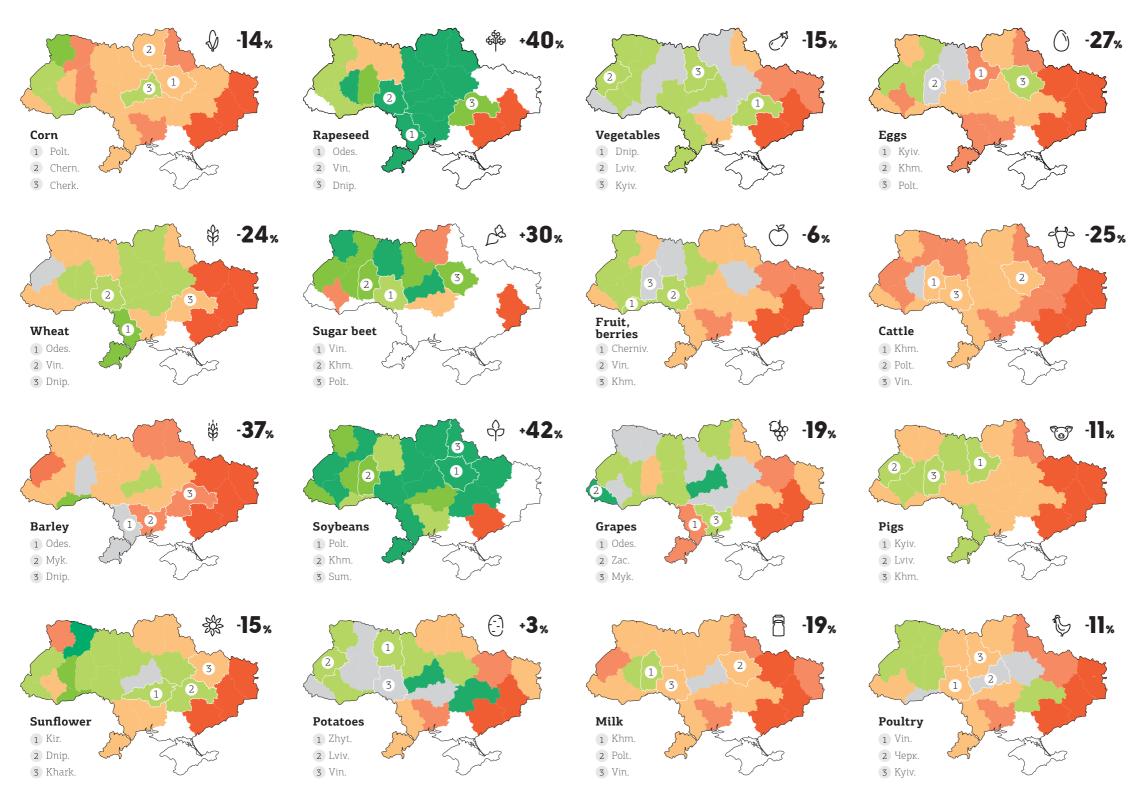
2023 vs 2019-21 -50 -25 0 +25 +50%



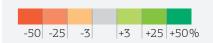




CHANGES IN REGIONAL SPECIALIZATION CAUSED BY THE WAR



Legend



-26%

Change in production in kind in 2023 compared to the average for 2019–2021

1 2 3

Top 3 leading regions in agricultural production or livestock

For comparison with the period before the full-scale invasion, we took the average production figures for 2019–2021.

The Ukrainian agricultural sector is undergoing a complex transformation, triggered by the full-scale war with russia.

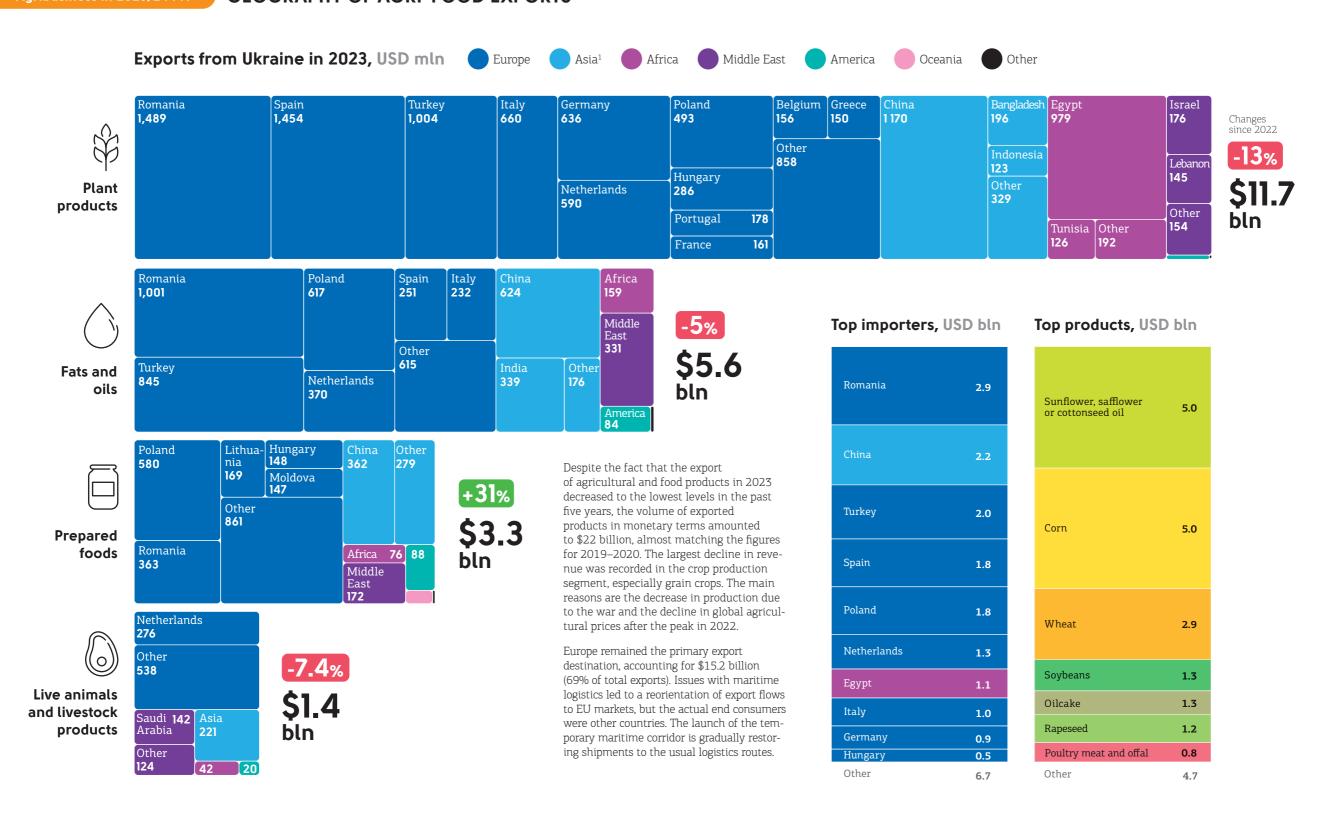
One of its elements is the shift in traditional cultivation (production) regions, caused by occupation and proximity to combat zones, leading to the disruption of previously established specialization belts.

However, the relocation of production to safer regions helps partially compensate for the lost volumes. There is a clear decline in the role of areas adjacent to the combat zone, while the contribution of the Central and Western regions to Ukraine's agricultural sector is gradually increasing.







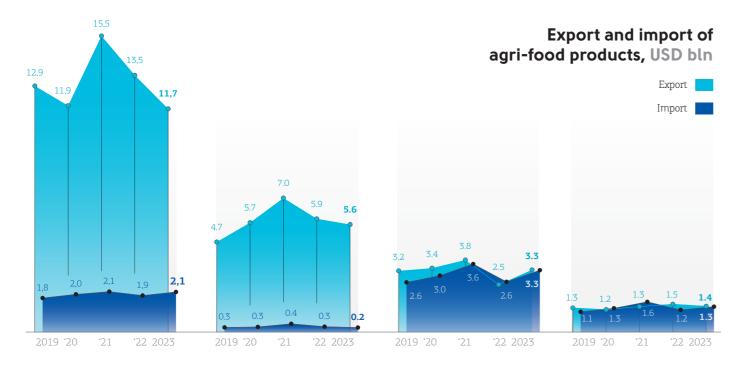








FOREIGN TRADE IN AGRI-FOOD PRODUCTS





Plant products



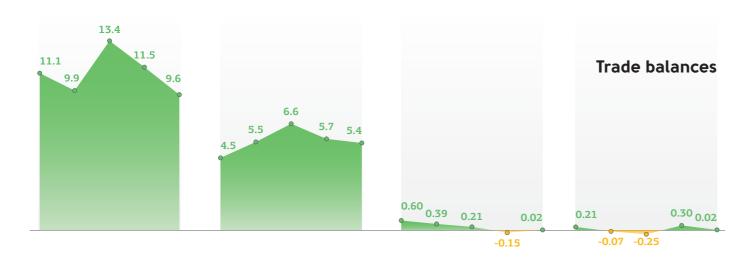
Fats and oils

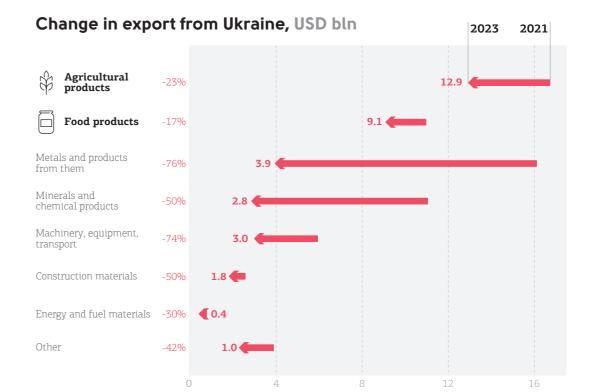


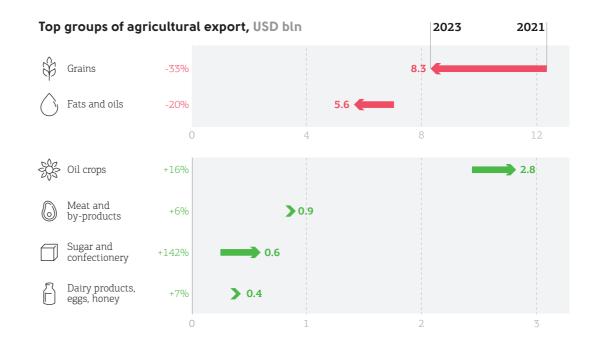
Prepared foods



Live animals and livestock products



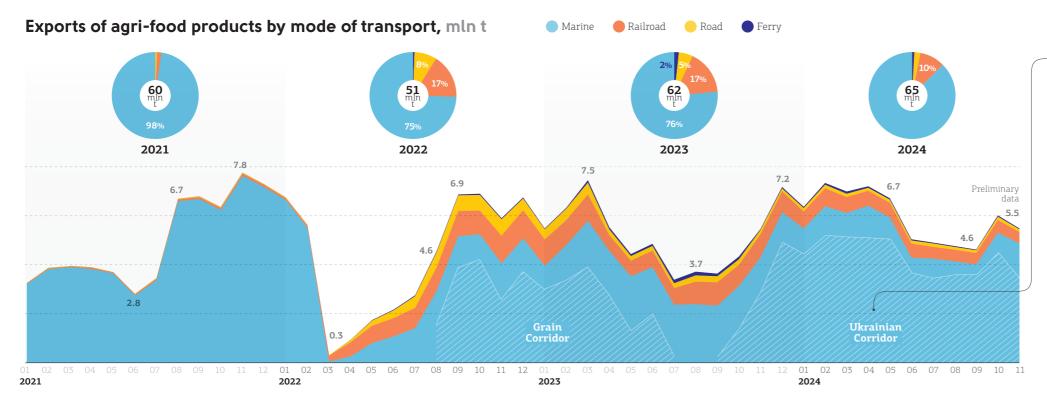












Ukrainian Maritime Corridor

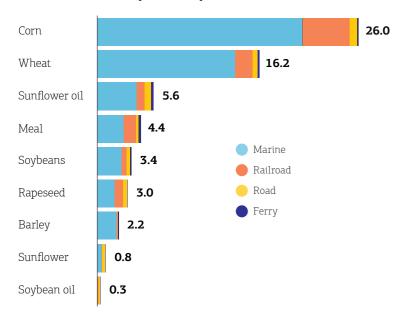
After systematic violations of the Grain Corridor agreement by russia, an alternative Ukrainian Corridor was organized, allowing for the transportation of not only agricultural products but also other goods. The only guarantor of shipping safety is the Armed Forces of Ukraine.

Starting from March 15, 2024, the Ukrainian Corridor, which passes through the ports of Greater Odesa, began operating around the clock, leading to a 20% increase in the export of agricultural and other products.

57_{mln t}

of agricultural products have been transshipped through the Ukrainian Corridor since its launch (as of 11.28.2024)

Structure of export shipments in 2023, mln t



Transshipment of agricultural cargo in Ukrainian ports in 2023 and 2024, mln t



- Ports of the Grain and Ukrainian Corridor
- Ports that Ukraine does not control
- Ports of the Danube Cluster
- Ports that are not working
- 1.4 Transshipment of agricultural cargo in 2023
- 1.4 O Transshipment for 11 months of 2024 (October and November operational data)

Due to the blockade of the Black Sea and the termination of the grain agreement, the shipments of agricultural products through Danube ports in 2023 nearly doubled compared to 2022, reaching 19.7 million tons. However, following the launch of the Ukrainian Corridor, cargo flows shifted in favor of the Greater Odesa ports.

Despite constant shelling on port infrastructure by russia, the total agricultural cargo turnover over 11 months of 2024 amounted to 56.1 million tons, compared to 39.4 million tons in 2023.







Land market results

July 1, 2021 — December 16, 2024

401 thou.

42.8 UAH thou.

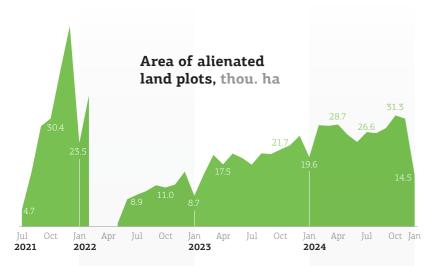
8/5 ha

Number of alienated land plots

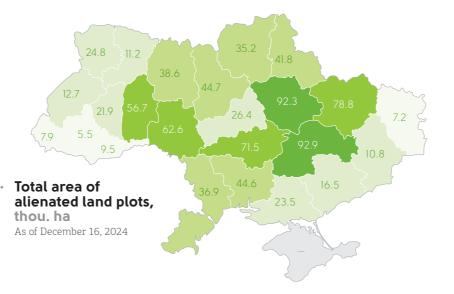
Weighted average price of 1 ha

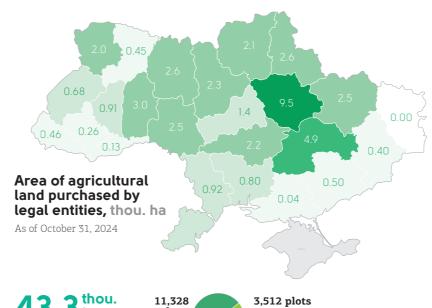
Area of alienated land plots

Since the opening of the market until December 16, 2024, a total of 875.2 thousand hectares of land have been sold, with the largest volumes recorded in Poltava and Dnipropetrovsk regions. Over 400 thousand agricultural land purchase and sale agreements have been concluded. To date, a quarter of the land plots have changed ownership through purchase and sale transactions, and while 65% of transfers involved inherited land.









43.3 ha
or 15,035 plots
were purchased
by legal entities

11,328 plots
Commodity land

3,512 plot
Land for personal farming

As of January 1, 2024, legal entities founded by Ukrainian citizens, on which no sanctions have been imposed, have received the right to purchase agricultural land that was previously under a moratorium. Also, since the beginning of the year, the limit for agricultural land acquisition has been increased to 10 thousand hectares for one person.

Land Bank State Program

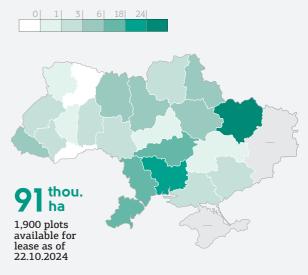
The Land Bank is a project of the State Property Fund of Ukraine that creates a transparent market for leasing state agricultural lands through online auctions on Prozorro. Sales. The goal is to eliminate corruption and shadow schemes, as well as to improve the efficiency of state land use.

Land plots can be leased for up to 14 years for annual crops or up to 25 years for perennials. The starting rental price begins at 12% of the normative land value assessment.

How to participate in land auctions?

- 1. Register on any of the sites connected to the system.
- 2. Apply for participation in the auction via e-cabinet.
- 3. Pay the registration and guarantee fees.
- 4. Participate in the auction by placing your winning bid.
- 5. Pass the qualification process.
- 6. Sign an agreement based on the auction results and pay the sublease fee for the first year

Area of plots available under the Land Bank state program, thou. ha

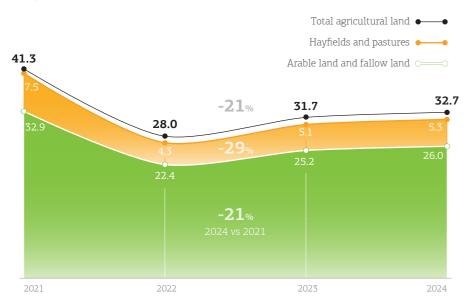




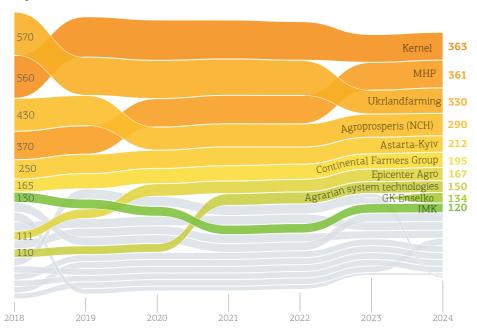


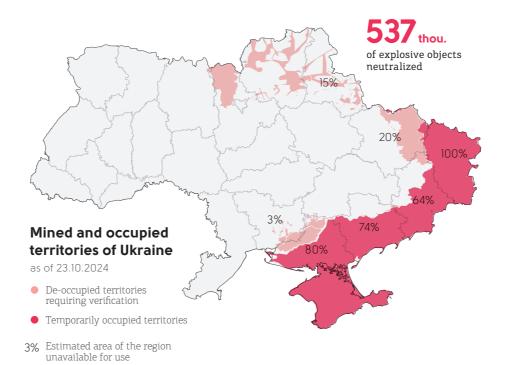


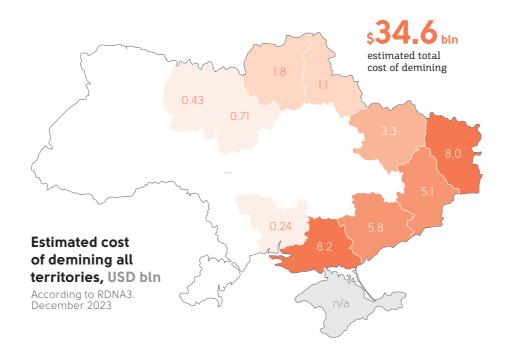
Dynamics of Ukraine's land resources, mln ha



Top 10 agricultural holdings by land bank size, thou. ha







Ukraine demining

The Government of Ukraine has implemented the National Mine Action Strategy for 2023–2025 to demine critical areas: agricultural lands, residential areas, transport infrastructure, etc. As of October 2024, 57 mine action operators have been certified in Ukraine (43 Ukrainian and 14 international).

The state is collaborating with international partners, engaging experts and technical support. Over 48 countries have already provided assistance, contributing a total of \$998 million.

14.4 mln haterritory affected by hostilities

3.5 mln ha cleared through demining or non-technical survey

6 mln ha
potentially
contaminated
agricultural land

200 thou. he demined according to the Ministry of Defense

Compensation for humanitarian demining costs

Since September 2024, a program has been in place that compensates 100% of the costs of humanitarian demining of de-occupied lands for farmers:

- 1. The farmer submits an application through the State Agrarian Register (SAR), where it undergoes initial verification.
- The Humanitarian Demining Center checks the documents, estimates the cost of demining, and procures services through Prozorro. After the bidding process, the Center informs the farmer about the operator assigned to perform the work.
- 3. A certified mine action operator demines the designated area.

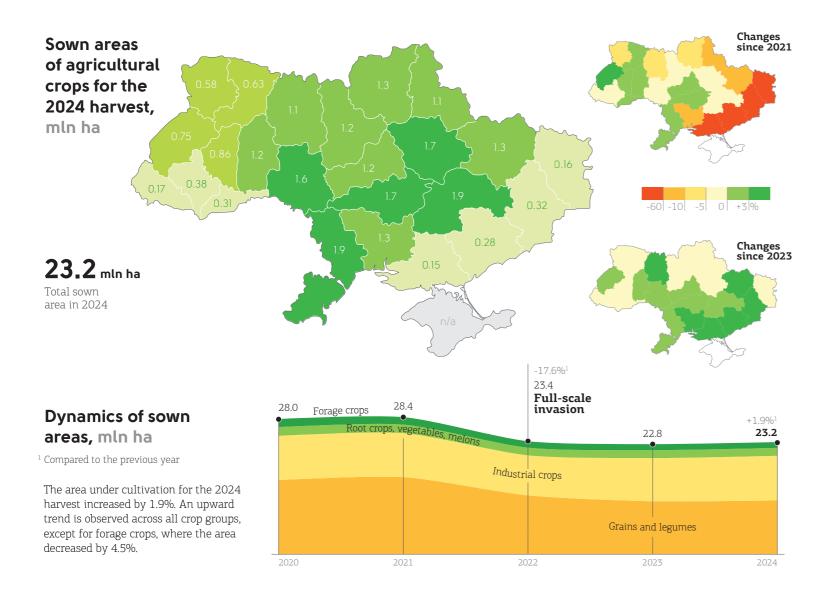


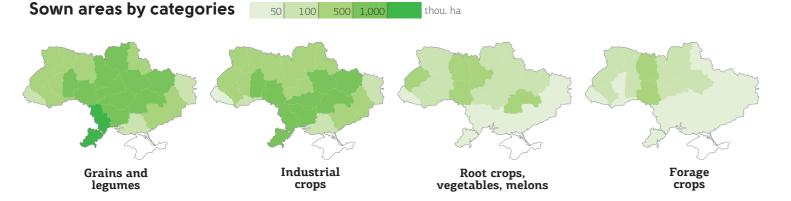






Сгор ргодистіох



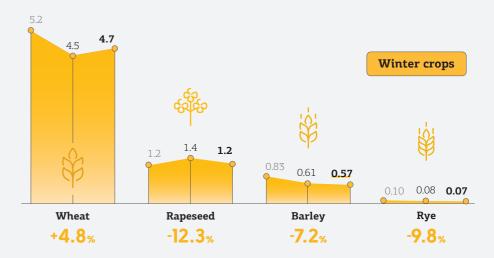






TOP LEAD

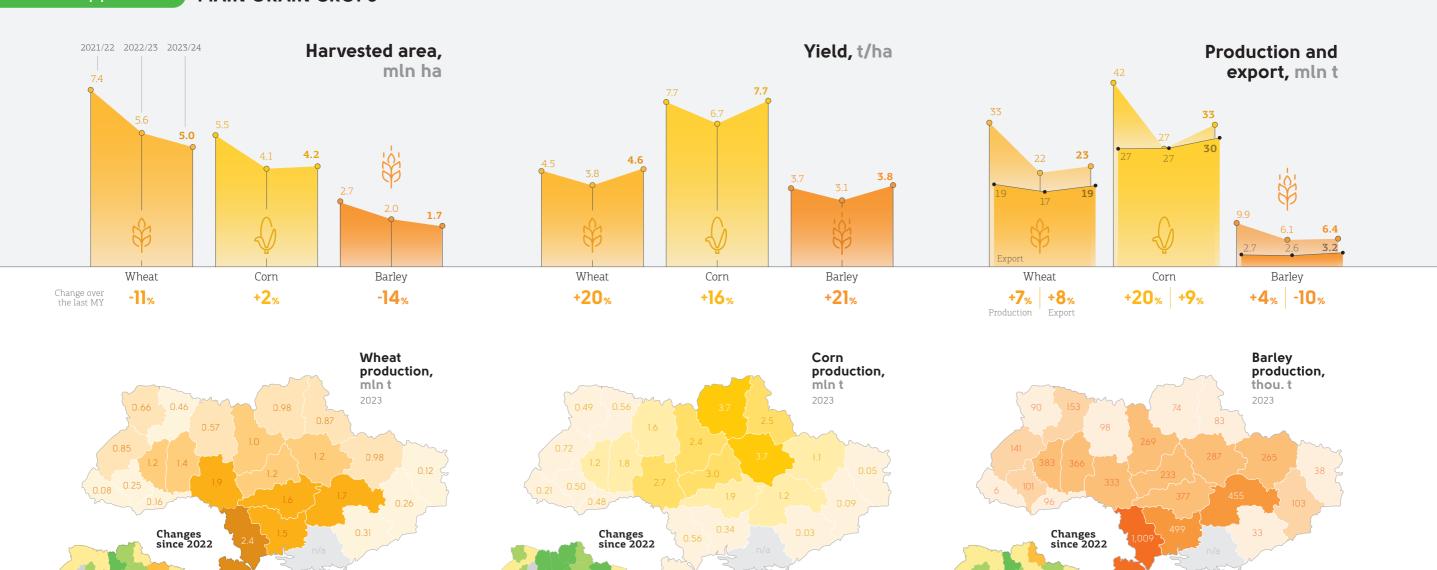
Structure of sown crops, mln ha 2022 2023 2024 5.3 5.2 Spring crops 4.9 4.3 4.1 **4.0** 1.0 0.9 **0.8** 0.22 0.19 **0.17** 0.02 0.05 **0.04** Sunflower Wheat Corn Soybean Barley Rapeseed -2.1% +43% -6.2% -6.3% **-10**% **-25**%



There is a reduction of the area under grain crops, except for wheat, with a shift toward oilseed crops. Among the key trends in crop cultivation is the increase in soybean planting areas for the second season in a row (+43% in 2024 compared to 2023).

Change per year

The lack of stability and a clear understanding of the short-term future, low prices for commodity products and a shortage of personnel have forced farmers to postpone the purchase of seeds and plant protection products until the last moment.



TOP-5 export destinations from Ukraine in 2023/24 MY, USD mln

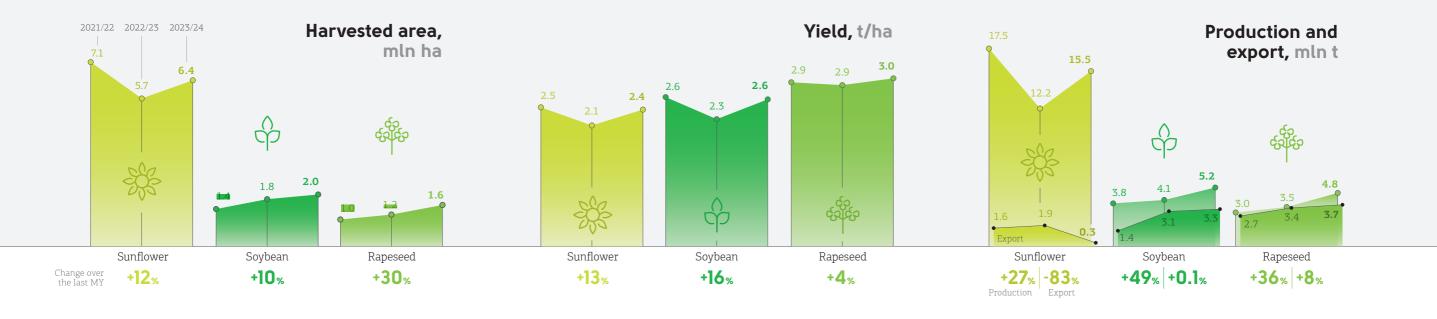


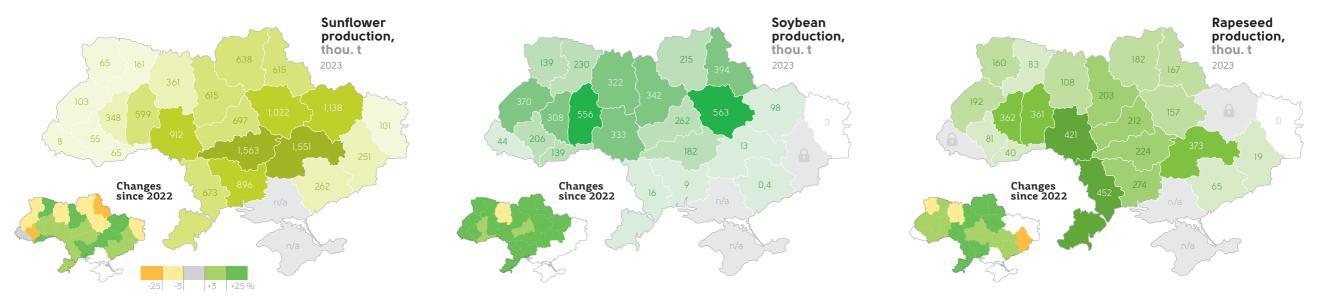




+3 +25 %







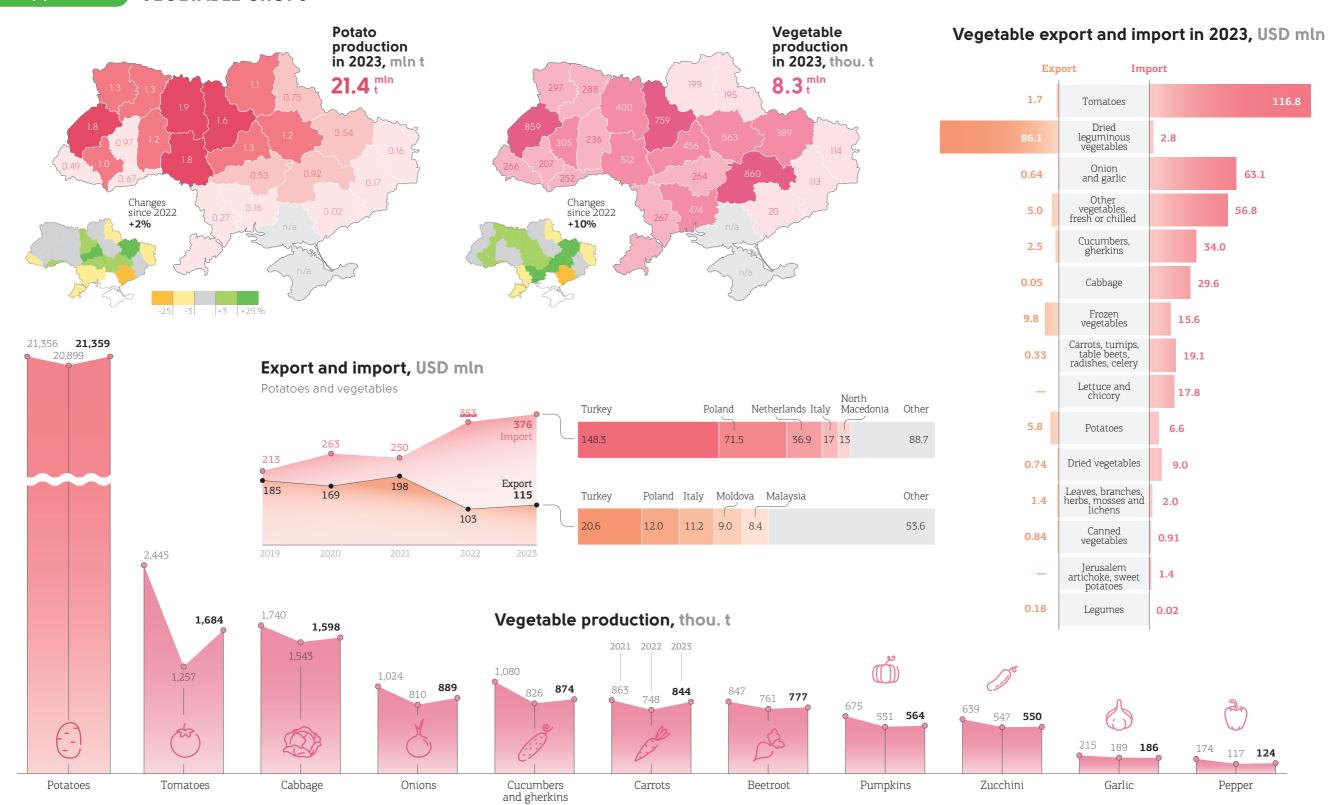
TOP-5 export destinations from Ukraine in 2023/24 MY, USD mln







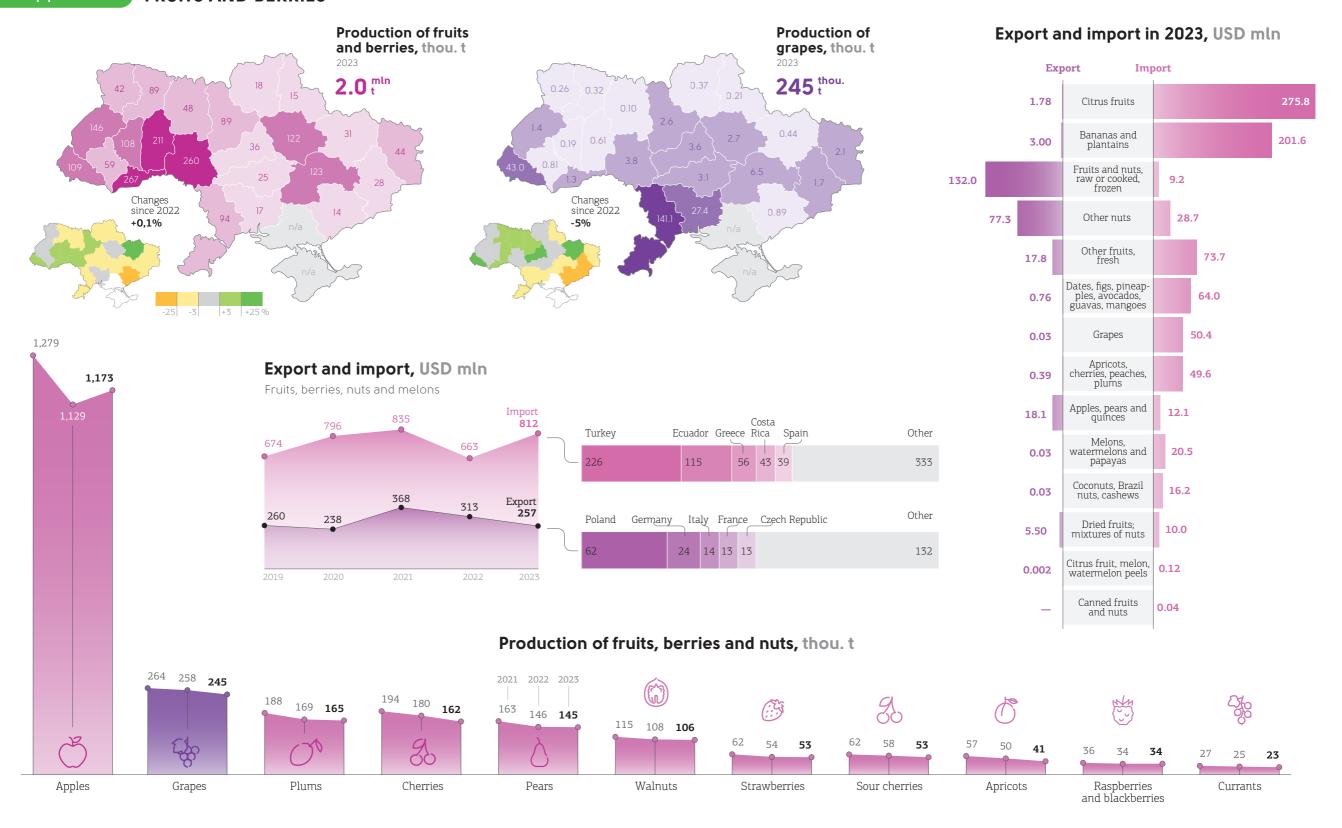










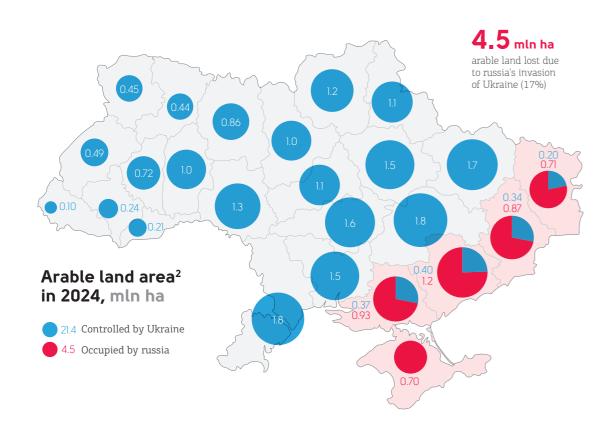




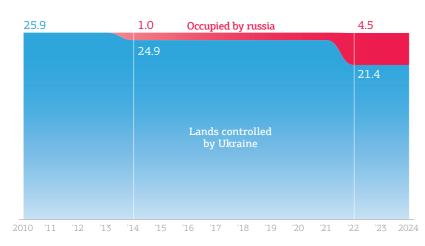




OCCUPATION OF AGRICULTURAL LAND IN UKRAINE AND ITS IMPACT ON MAJOR CROPS PRODUCTION



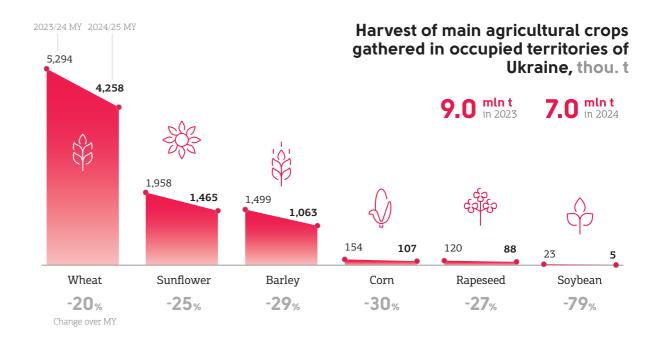
Loss of arable land in Ukraine², mln ha



In 2021, Ukraine's arable land amounted to 24.9 mln ha, but in 2024 this area had decreased to 21.4 mln ha (by 3.5 mln ha).

The sown area for grains, legumes, and oilseed crops decreased even more — by 5.1 mln ha: from 24.9 mln ha in 2021 to 19.8 mln ha in 2024.

This indicates that ≈1.6 mln ha of arable land in territories under Ukraine's control remain uncultivated due to the ongoing war.



Documented export volumes of main crops in 2023, mln t¹

3.38 mln t

agricultural products, mainly wheat and barley, were exported from the occupied territories (38% of the total harvest) ~2 mln t

sunflower was processed in the occupied territories and exported as finished products



The russian authorities have imposed strict control over the agricultural sector of the temporarily occupied regions, forcing farmers to register with the occupation administration and sell their harvest at artificially low prices. A significant number of the farmers have left, while those who remain work under the threat of property confiscation and constant challenges due to shortages of machinery, water, and labor. Despite the occupiers' claims of record harvests, the actual yields are significantly lower than the pre-war ones, which is due to the destruction of infrastructure and the general degradation of the agricultural sector under occupation.

Infrastructure in the occupied territories (including Crimea)



elevators

4.5 mln t storage capacity \$442 mln estimated value

oil extraction plants

2.5 mln t per year processing capacity

r \$297 mln estimated value







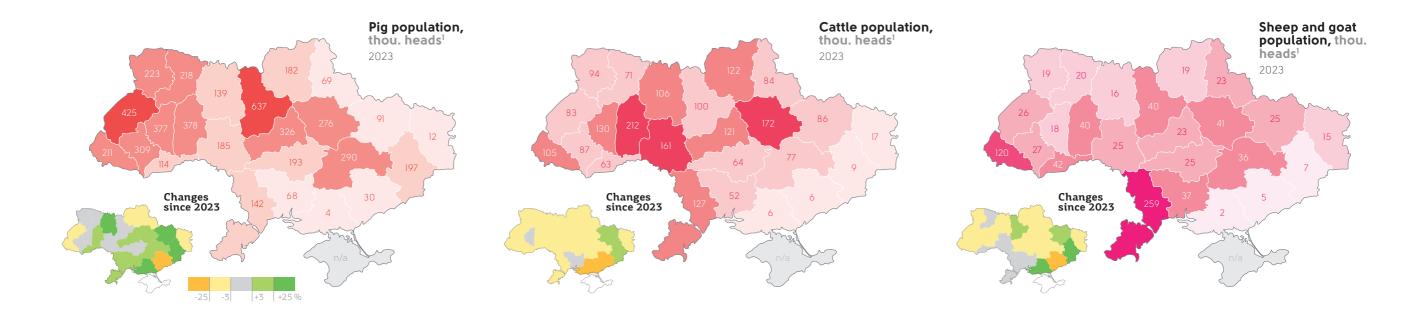


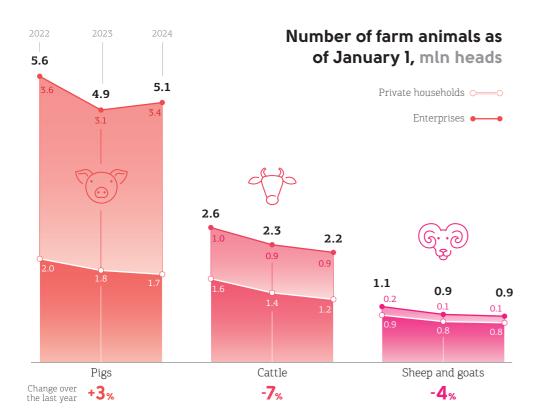


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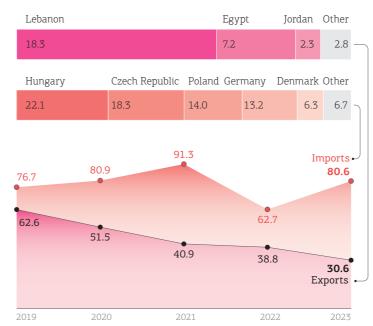


Livestock production

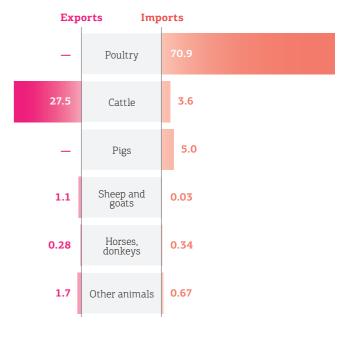




Export and import of farm animals, USD mln



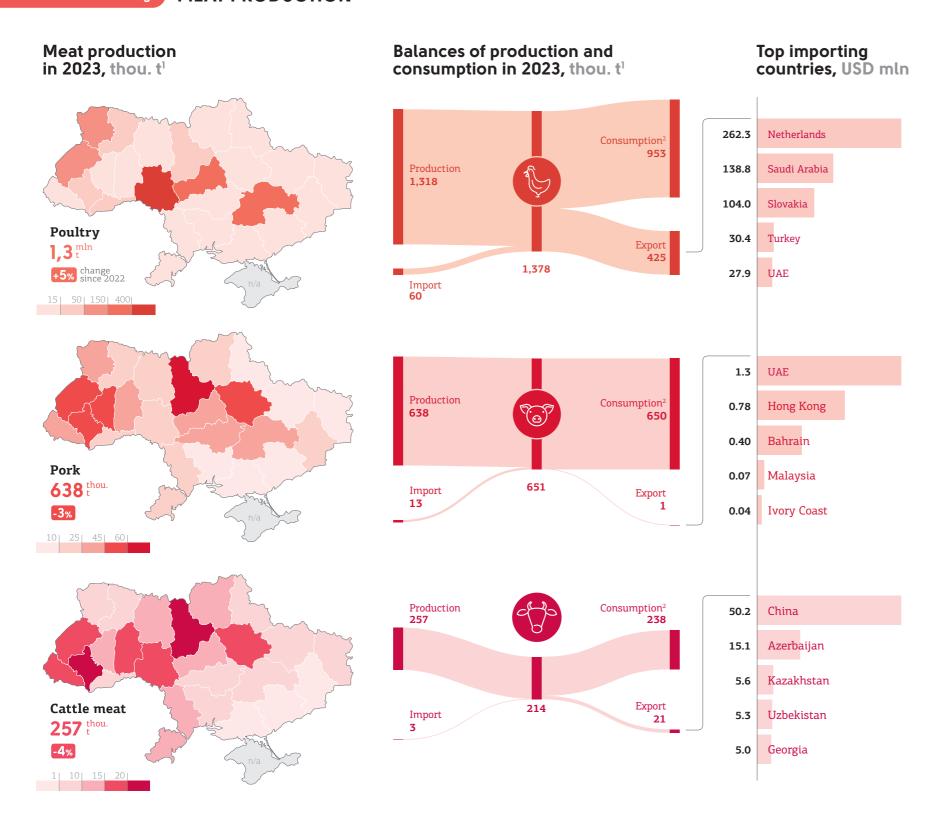
Top trade goods in 2023, USD mln



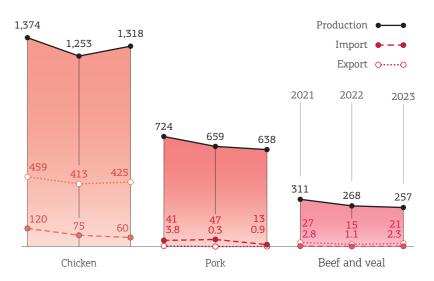




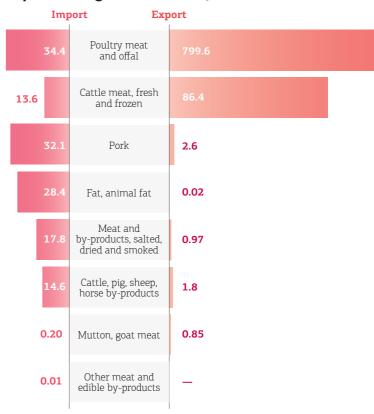




Meat production and trade, thou. t1



Top traded goods in 2023, USD mln

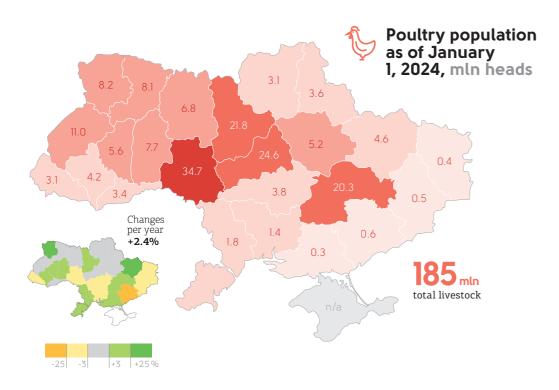




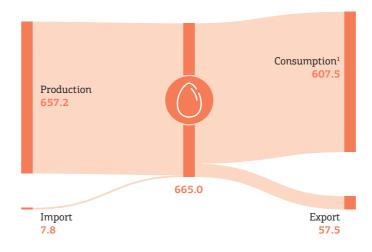




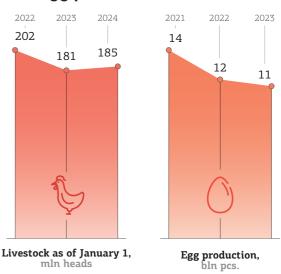
¹In slaughter weight



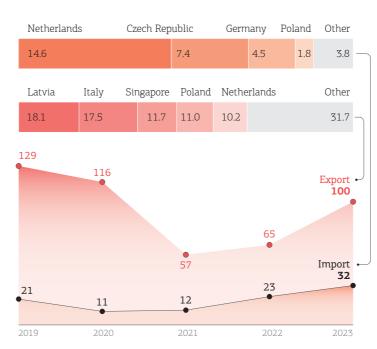
Balances of production and consumption of eggs in 2023, thou. t



Poultry population and egg production



Trade in eggs and egg products and main partners in 2023, USD mln



Top trade goods in 2023, USD mln



The poultry industry in 2023 overcame the initial shocks and continues to gradually recover in 2024:

- Production facilities in central and western Ukraine remained outside the combat zone, which contributed to a rapid recovery.
- \bullet The restoration of traditional sales channels supported production growth.
- Grains and oilseeds remained relatively inexpensive, leading to lower feed prices.

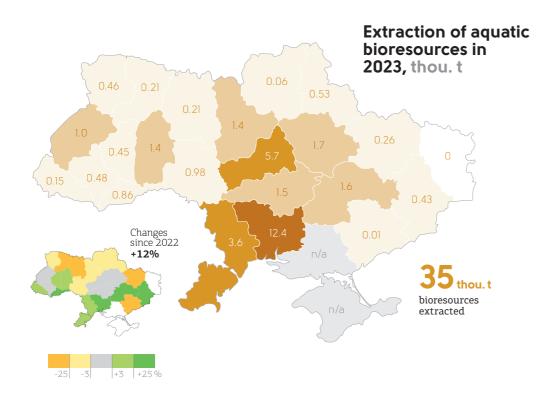
In 2023, exports of chicken meat and eggs recovered to high volumes. While EU countries remained the main destination, Ukraine is gradually shifting focus to markets in the Middle East, Central Asia, and Africa.



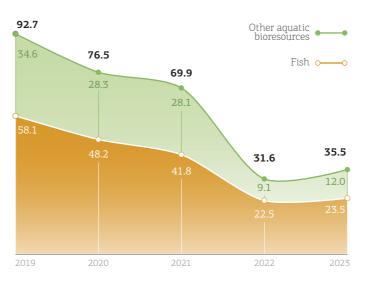








Dynamics of extraction of aquatic bioresources, thou. t



Places of extraction of aquatic bioresources in 2023, thou. t



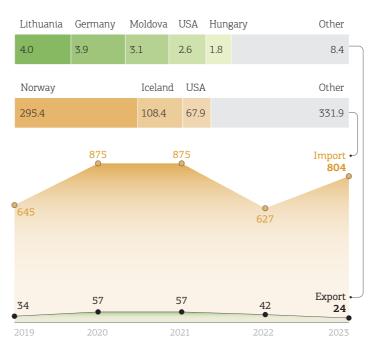
Fish and aquatic resources catch in 2023 increased by 12% compared to 2022, but remained significantly below pre-war levels due to the destruction of the Kakhovka Reservoir, loss of access to the Sea of Azov, and restricted navigation in the Black Sea.

As part of the industry's adaptation to EU legislation, reforms are being implemented aimed at deregulation and introduction of European standards. Notably, electronic auctions for commercial fishing were introduced for the first time through the "Prozorro.Sales" system.

Extraction of biological resources by species in 2023, thou. t



Trade in aquatic bioresources and main partners in 2023, USD mln



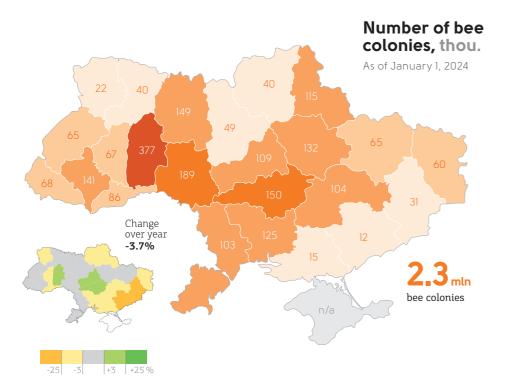
Top trade goods in 2023, USD mln

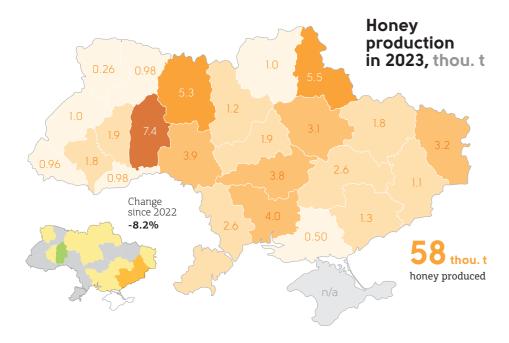




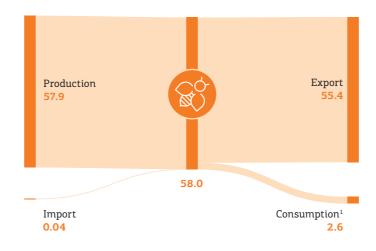




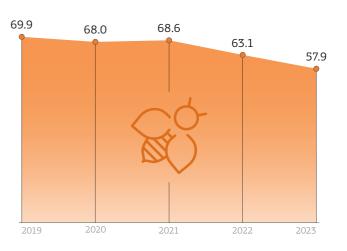




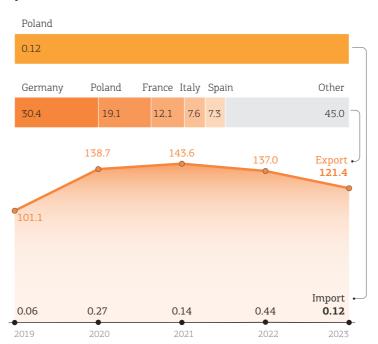
Balances of honey production and consumption, thou. t



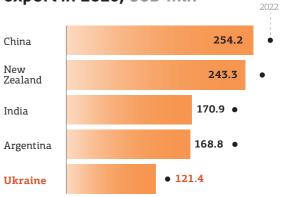
Honey production, thou. t



Honey trade and main partners in 2023, USD mln



Top 5 countries by honey export in 2023, USD mln



The Ukrainian honey market is undergoing a period of transformation, and beekeepers are actively looking for new income opportunities. Despite this, export figures remain high: in 2023, Ukraine exported over 55.4 thousand tons of honey, reaching the pre-war level. As of June 5, 2024, updated rules for duty-free trade came into effect, protecting the EU market from oversaturation. In particular, an annual honey quota of 44.4 thousand tons was established.











Processing industry

PROCESSING INDUSTRY



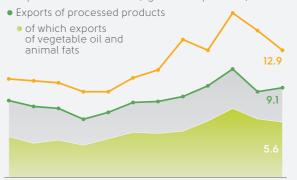
Despite the war and the blockade of maritime exports, Ukraine's processing industry continued to develop. In 2023, the main export commodity was sunflower oil (5.7 mln t), with exports increasing by 33%. Exports of wheat flour rose by 72%, sugar by 153%, and pasta by 33%.

Over the next 10 years, the Government plans to increase the share of processing in GDP to 20% and attract \$90 billion in investments. After the closure of traditional export routes, the EU has become the main market for Ukraine. However, exports to the EU are complicated by high tariffs on processed products, quota restrictions, and logistical challenges.

Export of processed products and raw materials from Ukraine,

USD bln

• Exports of raw materials (agricultural products)



2012 '13 '14 '15 '16 '17 '18 '19 '20 '21 '22 2023

Balance of exports and imports of processed products, USD bln



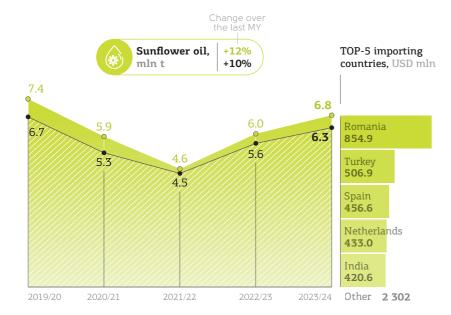


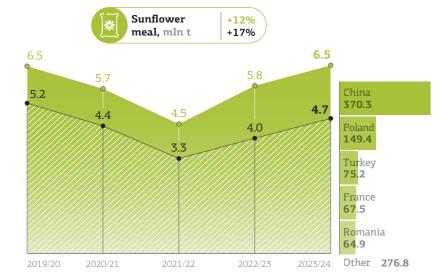




Production and export of oils and meal

Due to increased harvests and the restoration of traditional export channels for oil, **enterprises significantly expanded the processing of sunflower seeds at domestic facilities.** During the 2023/24 marketing year, 15.7 million tons of seeds were processed, which is 1.7 million tons more than the previous year. The growth in demand for Ukrainian oil was facilitated by **competitive prices**, which attracted the interest of global importers, as well as **stable maritime shipments through the Ukrainian Corridor.**

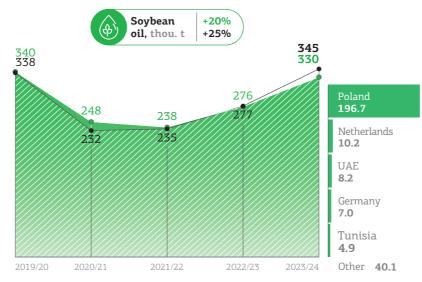


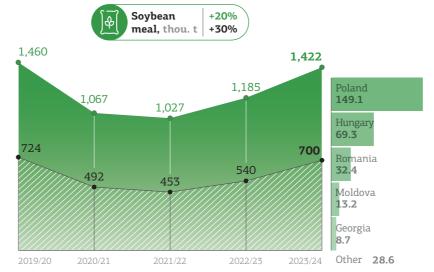




Ukraine continues to increase the production and export of soybean oil and meal. In the 2023/24 marketing year, soybean oil production increased by 20%. As a result, soybean processing volumes increased to 1.8 million tons (+20%), indicating **active development in the processing sector.**

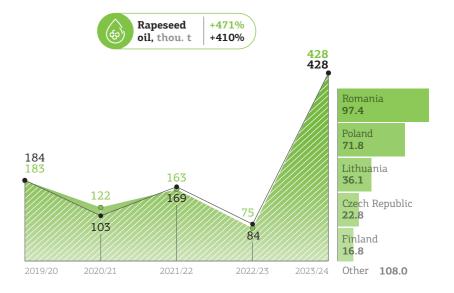
The increase in soybean meal production allowed **for a 30% rise in the export volumes of this product.**

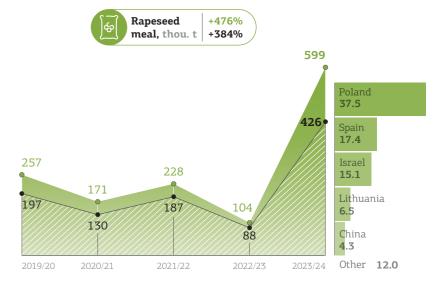




Rapeseed oil production **reached a historical maximum** of 428 thousand tons. For the first time, domestic processing of rapeseed reached 1 million tons, accounting for 22.3% of the harvest.

In the 2023/24 marketing year, **rapeseed oil exports increased by 410%**, reaching 428 thousand tons. This growth was driven by an increase in rapeseed harvests, high global demand, as well as favorable prices for Ukrainian products.



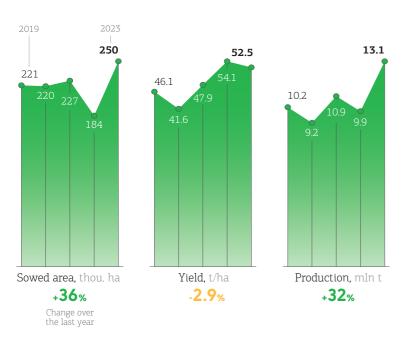


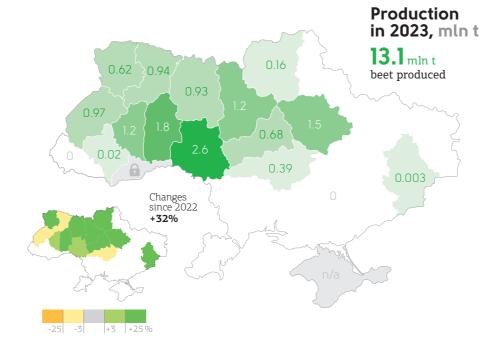






Sugar beet production





2023/24 season

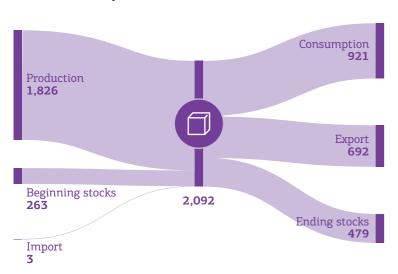
Ukraine achieved its highest sugar production since 2019/20~MY - 1.83~mln t. This season, 7 more factories were operating compared to the last year: three new enterprises in Kyiv region, two in Zhytomyr region, and one each in Khmelnytskyi and Ternopil regions. Among the key factors that contributed to the industry's development was duty-free trade with the EU, which allowed producers to significantly increase export volumes.

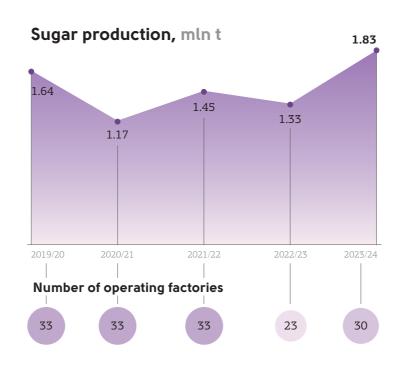
Memorandum of Understanding

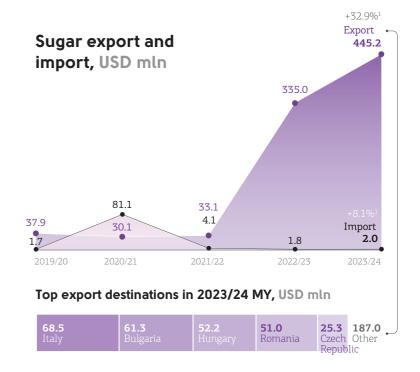
At the end of 2023, the Ministry of Agrarian Policy and Ukrsugar signed a Memorandum of Understanding, setting a quota for sugar exports in 2023/24 MY at 650 thousand tons. In 2024, the quota was increased to 750 thousand tons. of which 92% was used.

EU countries became the main market, where 77% of exported sugar is sent. Other important destinations are the Mediterranean and West African countries, which received the majority of Ukrainian sugar before 2022.

Balance of sugar production and consumption in 2023, thou. t





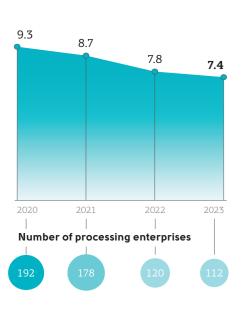


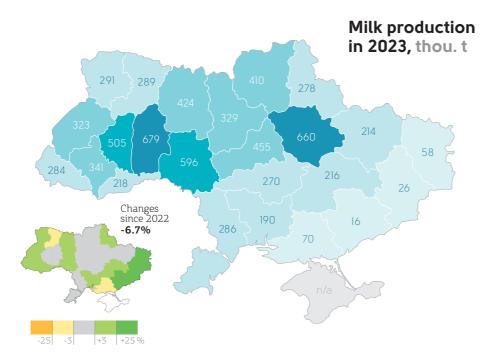


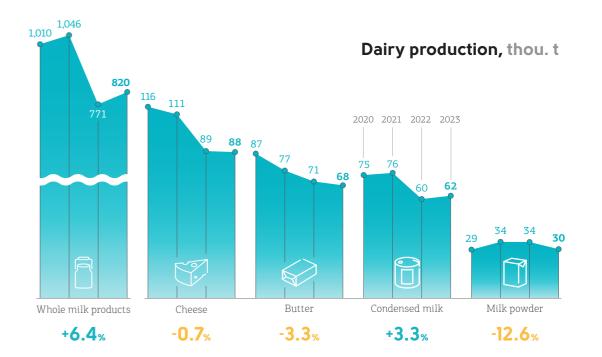




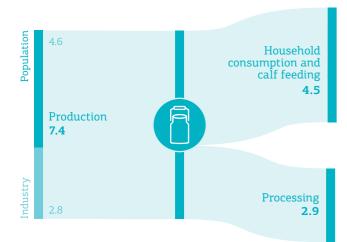
Milk production, mln t





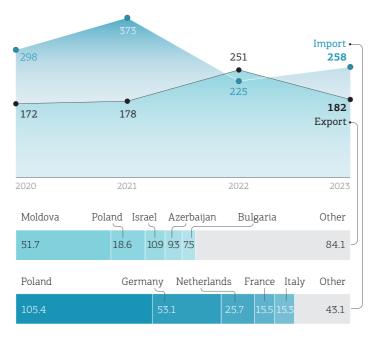


Balance of domestic milk supply in 2023, mln t

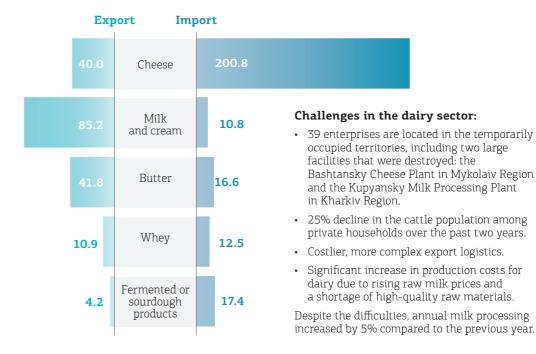


Almost all milk produced in households is used for own consumption. 89% of milk for processing comes from agricultural enterprises

Dairy trade and main partners in 2023, USD mln



Top traded goods in 2023, USD mln



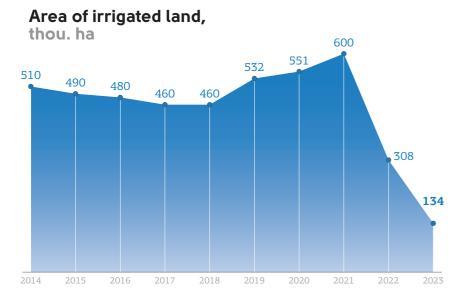








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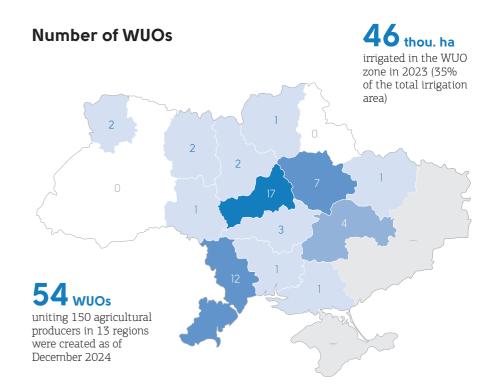
of irrigation systems in Ukraine are outdated and need updating

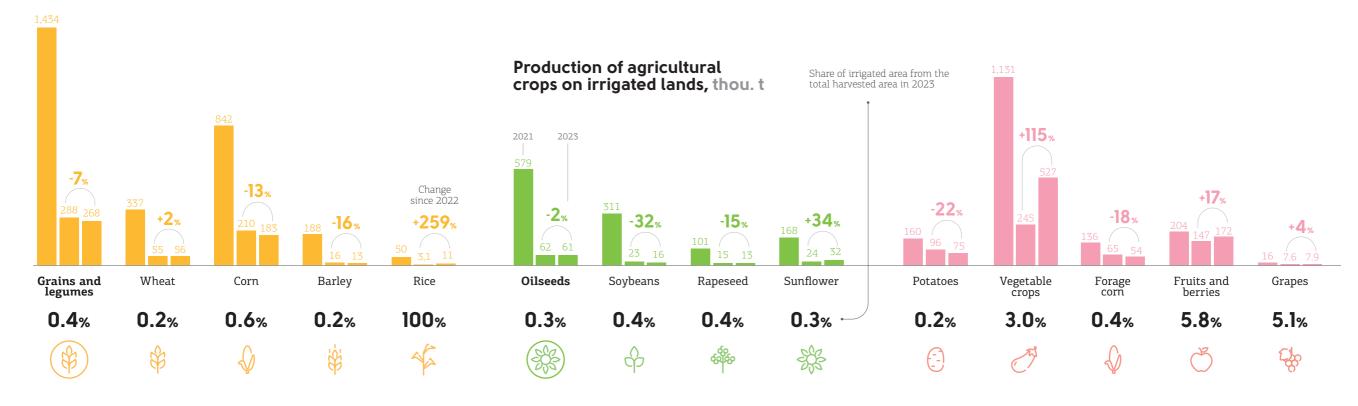
loss of irrigation area since 2021 due to war

In 2023, the trend of reducing irrigated areas continued. In addition to the factors of occupation and active hostilities in the Kherson and Zaporizhzhia regions, the destruction of the Kakhovka Hydroelectric Power Plant (HPP) further exacerbated the situation, as the Kakhovka reservoir was the main source of fresh water for irrigation systems in southern Ukraine. Against this background, the area of irrigated land decreased by 78% compared to 2021. The largest decline was observed for grain and oilseed crops — down by 81% and 89%, respectively. The reduction in irrigated areas under vegetables and orchards was less significant.

Water User Organizations (WUOs)

In 2023, for the first time, the engineering infrastructure facilities of the irrigation network were transferred to the ownership of water user organizations. These are non-profit organizations established by agricultural landowners to manage irrigation systems.











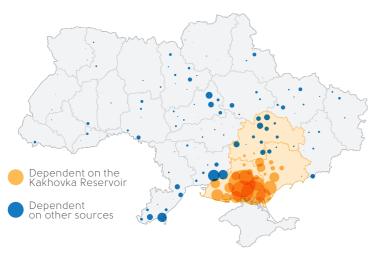
CONSEQUENCES OF THE KAKHOVKA HPP EXPLOSION

The destruction of irrigation systems began as early as 2022 with the start of the full-scale war, through power outages and damage to pumping stations.

Particularly critical damage was inflicted on Ukraine's largest irrigation system, which was fed by the Kakhovka **Main Canal.** The occupiers systematically had been destroying its pumping station, and by November 2022, the station was flooded due to shelling, effectively halting the canal's operation even before the destruction of the Kakhovka HPP.

Irrigation area before the invasion

Average indicators for 2018-2021



Initial losses

5 thou. ha crops flooded and destroyed

Long-term consequences

dry lands after the explosion of the HPP

Impact on soil after the explosion

Upstream:

dehydration and salinization due to drying out of territories

s5 bln

immediate losses from the explosion

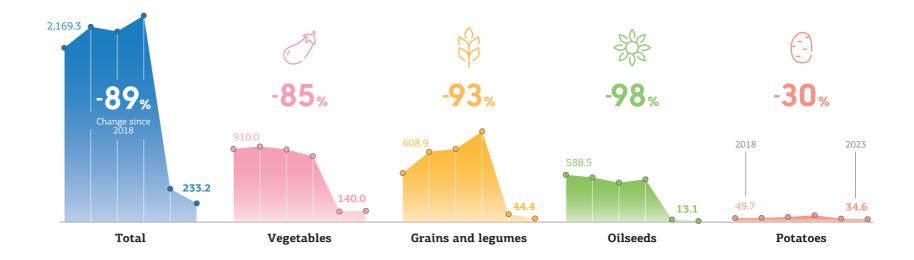
annual long-term losses from the cessation of irrigation

Downstream:

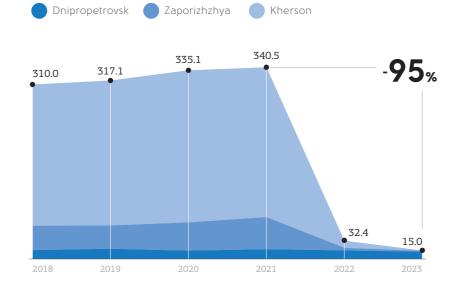
leaching of the fertile soil layer, salinization and contamination with heavy metals and other pollutants

Production of agricultural crops on irrigated lands in 2018-2023, thou. t

Zaporizhzhya, Dnipropetrovsk and Kherson regions



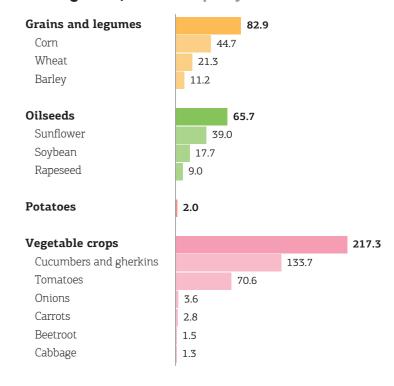
Changes in the irrigated area of the regions dependent on the Kakhovka Reservoir, thou. ha



78%

of irrigated areas of Ukraine depended on the Kakhovka reservoir. This is irrigation in Zaporizhia, 297 thou. ha Dnipropetrovsk and Kherson regions.

Losses due to the cessation of irrigation, USD mln per year



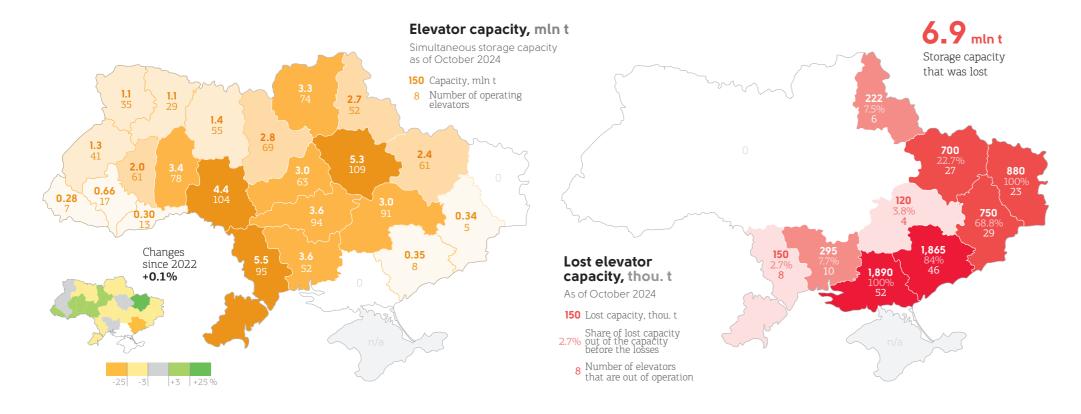






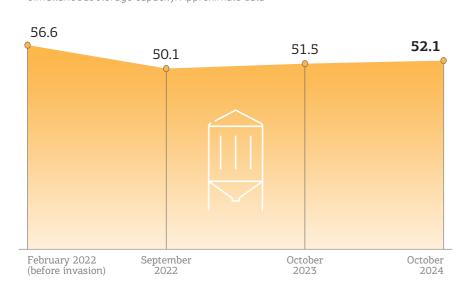




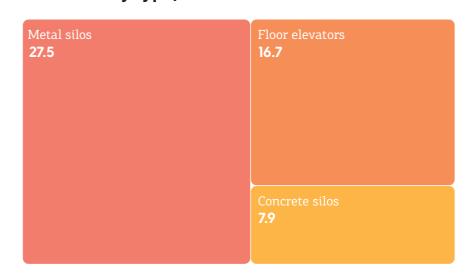


Elevator capacity, mln t

Simultaneous storage capacity. Approximate data



Elevators by type, mln t



Problems and challenges in the grain elevator industry:



Shortage of qualified personnel.

Mobilization and population migration have led to a significant shortage of specialists such as dryer operators, laboratory technicians, mechanics, and electricians.



Increase of logistics costs.

In the northern and eastern regions of Ukraine, logistics infrastructure has been partially destroyed, extending grain delivery time to ports by 3–4 days and raising transportation costs.



Energy risks. Electricity tariffs have doubled. At grain storage facilities, grain dryers are being converted to alternative fuel, enterprises are being equipped with generators in case of power outages, as they try to implement maximum operational autonomy.



Damage and destruction of equipment and facilities due to hostilities and missile strikes,

which is particularly critical for elevator infrastructure in frontline regions.



Problems with imported elevator equipment. The

withdrawal of many American and Canadian grain elevator equipment manufacturers from the Ukrainian market has caused significant difficulties for elevators built before the full-scale invasion. The issue of spare parts and equipment maintenance is particularly acute.







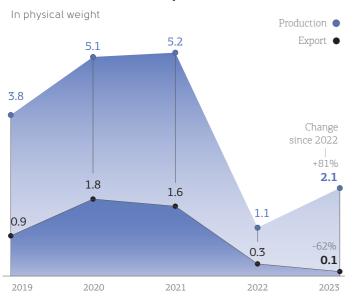


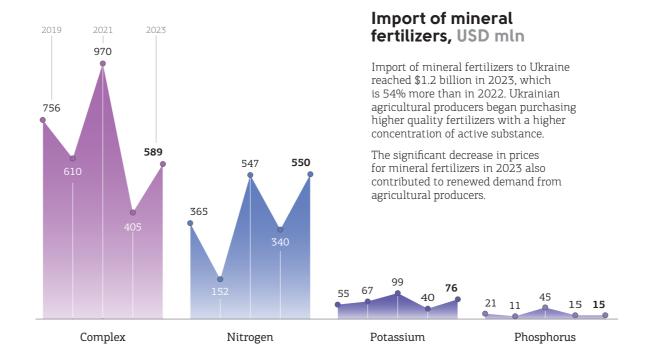




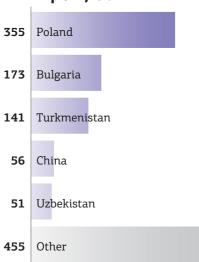


Production and export of nitrogen fertilizers in Ukraine, mln t



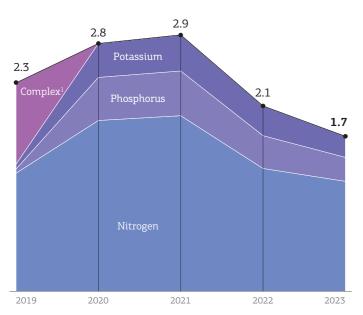


Top countries of mineral fertilizers import, USD mln

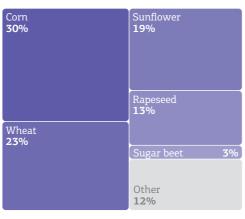


Volume of applied mineral fertilizers, mln t

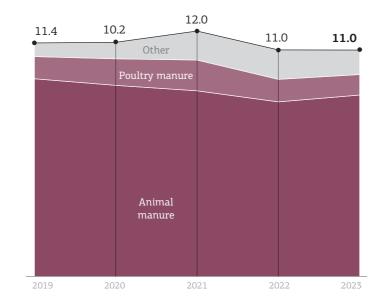
In active substance



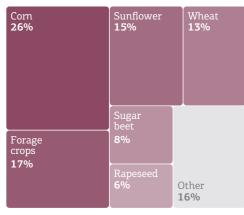
Application structure by crops in 2023



Volume of applied organic fertilizers, mln t



Application structure by crops in 2023

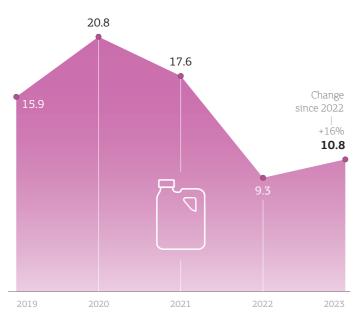


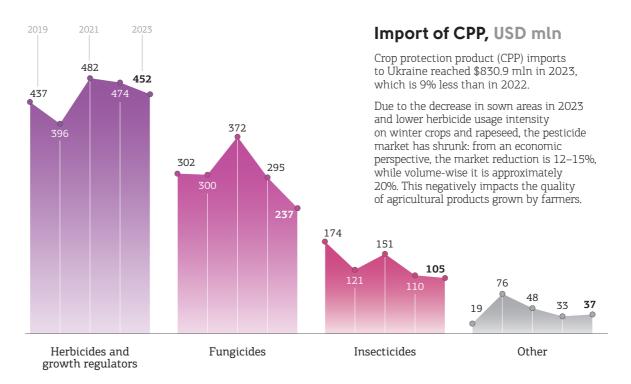




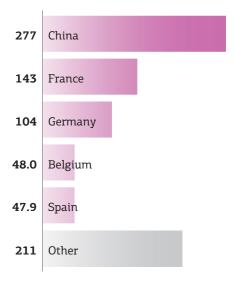


Export of CPP from Ukraine, USD mln

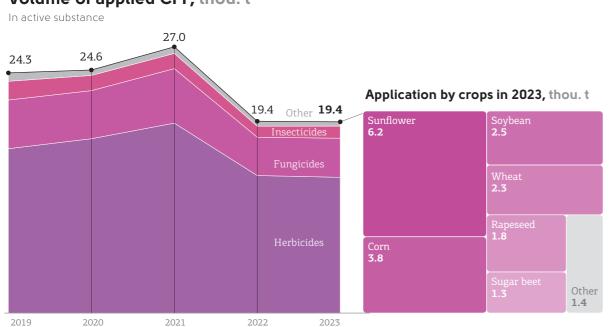


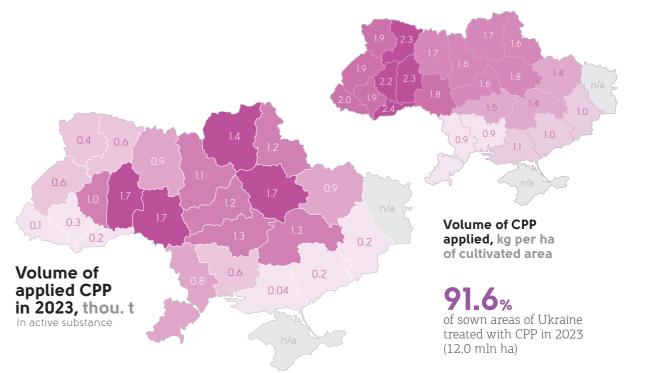


Top countries of CPP import, USD mln



Volume of applied CPP, thou. t



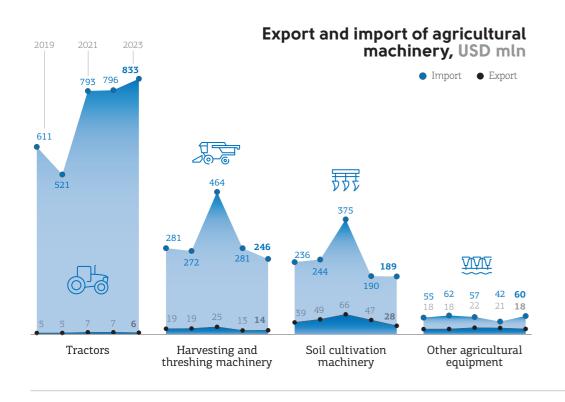




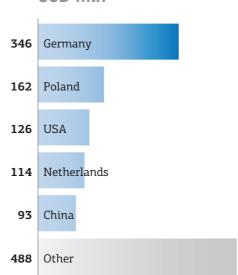




AGRICULTURAL MACHINERY AND SEEDS



Top countries of machinery import, USD mln



In 2023, demand for agricultural machinery in Ukraine remained weak, as farmers experienced low profits due to falling prices for agricultural products. However, in the second half of 2024, demand for machinery improved significantly. At the same time, import in tractor category and other agricultural equipment showed an increas — by 5% and 43%, respectively.

Compensation program for Ukrainian agricultural machinery and equipment

In 2024, the Ukrainian government restored the compensation program for farmers purchasing machinery and equipment of Ukrainian production.

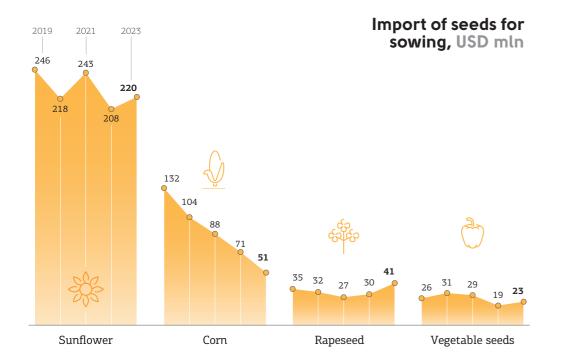
The program provides farmers with a 25% reimbursement of the cost

of Ukrainian-made machinery and

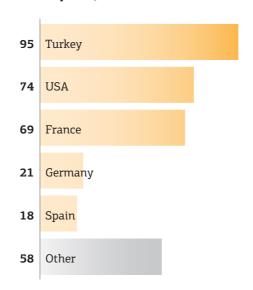
equipment.

-25% of agricultural machinery cost is compensated

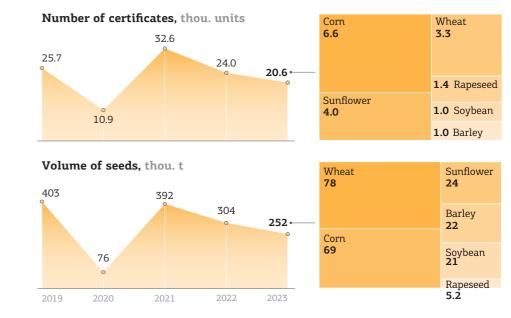
11.8 thou.
units of equipment
from 133 Ukrainian
manufacturers included



Top countries of seed import, USD mln



Seed certification for commercial and sowing quality









BTU BIOTECH COMPANY



The leader in biological products manufacturing for agriculture in Ukraine and the country's only representative in the global TOP-300 biological product manufacturers ranking.

KERNEL







25 years on the market 20 countries in which BTU products are available products

are treated with BTU products annually

agricultural holdings 36 agricultural notumes use BTU products (61%)

Agricultural holdings

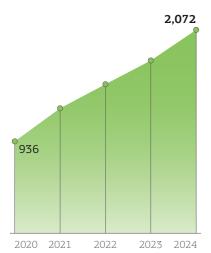
using BTU products

Укрлендфармінг 💭





Number of farms using BTU products



Results of biologicals application

The risk of disease development is **reduced by 1.5-8 times** with the application of biological products

40-60 kg/ha of available **phosphorus** accumulates in the soil with the application of GROUNDFIX

The application of MICOFRIEND and ECOSTERN Trichoderma preparations can reduce the potential denitrification activity by up to 10%

The biological activity of the soil increases **by 11–17%** thanks to the application of ECOSTERN and MICOFRIEND

The potential denitrification activity decreases by 14%, and the biological activity of the soil increases by 35–45% with the application of GROUNDFIX and GROUNDFIX together with **AZOTOFIT**

Impact of BTU stubble destructors on soil biodiversity and soil activity

Results of the study using BIOTREX technology

Control

Only UAN fertilizers

ECOSTERN Bacterial + ECOSTERN Trichoderma + UAN

ECOSTERN Classic + UAN

Index of ecophysiological diversity of soil

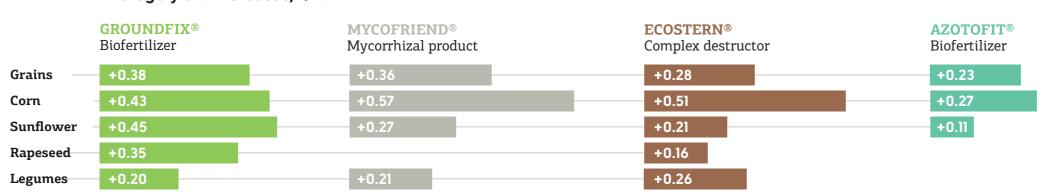
2.84 3.66 4.87

5.61

Microbial activity of soil, thou. points

264 332 377 328

Average yield increases, t/ha



RIZOLINE®

Inoculant

Peas +0.27 +0.26 Soybeans **Beans** +0.24 Lentils +0.24

Chickpeas +0.28







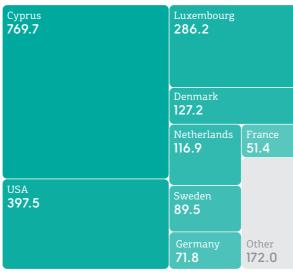


Finance

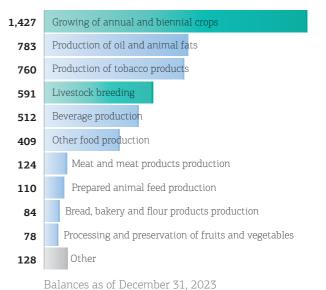
INVESTMENTS IN THE AGRICULTURAL SECTOR

Direct investments 1.128 in the agricultural sector of Ukraine, USD mln Investment flows Volume of direct investment (equity capital) by non-residents in Ukraine and residents abroad 539 By types of economic activity, USD mln 483 1,573 Wholesale and retail trade 762 Financial and insurance activities 607 Information and telecommunications 539 Food industry 131 38 131 Agriculture 723 Other 2023 2019

Countries of origin for direct investment in agriculture, USD mln



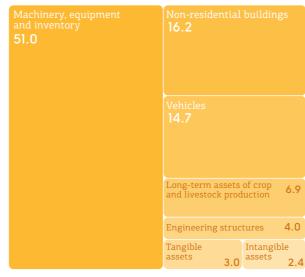
Direct investments by types of activity, USD mln



Balances as of December 31, 2023

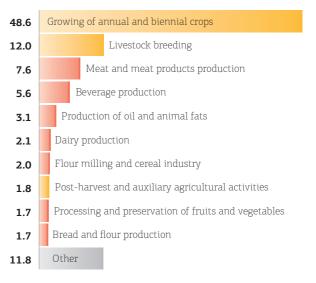
Capital Investments 65.4 in the agricultural sector of Ukraine, UAH bln Expenses for the acquisition of long-term assets: initial cost of buildings and structures, new machinery and equipment, intangible assets (patents, licenses, know-how, etc.) By types of economic activity, UAH bln 188 Industry 66 Public administration, defense 65 Agriculture -56 Trade 54 Transport and logistics 42 Construction **33 Food industry** 123 Other 2.02.2 2023 2019 2020 2021

Capital investments in 2023 by type of assets, UAH bln



Agriculture and food industry

Capital investments by types of activity in 2023, UAH bln



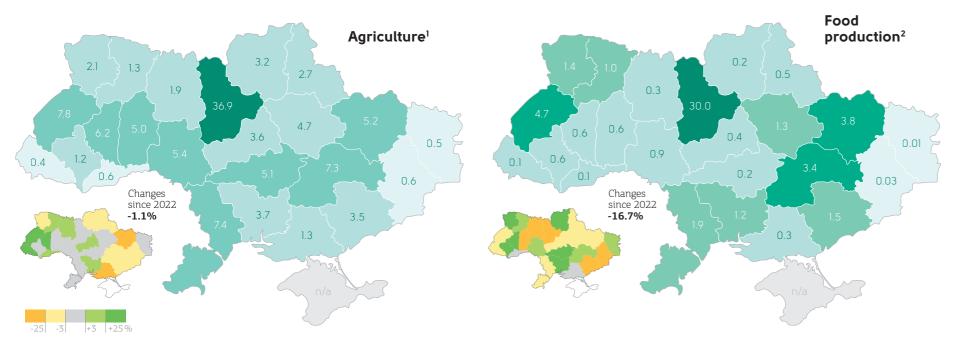




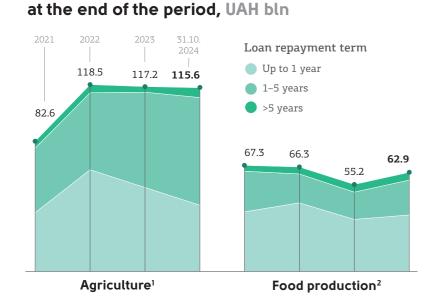


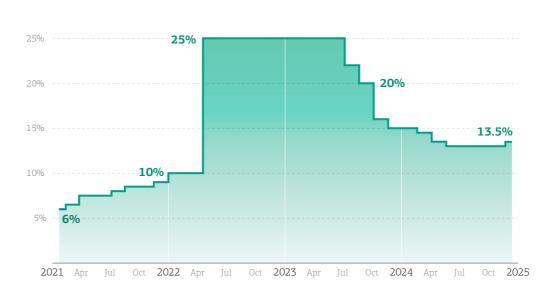
Credits granted by depository corporations to non-financial corporations, UAH bln

As of 31.12.2023



NBU key policy rate, %



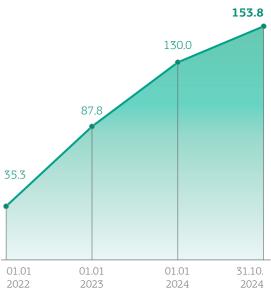


The category includes

agriculture, forestry and fish industry

Credit portfolio of agricultural enterprises covered by the "5-7-9%" program, UAH bln

Accumulating chart



Following the crediting growth in 2022, **the credit portfolio stabilized** in 2023-2024. There is an increased demand for investment financing with longer loan terms. **The key policy rate has stabilized after several reductions.**

Agricultural producers continue to actively use **the "5-7-9" program with updated terms.** The latest changes include higher compensation

The latest changes include higher compensation rates and the requirement to comply with environmental and social standards for agricultural producers and processors of agricultural products.

On the market, various risk-sharing programs are popular: programs implemented by banks in cooperation with international organizations such as the EBRD and IFC, as well as the state portfolio guarantee program and guarantees from The Partial Credit Guarantee Fund in Agriculture. Programs with the EBRD and USAID also help reduce reduce financing costs.



Crediting: balances







In 2023–2024, the agricultural support system in Ukraine largely **depends on international donors** due to constraints on the state budget. During wartime and economic difficulties, the government continues to support agriculture through various programs, however, the majority of funding comes from international organizations and funds.

ARISE Project

The Ukraine Agriculture Recovery Inclusive Support Emergency (ARISE) Project from the World Bank is aimed at supporting the recovery of agriculture in Ukraine. **Project components:**

\$500

Financing for the **Affordable Loans 5-7-9% Program**

\$49.2

Grant support for farming households cultivating 1 to 120 ha and/or keeping 3 to 100 cows

\$0.8 mln

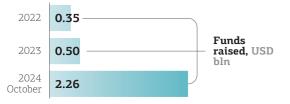
Project management: coordination and monitoring

Emergency response: funds can be redistributed in the event of an emergency caused by the russian invasion.

USAID Agriculture Growing Rural Opportunities Activity (AGRO)

The USAID AGRO program helps rural communities by supporting micro, small, and medium-sized agricultural enterprises.

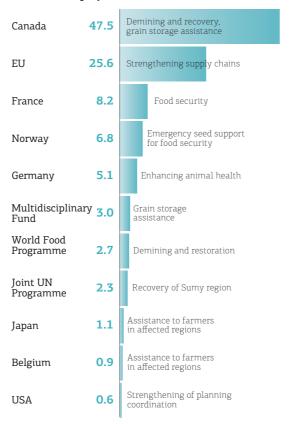
The key goal is to maintain the economic activity of agricultural producers, restore sales channels, and ensure food security in the face of a full-scale invasion.



FAO projects in Ukraine

FAO programs are funded by contributions from donor countries, international organizations, private companies, and charitable foundations. FAO acts as a coordinator between donors, governments, and local communities, allowing resources to be effectively directed where they are needed most.

Current FAO projects in Ukraine, USD mln



Ukrainian farmers have wide access to various grant support programs through the State Agricultural Register. The main support programs include:

Program
"Affordable
Loans 5-7-9%"

Grant programs for horticulture and greenhouses Support for farms on irrigated lands

Partial compensation for domestically manufactured agricultural machinery Humanitarian demining compensation programs

State Agrarian Register

The State Agrarian Register (SAR) is an online platform to support Ukrainian farmers. It allows farmers to register their activities and access state support programs, preferential loans, grants and other assistance.

SAR is integrated with other government systems to ensure transparency and efficient program administration, enabling farmers to track the progress of their applications in real time.

176 thou.

agrarians are registered in the SAR as of September 18, 2024

50 programs

supporting farmers have been implemented through the SAR during its operation

Affordable loans 5-7-9%

Conditions for farmers in 2024

- Interest rates: from 5% to 15% per annum, depending on the type of business and credit purpose. For enterprises in high-risk war zones, the rates are reduced to 1–3%.
- Maximum amount: up to 150 mln UAH.
- Change of condition: starting from December 1, 2024, the World Bank introduces a new condition for providing credits under the 5-7-9% program, under which funding will be provided only after the bank conducts an environmental and social assessment of the clients.

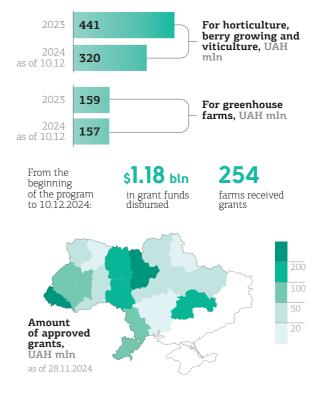


Grants from eRobota for the development of horticulture, berry growing, viticulture, and greenhouse farming

Grant size: up to 70% of the project cost, but not more than 10 mln UAH. The participant himself finances 30% (own or borrowed funds).

Employment conditions:

- Orchards: 5–10 permanent and 125-425 seasonal workers depending on the plantations
- **Greenhouses:** 4 permanent and 10 seasonal workers per hectare











Sustainable agriculture

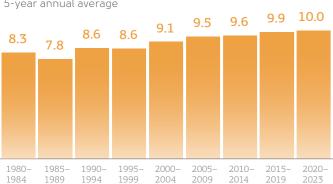
Climate change in Ukraine

The climate in Ukraine is changing rapidly, each decade becoming warmer than the previous one. The average annual temperature has increased from 7.8 °C to almost 10 °C in recent decades. This leads to an increase in the number of days with high temperatures, causing droughts and reduced crop yields.

The rise in temperature has partial advantages, such as a reduced risk of crops freezing and the possibility of two harvests per year in some regions. **However, the** negative consequences are more significant: over the past decade, annual precipitation has decreased by 3%, which significantly reduces soil moisture reserves and worsens the condition of crops.

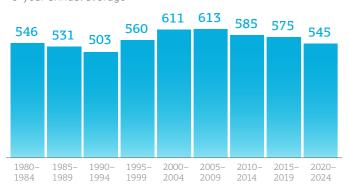
Average annual air temperature in Ukraine, °C

5-year annual average

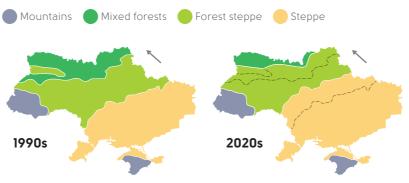


Amount of precipitation in Ukraine, mm

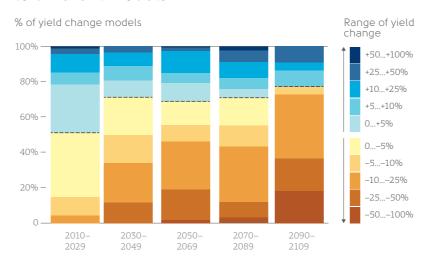
5-year annual average



Shift of natural zones



Forecast of yield changes according to different models



The chart shows the projected changes in crop yields in the 21st century compared to the end of the 20th century for tropical and temperate regions under different emission and adaptation scenarios.

The forecasts indicate **a significant** decline in yields if temperatures rise by 2°C or more, especially without adaptation, although some regions may benefit.

For the period 2030–2049, most forecasts predict a noticeable decrease in yields.

After 2050, the risks continue to grow and depend on the level of warming. Yield variability is also expected to increase in many regions.

The impact of the war on the climate

Russia's war in Ukraine causes significant **environmental damage** and affects the global climate by emitting significant amounts of greenhouse gases into the atmosphere. Most of the emissions come from Ukraine, while a third come from beyond its borders, demonstrating the global scale of the war's climate impact.

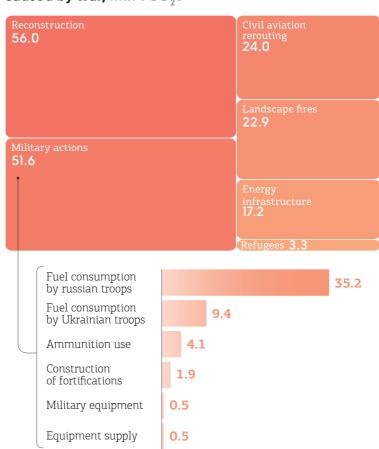
of CO, equivalent total emissions of Ukraine for 2023

global greenhouse gas emissions caused by 2 years of full-scale war

climate damage from hostilities caused by russia (\$185 per ton of CO, emissions)

Greenhouse gas emissions caused by war, mln t CO₂e

For 2 years of full-scale war







SUSTAINABLE AGRICULTURE

What is sustainable agriculture

Sustainable agriculture is an approach to agriculture aimed at **achieving** a balance between food production, environmental protection, and social well-being. For Ukrainian farmers, implementing sustainable practices is crucial for preserving black soil, adapting to climate change, and maintaining export potential to EU countries.

Traditional farming

Sustainable agriculture

Maximizing profits and **yields** at any cost



Balanced combination of economic, environmental and social objectives

Deep plowing, **frequent** mechanical tillage



Minimum tillage, **preservation** of soil structure: precision agriculture, no-till, strip-till, etc.

Monoculture crops



Crop rotation, crop diversification, polyculture

Intensive irrigation with excessive water use



Rational water management,

moisture conservation, drip irrigation and natural reservoirs

Wide use of **chemical** pesticides for pest control



Integrated pest management, use of natural enemies and biological methods

Use of **synthetic fertilizers**, sometimes excessive



Optimization of fertilizer **application** and management of nutrient residues. Use of **organic** fertilizers, compost, green manure

Industrial methods of livestock grazing with restricted movement



Free grazing, natural conditions, herd optimization, multi-species integration, rotational grazing and manure management

Short-term economic effect, exhaustion of resources



Long-term sustainability of production, **preservation** of soil fertility and biodiversity

Problems of implementing sustainable agriculture in Ukraine



Land resource degradation

Monoculture farming, heavy machinery and crop rotation violations cause soil exhaustion, reduced fertility and loss of biodiversity.



share of plowed land in Ukraine, while the average in European countries is 30–35%.



Environmental pollution

Irrational use of pesticides and fertilizers leads to pollution of groundwater and surface water with nitrates. This poses a threat to public health, especially in rural communities, and can cause problems with access to safe drinking water.



over-fertilized





Lack of agricultural waste management infrastructure

Crop waste is mostly burned, and animal remains are dumped or stored in inappropriate areas. This leads to soil degradation, water and air pollution. In conditions of mineral fertilizer shortage, organic fertilizers from agricultural waste could become an effective alternative.



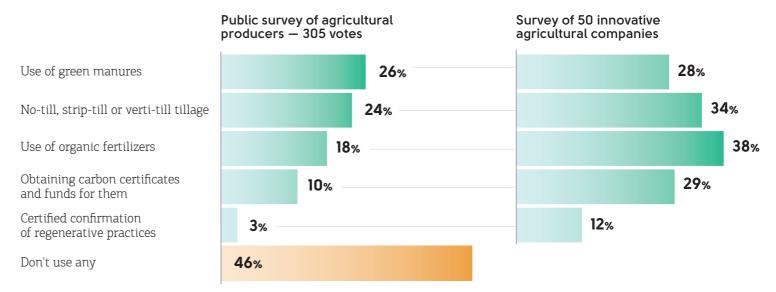
Climate challenges

In the context of climate change, agriculture requires two parallel transformations: first, reducing its own contribution to climate change by improving energy efficiency and reducing greenhouse gas emissions, and second, adapting to new climatic conditions to ensure stable food production.



share of greenhouse gas emissions caused by Ukrainian agriculture in 2023

Use of sustainable agriculture technologies in Ukraine







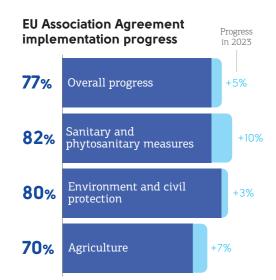


EUROPEAN INTEGRATION



EU Association **Agreement**

- Ukraine signed an Association Agreement with the EU, requires meeting a number of requirements for the agricultural sector. Annex XXXVIII contains 57 EU acts (19 directives, 37 regulations) for regulating agriculture in Ukraine.
- At the time of obtaining candidate status, most acts regarding quality and marketing standards for agricultural products were implemented.
- However, acts related to the common market organization were not **implemented,** in particular:
- protection of agricultural producers protection of agrees; from unfair practices;
- rules for financing and supporting farmers through the EU Common Agricultural Policy (CAP);
- regulation of pesticide, fertilizer, and ☐ ★☐ genetically modified product use;
- monitoring, accounting and promotion of agricultural products on EU markets.





EU Regulation on Autonomous Trade **Measures (ATMs)**

- In effect since June 2022, extended until June 2025.
- The regulation allows duty-free access for all Ukrainian goods, including agricultural products, to the EU market.
- In case of negative impact on the EU market, protective mechanisms may be introduced.
- In 2023, some EU countries, including Poland, Hungary and others, **introduced** temporary restrictions on agricultural imports due to farmers' protests.
- "Solidarity corridors" for Ukrainian product export remain operational but create local market tension in the EU.



The EU Common Agricultural Policy (CAP)

- This is a set of laws and regulations that define rules for EU farmers and affects partner countries, including Ukraine.
- New goals are set every 5 years, and the current period **focuses** on climate practices.
- Ukraine's potential EU membership may influence CAP funds and subsidies. Ukraine could receive a significant portion of subsidies, which would change the process of fund allocation for EU countries.
- The compliance of the Ukrainian agricultural sector with the CAP environmental standards will **determine** the future export of agricultural products to the EU.



Paris Climate Agreement, Scope 3

- The Paris Agreement, signed by 195 countries, **commits to reduce** greenhouse gas emissions.
- The EU aims to achieve net zero by 2050, which means eliminating not only direct emissions but also emissions associated with imported goods through supply chains (Scope 3).
- For the agricultural sector, this involves managing emissions arising from production, transportation and processing of products.
- The EU already considering these aspects in its import regulations. Ukrainian farmers must meet EU environmental standards.



EU Green Deal. Farm to Fork Strategy

- The European Green Deal is EU program to achieve Paris Climate Agreement goals, which provides for a transition to sustainable development through a set of measures across various economic sectors.
- The Farm to Fork Strategy is part of this agreement, focused on creating a sustainable food chain from producer to consumer. The main goals are:
- Reducing pesticide use by 50% by 2030;
- Increasing organic land area by 25% by 2030;
- reducing nutrient losses by 50%.

What are carbon credits?

This is a market mechanism to fight climate change that allows agricultural producers to receive financial rewards for implementing environmentally **sustainable practices.** Farmers can obtain carbon credits if their activities contribute to reducing emissions or preserving carbon in the soil.

To do this, their projects must be verified according to international standards. Farmers can sell the obtained certificates on the voluntary carbon market, receiving additional income for their efforts towards environmental sustainability.



practices

Reduction of

emissions or carbon

preserving in soil through

sustainable agriculture









Result verification and obtaining a carbon certificate -1 t CO₂e = 1 certificate

Certification Agricultural producer organizations

Companies with high emission levels **buy** certificates to offset their carbon footprint

Through intermediaries or directly



Reduced tillage

Without the use of cover crops

Up to $1^{\text{certificate}}_{\text{per hectare}}$

the most authoritative.

There are several companies operating

on the Ukrainian market that help agricultural

producers obtain and sell carbon credits. They

issue credits based on the ISO 14064-2:2019

standard and, in parallel, working on obtaining

specialized agricultural certification, particular-

ly under the Verra standard, which is currently

Reduced tillage

Use of cover crops Use of mineral

certificats Up to \perp per hectare



Reduced tillage

Use of cover crops

Use of organic fertilizers and liming

Up to $\frac{3}{9}$ certificats

Volume of transactions

in the voluntary agricultural carbon market in 2023

USD miln

mln t CO,e











DONAU SOJA: PROTEIN PARTNERSHIP PROGRAMME

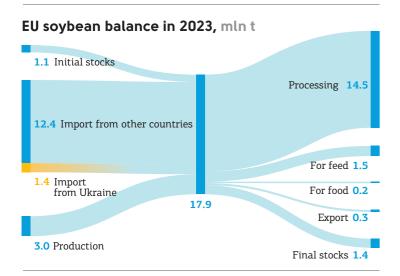




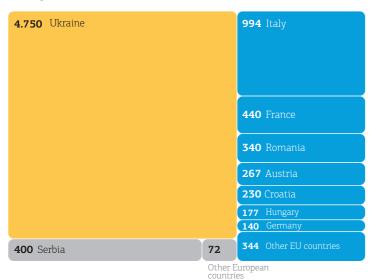
Soya — a EU integration crop

Ukraine has the greatest potential in Europe for increasing soybean production — both in terms of volume and sustainability.

Therefore, **Ukraine can significantly reduce the EU's dependence on imported soya** and processed products, and take its rightful place in the European value chain.



Soybean production in selected European countries in 2023, thou. t



EU Deforestation Regulation (EUDR)

The EUDR regulation requires **verification of no deforestation** in the production of certain goods imported to the EU, including soybeans, soya meal and oil.

EUDR compliance requirements:





Geolocation of all fields where the product was grown

Confirmation of no deforestation after 2020





Traceability of each batch of product to the field

Confirmation of legality of production

Overview of upcoming EU regulations

EU Sustainability Reporting (CSRD)

Companies must report **their CO₂ footprint** along the supply chain

From 2025 for companies not covered by the NFRD

From 2026 for companies outside the EU

EU Supply Chain Act (CSDDD)

Companies must ensure due diligence to identify, prevent, reduce and eliminate negative impacts on human rights and the environment.

From 2027

Protein Partnership Programme

A Donau Soja Programme to increase sustainable non-GM soya production in Europe for Europe.

The agricultural producer receives:



Coverage of certification costs under Donau Soja standards, including GMO and pesticide residue analyses



Certified production according to EU rules — front-runners of EU integration



Verification on deforestation and conversion-free status based on the satellite image analyses



Promoting of Ukrainian producers
— participants of the Protein
Partnership Programme,
as producers of "climate-friendly
soybeans" in Europe

EUDR and Donau Soja

The requirements of Donau Soja standards are stricter than those of EUDR. Therefore, our partners in Ukraine can provide documents that help to meet EUDR requirements:



Geolocation of soybean fields in the Donau Soja IT traceability

system

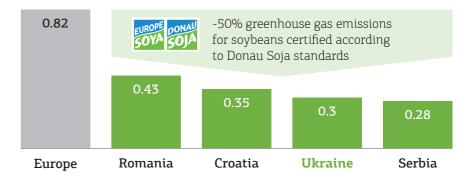


Confirmation of legality via the inspection checklists



Deforestation-free and conversion-free verification based on satellite image analysis (cut-off date 2008)

Scope 3 emissions reduction, kg CO₂e / kg soybeans









Biomass

Biomass is any substance of plant or animal origin that can be used as an energy source. **Biomass** can be burned to generate thermal energy, or converted into biogas, biomethane, **liquid fuels** (such as bioethanol) or solid fuels (briquettes, pellets).

Ukraine has 500.000 hectares of land that needs restoration. Growing energy crops on these lands could annually replace up to 2.7 billion m³ of natural gas and restore soil fertility. As of the beginning of 2024, only 6,500 hectares of low-productivity land are used for such crops.

110 MW Sunflower husks 67 MW Wood

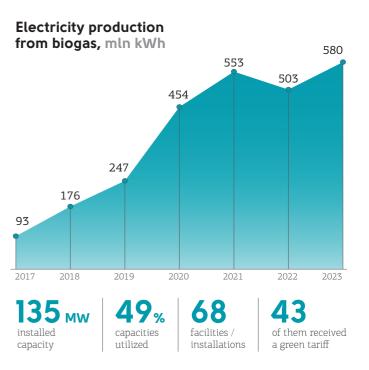
Electricity production from biomass, mln kWh



Biogas and biomethane

Biogas is a gas mixture formed during anaerobic fermentation of organic materials. It contains methane and carbon dioxide and is suitable for electricity generation and heating. Compared to biomass, electricity production from biogas requires more complex technologies, but more efficiently converts organic waste into useful energy. It can be stored and transported like conventional natural gas.

Biomethane is a purified version of biogas with methane content over 95%, suitable for use in gas networks and as transport



Bioenergy development in Ukraine



First biogas plants appeared. They were mostly installed at agricultural processing plants to produce their own energy from the waste



August 2, 2022

of TPPs/CHPs

on biomass

A resolution was adopted that allows biomethane supply to Ukraine's gas distribution systems



utilized

April 2023

The first biomethane plant, built on the basis of existing biogas production capacities, was put into operation and connected to the gas network

installations



March 20, 2024

A law on on biomethane export from Ukraine was adopted



August 13, 2024

The National Renewable Energy Action Plan until 2030 was approved



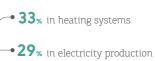
By the end of 2024

Seven biomethane projects are planned to be launched

National Renewable Energy Action Plan until 2030

The National Plan sets ambitious goals for 2030:





• 17% in the transport sector

The European Commission plans to produce 35 billion m³ of biomethane annually by 2030. Ukraine can provide up to 20% of this demand.

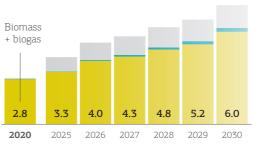
The country's bioenergy potential is 21.8 billion m³ per year, which is almost equal to gas consumption in 2023 $(21.4 \text{ billion m}^3)$.

Energy consumption to achieve targets by 2030

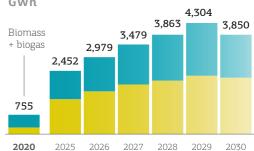




Heating systems, mln t of oil equivalent



Electricity production, GWh



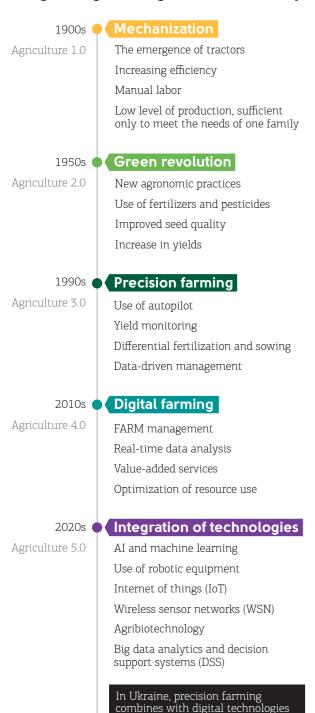




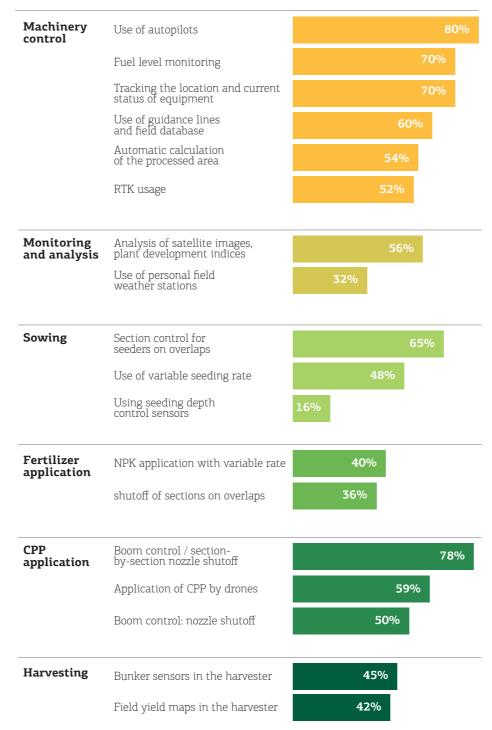


DIGITALISATION OF THE AGRICULTURAL SECTOR

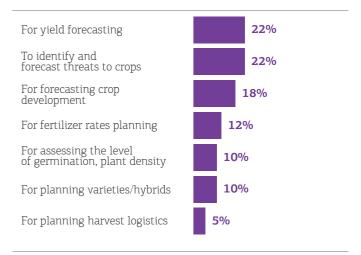
Stages of global agri-sector development



Use of technologies in agriculture¹



Use of artificial intelligence¹



¹The data was collected based on a survey of 50 agricultural enterprises in Ukraine, among which 4 questionnaires were conducted. The survey is not representative. Companies included in the targeted survey represent all segments of agribusiness — from micro, small and medium enterprises to large agricultural holdings

80%

level of application of digital technologies in innovative companies¹

3-1 mln ha

were cultivated using agricultural drones in 2021–2023 in Ukraine

As of 2021, Ukraine's AgTech **sector comprised approximately 70 startups** operating in various areas: land bank management, precision agriculture, drone usage, and other innovative solutions. In recent years, the number of startups has likely increased, reflecting the dynamic development of the industry even amid the challenges of war.

Support ecosystem: The Ukrainian AgTech ecosystem is supported by business accelerators and venture capital funds that facilitate the adoption of innovations.

Innovation development priority: AgTech is one of the key sectors within the framework of the Global Innovation Vision of Ukraine 2030.





and integration of technologies

is already underway.





SOURCES AND METHODOLOGY

Abbreviations on the pages

State institutions of Ukraine

uspa.gov.ua customs.gov.ua Ukrainian Sea Ports Authority

State Customs Service of Ukraine State Statistics Service of Ukraine

ukrstat.gov.ua

State Emergency Service of Ukraine

dsns.gov.ua

darg.gov.ua dar.gov.ua State Fisheries Agency of Ukraine

State Agrarian Register

land.gov.ua

State Service of Ukraine for Geodesy, Cartography and Cadastre

landbank.spfu.gov.ua

Land bank

kmu.gov.ua

Cabinet of Ministers of Ukraine

minagro.gov.ua

Ministry of Agrarian Policy and Food of Ukraine

mfa.gov.ua

Ministry of Foreign Affairs of Ukraine

nas.gov.ua

National Academy of Sciences of Ukraine

demine.gov.ua

National Mine Action Platform

bank.gov.ua

National Bank of Ukraine

bdf.gov.ua

Business Development Fund of Ukraine

Ukrainian organizations and media

uabio.org

Bioenergy Association of Ukraine

infoindustria.com.ua

Information and Analytical Agency Infoindustry

kse.ua

Kyiv School of Economics

ukrsugar.com

National Association of Sugar Producers of Ukraine

uadairy.com

Union of Dairy Enterprises of Ukraine

ecoaction.org.ua

Center for Environmental Initiatives "Ecodia"

ces.org.ua

Center for Economic Strategy Boris Sresnevsky Central

cgo-sreznevskyi.kyiv.ua

Aggeek

Geophysical Observatory

carboncreditukraine.com

DeepStateMAP

Latifundist Media (Latifundist.com, Elevatorist.com, AgroPolit.com)

Truth Hounds

International and foreign organizations

Ecosystem Marketplace

Food and Agriculture Organization of the UN

Foreign Agricultural Service of US Department of Agriculture

Initiative on GHG accounting of war

Intergovernmental Panel on Climate Change

Trade Map

International Trade Centre's Trade Map

Project Expedite Justice

USAID AGRO

U.S. Agency for International Development. Agriculture Resilience Initiative — Ukraine

OCHA HDX

United Nations Office for the Coordination of Humanitarian Affairs, Humanitarian Data Exchange

World Bank

World Bank Group

Publications and documents

Project Expedite Justice Truth Hounds

Study of the Destruction of the Kakhovka Dam and Its Impacts on Ecosystems, Agrarians, Other Civilians, and International Justice

Agricultural War Damages, Losses, and Needs Review (February 2024)

Report on Implementation of the Association Agreement Between Ukraine and the EU for 2023

National Renewable Energy Action Plan until 2030

Sustainable recovery and development for agriculture: a standpoint

Aggeek

Digital Agro 2024

IPCC

Climate Change 2014: Synthesis Report

Initiative on GHG accounting of war

Climate Damage Caused By Russia's War In Ukraine (24.02.2022-23.02 2024)

Ecosystem Marketplace

State of the Voluntary Carbon Market 2024



Ukraine Third Rapid Damage And Needs Assessment RDNA3 (Feb 2022 – Dec 2023)









Methodology

The 11th issue of the annual infographic guide "Agribusiness of Ukraine 2023/24 MY" highlights the impact of the war on key agricultural sector indicators and analyzes the main **trends** observed in the industry during the third year of the full-scale invasion.

The data for this study was collected and prepared in 2024, reflecting the results of the 2023 calendar year and the 2023/24 marketing year (MY). It should be noted that the data may vary due to differences in the calculation methodologies used by various organizations.

The comparison period was selected to include the pre-invasion year (2021), allowing for an assessment of the war's impact on industry indicators. For individual indicators, such as export dynamics and GDP, a longer analysis period was used. This provides a more complete and representative picture of changes and trends in the agricultural sector within the context of long-term structural processes.

Legend on the maps:

Data are not published in order to comply
with the requirements of the Law of Ukrain

No data available due to lack of access to the temporarily occupied territories, combat zones, etc.

A value cannot exist for a certain reason. For example, a government program cannot operate in the temporarily occupied territories

Authors







Part of Fortior Capital

TOP LEAD

Marina.budnik@toplead.com.ua toplead.com.ua

Planning

Latifundist.com

Dyachenko@latifundistmedia.com

Production, planning and design

Supported by



Crédit Agricole Bank

Kyiv, 01024, 42/4 Yevhena Chykalenko St., 0 (800) 30-55-55

credit-agricole.ua

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Do not use the information contained in the report as professional advice on a particular issue or to make a professional judgment. The data was collected and prepared for publication in 2024 based on the results of the 2023/24 MY and the 2023–2024 calendar years.

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