

Wheat maritime shipments dashboard: Methodology and explanatory notes

The **Wheat maritime shipments dashboard** is an interactive tool which offers a number of indicators intended to assist the monitoring of global maritime wheat trade flows, as well as production-to-consumption ratios across various countries and regions, thereby aiming to contribute to enhanced market transparency, reduced price volatility and aid informed decision making by stakeholders, including in the area of food security.

Approach

- All trade flow-related indicators are derived from real-time cargo tracking data compiled by [Kpler](#). Wheat production-to-consumption ratios are based on supply and demand estimates by the [International Grains Council \(IGC\)](#).
- Real time shipping data covers shipments for all dry bulk ocean going vessels (with deadweight tonnage above 10,000), as well as for some shipments by smaller bulkers (coasters). Containerized deliveries are not covered by the dashboard.
- Most of the charts on the dashboard and the related dashboard narrative (Key Insights) are updated every mid and end of the month, based on the latest data snapshot as at 0100 UTC on the 1st and 16th of each month.
- The dashboards on delivery times (section 5) and production-to-consumption ratios (section 6) are updated on a monthly basis.
- The live dashboards (sections 7 and 8) are updated each Monday at 0100 UTC with a cut off the day before.
- All trade-related data are based on a July/June marketing year and cover the period from July 2019.

Structure

The dashboard comprises the following main Sections, which offer a set of regional, sub-regional and country-related¹ indicators:

Section.1 Exporter / importing region

Includes charts for bi-weekly and cumulative exports and imports, for the current season, the previous year and the prior three-year average.

Bi-weekly export data represent shipments from a particular origin (main and significant exporters plus a category "other". Data cover all monitored ports for each origin) to destinations sub-regions (see Annex B for details) within the corresponding period, based on reported, estimated or calculated end-of-loading dates. All dispatches with no reported destinations are classified as "Unspecified". *Bi-weekly cumulative export data* represent the sum of bi-weekly export data since the beginning of the corresponding marketing year.

Bi-weekly import data represent arrivals to a particular monitored destination sub-region within the corresponding period, based on reported, estimated or calculated start-of-discharge dates. *Bi-weekly*

¹ For exporters and for the production-to-consumption self-sufficiency ratios

cumulative import data represent the sum of bi-weekly import data since the beginning of the corresponding marketing year.

Additional charts are provided for the comparison of bi-weekly and cumulative exports/imports with corresponding periods one year earlier and for the last three-year average (in percentage terms).

Data in the charts can be filtered by trade type (Exports/Imports), origin or destination region (see Annex A and B for the breakdown of exporters and importing regions).

Section.2 Exports vs prices/freight costs

The section includes a chart with bi-weekly seaborne dry bulk shipments (exports from monitored ports around the world) since July 2019 (the beginning of marketing year 2019/20), in conjunction with the evolution of the wheat sub-Index of the IGC Grains and Oilseeds Index (<https://www.igc.int/en/markets/marketinfo-go.aspx>) and the IGC Grains and Oilseeds Freight index (<https://www.igc.int/en/markets/marketinfo-freight.aspx>). Date range for the chart can be adjusted with a slider.

Section 3. Regional charts

Includes charts for bi-weekly and cumulative imports for five destination regions , broken down into sub-regions (except for Oceania, see Annex B for details) and presented across five separate web-pages.

Bi-weekly import data represent arrivals to a particular region within the corresponding period, based on reported, estimated or calculated start-of-discharge dates. *Bi-weekly cumulative import data* represent the sum of bi-weekly import data since the beginning of the corresponding marketing year.

Additional data are provided for the comparison of bi-weekly and cumulative sub-regional imports with the prior six-week average², as well as corresponding periods one year earlier and for the last three-year average.

Section 4. Expected arrivals

Represents data for cargoes in transit as at the date/time of the latest data snapshot, broken down by origin and destination sub-region. Only shipments on sea with available estimated time of arrival and defined destinations are included (cargoes in transit to unknown destinations are not shown in the chart).

Section 5. Exporter line-up

Represents data for ongoing loadings at ports across monitored origins grouped by destination sub-regions and exporting regions³, as at the date/time of the latest data snapshot based on reported, estimated or calculated dates of the start and end of loading. Cargoes for which loading have not yet started are not included. The unspecified importing region corresponds to cargoes for which the expected destinations is not known.

Section 6. Delivery times

² Only for bi-weekly imports and calculated as the sum of imports during the six weeks divided by three.

³ Exporting regions include North America, Europe, South America and cover the main and significant exporting wheat origins in these regions: Canada, Mexico and the United States for North America; EU, Russian Federation, United Kingdom and Ukraine for Europe, and Argentina and Brazil for South America. The category Other covers all other exporting origins, including Australia and India.

Includes charts with data on average delivery times (period from the end of loading at an origin port to the start of discharge at a destination port, in days) calculated at the sub-regional destination level by periods of 6 months.

Average delivery times are calculated for cargoes which arrived to monitored destination ports (started unloading) located in the destination sub-region within a six-month period (and the most recent cumulative period until the last snapshot). Average delivery times are weighed by the volume of each delivered cargo in order to show average time required to deliver one tonne of wheat.

Charts are updated on a monthly basis to include the latest full-month data.

Section 7. Production-to-consumption ratios

Shows static indicators by -subregion and by-country ratios of production to consumption for the ten years ending 2021/22.

The Section also includes data on three-year average ratios across monitored sub-regions, as well as a production-to-consumption Matrix, which maps average sub-regional production-to-consumption ratios versus calculated average delivery times for the corresponding sub-region over the years to 2021/22 (see section 5 above). The size of the bubble in the Matrix represents estimated domestic consumption (in million tonnes).

Charts are updated every month, in line with updates to IGC supply and demand forecasts and estimates.

Section 8. Live wheat shipments

Includes detailed interactive shipment data on both exports and imports for the past 12 weeks (excluding the update day itself). Figures are aggregated at region level for origins and sub-region level for destinations. Shipments are presented by trade status: scheduled, loading, in transit, or delivered.

Charts are updated every Monday UTC0100.

Section 9. Live grains shipments

Includes detailed interactive shipping data both on exports and imports for the past 12 weeks (excluding the update day itself) for the following grains: wheat, corn, barley, sorghum, oats, as well as for dried distillers grains. The following data are available: delivered cargoes by grain type from origin sub-regions to destination sub-regions during the 12 weeks period, as well as total volumes in transit, current loadings and cargoes scheduled for loading at monitored ports at the time of last update, and share of total delivered, in transit, loading and scheduled cargoes by destination regions.

Includes detailed interactive shipment data on both exports and imports for the past 12 weeks (excluding the update day itself) for the following grains: wheat, corn, barley, sorghum, oats, and dried distillers grains. Figures are aggregated at region level for origins and sub-region level for destinations. Shipments are presented by trade status: scheduled, loading, in transit, or delivered.

Charts are updated every Monday UTC0100.

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Annex A. List of monitored exporters

Exporter group	Country / Dashboard Name
Major exporters	Argentina
Major exporters	Australia
Major exporters	Canada
Major exporters	European Union
Major exporters	Russian Federation
Major exporters	Ukraine
Major exporters	United States
Significant others	Brazil
Significant others	India
Significant others	Mexico
Significant others	United Kingdom
Others	Others

Notes:

- Monitored European Union member countries include Belgium, Bulgaria, Croatia, Cyprus, Denmark, Estonia, Finland, France, Germany, Greece, Ireland, Italy, Latvia, Lithuania, Malta, Netherlands, Poland, Portugal, Romania, Slovenia, Spain, Sweden. For comparison purposes, EU data for 2019/20-2021/22 does not include the UK.
- Major exporters group includes exporters with average annual wheat (common wheat plus durum) shipments of more than 10m t over the past three marketing years.
- Significant others group includes exporters with average annual wheat (common wheat plus durum) shipments of more than 0.5m t over the past three marketing years.

Annex B. List of Monitored importing regions (continents), sub-regions and constituent countries

Region	Sub-region	Country or territory
Africa	Northern Africa	Algeria
Africa	Northern Africa	Egypt
Africa	Northern Africa	Libya
Africa	Northern Africa	Morocco
Africa	Northern Africa	Sudan
Africa	Northern Africa	Tunisia
Africa	Eastern Africa	Comoro
Africa	Eastern Africa	Djibouti
Africa	Eastern Africa	Eritrea
Africa	Eastern Africa	Kenya
Africa	Eastern Africa	Madagascar
Africa	Eastern Africa	Mauritius
Africa	Eastern Africa	Mozambique
Africa	Eastern Africa	Reunion Island
Africa	Eastern Africa	Seychelles
Africa	Eastern Africa	Somalia
Africa	Eastern Africa	Tanzania
Africa	Eastern Africa	Mayotte
Africa	Western Africa	Benin
Africa	Western Africa	Cape Verde
Africa	Western Africa	Cote d'Ivoire
Africa	Western Africa	Gambia

Africa	Western Africa	Ghana
Africa	Western Africa	Guinea
Africa	Western Africa	Guinea-Bissau
Africa	Western Africa	Liberia
Africa	Western Africa	Mauritania
Africa	Western Africa	Nigeria
Africa	Western Africa	Senegal
Africa	Western Africa	Sierra Leone
Africa	Western Africa	Togo
Africa	Western Africa	St. Helena
Africa	Middle Africa	Angola
Africa	Middle Africa	Cameroon
		Congo (Democratic Republic of)
Africa	Middle Africa	Congo (Brazzaville)
Africa	Middle Africa	Equatorial Guinea
Africa	Middle Africa	Gabon
Africa	Middle Africa	Sao Tome & Principe
Africa	Southern Africa	Namibia
Africa	Southern Africa	South Africa
Americas	Caribbean	Antigua
Americas	Caribbean	Anguilla
Americas	Caribbean	Aruba
Americas	Caribbean	Bahamas
Americas	Caribbean	Barbados
Americas	Caribbean	Cayman Islands
Americas	Caribbean	Cuba
Americas	Caribbean	Curacao
Americas	Caribbean	Dominica
Americas	Caribbean	Dominican Republic
Americas	Caribbean	Grenada
Americas	Caribbean	French Antilles
Americas	Caribbean	Haiti
Americas	Caribbean	Jamaica
Americas	Caribbean	Montserrat
Americas	Caribbean	Puerto Rico
Americas	Caribbean	Saint Kitts and Nevis
Americas	Caribbean	Saint Lucia
		Saint Vincent and the Grenadines
Americas	Caribbean	Sint Eustatius
Americas	Caribbean	Sint Maarten
Americas	Caribbean	Trinidad & Tobago
Americas	Caribbean	Turk & Caicos Islands
Americas	Caribbean	Virgin Islands (U.S.)
Americas	Caribbean	Virgin Islands (U.K.)
Americas	Central America	Belize
Americas	Central America	Costa Rica
Americas	Central America	El Salvador
Americas	Central America	Guatemala
Americas	Central America	Honduras

Americas	Central America	Mexico
Americas	Central America	Nicaragua
Americas	Central America	Panama
Americas	South America	Argentina
Americas	South America	Brazil
Americas	South America	Chile
Americas	South America	Colombia
Americas	South America	Ecuador
Americas	South America	Falklands Islands
Americas	South America	French Guiana
Americas	South America	Guyana
Americas	South America	Peru
Americas	South America	Suriname
Americas	South America	Uruguay
Americas	South America	Venezuela
Americas	North America	Bermuda
Americas	North America	Canada
Americas	North America	Greenland
Americas	North America	United States
Asia	Eastern Asia	China
Asia	Eastern Asia	Hong Kong
Asia	Eastern Asia	Macao
Asia	Eastern Asia	Chinese Taipei
Asia	Eastern Asia	Korea (N)
Asia	Eastern Asia	Japan
Asia	Eastern Asia	Korea (S)
Asia	South-eastern Asia	Brunei
Asia	South-eastern Asia	Cambodia
Asia	South-eastern Asia	Indonesia
Asia	South-eastern Asia	Malaysia
Asia	South-eastern Asia	Myanmar
Asia	South-eastern Asia	Philippines
Asia	South-eastern Asia	Singapore
Asia	South-eastern Asia	Thailand
Asia	South-eastern Asia	Timor
Asia	South-eastern Asia	Vietnam
Asia	South-eastern Asia	Guam
Asia	Southern Asia	Bangladesh
Asia	Southern Asia	India
Asia	Southern Asia	Iran
Asia	Southern Asia	Maldiv Islands
Asia	Southern Asia	Pakistan
Asia	Southern Asia	Sri Lanka
Asia	Western Asia	Azerbaijan
Asia	Western Asia	Bahrain
Asia	Western Asia	Georgia
Asia	Western Asia	Iraq
Asia	Western Asia	Israel
Asia	Western Asia	Jordan
Asia	Western Asia	Kuwait
Asia	Western Asia	Lebanon

Asia	Western Asia	Oman
Asia	Western Asia	Qatar
Asia	Western Asia	Saudi Arabia
Asia	Western Asia	Syria
Asia	Western Asia	Türkiye
Asia	Western Asia	United Arab Emirates
Asia	Western Asia	Yemen
Europe	European Union	Belgium
Europe	European Union	Bulgaria
Europe	European Union	Croatia
Europe	European Union	Cyprus
Europe	European Union	Denmark
Europe	European Union	Estonia
Europe	European Union	Finland
Europe	European Union	France
Europe	European Union	Germany
Europe	European Union	Greece
Europe	European Union	ireland
Europe	European Union	Italy
Europe	European Union	Latvia
Europe	European Union	Lithuania
Europe	European Union	Malta
Europe	European Union	Netherlands
Europe	European Union	Poland
Europe	European Union	Portugal
Europe	European Union	Romania
Europe	European Union	Slovenia
Europe	European Union	Spain
Europe	European Union	Sweden
Europe	Other Europe	Albania
Europe	Other Europe	Bosnia and Herzegovina
Europe	Other Europe	Faroe Islands
Europe	Other Europe	Gibraltar
Europe	Other Europe	Iceland
Europe	Other Europe	Montenegro
Europe	Other Europe	Norway
Europe	Other Europe	Russia
Europe	Other Europe	Ukraine
Europe	Other Europe	United Kingdom
Europe	Other Europe	Guernsey
Europe	Other Europe	Jersey
Oceania	Oceania	Australia
Oceania	Oceania	New Zealand
Oceania	Oceania	Fiji
Oceania	Oceania	Kiribati
Oceania	Oceania	New Caledonia
Oceania	Oceania	Oceania (Is.)
Oceania	Oceania	Pacific Islands
Oceania	Oceania	Papua New Guinea
Oceania	Oceania	Polynesia
Oceania	Oceania	Solomon Islands

Oceania	Oceania	Tonga
Oceania	Oceania	Tuvalu
Oceania	Oceania	Vanuatu
Oceania	Oceania	Western Samoa
Oceania	Oceania	American Samoa
Oceania	Oceania	Cook Islands
Oceania	Oceania	French Polynesia
Oceania	Oceania	Wallis and Futuna

Note:

- Monitored destinations are limited to coastal countries only based on available seaborne shipping data.
- The European Union is shown as a separate sub-region for ease of data presentation and consistency with exports data.