CargoMetrics Grains Pack
Better-Built Data™

Company

Since 2009, CargoMetrics has been a leader in the analysis of global maritime trade. Our Company has a heritage rooted in data science, financial markets, and maritime innovation. Our data power high-value applications used and trusted by some of the world's leading hedge funds, investors, and maritime shipping & logistics firms.
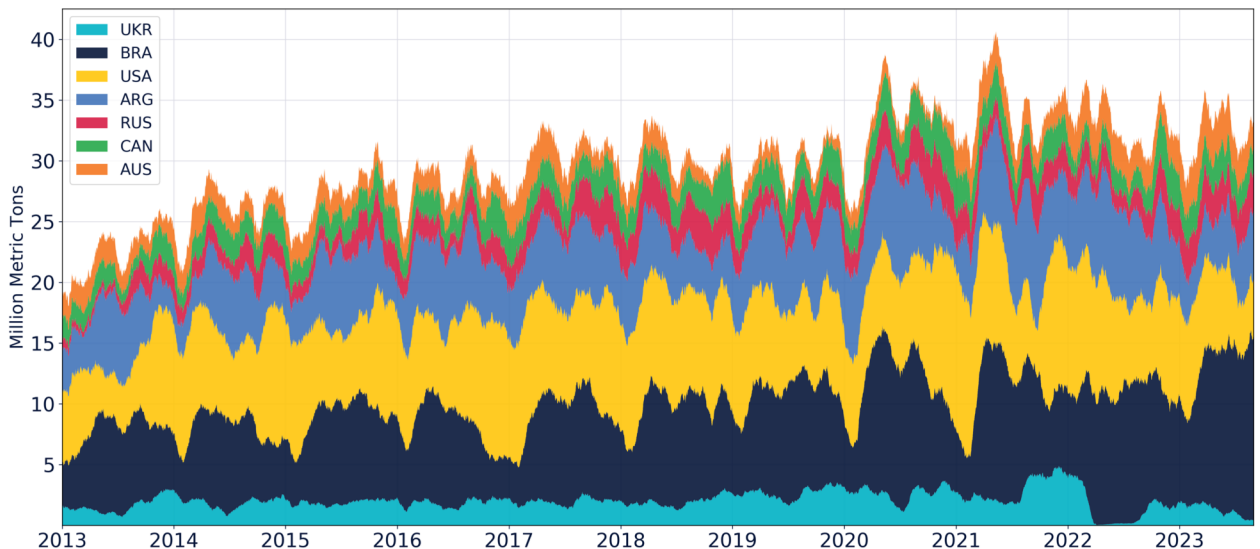
Product Highlights

The CargoMetrics Grains Pack measures seaborne Grain trade and provides

- o **Global coverage** constituting >90% of global import and export trade volume
- o **Point-in-time** daily data
- o **History** from January 2013 to present
- o **The ability** to model, learn, train, and backtest in order to make reliable, data-driven decisions

The Company's approach to data production and monitoring is fully systematic, with an emphasis on automation.

SPECIFICATIONS	
Time Period	2013-01-01 to present
Cargo	Grains (barley, corn, oats, rice, rye, sorghum, soybeans, wheat)
Units	Metric tons
Coverage	Global exports and imports, 50+ countries
Frequency	Daily (12:00 UTC); weekly; monthly
Data Outputs	CSV file
Data Delivery	AWS Data Exchange
Markets	CBOT Corn, Rice, Soybeans, Wheat; DCE Soybeans, Corn

MAJOR GRAIN EXPORT COUNTRIES (30-DAY ROLLING TOTAL)

CargoMetrics® Grains Pack www.cargometrics.com

For more information about this product or to request a trial, contact sales@cargometrics.com.

Product Type

Grains Pack: Seaborne Grain trade data by country, comprising more than 90% of global imports and exports. Data are point-in-time without look-ahead bias.

Advanced – Each file (published on day T) contains a daily time series, through day T-3 for imports and exports, derived from the most up-to-date data available on day T. The collection of daily files forms a full point-in-time dataset that enables wide ranging exploration of Grain trade by country, trade direction, and time and supports training and backtesting exercises as well as use cases requiring custom lags or transformation. Subscription includes access to all historical and future files.

Standard – Available in weekly (Saturday to Friday) and monthly versions. Each file contains a time series with complete history derived from the most up-to-date data available the day it is published. The Standard products are views derived from the Advanced product. Subscription include access to all future files.

Use Cases and Market Applications

The Grains Pack's long history and point-in-time structure make the data well suited for a wide range of applications, including:

o Constructing robust systematic, quantitative trading strategies
o Researching the relationships between global Grain trade and some of the world's deepest financial markets including:
  o Agricultural futures and spreads (CBOT/DCE Corn, Rice, Soybeans, Wheat)
  o Equities (e.g., sector ETFs, individual equities)
  o Freight (FFAs, freight futures)
o Enhancing existing fundamental models and price forecasts
o Measuring national and global trade volumes, changes, and trends
o Monitoring the impact of trade disruptions and geopolitical events (e.g. sanctions)

Methodology

Products are derived from our patented maritime system that has been powering high-value applications for over a decade. The system is a comprehensive spatial-temporal graph of maritime trade with visibility to all dimensions of the trade – all vessels, voyages, cargoes, and geographies throughout time. Our perspective is global and our approach is fully systematic with true point-in-time organization of data and deployment of physical modeling, statistical modeling, and machine learning techniques. Our methodology reflects an emphasis on trustworthiness, consistency, and repeatability.

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Select System Inputs

- Satellite and terrestrial receiver data – including 1 billion ship position messages received daily

- Vessel data – specifications on more than 100,000 ships

- Port data – intelligence on 6,000 ports including 45,000 berths in 150+ countries and territories

- $ Pricing data – freight and financial instrument prices

- Training and validation data

Data Snapshot

CargoMetrics Grains Pack – Advanced

publication_timestamp	activity_date	cargo	country	direction	mass
2023-10-04T12:00:00Z	2023-10-01	grain	USA	export	197012
2023-10-04T12:00:00Z	2023-10-01	grain	CAN	export	52776
2023-10-04T12:00:00Z	2023-10-01	grain	CHN	import	396630
...	...	...	...	...	...
2013-01-04T12:00:00Z	2013-01-01	grain	AUS	export	40173
2013-01-04T12:00:00Z	2013-01-01	grain	BRA	export	17201
2013-01-04T12:00:00Z	2013-01-01	grain	SAU	import	47256

The time series in Tidy Data format enable subscribers to research, model, run backtests, and unlock alpha and insight using combinations of countries, trade direction, and timing.

Geographic Coverage

Exporting Countries: Argentina, Australia, Belgium, Brazil, Bulgaria, Canada, Estonia, France, Germany, India, Latvia, Lithuania, Poland, Romania, Russia, Spain, Thailand, Türkiye, Ukraine, USA, Vietnam

Importing Countries: Algeria, Argentina, Bangladesh, Belgium, Brazil, Canada, Chile, China, Colombia, Denmark, Egypt, France, Germany, Greece, Indonesia, Iran, Iraq, Ireland, Italy, Japan, Malaysia, Mexico, Morocco, Netherlands, Nigeria, Pakistan, Peru, Philippines, Poland, Portugal, Saudi Arabia, Slovenia, South Africa, South Korea, Spain, Taiwan, Thailand, Tunisia, Türkiye, United Kingdom, USA, Vietnam, Yemen

CargoMetrics also provides bespoke data products and professional services.

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