



UKRAINE GRAIN TRANSPORTATION

PUBLISHED JULY 2026



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EXECUTIVE SUMMARY

Published annually since 2020, USDA's *Ukraine Grain Transportation* report evaluates Ukraine's grain transportation costs as a proxy for the entire Black Sea region—i.e., Kazakhstan, Russia, and Ukraine—which is a strong player in the global wheat and corn markets. The report analyzes the total costs of exporting Ukrainian grain to major markets. The analysis is performed because Ukraine's costs can affect the competitiveness of U.S. grain exports. Despite logistical challenges posed by the war with Russia—in 2025, Ukraine was the world's fourth-largest corn exporter, after (in declining order) the United States, Brazil, and Argentina. In the world wheat market, in 2025, Ukraine was the fifth-largest exporter, after Russia, the European Union (EU), Canada, Australia, and the United States.

From 2024 to 2025, Ukrainian costs to export wheat and corn to the global markets dropped to levels that had preceded the Russia-Ukraine War. The lower costs reflected lower export volumes, which eased demand on logistics networks and helped bring down shipment costs. Also reducing transport costs, Ukraine gained more secure and efficient access to its Odesa cluster of deep-water ports—Chornomorsk, Odesa, and Pivdennyi.

As the Odesa ports became more accessible, Ukraine's share of corn, wheat, and soybeans exported via maritime routes rose from 91 percent in 2024 to 95 percent in 2025 (of exports by all modes). Exports moving by rail through western border crossings declined to roughly 5 percent of total volumes (about 1.6 mmt), down from about 7 percent the year before, while truck exports fell to less than 1 percent (around 0.2 mmt), reflecting waning reliance on European Union overland routes. Barge movements were at zero in both years, as Dnipro and Southern Bug River pathways remained closed, reinforcing the overall shift back toward deep-water maritime channels.

Of all the modes, maritime transport (through the Black Sea ports and Danube ports) was the most competitive, but the structure of maritime transport changed. With the Odesa ports operating more reliably, the Danube River ports—Izmail, Reni, and Ust Dunaysk—became smaller backup options. Because rail routes to the Danube through Moldova were costly and unreliable, most grain was trucked to the Danube ports, making shipments more expensive than through Odesa. The share of Danube ports handling sea export of grains and oilseeds from Ukraine fell from 13 percent in 2024 to 4 percent in 2025, while the share of Odesa ports rose from 87 percent in 2024 to 96 percent in 2025.

In 2023, the Agricultural Marketing Service (AMS) expanded the scope of its annual *Ukraine Grain Transportation* report by adding three sets of new routes—with each set originating in either Western, Eastern, or Central Ukraine. For all three sets of routes, grain passes through the Port of Izmail or the Port of Constanta to Egypt,



Turkey, and Tunisia. The new routes replace the ones from Western, Eastern, and Central Ukraine to the Port of Mykolaiv, which has been closed to navigation since second quarter 2022, after the Russia-Ukraine war that started in February 2022.

OVERVIEW OF UKRAINIAN GRAIN TRANSPORTATION IN 2025¹

From 2024 to 2025, several factors helped reduce Ukraine’s grain-export costs to levels that had preceded the Russia-Ukraine War. As Ukraine’s export volumes of corn and wheat fell (2024-25), transportation demand likewise dropped, easing pressure on logistics networks. At the same time, Ukraine regained secure access to deep water Black Sea ports. This access enabled safer and more efficient use of the Odesa cluster of ports—Chornomorsk, Odesa, and Pivdennyi—which handle seagoing vessels of Handysize and above.²

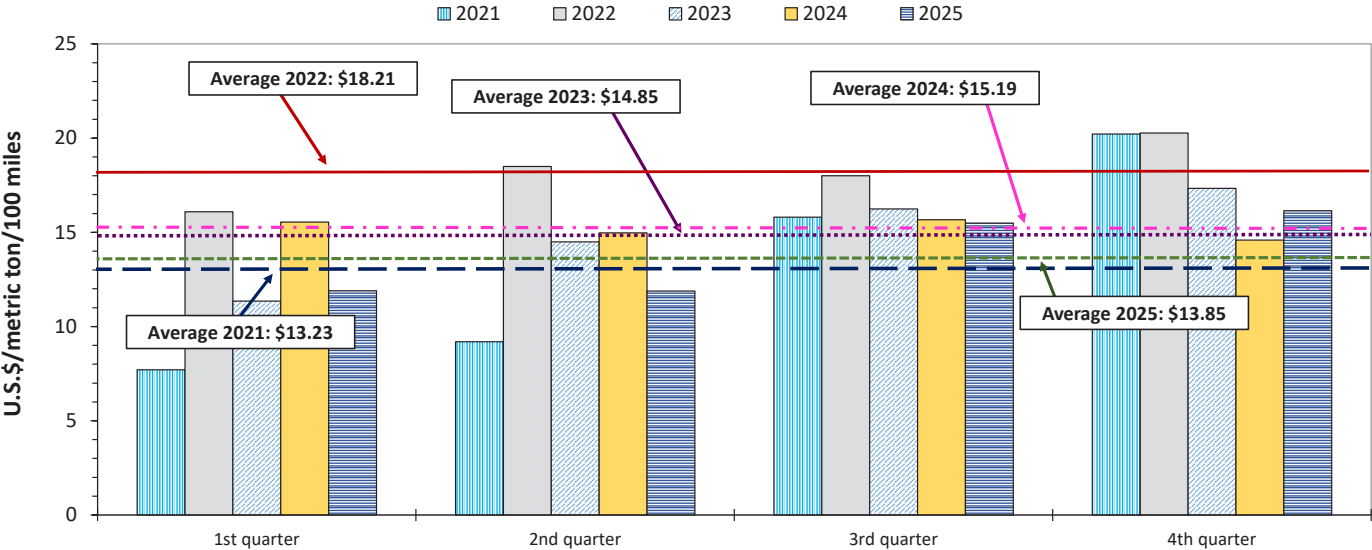
Transportation costs fell across all modes that were operational (i.e., all except barge): As maritime operations stabilized, ocean freight costs fell. Similarly, rail and truck rates declined as logistics became more predictable; the hopper fleet became adequate to meet demand; and shippers increasingly relied on deep water routes rather than higher cost alternatives.

From 2024 to 2025, Ukrainian wheat exports fell 32.9 percent—from 19.9 million metric tons (mmt) to 13.3 mmt. Over the same period, corn exports fell 39.1 percent (from 28.8 mmt to 17.6 mmt), and soybean exports rose 0.6 percent (from 3.35 mmt to 3.37 mmt) ([Ministry of Agrarian Policy and Food of Ukraine](#)).

INLAND AND OCEAN FREIGHT RATES

From 2024 to 2025, the cost of shipping a metric ton of grain 100 miles by truck decreased 8.8 percent, from \$15.19 to \$13.85 (fig. 1a) ([Zernovoz](#)). Rail rates also declined by 26 percent, while ocean freight rates dropped between 6-31 percent from 2024 (depending on route), returning to pre-war levels (tables [2a](#), [2b](#), [2c](#), [2d](#), and [7](#)). These reductions reflected lower export volumes; improved access to the deep-water Odesa ports (Chornomorsk, Odesa, and Pivdennyi); and more stable logistics operations as maritime routes became safer and more reliable.

Figure 1a. Ukrainian wheat, corn, and soybeans export truck cost index, 2021-25



Source: Centre for Transport Strategies (CFTS) Kyiv, Ukraine, Zernovoz, Kyiv, Ukraine; and USDA, Agricultural Marketing Service.

1 Andrii Shkliar (andrii.shkliar@cfts.org.ua) and Andrey Isayev (andrey.isayev@cfts.org.ua)—at the [Centre for Transport Strategies \(CFTS\)](#)—gathered all of the Ukraine data in this report and ensured its accuracy.

2 Handysize vessels carry loads of up to 50,000 deadweight tons (dwt). Dwt is calculated as the sum of the weights of cargo, fuel, fresh water, ballast water, provisions, passengers, and crew.

UKRAINE GRAIN TRANSPORTATION



Farm gate and export prices, 2024-25. From 2024 to 2025, Ukrainian average wheat farm prices rose 27 percent—from \$176.89 per mt to \$224.29 per mt—which was still lower than 2021 (tables [1a](#), [2a](#), and [2b](#)). Over the same period, Ukrainian wheat free on-board (FOB) prices increased 8 percent, from \$215.47 per mt to \$231.67 per mt ([table 1a](#)).³ Average corn farm prices increased 37 percent, from \$158.42 per mt to \$216.97 per mt (tables [1a](#), [2c](#), and [2d](#)). Ukrainian corn FOB prices increased 17 percent, from \$193.34 per mt to \$226.35 per mt.

Transportation costs made up a smaller share of landed costs for Ukrainian wheat and corn shipped from Odesa to Alexandria, Egypt; Ciwandan/Cigading, Indonesia; and Shanghai, China, because shipping rates fell while farm prices rose.⁴ From 2024 to 2025, transportation's share of total landed costs declined for both wheat and corn. For wheat, those declines ranged from 20 percent to 36 percent (depending on the route). For corn, the declines ranged from 24 percent to 40 percent (tables [2a](#), [2b](#), [2c](#), [2d](#)).

Spread between U.S. Gulf and Ukrainian farm prices, 2024-25. The cumulative disruptions of the war reduced the price paid to Ukrainian farmers ([Wilson et al.](#), 2022). To capture the effect of this decline, USDA estimated the spread between Ukrainian farm-level prices and global prices. (In this case, U.S. Gulf FOB prices were used as a proxy for global prices.) From 2024 to 2025, the spread for wheat and corn—between Ukrainian farm-level prices and global prices—narrowed ([table 1a](#)). This narrowing spread indicates Ukrainian costs to export wheat and corn fell from 2024 to 2025, returning to pre-war levels.

Table 1a. Ukraine and U.S. Gulf wheat and corn prices, 2021-25

Wheat	2021	2022	2023	2024	2025
	\$/mt				
Ukraine FW FOB	275.49	301.55	229.68	215.47	231.67
US Gulf FOB Hard Red Winter 11%	304.65	418.78	334.18	263.09	243.26
Ukraine farm prices	273.08	188.24	140.28	176.89	224.29
Ukraine farm level basis = US Gulf - Ukraine farm prices	31.57	230.54	193.90	86.20	18.97
Corn	2021	2022	2023	2024	2025
	\$/mt				
Ukraine FOB Handy	267.46	270.72	206.20	193.34	226.35
US Gulf FOB	265.60	319.05	250.76	196.79	208.97
Ukraine farm prices	270.12	171.53	135.73	158.42	216.97
Ukraine farm level basis = US Gulf - Ukraine farm prices	-4.52	147.52	115.03	38.37	-8.00

Notes: In 2021 and 2025, Ukrainian farmer's transportation costs were lower than global markets.

Sources: Fastmarkets, International Grain Council, and USDA, Agricultural Marketing Service.

³ Free on board (FOB) prices show the amount payable by the Ukrainian seller for transporting grain to the Ukrainian port, as well as the cost of loading grain onto the ship, including inland haulage, customs clearance, origin documentation charges, and demurrage. After all the grain is on board, the buyer is responsible for all remaining costs.

⁴ Landed costs = total transportation costs + farm price.



EXPORT MODAL SHARES⁵

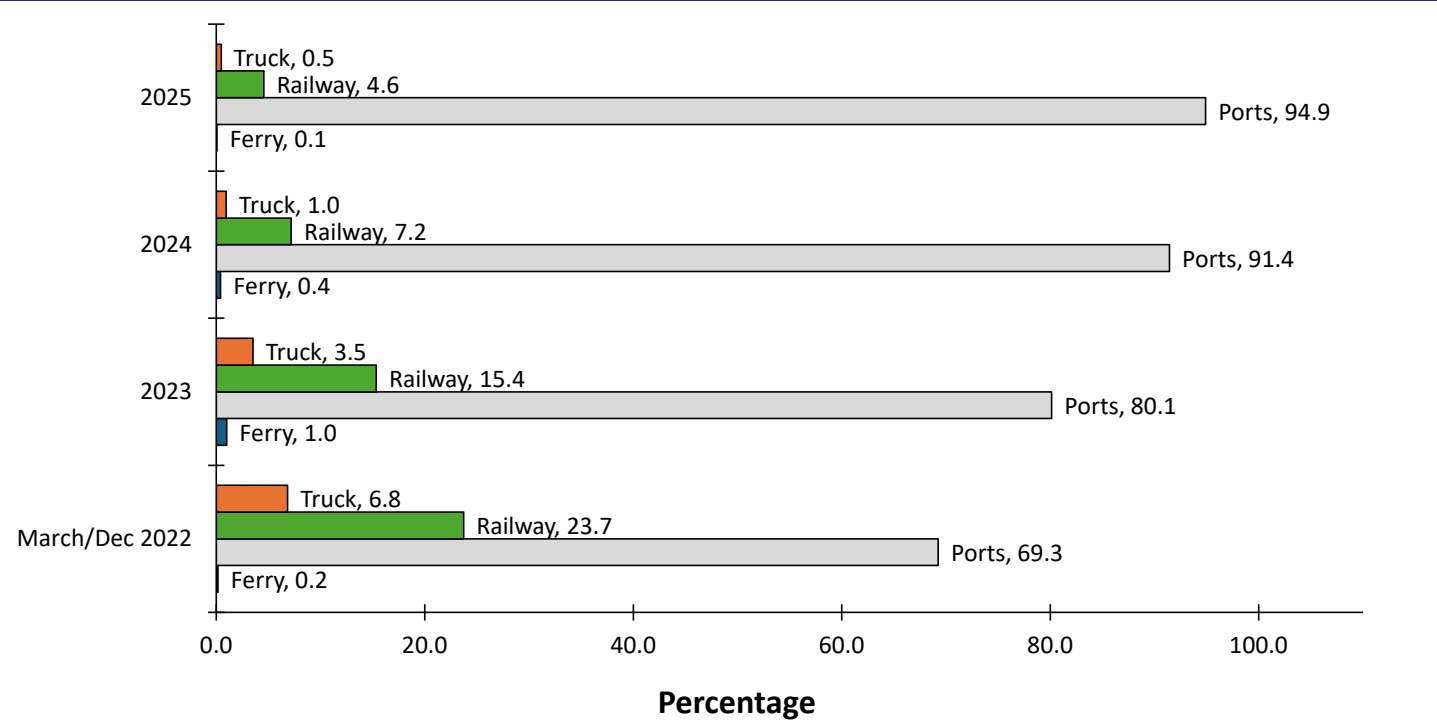
From 2024 to 2025, Ukraine’s share of corn, wheat, and soybeans exported via maritime routes rose from 91 percent to 95 percent (of exports by all modes), as the country’s deep-water Black Sea ports became more accessible (figs. [1b](#) and [1c](#)). Over the same period, exports moving by rail through western border crossings fell to 5 percent of total volumes (1.6 mmt), down from about 7 percent the year before. Trucked exports fell to less than 1 percent (0.2 mmt), reflecting reduced reliance on European Union overland routes ([fig 1b](#) and [table 1b](#)). Barge movements were at zero in both years—as Dnipro and Southern Bug River pathways had remained closed since 2022—reinforcing the overall shift toward deep-water maritime channels ([table 1c](#)).

Although maritime transport (through the Black Sea ports and Danube River ports) was the most competitive of all the modes, the structure of maritime transport changed ([table 1c](#)). As the Odesa ports increasingly operated reliably, the Danube River ports—Izmail, Reni, and Ust Dunaysk—reverted to a smaller backup role. Because the only remaining direct rail route to the Danube ran through Moldova—an option that was costly and unreliable—most grain moved to Danube ports by truck, making shipments there more expensive than through the Odesa region ([Ukrainian Railways](#), [Ukrainian Sea Ports Authority](#), and [CFTS](#)). The share of the Danube ports handling sea exports of grains and oilseeds from Ukraine decreased from 13 percent in 2024 to 4 percent in 2025, while the share of Odesa ports rose from 87 percent in 2024 to 96 percent in 2025 ([Ukrainian Sea Ports Authority](#) and [CFTS](#)).

In 2024, grain export shipments to the Odesa ports (for maritime transport) began reverting to their historical modal shares and continued this trend in 2025 ([table 1c](#)). From 2024 to 2025—corn, wheat, and soybean exports to Ukraine’s seaports by rail increased, while exports by truck declined, and barge movements remained at zero.⁶

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Figure 1b. Ukraine exports of corn, wheat, and soybeans by mode of transport, 2022-25



Source: Ministry of Agrarian Policy and Food of Ukraine.

5 Modal share describes that portion of the total tonnages of grain moved by each mode of transport—barge, rail, or truck. These shares, expressed as percentages, were determined by mode for particular types of grains and movements.
6 Refers to wheat, corn, oat, barley, soybeans, rapeseed, sunflower seed, and oil-cake.



Table 1b. Export of wheat, corn, and soybean from Ukraine through western routes to Ukrainian seaports, 2021-25

Country	2021	2022	2023	2024	2025
	1,000 Tons				
Hungary	70.9	1,558.2	1,737.7	284.1	484.8
Moldova	0	0	60	31.3	8.1
Poland	128.4	2,705.5	2,730.7	1,945.5	597.4
Romania	0	1,064.8	1,452.6	523.2	91.4
Slovakia	71.7	810.7	1022.0	961.2	381.0
Total	270.9	6,139.1	7,002.9	3,745.3	1,562.6

Notes: Years 2021, 2022, and 2025 are actual data, while 2023-24 are an estimation.

Sources: Ukrainian Railway, Ministry of Agrarian Policy and Food of Ukraine, Centre for Transport Strategies (CFTS).

Table 1c. Tonnages and modal shares for Ukrainian wheat, corn, and soybean exports through Ukrainian seaports, 2018-25

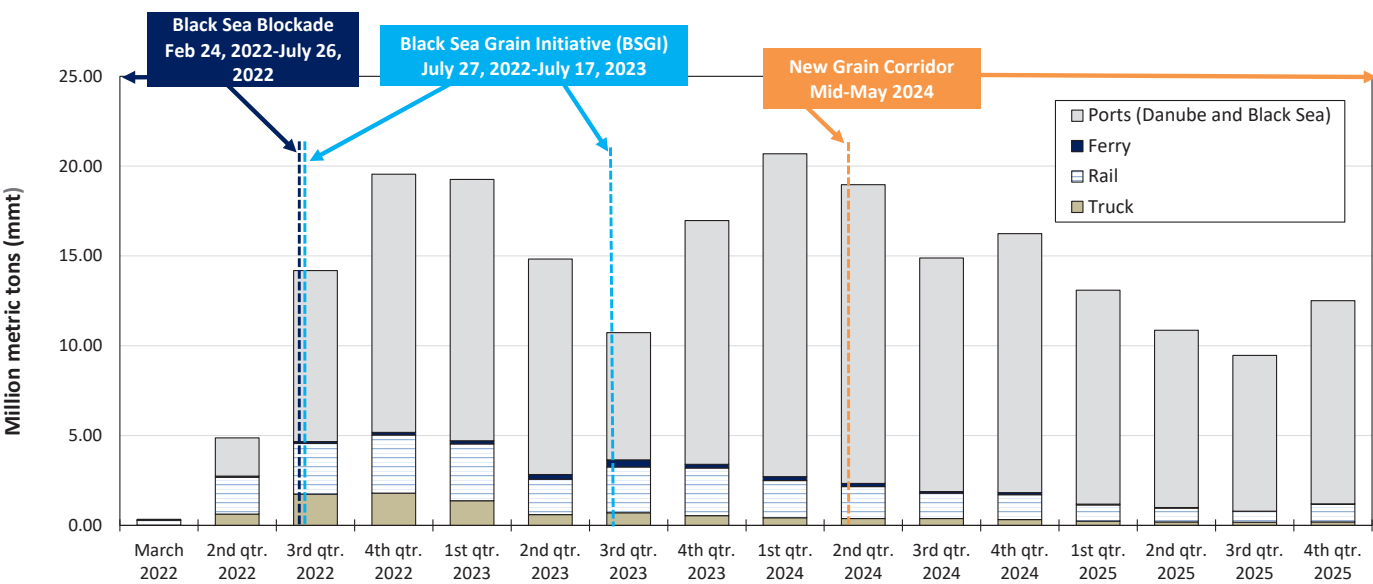
Year & Type of Movement	Rail		Barge via Dnipro River		Truck	
	1,000 Tons	Percent	1,000 Tons	Percent	1,000 Tons	Percent
2018	30 083	76%	3,700	9%	5,850	15%
2019	36,707	69%	5,650	11%	10,667	20%
2020	29,406	64%	4,030	9%	12,694	28%
2021	28,495	60%	4,300	9%	14,500	31%
2022	10,155	40%	-	0%	15,033	60%
2023	12,883	35%	-	0%	23,655	65%
2024	25,855	54%	-	-	21,750	46%
2025	21,519	66%	-	-	11,013	34%

Notes: Years 2018–22 are estimated, while 2023-25 are actual. From January to February 2022, navigation on the Dnipro River was closed because of winter conditions. From March to December, in 2022, 2023, and 2024, navigation was also closed for security reasons related to the war with Russia. From 2018 to 2021, barged volumes included those for the Dnipro and Southern Bug Rivers. The barged volumes did not include shipments via the Danube River ports.

Sources: Ukrainian Railways, Ukrainian Sea Ports Authority, and Centre for Transport Strategies.



Figure 1c. Ukraine agricultural exports by mode of transport March 2022-December 2025



Notes: Agricultural exports include grains, oilseeds, vegetable oils and meals.
Source: USDA/Foreign Agricultural Service using data from Ukraine Ministry of Agrarian Policy and Food’s Public Dashboard of Exports Ministry of Agricultural Policy and Food of Ukraine.

ANNUAL EXPORT ROUTE COST COMPARISONS



Table 2a. Average costs of transporting Ukrainian wheat from the Black Sea ports (using rail delivery to ports) to Egypt, Indonesia, and Turkey, 2024-25

	From Central Ukraine - Odesa					
	To Alexandria, Egypt			To Ciwandan/Cigading, Indonesia		
	—US\$/mt—		% Change	—US\$/mt—		% Change
	2024	2025	2024-25	2024	2025	2024-25
Truck	6.37	5.80	-8.9	6.37	5.80	-8.9
Rail	15.59	11.78	-24.4	15.59	11.78	-24.4
Ocean	22.90	16.13	-29.6	52.49	36.67	-30.1
Total transportation	44.86	33.71	-24.9	74.46	54.25	-27.1
Farm price	176.89	224.29	26.8	176.89	224.29	26.8
Landed cost	221.75	258.00	16.3	251.35	278.54	10.8
Transport % of landed cost	20.5	13.1	-36.1	29.8	19.5	-34.7

	From Central Ukraine - Izmail					
	To Alexandria, Egypt			To Marmara Sea ports, Turkey		
	—US\$/mt—		% Change	—US\$/mt—		% Change
	2024	2025	2024-25	2024	2025	2024-25
Truck	6.37	5.80	-8.9	6.37	5.80	-8.9
Rail	25.48	18.81	-26.2	25.48	18.81	-26.2
Ocean	27.28	24.74	-9.3	20.33	19.21	-5.5
Total transportation	59.12	49.36	-16.5	52.17	43.82	-16.0
Farm price	176.89	224.29	26.8	176.89	224.29	26.8
Landed cost	236.01	273.65	15.9	229.06	268.11	17.0
Transport % of landed cost	25.3	18.1	-28.6	23.0	16.4	-28.9

	From Central Ukraine - Constanta		
	To Alexandria, Egypt		
	—US\$/mt—		% Change
	2024	2025	2024-25
Truck	6.37	5.80	-8.9
Rail	25.48	18.81	-26.2
Barge Izmail-Constanta	11.29	8.08	-28.4
Ocean	15.46	14.17	-8.4
Total transportation	58.60	46.87	-20.0
Farm price	176.89	224.29	26.8
Landed cost	235.49	271.16	15.1
Transport % of landed cost	25.1	17.3	-31.1

Notes: Central Ukraine producing regions are as follows = Cherkasy, Chernihiv, Kherson, Kirovohrad, Kyiv, Mykolaiv, Odesa, Poltava, and Sumy provinces. Export ports - The Port of Odesa was closed during the second quarter of 2022. The Port of Mykolaiv has remained closed to navigation since the second quarter of 2022. Rail rates include the cost of delivery to the railway station and the cost of renting a grain hopper. However, rail rates do not include the cost of moving and positioning rail cars at the elevator and port, railway station fees, security service from loading to discharging port, or freight-forwarding service. (Any or all of these items could exceed the rail tariff rate.) Rail rates are estimated by using specialized software “TM-Karta” in accordance with Ukrainian Railways (Ukrzaliznytsia) tariff regulation. Farm price = elevator price – handling costs – farm-to-elevator transportation. mt = metric ton.

Sources: Centre for Transport Strategies (CFTS) Kyiv, Ukraine, and USDA, Agricultural Marketing Service.

ANNUAL EXPORT ROUTE COST COMPARISONS



Table 2b. Average costs of transporting Ukrainian wheat from the Black Sea ports (using truck delivery to ports) to Egypt, Indonesia, and Turkey, 2024-25

	From Central Ukraine - Odesa					
	To Alexandria, Egypt			To Ciwandan/Cigading, Indonesia		
	—US\$/mt—		% Change	—US\$/mt—		% Change
	2024	2025	2024-25	2024	2025	2024-25
Truck	52.33	47.72	-8.8	52.33	47.72	-8.8
Ocean	22.90	16.13	-29.6	52.49	36.67	-30.1
Total transportation	75.23	63.85	-15.1	104.83	84.39	-19.5
Farm price	176.89	224.29	26.8	176.89	224.29	26.8
Landed cost	252.12	288.14	14.3	281.72	308.68	9.6
Transport % of landed cost	30.1	22.1	-26.4	37.4	27.3	-27.0

	From Central Ukraine - Izmail					
	To Alexandria, Egypt			To Marmara Sea ports, Turkey		
	—US\$/mt—		% Change	—US\$/mt—		% Change
	2024	2025	2024-25	2024	2025	2024-25
Truck	74.80	68.21	-8.8	74.80	68.21	-8.8
Ocean	27.28	24.74	-9.3	20.33	19.21	-5.5
Total transportation	102.07	92.95	-8.9	95.12	87.42	-8.1
Farm price	176.89	224.29	26.8	176.89	224.29	26.8
Landed cost	278.96	317.24	13.7	272.01	311.71	14.6
Transport % of landed cost	36.8	29.2	-20.5	35.2	28.0	-20.4

	From Central Ukraine - Constanta		
	To Alexandria, Egypt		
	—US\$/mt—		% Change
	2024	2025	2024-25
Truck	74.80	68.21	-8.8
Barge Izmail-Constanta	11.29	8.08	-28.4
Ocean	15.46	14.17	-8.4
Total transportation	101.55	90.46	-10.9
Farm price	176.89	224.29	26.8
Landed cost	278.44	314.75	13.0
Transport % of landed cost	36.7	28.7	-21.8

Notes: Central Ukraine producing regions are as follows = Cherkasy, Chernihiv, Kherson, Kirovohrad, Kyiv, Mykolaiv, Odesa, Poltava, and Sumy provinces. Export ports - The Port of Odesa was closed during the second quarter of 2022. The Port of Mykolaiv has remained closed to navigation since the second quarter of 2022.

Farm price = elevator price – handling costs – farm-to-elevator transportation. mt = metric ton.

Sources: Centre for Transport Strategies (CFTS) Kyiv, Ukraine, and USDA, Agricultural Marketing Service.



Table 2c. Average costs of transporting Ukrainian corn from the Black Sea ports (using rail delivery to ports) to Egypt, China, Turkey, and Tunisia, 2024-25

	From Central Ukraine - Odesa					
	To Alexandria, Egypt			Southern ports, China		
	—US\$/mt—		% Change	—US\$/mt—		% Change
	2024	2025	2024-25	2024	2025	2024-25
Truck	6.37	5.80	-8.9	6.37	5.80	-8.9
Rail	15.59	11.78	-24.4	15.59	11.78	-24.4
Ocean	23.74	16.43	-30.8	52.15	38.98	-25.3
Total transportation	45.70	34.01	-25.6	74.11	56.56	-23.7
Farm price	158.42	216.97	37.0	158.42	216.97	37.0
Landed cost	204.12	250.98	23.0	232.53	273.53	17.6
Transport % of landed cost	22.8	13.7	-40.2	32.3	20.8	-35.7

	From Central Ukraine - Izmail					
	To Alexandria, Egypt			To Marmara Sea ports, Turkey		
	—US\$/mt—		% Change	—US\$/mt—		% Change
	2024	2025	2024-25	2024	2025	2024-25
Truck	6.37	5.80	-8.9	6.37	5.80	-8.9
Rail	25.48	18.81	-26.2	25.48	18.81	-26.2
Ocean	27.62	25.05	-9.3	21.66	19.51	-9.9
Total transportation	59.47	49.67	-16.5	53.51	44.12	-17.5
Farm price	158.42	216.97	37.0	158.42	216.97	37.0
Landed cost	217.88	266.63	22.4	211.92	261.09	23.2
Transport % of landed cost	27.7	18.7	-32.4	25.7	17.0	-33.8

	From Central Ukraine - Constanta		
	To Tunis, Tunisia		
	—US\$/mt—		% Change
	2024	2025	2024-25
Truck	6.37	5.80	-8.9
Rail	25.48	18.81	-26.2
Barge Izmail-Constanta	11.29	8.08	-28.4
Ocean	23.03	21.71	-5.8
Total transportation	66.17	54.41	-17.8
Farm price	158.42	216.97	37.0
Landed cost	224.59	271.38	20.8
Transport % of landed cost	29.9	20.2	-32.6

Notes: Central Ukraine producing regions are as follows = Cherkasy, Chernihiv, Kherson, Kirovohrad, Kyiv, Mykolaiv, Odesa, Poltava, and Sumy provinces. Export ports - The Port of Odesa was closed during the second quarter of 2022. The Port of Mykolaiv has remained closed to navigation since the second quarter of 2022. Rail rates include the cost of delivery to the railway station and the cost of renting a grain hopper. However, rail rates do not include the cost of moving and positioning rail cars at the elevator and port, railway station fees, security service from loading to discharging port, or freight-forwarding service. (Any or all of these items could exceed the rail tariff rate.) Rail rates are estimated by using specialized software “TM-Karta” in accordance with Ukrainian Railways (Ukrzaliznytsia) tariff regulation. Farm price = elevator price – handling costs – farm-to-elevator transportation.
mt = metric ton.

Sources: Centre for Transport Strategies (CFTS) Kyiv, Ukraine, and USDA, Agricultural Marketing Service.

ANNUAL EXPORT ROUTE COST COMPARISONS



Table 2d. Average costs of transporting Ukrainian corn from the Black Sea ports (using truck delivery to ports) to Egypt, China, Turkey, and Tunisia, 2024-25

	From Central Ukraine - Odesa					
	To Alexandria, Egypt			Southern ports, China		
	—US\$/mt—		% Change	—US\$/mt—		% Change
	2024	2025	2024-25	2024	2025	2024-25
Truck	52.33	47.72	-8.8	52.33	47.72	-8.8
Ocean	23.74	16.43	-30.8	52.15	38.98	-25.3
Total transportation	76.07	64.15	-15.7	104.48	86.70	-17.0
Farm price	158.42	216.97	37.0	158.42	216.97	37.0
Landed cost	234.49	281.12	19.9	262.90	303.67	15.5
Transport % of landed cost	32.9	22.9	-30.3	40.1	28.6	-28.6

	From Central Ukraine - Izmail					
	To Alexandria, Egypt			To Marmara Sea ports, Turkey		
	—US\$/mt—		% Change	—US\$/mt—		% Change
	2024	2025	2024-25	2024	2025	2024-25
Truck	52.33	47.72	-8.8	52.33	47.72	-8.8
Ocean	27.62	25.05	-9.3	21.66	19.51	-9.9
Total transportation	102.41	93.26	-8.9	96.46	87.72	-9.1
Farm price	158.42	216.97	37.0	158.42	216.97	37.0
Landed cost	260.83	310.23	18.9	254.87	304.68	19.5
Transport % of landed cost	39.6	30.1	-24.0	38.2	28.8	-24.6

	From Central Ukraine - Constanta		
	To Tunis, Tunisia		
	—US\$/mt—		% Change
	2024	2025	2024-25
Truck	52.33	47.72	-8.8
Barge Izmail-Constanta	11.29	8.08	-28.4
Ocean	23.03	21.71	-5.8
Total transportation	109.12	98.00	-10.2
Farm price	158.42	216.97	37.0
Landed cost	267.54	314.97	17.7
Transport % of landed cost	41.2	31.2	-24.3

Notes: Central Ukraine producing regions are as follows = Cherkasy, Chernihiv, Kherson, Kirovohrad, Kyiv, Mykolaiv, Odesa, Poltava, and Sumy provinces. Export ports - The Port of Odesa was closed during the second quarter of 2022. The Port of Mykolaiv has remained closed to navigation since the second quarter of 2022.

Farm price = elevator price – handling costs – farm-to-elevator transportation. mt = metric ton.

Sources: Centre for Transport Strategies (CFTS) Kyiv, Ukraine, and USDA, Agricultural Marketing Service.



Figure 2. Routes and wheat, corn, and soybean regions considered in the Ukrainian grain export transportation indicator



Notes: Table 7 on page 19 provides additional information for routes 1-6. Regions comprised roughly 100 percent of wheat, corn, and soybean production, 2024.
Source: Centre for Transport Strategies (CFTS) Kyiv, Ukraine, and USDA, Agricultural Marketing Service.



Figure 3. Routes and wheat regions considered in the Ukrainian grain export transportation indicator



Notes: Table 7 on page 19 provides additional information for routes 1-6. Regions comprised roughly 100 percent of wheat production, 2024.
Source: Centre for Transport Strategies (CFTS) Kyiv, Ukraine, and USDA, Agricultural Marketing Service.



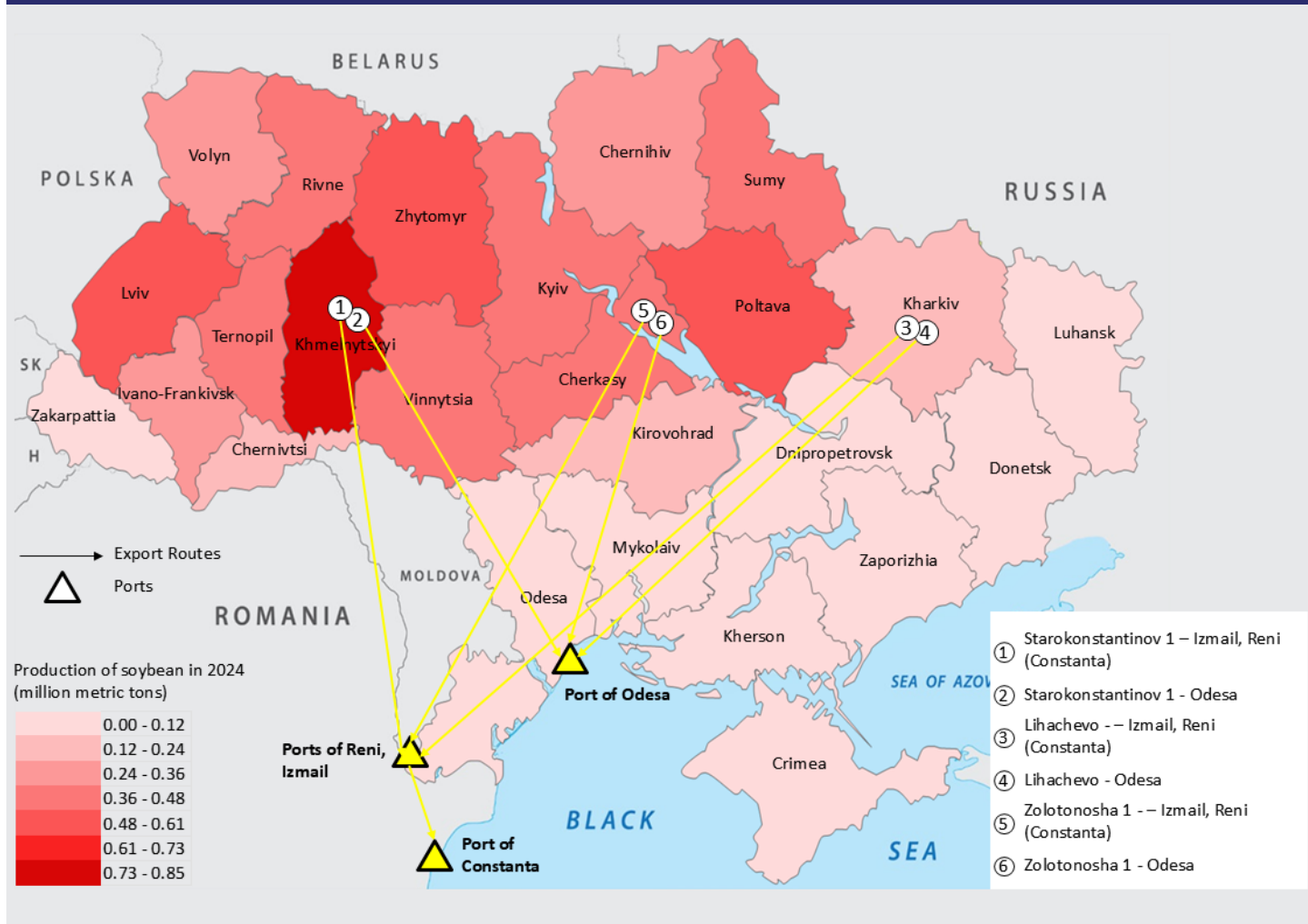
Figure 4. Routes and corn regions considered in the Ukrainian grain export transportation indicator



Notes: Table 7 on page 19 provides additional information for routes 1-6. Regions comprised roughly 100 percent of corn production, 2024.
Source: Centre for Transport Strategies (CFTS) Kyiv, Ukraine, and USDA, Agricultural Marketing Service.



Figure 5. Routes and soybean regions considered in the Ukrainian grain export transportation indicator



Notes: Table 7 on page 19 provides additional information for routes 1-6. Regions comprised roughly 100 percent of soybean production, 2024.
Source: Centre for Transport Strategies (CFTS) Kyiv, Ukraine, and USDA, Agricultural Marketing Service.

QUARTERLY EXPORT ROUTE COST COMPARISONS

Table 3. Quarterly costs of transporting Ukrainian wheat from the Black Sea ports (using rail delivery to ports) to Egypt, Indonesia, and Turkey, 2025

	From Central Ukraine - Odesa									
	To Alexandria, Egypt —US\$/mt—					To Ciwandan/Cigading, Indonesia —US\$/mt—				
	1st qtr. 2025	2nd qtr. 2025	3rd qtr. 2025	4th qtr. 2025	Average 2025	1st qtr. 2025	2nd qtr. 2025	3rd qtr. 2025	4th qtr. 2025	Average 2025
Truck	5.35	5.22	6.10	6.55	5.80	5.35	5.22	6.10	6.55	5.80
Rail	11.96	10.96	11.58	12.62	11.78	11.96	10.96	11.58	12.62	11.78
Ocean	13.60	14.00	16.47	20.43	16.13	33.43	32.07	39.20	41.97	36.67
Total transportation	30.91	30.18	34.14	39.60	33.71	50.75	48.25	56.87	61.13	54.25
Farm price	234.15	227.27	223.12	212.62	224.29	234.15	227.27	223.12	212.62	224.29
Landed cost	265.06	257.45	257.26	252.22	258.00	284.90	275.52	279.99	273.76	278.54
Transport % of landed cost	11.7	11.7	13.3	15.7	13.1	17.8	17.5	20.3	22.3	19.5

	From Central Ukraine - Izmail									
	To Alexandria, Egypt —US\$/mt—					To Marmara Sea ports, Turkey —US\$/mt—				
	1st qtr. 2025	2nd qtr. 2025	3rd qtr. 2025	4th qtr. 2025	Average 2025	1st qtr. 2025	2nd qtr. 2025	3rd qtr. 2025	4th qtr. 2025	Average 2025
Truck	5.35	5.22	6.10	6.55	5.80	5.35	5.22	6.10	6.55	5.80
Rail	19.17	17.40	18.44	20.24	18.81	19.17	17.40	18.44	20.24	18.81
Ocean	22.77	22.00	24.20	30.00	24.74	17.17	17.17	18.73	23.77	19.21
Total transportation	47.28	44.62	48.74	56.79	49.36	41.68	39.79	43.27	50.55	43.82
Farm price	234.15	227.27	223.12	212.62	224.29	234.15	227.27	223.12	212.62	224.29
Landed cost	281.44	271.89	271.86	269.41	273.65	275.84	267.06	266.39	263.17	268.11
Transport % of landed cost	16.8	16.4	17.9	21.1	18.1	15.1	14.9	16.2	19.2	16.4

	From Central Ukraine - Constanta				
	To Alexandria, Egypt —US\$/mt—				
	1st qtr. 2025	2nd qtr. 2025	3rd qtr. 2025	4th qtr. 2025	Average 2025
Truck	5.35	5.22	6.10	6.55	5.80
Rail	19.17	17.40	18.44	20.24	18.81
Barge Izmail-Constanta	8.33	8.00	8.00	8.00	8.08
Ocean	12.17	12.50	14.70	17.30	14.17
Total transportation	45.02	43.12	47.24	52.09	46.87
Farm price	234.15	227.27	223.12	212.62	224.29
Landed cost	279.17	270.39	270.36	264.71	271.16
Transport % of landed cost	16.1	15.9	17.5	19.7	17.3

Notes: Central Ukraine producing regions are as follows = Cherkasy, Chernihiv, Kherson, Kirovohrad, Kyiv, Mykolaiv, Odesa, Poltava, and Sumy provinces. Export ports - The Port of Odesa was closed during the second quarter of 2022. The Port of Mykolaiv has remained closed to navigation since the second quarter of 2022. Rail rates include the cost of delivery to the railway station and the cost of renting a grain hopper. However, rail rates do not include the cost of moving and positioning rail cars at the elevator and port, railway station fees, security service from loading to discharging port, or freight-forwarding service. (Any or all of these items could exceed the rail tariff rate.) Rail rates are estimated by using specialized software “TM-Karta” in accordance with Ukrainian Railways (Ukrzaliznytsia) tariff regulation. Farm price = elevator price – handling costs – farm-to-elevator transportation. qtr. = quarter; mt = metric ton.

Sources: Centre for Transport Strategies (CFTS) Kyiv, Ukraine, and USDA, Agricultural Marketing Service.

QUARTERLY EXPORT ROUTE COST COMPARISONS



Table 4. Quarterly costs of transporting Ukrainian wheat from the Black Sea ports (using truck delivery to ports) to Egypt, Indonesia, and Turkey, 2025

	From Central Ukraine - Odesa									
	To Alexandria, Egypt —US\$/mt—					To Ciwandan/Cigading, Indonesia —US\$/mt—				
	1st qtr. 2025	2nd qtr. 2025	3rd qtr. 2025	4th qtr. 2025	Average 2025	1st qtr. 2025	2nd qtr. 2025	3rd qtr. 2025	4th qtr. 2025	Average 2025
Truck	41.35	41.19	52.97	55.38	47.72	41.35	41.19	52.97	55.38	47.72
Ocean	13.60	14.00	16.47	20.43	16.13	33.43	32.07	39.20	41.97	36.67
Total transportation	54.95	55.19	69.44	75.82	63.85	74.78	73.25	92.17	97.35	84.39
Farm price	234.15	227.27	223.12	212.62	224.29	234.15	227.27	223.12	212.62	224.29
Landed cost	289.10	282.45	292.56	288.44	288.14	308.93	300.52	315.29	309.97	308.68
Transport % of landed cost	19.0	19.5	23.7	26.3	22.1	24.2	24.4	29.2	31.4	27.3

	From Central Ukraine - Izmail									
	To Alexandria, Egypt —US\$/mt—					To Marmara Sea ports, Turkey —US\$/mt—				
	1st qtr. 2025	2nd qtr. 2025	3rd qtr. 2025	4th qtr. 2025	Average 2025	1st qtr. 2025	2nd qtr. 2025	3rd qtr. 2025	4th qtr. 2025	Average 2025
Truck	58.94	58.76	75.88	79.25	68.21	58.94	58.76	75.88	79.25	68.21
Ocean	22.77	22.00	24.20	30.00	24.74	17.17	17.17	18.73	23.77	19.21
Total transportation	81.70	80.76	100.08	109.25	92.95	76.10	75.93	94.61	103.02	87.42
Farm price	234.15	227.27	223.12	212.62	224.29	234.15	227.27	223.12	212.62	224.29
Landed cost	315.86	308.03	323.20	321.87	317.24	310.26	303.20	317.73	315.64	311.71
Transport % of landed cost	25.9	26.2	31.0	33.9	29.2	24.5	25.0	29.8	32.6	28.0

	From Central Ukraine - Constanta				
	To Alexandria, Egypt —US\$/mt—				
	1st qtr. 2025	2nd qtr. 2025	3rd qtr. 2025	4th qtr. 2025	Average 2025
Truck	58.94	58.76	75.88	79.25	68.21
Barge Izmail-Constanta	8.33	8.00	8.00	8.00	8.08
Ocean	12.17	12.50	14.70	17.30	14.17
Total transportation	79.44	79.26	98.58	104.55	90.46
Farm price	234.15	227.27	223.12	212.62	224.29
Landed cost	313.59	306.53	321.70	317.17	314.75
Transport % of landed cost	25.3	25.9	30.6	33.0	28.7

Notes: Central Ukraine producing regions are as follows = Cherkasy, Chernihiv, Kherson, Kirovohrad, Kyiv, Mykolaiv, Odesa, Poltava, and Sumy provinces. Export ports: The Port of Odesa was closed during the second quarter of 2022. The Port of Mykolaiv has remained closed to navigation since the second quarter of 2022. Farm price = elevator price – handling costs – farm-to-elevator transportation. qtr. = quarter; mt = metric ton. Sources: Centre for Transport Strategies (CFTS) Kyiv, Ukraine, and USDA, Agricultural Marketing Service.

QUARTERLY EXPORT ROUTE COST COMPARISONS



Table 5. Quarterly costs of transporting Ukrainian corn from the Black Sea ports (using rail delivery to ports) to Egypt, China, Turkey, and Tunisia, 2025

	From Central Ukraine - Odesa									
	To Alexandria, Egypt —US\$/mt—					To Southern ports, China —US\$/mt—				
	1st qtr. 2025	2nd qtr. 2025	3rd qtr. 2025	4th qtr. 2025	Average 2025	1st qtr. 2025	2nd qtr. 2025	3rd qtr. 2025	4th qtr. 2025	Average 2025
Truck	5.35	5.22	6.10	6.55	5.80	5.35	5.22	6.10	6.55	5.80
Rail	11.96	10.96	11.58	12.62	11.78	11.96	10.96	11.58	12.62	11.78
Ocean	13.97	14.25	16.98	20.52	16.43	36.20	37.07	40.63	42.00	38.98
Total transportation	31.28	30.43	34.66	39.68	34.01	53.51	53.25	58.31	61.17	56.56
Farm price	222.98	238.91	210.84	195.15	216.97	222.98	238.91	210.84	195.15	216.97
Landed cost	254.25	269.34	245.49	234.84	250.98	276.49	292.16	269.14	256.32	273.53
Transport % of landed cost	12.3	11.3	14.1	16.9	13.7	19.4	18.2	21.7	23.9	20.8

	From Central Ukraine - Izmail									
	To Alexandria, Egypt —US\$/mt—					To Marmara Sea ports, Turkey —US\$/mt—				
	1st qtr. 2025	2nd qtr. 2025	3rd qtr. 2025	4th qtr. 2025	Average 2025	1st qtr. 2025	2nd qtr. 2025	3rd qtr. 2025	4th qtr. 2025	Average 2025
Truck	5.35	5.22	6.10	6.55	5.80	5.35	5.22	6.10	6.55	5.80
Rail	19.17	17.40	18.44	20.24	18.81	19.17	17.40	18.44	20.24	18.81
Ocean	23.17	22.17	24.87	30.00	25.05	17.50	17.50	19.10	23.93	19.51
Total transportation	47.68	44.79	49.40	56.79	49.67	42.02	40.12	43.64	50.72	44.12
Farm price	222.98	238.91	210.84	195.15	216.97	222.98	238.91	210.84	195.15	216.97
Landed cost	270.66	283.70	260.24	251.94	266.63	264.99	279.04	254.47	245.87	261.09
Transport % of landed cost	17.6	15.8	19.0	22.5	18.7	15.9	14.4	17.1	20.6	17.0

	From Central Ukraine - Constanta				
	To Tunis, Tunisia —US\$/mt—				
	1st qtr. 2025	2nd qtr. 2025	3rd qtr. 2025	4th qtr. 2025	Average 2025
Truck	5.35	5.22	6.10	6.55	5.80
Rail	19.17	17.40	18.44	20.24	18.81
Barge Izmail-Constanta	8.33	8.00	8.00	8.00	8.08
Ocean	17.93	19.00	23.07	26.83	21.71
Total transportation	50.78	49.62	55.60	61.62	54.41
Farm price	222.98	238.91	210.84	195.15	216.97
Landed cost	273.76	288.54	266.44	256.77	271.4
Transport % of landed cost	18.6	17.2	20.9	24.0	20.2

Notes: Central Ukraine producing regions are as follows = Cherkasy, Chernihiv, Kherson, Kirovohrad, Kyiv, Mykolaiv, Odesa, Poltava, and Sumy provinces. Export ports: The Port of Odesa was closed during the second quarter of 2022. The Port of Mykolaiv has remained closed to navigation since the second quarter of 2022. Rail rates include the cost of delivery to the railway station and the cost of renting a grain hopper. However, rail rates do not include the cost of moving and positioning rail cars at the elevator and port, railway station fees, security service from loading to discharging port, or freight-forwarding service. (Any or all of these items could exceed the rail tariff rate.) Rail rates are estimated by using specialized software “TM-Karta” in accordance with Ukrainian Railways (Ukrzaliznytsia) tariff regulation. Farm price = elevator price – handling costs – farm-to-elevator transportation. qtr. = quarter; mt = metric ton.

Sources: Centre for Transport Strategies (CFTS) Kyiv, Ukraine, and USDA, Agricultural Marketing Service.



Table 6. Quarterly costs of transporting Ukrainian corn from the Black Sea ports (using truck delivery to ports) to Egypt, China, Turkey, and Tunisia, 2025

	From Central Ukraine - Odesa									
	To Alexandria, Egypt —US\$/mt—					To Southern ports, China —US\$/mt—				
	1st qtr. 2025	2nd qtr. 2025	3rd qtr. 2025	4th qtr. 2025	Average 2025	1st qtr. 2025	2nd qtr. 2025	3rd qtr. 2025	4th qtr. 2025	Average 2025
Truck	41.35	41.19	52.97	55.38	47.72	41.35	41.19	52.97	55.38	47.72
Ocean	13.97	14.25	16.98	20.52	16.43	36.20	37.07	40.63	42.00	38.98
Total transportation	55.31	55.44	69.95	75.90	64.15	77.55	78.25	93.60	97.38	86.70
Farm price	222.98	238.91	210.84	195.15	216.97	222.98	238.91	210.84	195.15	216.97
Landed cost	278.29	294.35	280.79	271.05	281.12	300.52	317.17	304.44	292.54	303.67
Transport % of landed cost	19.9	18.8	24.9	28.0	22.9	25.8	24.7	30.7	33.3	28.6

	From Central Ukraine - Izmail									
	To Alexandria, Egypt —US\$/mt—					To Marmara Sea ports, Turkey —US\$/mt—				
	1st qtr. 2025	2nd qtr. 2025	3rd qtr. 2025	4th qtr. 2025	Average 2025	1st qtr. 2025	2nd qtr. 2025	3rd qtr. 2025	4th qtr. 2025	Average 2025
Truck	58.94	58.76	75.88	79.25	68.21	58.94	58.76	75.88	79.25	68.21
Ocean	23.17	22.17	24.87	30.00	25.05	17.50	17.50	19.10	23.93	19.51
Total transportation	82.10	80.93	100.74	109.25	93.26	76.44	76.26	94.98	103.19	87.72
Farm price	222.98	238.91	210.84	195.15	216.97	222.98	238.91	210.84	195.15	216.97
Landed cost	305.08	319.84	311.58	304.40	310.23	299.41	315.18	305.81	298.34	304.68
Transport % of landed cost	26.9	25.3	32.3	35.9	30.1	25.5	24.2	31.1	34.6	28.8

	From Central Ukraine - Constanta				
	To Tunis, Tunisia —US\$/mt—				
	1st qtr. 2025	2nd qtr. 2025	3rd qtr. 2025	4th qtr. 2025	Average 2025
Truck	58.94	58.76	75.88	79.25	68.21
Barge Izmail-Constanta	8.33	8.00	8.00	8.00	8.08
Ocean	17.93	19.00	23.07	26.83	21.71
Total transportation	85.20	85.76	106.94	114.09	98.00
Farm price	222.98	238.91	210.84	195.15	216.97
Landed cost	308.18	324.68	317.78	309.24	315.0
Transport % of landed cost	27.6	26.4	33.7	36.9	31.2

Notes: Central Ukraine producing regions are as follows = Cherkasy, Chernihiv, Kherson, Kirovohrad, Kyiv, Mykolaiv, Odesa, Poltava, and Sumy provinces. Export ports - The Port of Odesa was closed during the second quarter of 2022. The Port of Mykolaiv has remained closed to navigation since the second quarter of 2022. Farm price = elevator price – handling costs – farm-to-elevator transportation. qtr. = quarter; mt = metric ton.

Sources: Centre for Transport Strategies (CFTS) Kyiv, Ukraine, and USDA, Agricultural Marketing Service.



Table 7. Quarterly rail rates for selected Ukrainian grain and soybean export transportation routes, 2025

Route #	Origin (reference city)	Destination	Distance (miles)	Share (%)	Freight price (US\$/mt/100 miles)				
					1st qtr	2nd qtr	3rd qtr	4th qtr	Avg
1	Western Ukraine (Khmelnytskii, station Starokonstantinov 1)	Izmail	511	38.8	3.25	2.96	3.12	3.42	3.19
2	Western Ukraine (Khmelnytskii, station Starokonstantinov 1)	Odesa	339		3.53	3.23	3.41	3.72	3.47
3	Eastern Ukraine (Kharkiv, station Lihachevo)	Izmail	773	10.3	3.09	2.79	2.93	3.20	3.00
4	Eastern Ukraine (Kharkiv, station Lihachevo)	Odesa	521		3.19	2.90	3.06	3.35	3.12
5	Central Ukraine (Cherkasy, station Zolotonosha 1)	Izmail	593	50.9	3.23	2.94	3.11	3.41	3.17
6	Central Ukraine (Cherkasy, station Zolotonosha 1)	Odesa	341		3.51	3.21	3.39	3.70	3.45

Notes: Although each origin region comprises several cities, the major station at the center of each region is considered as a reference to establish the freight price. Western Ukraine producing regions are as follows = Chernivtsi, Ivano-Frankivsk, Khmelnytskii, Lviv, Rivne, Ternopil, Vinnytsia, Volyn, Zakarpattia, and Zhytomyr provinces. Eastern Ukraine producing regions are as follows = Dnipropetrovsk, Donetsk, Kharkiv, Luhansk, and Zaporizhia provinces. Central Ukraine producing regions are as follows = Cherkasy, Chernihiv, Kherson, Kirovohrad, Kyiv, Mykolaiv, Odesa, Poltava, and Sumy provinces. Share is measured as a percentage of total production and illustrates the production in the region. Rail rates include the cost of delivery to the railway station and the cost of renting a grain hopper. However, rail rates do not include the cost of moving and positioning rail cars at the elevator and port, railway station fees, security service from loading to discharging port, or freight-forwarding service. (Any or all of these items could exceed the rail tariff rate.) Rail rates are estimated by using specialized software “TM-Karta” in accordance with Ukrainian Railways (Ukrzaliznytsia) tariff regulation. Average monthly exchange rate from the National Bank of Ukraine was used to convert Ukrainian Hryvnia to U.S. dollars. qtr = quarter; mt = metric ton; Avg = average.

Sources: Centre for Transport Strategies (CFTS) Kyiv, Ukraine, and USDA, Agricultural Marketing Service.



Table 8. Monthly Ukrainian grain and oilseeds export truck transportation cost index

Month	Freight price (US\$/mt/100 miles)	Index variation (%) (Base: prior month)	Index value (Base: Jan. 05 = 100)	Month	Freight price (US\$/mt/100 miles)	Index variation (%) (Base: prior month)	Index value (Base: Jan. 05 = 100)
Jan-20	17.41	-2.2	93.36	Jan-23	12.11	-41.9	64.91
Feb-20	15.94	-8.5	85.45	Feb-23	11.86	-2.0	63.59
Mar-20	16.43	3.1	88.10	Mar-23	10.08	-15.0	54.05
Apr-20	13.58	-17.4	72.79	Apr-23	12.31	22.1	65.97
May-20	13.57	0.0	72.78	May-23	15.04	22.2	80.63
Jun-20	13.31	-1.9	71.39	Jun-23	16.13	7.3	86.50
Jul-20	10.74	-19.3	57.58	Jul-23	15.31	-5.1	82.10
Aug-20	7.63	-29.0	40.91	Aug-23	15.31	0.0	82.10
Sep-20	9.87	29.4	52.92	Sep-23	18.07	18.0	96.91
Oct-20	7.77	-21.3	41.66	Oct-23	17.52	-3.0	93.96
Nov-20	8.14	4.8	43.64	Nov-23	17.70	1.0	94.89
Dec-20	8.70	6.9	46.64	Dec-23	16.77	-5.2	89.91
Jan-21	6.22	-28.5	33.35	Jan-24	15.58	-7.1	83.53
Feb-21	6.99	12.4	37.48	Feb-24	15.54	-0.3	83.30
Mar-21	9.90	41.6	53.08	Mar-24	15.52	-0.1	83.20
Apr-21	8.70	-12.1	46.64	Apr-24	14.74	-5.0	79.00
May-21	7.41	-14.8	39.73	May-24	14.61	-0.9	78.31
Jun-21	11.47	54.8	61.50	Jun-24	15.56	6.6	83.44
Jul-21	13.84	20.7	74.22	Jul-24	15.37	-1.2	82.40
Aug-21	14.91	7.7	79.92	Aug-24	15.59	1.4	83.56
Sep-21	18.67	25.3	100.12	Sep-24	16.02	2.8	85.91
Oct-21	20.94	12.1	112.26	Oct-24	16.03	0.0	85.93
Nov-21	22.83	9.0	122.40	Nov-24	15.70	-2.1	84.15
Dec-21	16.87	-26.1	90.44	Dec-24	12.02	-23.4	64.46
Jan-22	14.96	-11.3	80.21	Jan-25	11.87	-1.2	63.66
Feb-22	16.15	7.9	86.58	Feb-25	11.76	-1.0	63.04
Mar-22	17.17	6.3	92.06	Mar-25	12.05	2.5	64.62
Apr-22	17.94	4.5	96.19	Apr-25	12.07	0.2	64.73
May-22	18.38	2.5	98.55	May-25	11.80	-2.3	63.26
Jun-22	19.15	4.2	102.68	Jun-25	11.78	-0.1	63.18
Jul-22	16.93	-11.6	90.79	Jul-25	15.03	27.5	80.57
Aug-22	17.61	4.0	94.42	Aug-25	15.15	0.8	81.25
Sep-22	19.46	10.5	104.33	Sep-25	16.29	7.5	87.32
Oct-22	19.81	1.8	106.22	Oct-25	15.88	-2.5	85.11
Nov-22	20.16	1.8	108.11	Nov-25	16.26	2.4	87.19
Dec-22	20.84	3.4	111.73	Dec-25	16.28	0.1	87.28

Sources: Centre for Transport Strategies (CFTS) Kyiv, Ukraine, Zernovoz, Kyiv, Ukraine, and USDA, Agricultural Marketing Service.



Table 9. Quarterly ocean freight rates for shipping grain and soybeans from selected Ukrainian ports (US\$/metric ton)

Cargo	Port	Destination	Vessel size --metric ton--	1st qtr. 2020	2nd qtr. 2020	3rd qtr. 2020	4th qtr. 2020
Wheat	Mykolaiv	Alexandria, Egypt	25,000-30,000	13.08	10.58	15.00	16.17
Wheat	Mykolaiv	Ciwandan/Cigading, Indonesia	50,000-55,000	32.42	25.25	34.75	33.58
Wheat	Odesa	Alexandria, Egypt	25,000-30,000	11.33	8.83	13.08	14.42
Wheat	Odesa	Ciwandan/Cigading, Indonesia	50,000-55,000	30.67	23.50	32.83	31.83
Corn	Mykolaiv	Alexandria, Egypt	25,000-30,000	13.08	10.58	15.00	16.17
Corn	Mykolaiv	Southern ports, China	50,000-55,000	31.92	27.58	34.25	34.25
Corn	Odesa	Alexandria, Egypt	25,000-30,000	11.33	8.83	13.08	14.42
Corn	Odesa	Southern ports, China	60,000-70,000	29.17	24.83	31.50	31.50
Soybeans	Mykolaiv	Southern ports, China	60,000-70,000	30.92	26.58	33.25	33.25
Soybeans	Odesa	Southern ports, China	60,000-70,000	29.17	24.83	31.50	31.50
Cargo	Port	Destination	Vessel size --metric ton--	1st qtr. 2021	2nd qtr. 2021	3rd qtr. 2021	4th qtr. 2021
Wheat	Mykolaiv	Alexandria, Egypt	25,000-30,000	21.67	24.17	35.00	33.67
Wheat	Mykolaiv	Ciwandan/Cigading, Indonesia	50,000-55,000	45.50	51.00	72.83	61.33
Wheat	Odesa	Alexandria, Egypt	25,000-30,000	19.50	21.50	31.50	31.00
Wheat	Odesa	Ciwandan/Cigading, Indonesia	50,000-55,000	43.33	48.33	69.33	58.67
Corn	Mykolaiv	Alexandria, Egypt	25,000-30,000	21.67	24.17	35.00	33.67
Corn	Mykolaiv	Southern ports, China	50,000-55,000	42.25	49.42	66.42	56.75
Corn	Odesa	Alexandria, Egypt	25,000-30,000	19.50	21.50	31.50	31.00
Corn	Odesa	Southern ports, China	60,000-70,000	39.50	46.67	63.67	54.00
Soybeans	Mykolaiv	Southern ports, China	60,000-70,000	41.25	48.42	65.42	55.75
Soybeans	Odesa	Southern ports, China	60,000-70,000	39.50	46.67	63.67	54.00
Cargo	Port	Destination	Vessel size --metric ton--	1st qtr 2022	2nd qtr 2022	3rd qtr 2022	4th qtr 2022
Wheat	Mykolaiv	Alexandria, Egypt	25,000-30,000	36.98	--na--	--na--	--na--
Wheat	Mykolaiv	Ciwandan/Cigading, Indonesia	50,000-55,000	65.30	--na--	--na--	--na--
Wheat	Odesa	Alexandria, Egypt	25,000-30,000	34.09	--na--	58.93	68.93
Wheat	Odesa	Ciwandan/Cigading, Indonesia	50,000-55,000	62.41	--na--	91.27	101.27
Corn	Mykolaiv	Alexandria, Egypt	25,000-30,000	36.98	--na--	--na--	--na--
Corn	Mykolaiv	Southern ports, China	50,000-55,000	60.96	--na--	--na--	--na--
Corn	Odesa	Alexandria, Egypt	25,000-30,000	34.09	--na--	58.93	68.93
Corn	Odesa	Southern ports, China	60,000-70,000	57.78	--na--	85.99	95.99
Soybeans	Mykolaiv	Southern ports, China	60,000-70,000	59.81	--na--	--na--	--na--
Soybeans	Odesa	Southern ports, China	60,000-70,000	57.78	--na--	85.99	95.99

--Table 9 continues on page 22--

QUARTERLY FREIGHT RATES

-Table 9 continued from page 21-

Cargo	Port	Destination	Vessel size --metric ton--	1st qtr 2023	2nd qtr 2023	3rd qtr 2023	4th qtr 2023
Wheat	Odesa	Alexandria, Egypt	25,000-30,000	32.70	33.83	47.25	41.57
Wheat	Odesa	Ciwandan/Cigading, Indonesia	50,000-55,000	51.93	49.50	52.75	64.50
Wheat	Izmail	Alexandria, Egypt	5,000-6,000	57.17	47.80	52.50	44.63
Wheat	Izmail	Marmara Sea ports, Turkey	5,000-6,000	45.90	36.43	40.00	34.10
Wheat	Constanta	Alexandria, Egypt	25,000-30,000	14.77	14.23	14.73	16.97
Corn	Odesa	Alexandria, Egypt	25,000-30,000	34.20	35.47	48.70	42.40
Corn	Odesa	Southern ports, China	60,000-70,000	54.90	55.80	61.33	66.17
Corn	Izmail	Alexandria, Egypt	5,000-6,000	58.67	49.43	53.93	45.43
Corn	Izmail	Marmara Sea ports, Turkey	3,000	49.23	38.30	41.43	34.97
Corn	Constanta	Tunis, Tunisia	25,000-30,000	22.07	22.20	22.87	26.07
Cargo	Port	Destination	Vessel size --metric ton--	1st qtr. 2024	2nd qtr. 2024	3rd qtr. 2024	4th qtr. 2024
Wheat	Odesa	Alexandria, Egypt	25,000-30,000	30.93	22.60	19.43	18.63
Wheat	Odesa	Ciwandan/Cigading, Indonesia	50,000-55,000	64.60	55.80	48.60	40.97
Wheat	Izmail	Alexandria, Egypt	5,000-6,000	36.13	24.47	21.77	26.73
Wheat	Izmail	Marmara Sea ports, Turkey	5,000-6,000	26.73	17.93	16.33	20.30
Wheat	Constanta	Alexandria, Egypt	25,000-30,000	16.27	15.33	15.57	14.67
Corn	Odesa	Alexandria, Egypt	25,000-30,000	31.80	23.57	20.35	19.23
Corn	Odesa	Southern ports, China	60,000-70,000	61.87	54.67	50.17	41.90
Corn	Izmail	Alexandria, Egypt	5,000-6,000	36.93	24.47	22.27	26.80
Corn	Izmail	Marmara Sea ports, Turkey	3,000	27.67	19.87	17.67	21.43
Corn	Constanta	Tunis, Tunisia	25,000-30,000	24.97	23.13	22.47	21.57
Cargo	Port	Destination	Vessel size --metric ton--	1st qtr. 2025	2nd qtr. 2025	3rd qtr. 2025	4th qtr. 2025
Wheat	Odesa	Alexandria, Egypt	25,000-30,000	13.60	14.00	16.47	20.43
Wheat	Odesa	Ciwandan/Cigading, Indonesia	50,000-55,000	33.43	32.07	39.20	41.97
Wheat	Izmail	Alexandria, Egypt	5,000-6,000	22.77	22.00	24.20	30.00
Wheat	Izmail	Marmara Sea ports, Turkey	5,000-6,000	17.17	17.17	18.73	23.77
Wheat	Constanta	Alexandria, Egypt	25,000-30,000	12.17	12.50	14.70	17.30
Corn	Odesa	Alexandria, Egypt	25,000-30,000	13.97	14.25	16.98	20.52
Corn	Odesa	Southern ports, China	60,000-70,000	36.20	37.07	40.63	42.00
Corn	Izmail	Alexandria, Egypt	5,000-6,000	23.17	22.17	24.87	30.00
Corn	Izmail	Marmara Sea ports, Turkey	3,000	17.50	17.50	19.10	23.93
Corn	Constanta	Tunis, Tunisia	25,000-30,000	17.93	19.00	23.07	26.83

Notes: China's main southern ports include Shanghai, Ningbo, Shenzhen, and Guangdong. na = not available. The Port of Odesa was closed during the second quarter of 2022. The freight average was calculated based on the first, third, and fourth quarters of 2022. The Port of Mykolaiv has remained closed to navigation since the second quarter of 2022.

Sources: Centre for Transport Strategies (CFTS) Kyiv, Ukraine, and USDA, Agricultural Marketing Service.

ACKNOWLEDGMENTS

For data, regional information, and maps of Ukraine, the author would like to thank the Centre for Transport Strategies in Kyiv, Ukraine. For comments and critiques, the author is grateful to Joanna Hitchner, Bill Chambers, and Michael Jewison (USDA, Office of the Chief Economist); Rachel Trego and Kevin Min (USDA, Foreign Agricultural Service (FAS)); and Denys Sobolev (USDA, FAS, Office of Agricultural Affairs, Kyiv, Ukraine). Thanks, also, to USDA, Agricultural Marketing Service employees Maria Williams, Editor; Jessica Ladd, Senior Visual Information Specialist; and Kranti Mulik, Economist.

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PREFERRED CITATION

Delmy Salin. July 2026. *Ukraine Grain Transportation*, U.S. Department of Agriculture, Agricultural Marketing Service. Web <<http://dx.doi.org/10.9752/TS260.07-2026>>