Trends and challenges during the spring season on the Black Sea ag markets

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50% of energy system is destroyed 22% (7 mln hectares) of arable land is occupied

1 800 units

Source: Kyiv School of Economics, February 2023

1 216 units



| | Property type | Damage assessment | t, \$ billion |
|----------|---------------------|-------------------|---------------|
| | Housing | | 53.6 |
| 3 | Infrastructure | | 36.2 |
| R | Assets of enterpri | ses, industry | 11.3 |
| T | Education | | 8.9 |
| 54 | Agriculture and la | nd resources | 8.7 |
| Ð | Energy | | 8.1 |
| A | Forests | | 4.5 |
| ļ | Transport | | 3.1 |
| | Trade | | 2.3 |
| Î | Culture, sport, tou | urism | 2.2 |
| 4 | Healthcare | | 1.8 |
| 6 | Utilities | | 1.4 |
| R | Electronic commu | nications | 0.6 |
| Â | Administrative bu | ildings | 0.5 |
| ß | Social sphere | | 0.2 |
| 4 | Financial sector | | 0.04 |
| | Total | | 143.8 |

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DEMINING OF FARMLAND IN UKRAINE

5 mln ha

of farmland (or 15% of arable land) in Ukraine is considered mined

Over \$ 5 bln is needed for demining farmland

70.4 thou. ha,

of the deoccupied territory among which

57 thou. ha

and

of agricultural land was inspected and cleared by the State Emergency Service, mostly in Kyiv and Chernihiv regions

Contamination of soil, air,

groundwater with petroleum

products and heavy metals

may lead to a temporary

inability to grow crops

in the affected areas

IMPACT ON THE LAND FUND



Formation of craters, soil compaction, destruction

of vegetation and death of soil

fauna caused by blast waves and movement of military

17.4 mln ha potentially dangerous territories of Ukraine where hostilities either raged or are going



Environmental pollution caused by damage to industrial or chemical facilities



Ukraine is tentatively the world's most mined country with the highest number of casualties caused hy mines and explosives

Interactive map of mine pollution

Moldo





RESTRICTIONS ON UKRAINIAN AGRICULTURAL EXPORTS TO EUROPEAN COUNTRIES

Poland:

As of April 15, 2023, a ban on the import of agricultural products from Ukraine was introduced.

From April 21, 2023, the **transit of Ukrainian agricultural products** through the Republic of Poland is resume.

List of agricultural products prohibited for import from Ukraine:

- cereals, sugar;
- dry fodder, seeds, linen and hemp;
- vegetables and fruits, vegetable and fruit processed products;
- hops, wines, ethyl alcohol of agricultural origin;
- beef and veal, milk and dairy products, pork, lamb and goat meat, eggs, chicken meat, beekeeping products.

Slovak Republic:

As of April 17, 2023, a **ban on the import of agricultural products** from Ukraine was introduced. The ban will **not apply to goods transiting** through the territory of Slovakia.

List of agricultural products prohibited for import from Ukraine:

- wheat, rye, barley, oats, corn, sorghum, buckwheat;
- sugar beet, cane or beet sugar, isoglucose, molasses;
- flour products, malt, starch, inulin, wheat gluten;
- soybeans, flax seeds, rapeseed, sunflower seeds, other oil seeds, hemp;
- vegetables, fruits, products of fruit and vegetable processing,
- cones of hops, wine, wine vinegar, ethyl alcohol;
- natural honey, royal jelly and food propolis, pollen, beeswax.



Romania is considering the possibility of temporarily suspending the import of agricultural products from Ukraine. No decision has been made yet.

From April 24, Romania will start sealing vehicles that transit Ukrainian agricultural products. The customs authorities of Romania will install seals on trucks with Ukrainian agrarian transit goods.

Source: Ministry of Agrarian Policy and Food of Ukraine

RESTRICTIONS ON UKRAINIAN AGRICULTURAL EXPORTS TO EUROPEAN COUNTRIES

Hungary:

From April 18, 2023 to July 1, 2023, a ban was introduced on the import of agricultural products from Ukraine, but **transit is allowed**, which must be completed through the territory of Hungary within 7 days from the date of entry, cargoes must be sealed with customs seals. Reloading is allowed at the border crossings.

List of agricultural products prohibited for import from Ukraine:

- wheat and mixed crops, rye, barley, corn buckwheat, millet, canary grass seeds;
- wheat flour or mixed flour, other grain flour, processed cereals (e.g., peeled, flattened, flaked, cut into chunks, or coarsely ground), whole grain germs, flattened, polished or ground;
- beef, pork, lamb and goat meat, poultry meat (fresh, chilled and frozen), eggs;
- rapeseed and rapeseed oil (incl. crashed), sunflower seeds (incl. crashed); sunflower, saffron, cottonseed oil, as well as their fractions and refined;
- cane and beet sugar and pure sucrose in the solid state;
- bread, pastries, cakes, biscuits and other pastries containing cocoa, wafers, rice paper;
- vegetables (except candied), which are prepared without vinegar and acetic acid or their contents (except tomatoes and edible mushrooms), not frozen;
- wine from fresh grapes, grape must (except grape spirit juice).

Source: Ministry of Agrarian Policy and Food of Ukraine

Republic of Bulgaria:

From April 24 to June 30, 2023, a ban on the import of agricultural goods from Ukraine is introduced. The ban will **not apply to goods transiting** through the territory of Bulgaria. Cargoes must be sealed with customs seals, reloading is not allowed.

List of agricultural products prohibited for import from Ukraine:

- wheat, corn, rye, barley, buckwheat, sorghum;
- wheat flour, wheat gluten, oat flakes, flax seeds, starches, inulin;
- sunflower seeds, sunflower oil, soybeans, rapeseeds;
- raw and powdered milk, milk concentrate, eggs, chicken meat, pork, sheep and goat meat, honey and beekeeping products;
- · walnuts, hazelnuts;
- wine, wine vinegar, ethyl alcohol.











SOWN AREA OF WINTER CROPS IN UKRAINE, thousand hectares

Planted % of Sown Sown in 2022 planted in areas areas for the 2022 to

| | in 2020 | in 2021 | 2023 harvest | 2022 10 |
|--|---------|---------|-----------------|---------|
| Winter crops total, including: | 8,973.5 | 9,029.4 | 5,449.4 | 60.3 % |
| winter wheat | 6,714.4 | 6,538.4 | 3,758.8 | 57.5 % |
| winter barley | 1,080.4 | 969.0 | 612.5 | 63.2 % |
| • winter rye | 166.8 | 108.5 | 79.2 | 73.0 % |
| winter rapeseeds | 1,011.9 | 1,413.5 | 998.9 | 70.7 % |

Crops

SOWN AREA OF SPRING CROPS IN UKRAINE, thousand hectares

| Crops | Sown, thousand hectares | | 2022 to | 2023 | 2023 as of |
|-----------------------------------|----------------------------|---------|--------------|----------|---------------|
| | 2021 | 2022 | 2021 | forecast | April 24 |
| Total (selected | | | | | |
| crops) | 15633.2 | 12327.0 | 78.9% | 13477 | 1176.6 |
| Spring cereals | | | | | |
| and legumes | 7586.0 | 6196.9 | 81.7% | 5700 | 984.9 |
| including: | | | | | |
| spring wheat | 192.1 | 191.1 | 99.4% | 285 | 169.1 |
| spring barley | 1337.0 | 951.4 | 71.2% | 1041 | 568.5 |
| • oats | 177.9 | 159.3 | 89.5% | 195 | 81.7 |
| • peas | 242.1 | 131.0 | 54.1% | 235 | 110.2 |
| • corn | 5474.8 | 4639.4 | 84.7% | 3618 | 53.4 |
| buckwheat | 84.0 | 75.3 | 89.6% | 131 | 0.3 |
| • millet | 78.1 | 49.5 | 63.3% | 115 | 1.7 |
| Spring rapeseed | 33.2 | 34.1 | 102.7% | 75 | 0 |
| Soybeans | 1279.6 | 1212.6 | 94.8% | 1841 | 0 |
| Sunflower | 6509.7 | 4702.7 | 72.2% | 5641 | 137.3 |
| Sugar beet | 224.7 | 180.6 | 80.4% | 220 | 54.4 |

Source: based on the data of the State Statistic Service of Ukraine and Ministry of Agrarian Policy and Food of Ukraine



Sources: based on State Statistic Service of Ukraine, State Customs Service, Ministry of Agrarian Policy and Food of Ukraine

Potash

Phosphate

Other

449

Nitrogen

Complex





BALANCE OF SUPPLY AND DEMAND OF GRAIN AND LEGUMES IN UKRAINE (*forecast as of April 17, 2023)

| | | | | | - | - |
|--|----------|----------|----------|----------|---------------|------------|
| | 2020/21 | 2021/22 | 2022/23* | 2023/24* | Deviat | on , % |
| | thousand | thousand | thousand | thousand | 2022/23 to | 2023/24 to |
| | tonnes | tonnes | tonnes | tonnes | 2021/22 | 2022/23 |
| Initial stocks | 4,216 | 4,811 | 12,454 | 6,707 | in +2,6 times | -46.1% |
| Sown area, thousand hectares | 15,392 | 15,995 | 13,997 | 10,240 | -12.5% | -26.8% |
| Harvested area, thousand hectares | 15,283 | 15,948 | 10,970 | 9,500 | -31.2% | -13.4% |
| Yield, tonnes / hectare | 4.25 | 5.39 | 4.88 | 4.65 | -9.5% | -4.7% |
| Gross harvest | 64,933 | 86,010 | 53,500 | 44,175 | -37.8% | -17.4% |
| Import | 208 | 123 | 120 | 146 | -2.4% | 21.7% |
| Total supply | 69,358 | 90,945 | 66,074 | 51,028 | -27.3% | -22.8% |
| Domestic consumption: | 19,184 | 26,282 | 19,030 | 17,786 | -27.6% | -6.5% |
| food | 4,775 | 4,592 | 4,039 | 4,025 | -12.0% | -0.3% |
| fodder | 9,720 | 13,325 | 9,640 | 9,681 | -27.7% | +0.4% |
| seeds | 2,224 | 1,928 | 2,079 | 1,894 | +7.8% | -8.9% |
| losses | 1,515 | 5,692 | 2,217 | 1,316 | -61.1% | -40.6% |
| other (alcohol, malt, starch, etc.) | 946 | 737 | 1,055 | 870 | +43.1% | -17.5% |
| Export | 45,363 | 52,209 | 40,337 | 29,284 | 22.7% | 27.4% |
| Total distribution (demand) | 64,547 | 78,491 | 59,367 | 47,070 | -24.4% | -20.7% |
| Ending stocks | 4,811 | 12,454 | 6,707 | 3,958 | -46.1% | -41.0% |
| Ratio of ending stocks to distribution | 7% | 16% | 11% | 8% | | |

Source: based on "APK-Inform", the State Statistic Service of Ukraine and the State Customs Service of Ukraine



Source: based on data of Ministry of Agrarian Policy and Food of Ukraine, State Statistic Service of Ukraine and UCAB



Source: based on data of USDA, State Statistic Service of Ukraine, UCAB and APK-inform

