

Datastream

The World's Most Comprehensive Financial Historical Database.

An industry leading analytical data source that enables detailed exploration of relationships between data series; perform correlation and relationship analysis; test investment and trading ideas; research countries, regions and industries, with time series available from the 1950s.

Increased access points and data availability for the agile user:

- **EIKON desktop** – for Charting & Office Intergration
- **Datastream Web service** – Access through dedicated API or via Python, R. Fully integrated with EViews and Matlab
- **Custom FTP service** – for bulk downloads

Powerful Analytical functions and charts **work across all our data sets** all integrated with Microsoft Office

Global macroeconomics

Get the complete picture on virtually any macro environment, better understand economic cycles to uncover trends and forecast market conditions.

Economists, strategists and research communities daily use our 12 million economic time series. Our history extends as far back as the 1950s for G7, 1970s for other major markets and 1980s for smaller countries.

There are economic profiles of 162 countries from national, primary sources. These include government agencies (central statistical offices and ministries), central banks and public or private institutions who compile indicators of renown. Coverage extends from the headlines to include series from all major economic news releases, as well as other important publications or national databases.

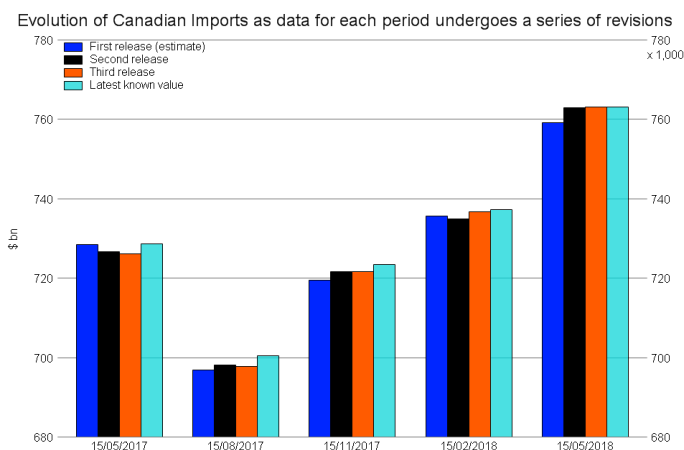
Access comparable data sourced from international organizations for a worldwide perspective, covering 175 countries. Historical macro content is available from the International Monetary Fund (IMF), World Bank and Organisation for Economic Co-operation and Development (OECD). Historical micro content is available from a number of well established industry sources. Forecast and poll series are supplied by leading authorities. The Economist, EIU, Oxford Economics, Intelligence Unit, Consensus Economics, World Bank and OECD.

Pin point data accuracy

Our economics point-in-time (PIT) series enables economic data to be viewed as it was originally reported upon release, allowing a strategic view of how reported figures changed over time. This can support your historical analysis and backtesting needs providing a far superior ability to understand the success rate of any given investment strategy.

Refinitiv economics point-in-time brings greater precision to your analysis. Offering the highest data quality, with a value accuracy rate of 99.85%, this regularly exceeds our rigorous targets for both headline and component economic series. Headlines are updated within two to three minutes after their release time for time-series data.

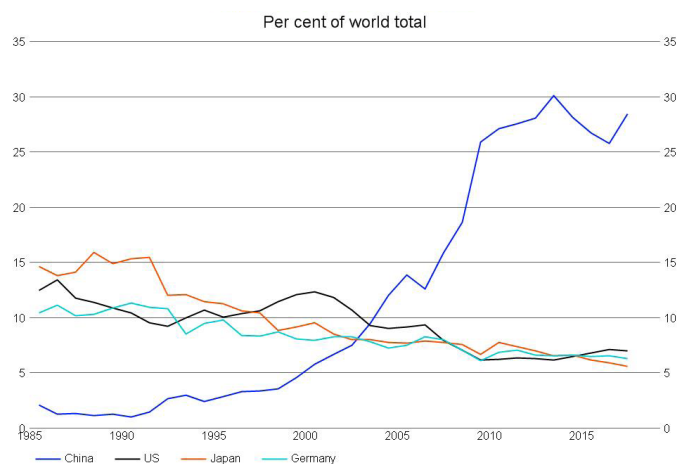
ECONOMICS POINT IN TIME DATA



Source: Thomson Reuters Datastream



IMPORTS OF ORES AND METALS



Source: Thomson Reuters Datastream

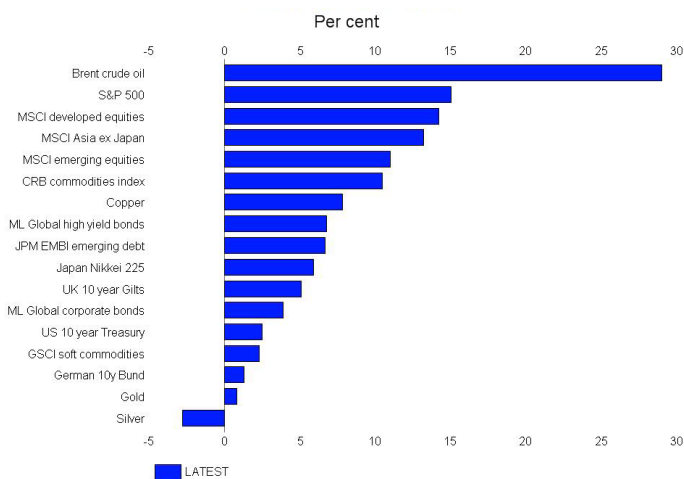
International Comparable Economics

Datastream has its own proprietary comparable macro economic series. This data set provides standardized versions of 50+ key indicators for up to 140 countries & regions so you can easily compare different economies in your research. Originally published by national sources, the data is adjusted to equivalent statistical form and released on the day of the relevant event.

Content sets and sizes unique to Datastream

Unmatched database with 39 million individual instruments across all major asset classes. Harness the power of our time series with market leading presentation charting tools to display highly complex arguments succinctly. The interactive, intuitive charting interface contains a comprehensive set of analytical tools for slicing, correlation and technical/performance analysis. To further cement the strength in our charting solutions we have partnered with Fathom consultants to bring an array of unique content sets like the Sovereign Fragility Index and Financial Vulnerability Indicator.

ASSET RETURNS IN 2019



Source: Thomson Reuters Datastream

Equities – Stock market

With Historical data for over 107,000 active equities covering 100 developed and emerging markets with over 3000 fields including prices, volumes, market capitalization, earnings, dividend and corporate action data. For many markets, there is full coverage of all traded equity instruments with over 50 years of history for the key developed markets. Data is sourced direct from exchanges.

Fundamentals – Broker Estimates and Aggregates

Company fundamental data and financial ratios are available for all developed markets and key emerging markets. Access 8,000 data items with coverage of over 50,000 active quoted companies and over 35,000 inactive companies across 125 markets.

Available only through Datastream, get estimate content from 900 plus contributing firms, which is sourced from I/B/E/S. Access over 30 measures, including earnings, profits, sales and price targets; covering more than 22,000 active and 40,000 inactive companies worldwide.

This data can provide pivotal analysis at an aggregate level to see country, index, sector and industry performance. This can highlight areas with expected growth, associated risk and be a transparent indicator of relative valuation. Unrivalled history which dates back to 1976 for the US, 1985 for Canada, 1987 for EMEA and Asia.

Bonds

A wide coverage of government and corporate bonds, warrants, convertibles, including global international and domestic issues in most major currencies. In total, over 502,000 active bonds and convertibles and 12.1 million matured or called bonds across 72 markets are available. For each bond, there are up to 200 terms and conditions items, as well as full historical evaluated and composite bid/ mid/ ask prices.

Commodities

Explore more than 140,000 commodity series that are available with coverage from 183 sources and exchanges including Goldman Sachs, SJ AIG and CRB. Agricultural prices covering exotics and minors, fats, feeds, fruit, oils, oilseeds, and soft commodities and extensive chemical prices. Energy prices including coal, crude oil prices, spreads and stocks information, electricity, natural gas and oil products. Metals coverage includes precious, base and minor metals, ferrous and non-ferrous, oxides and steel. In addition other commodities content includes environmental prices, fibers, forestry products, diamonds and semiconductors.

Futures and Options

Datastream provides excellent futures coverage for end of day historical futures. Users have access to all pricing and trading data available for both active and inactive futures. In addition 34,000 continuous series calculated with six methods of calculations exist for various term structures.

In addition access to the most global liquid exchange traded options covering 28 countries with over 3,400 live options contracts. Options continuous series exist to provide an uninterrupted view with up to six different types of implied volatility data types including at the money and constant maturities.

Benchmarking and Indices

Datastream has had a number of marked firsts within the industry and was a pioneer when it came to calculating indices relative data on a daily basis.

It is due to our vast constituents' coverage across the major asset classes, that allows users to construct tailored benchmarks to their respective strategies. This means a funds relative performance can be constructed more accurately.

Across equity we cover the main indices and their constituents in MSCI, FTSE Russell, S&P, Dow Jones and STOXX, which includes extensive coverage of market indices for 68 countries and emerging markets.

Within fixed income we are able to break down indices and their relating constituents, a marked leader with this functionality. Access an extensive coverage of more than 80,000 live international and domestic bond indices that cover over 25 domestic markets. Bond index content from the top five bond index providers. FTSE, Markit, JPMorgan, Bloomberg and ICE

BoML. More than 200 downloadable data types exist for third party bond indices with common price index, return index and redemption yield data.

Mutual Funds and Investment Trusts

Datastream offers extensive global coverage of historical end of day funds data, with over 30 years of history and a range of measures including net asset value, dividends, performance metrics, supporting and operating data such as classifications, identifiers, legal entity – all sourced directly from Lipper.

Our comprehensive daily coverage of global markets allows you to view estimated net flows and pricing globally on a daily, weekly, or monthly basis. The database provides comprehensive historical published NAV data.

Fund Indices

Over 700 indices sourced from Lipper are available for benchmarking. The Lipper indices include Lipper US indices, Global Classification indices, plus Lipper Investment Association indices; they allow you to analyse an individual fund's performance against corresponding indices.

Interest and Exchange Rates

Interest rate coverage updated daily. A broad range of money market instruments in various currencies are included, such as treasury bills and bonds; ICE LIBOR and other benchmark interbank rates; certificates of deposits; repo rates and central bank policy rates. Swap series from ICAP include swap options, caps, floors, spreads over treasuries and zero curves.

Exchange rate coverage boasts more than 11,000 daily rates for 179 currencies – all against USD and many against GBP, EUR and other major currencies. Data is sourced from central and other national banks.

ESG (Environmental, Social and Governance)

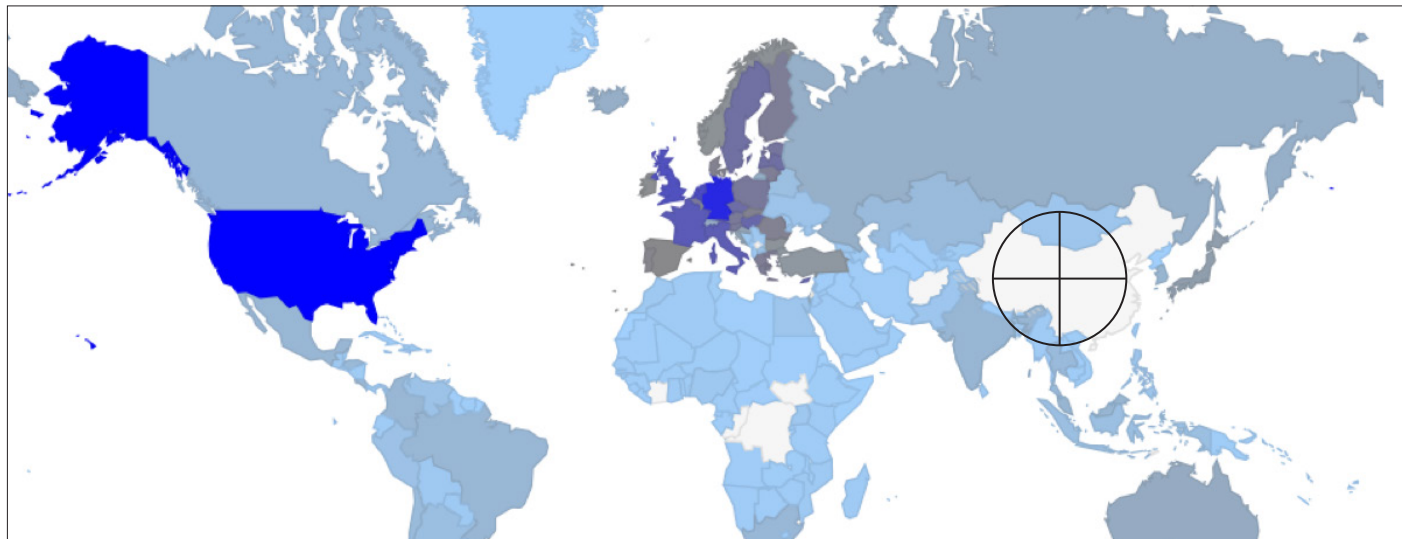
Refinitiv (Thomson Reuters) has in-depth coverage across 7,500+ global companies across 64 countries and over 400 metrics with history back to 2002. We also provide 14+ years of history on over 1.8 million officers and directors for over 80,000 public companies and over 1.1 million officers and directors for 135,000 private companies.

Our coverage

	ACTIVE	INACTIVE
Bond Indices	Over 90,000	Over 10,000
Bonds & Convertibles	Over 502,000	Over 1.6 million
Commodities	Over 105,000	Over 40,000
Constituent Lists	Over 266,000	Over 16,000
Credit Default Swaps	Over 96,000	Over 8,000
Economics	Over 8.7 million	Over 3 million
Equities	Over 107,000	Over 170,000
Equity Indices	Over 287,000	Over 66,000
ESG	Over 7,500	
Exchange Rates	Over 11,000	Over 1,500
Funds	Over 333,000	Over 229,000
Futures	Over 45,000	Over 311,000
Interest Rates	Over 18,000	Over 4,000
Investment Trusts	Over 710	Over 2,400
Options	Over 1.3 million	Over 17.2 million
Warrants	Over 370,000	Over 2.8 million

As of January 2019

ECONOMICS GLOBAL COVERAGE – CHINA ENHANCEMENT*



*350,000 new series available and from 120 Chinese data sources. Majority from in-country sources + major international databases (including Belt and Road indicators). Over 400 Cities with 200+ Indicators.

Visit refinitiv.com/en

REFINITIV™
DATA IS JUST
THE BEGINNING