Infostream Q2 2019

In this issue			
Chinese economic expansion	1	I/B/E/S flash enhancement and IGA additions	13
New features in Datastream charting	5	Equities and funds roundup	14
New FTSE Russell ICB classification	8	Derivatives – new exchange-traded futures and options	15
JPM modules released to Datastream	9	Worldscope Fundamentals roundup	17
Economics roundup	10	Contributors	18

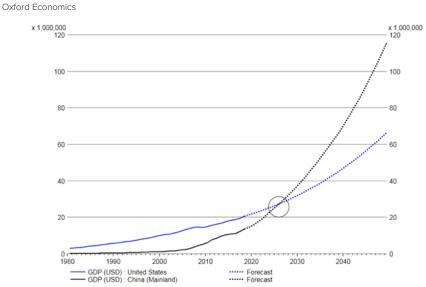
Chinese economic expansion: China's economic power means the war on trade is of global interest. Datastream has data to dig deeper.

Recent "trade wars" have again heightened interest in Chinese content and having access to detailed economic and sector-level data is essential for analysts, economists and strategists. To help our users navigate this hot topic, Datastream has increased its Chinese economics data set to over 350,000 series available to all users.

Why this is important?

With a population of 1.3 billion, China is the world's second largest economy and the largest if measured in purchasing price parity terms. China has been the largest single contributor to world growth since the global financial crisis of 2008. This rapid economic ascendance has brought on many challenges as well, including high levels of inequality, especially between rural and urban areas. All of these points make China an important national and sub-national economy to understand.

USA AND CHINA GDP FORECASTS



Source: Refinitiv Datastream



NEW ECONOMICS CONTENT

Through Datastream apps and feeds we are pleased to provide one of our biggest ever releases of new economics content. The content comes from in-country Chinese national sources and is easy to use alongside other countries, international sources or with our unique indicators and data manipulation tools.

CHINA ECONOMICS			
Datatype	Sourcing		
National macro	National accounts and balance of payments, production, construction, government and public finance, demographic and labor market, domestic trade and household survey, monetary inflation, foreign trade, banking, interest and foreign exchange rates, business and economic surveys		
Provincial macro	Sourced from 34 provinces		
City level historic	Sourced from 662 cities		
City forecasts	Sourced from 286 cities and 30 provinces		
County level	Sourced from the 2,852 counties		

These new series also provide detailed analysis of 22 industries.

The new nationally-sourced data only gives half the picture. Datastream's huge economics database of over 12.5 million series has a fantastic amount of international sources that have great Chinese coverage include OECD, World Bank, IMF, Oxford Economics and many more. Users can access the new content alongside some of our unique data sets like Comparable Economics, Reuters Polls, Fathom Indicators and our set of business & governance indicators.

The new content is available now and can be searched for via Datastream's powerful Navigator search tool. It is included as part of clients' Eikon® DFO or Datastream subscription at no extra cost.

In July a new dataset from Oxford Economics will provide city-level forecasts on over 280 Chinese cities and 30 provinces to use alongside the sub-national historical data that has been added.

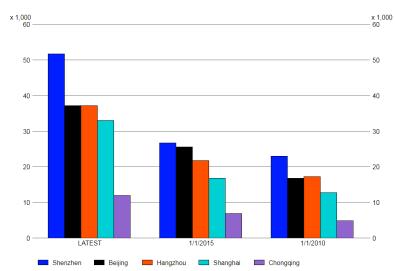
To complement this set of 350,000 new China series we've also teamed up with Fathom Consulting, experts in macroeconomics, geopolitics and financial markets, to release some new and exciting content.

Fathom is an independent consultancy and its economists are world leaders in China Macroeconomic research. They have developed an entire suite of analytical tools dedicated to China, enabling them to accurately measure indicators such as China's real growth rate, its growth strategies and its crossborder capital flows.

They have analysed our entire set of China series, looking through national-, provincial-, city- and country-level data, to pull out the most interesting stories. They've written a series of detailed reports and created 50 brand new charts exclusively for Datastream clients requiring no extra subscription.

CHINA CITIES REAL ESTATE AVE ORICE (YUAN/PSM)

China Index Academy



Click here to edit the chart

These charts will be released from July via Chartbook, Fathom's extensive library of over 9000 charts. Simply type 'cbook' into your Eikon search bar to view and use their material.

Fathom are also releasing a new economics podcast titled: Fathom: In Conversation. It launches in the first week of July and starts with a 10-part series on China. Each episode features conversations with Fathom's economists who reveal unique insights from their research to tell a well-rounded story of China's past, present and potential future. Links to the podcast will be available from the Infobase site.

Expansion of Chinese content is not limited to economics

CHINA MONEY MARKETS

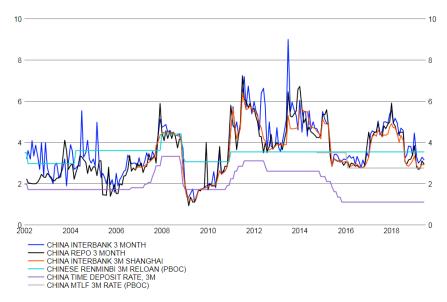
A broad range of key China money market rates added in Q2, namely:

- 70 People's Bank of China rates (including MTLF and SLF rates)
- 31 additional gap fill China IRS series
- 24 additional gap fill China forwards

Graph illustrates selected People's Bank of China three-month rates

PEOPLE'S BANK OF CHINA

Three-month rates



Click here to edit the chart

Source: Refinitiv Datastream

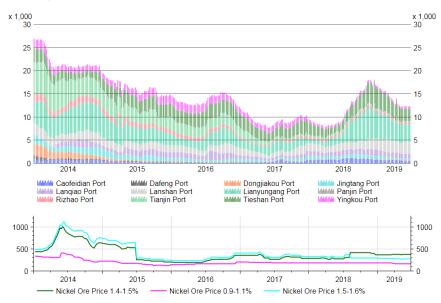
CHINA COMMODITIES

Datastream has added 57 new commodities series produced by Antaike Metals, which includes commodity pricing, import statistics and stocks held. Antaike works under the China Nonferrous Metals Industry Association (CNIA) and is directly overseen by the Information Centre of China National Nonferrous Metals Industry.

Graph shows a stacked bar chart of historical nickel ore stocks at 12 key Chinese ports with pricing line chart below.

CHINA COMMODITY STOCKS

Nickel ore in ports



Click here to edit the chart

Source: Refinitiv Datastream

China and South Korea bond expansion

Datastream has added over 12,500 Chinese corporate bonds and over 63,000 South Korean corporate bonds in Q2 2019.

Chinese bonds are priced on a daily basis since May 2019 with ongoing TRPS evaluated bid, mid and ask prices (datatypes: TRPB, TRPM and TRPA) and both Datastream calculated yields (datatype RY) and Eikon calculated yields (datatype YA). South Korean bonds additionally are supported with composite bid, mid and ask prices (datatypes CMPB, CMPM and CMPA). Full historical pricing for all bonds back to issue dates will be available by end Q3 2019.

All terms and conditions data is sourced directly from the same Refinitiv fixed income database of record which supplies Eikon products and is updated with data changes and new issues intra-day every 20 minutes.

Datastream fixed income content is supported by a highly skilled global team of more than 300 analysts and market specialists collecting data from market participants, prospectuses and best of breed third-party providers in local languages.

Coming Soon: Full price histories and full history of calculated total return values at bond level (datatype RI) will be available by end Q4 2019. Local agency bond level ratings for China Chengxin, China Lianhe and KIS will also be available by end the end of the year.

More Chinese-focused content still to come for Datastream in 2019

Throughout 2019 we are expanding our coverage of Chinese indicators to provide users with access to a huge variety of new series to enable research into this dynamic market.

Q3

- Economics Oxford Economics China Cities
- Equity index 2000 Chinese equity indices
- Fixed income indices from CCDC
- Funds QDII datatype (qualified domestic institutional investor)
- Money China zero curves

Ω 4

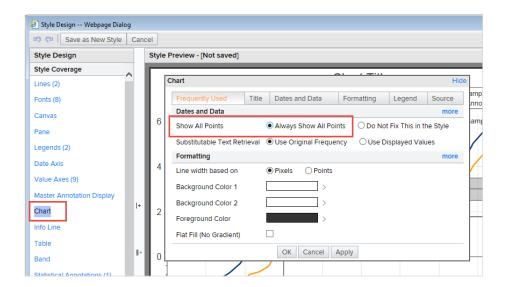
- Fixedincome China rating agencies.
- China corporate bonds total return.
- Fixed income indices China CSI Ping An
- Fixed income indices FTSE China (constituents and weights)

New Features in Datastream charting

This month sees the release of several enhancements including:

Show All Points by default

The Show All Points option means that your charts will display all data points, even over longer date ranges. You can now save this setting in your style and set the style as a default so that it will apply to all new charts you create.

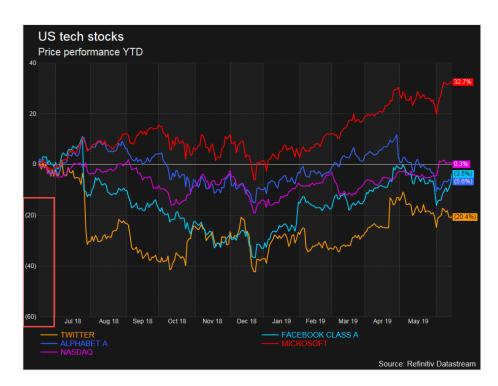


Add a prefix or suffix to your Y axis labels

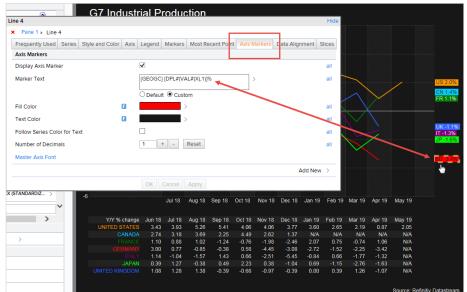
Type or paste in the required symbol or select from the flyout menus, including substitutable text. For example, (ISOCUR) will automatically prefix the labels with the currency of the series used.



Source: Refinitiv Datastream

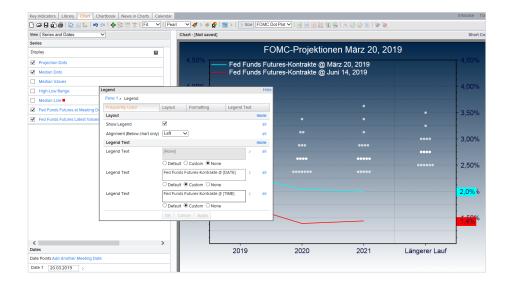


Format negative axis labels in parentheses or a different colour



· Customise the text of axis markers You can also save the colors of axis

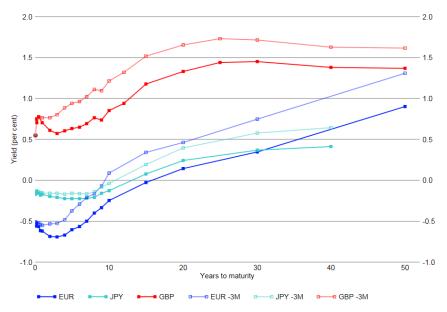
markers in your style.



· Customise text and dates on the FOMC Dot Plot

Use substitutable text such as {DATE} for the meeting date and set the formatting in the chart editor.

EUR AND JPY BENCHMARK CURVES



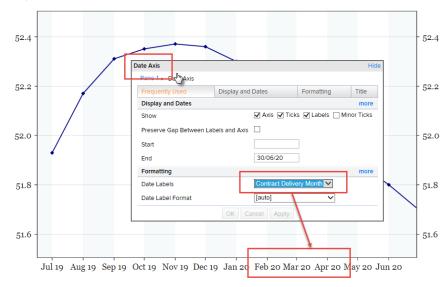
• Display multiple scatters at multiple dates on a static scatter chart

If you have one or two scatters, you can add as many date points as you wish. On charts with more than two scatters, you can display up to two date points.

Source: Refinitiv Datastream

NYM LIGHT CRUDE OIL FUTURES

U.S. \$ per barrel



• Display futures contract delivery months on the X axis of a static scatter chart

Use futures lists and LF datatype on the X axis, then connect the points to show the curve. By default the X axis labels will show how many days are left to delivery for each futures contract. If you wish the X axis labels to show the settlement dates instead, click on the X axis and switch the display from Life to Contract Delivery Month.

Source: Refinitiv Datastream

Values as at 18/06/2019

New FTSE Russell ICB classification

The latest FTSE Russell ICB reclassification has been implemented on Datastream for Datastream Global Indices and for equities within the FTSE Russell universe. Access to the ICB classifications is via the following data items:

ICB DATATYPES		
Datatype	Sourcing	
FTSL1C	ICB industry code	
FTSL1M	ICB industry mnemonic	
FTSL1N	ICB industry name	
FTSL2C	ICB super sector code	
FTSL2M	ICB super sector mnemonic	
FTSL2N	ICB super sector name	
FTSL3C	ICB sector code	
FTSL3M	ICB sector mnemonic	
FTSL3N	ICB sector name	
FTSL4C	ICB sub sector code	
FTSL4M	ICB sub sector mnemonic	
FTSL4N	ICB subsector name	

FTSE Russell will make changes to their indices later this year.

More information on the reclassification can be found here ftserussell.com/files/support-document/current-new-icbstructural-conversion-map-detail

New JP Morgan fixed income index modules released to Datastream

New content – fixed income index data

Datastream has added two new JPM fixed income index modules. These modules are Corporate Emerging Markets Bond Index (CEMBI) and environmental, social and governance (ESG). These indices have been added as part of a bigger content expansion of JP Morgan fixed income indices and constituent lists. These new releases will significantly expand the emerging market index data over Datastream.

Corporate Emerging Market Bond Indices (CEMBI)

CEMBI is a global, liquid corporate emerging markets benchmark that tracks U.S.-denominated corporate bonds issued by emerging markets entities. The corporate CEMBI is a basket of emerging markets corporate issues. The CEMBI series have approximately 300 indices (e.g. CEMBI Broad Indices, CEMBI Diversifed Indices). There are 37 datatypes available including total return, spreads, yields, market value and month-to-date changes. The example below shows the CEMBI China index with total return values back to September 2017.

JPM CEMBI COMPOSITE AND CHINA INDEX



Click here to edit the chart

Source: Refinitiv Datastream

Environmental, social and governance (ESG) indices

The J.P. Morgan ESG ("JESG") integrates ESG factors in a composite benchmark. Coverage of these bonds is anchored around the methodology of the flagship emerging market indices. The ESG series have approximately 200 indices. There are 43 datatypes available including: total return, spreads, yields, market value, month-to-date changes and most importantly ESG scores and ESG score changes.

HOW TO ACCESS

This data can be accessed over all Datastream products – DFO, DDL, DSWS and Charting. The data is available on two new enablements. Please contact your Refinitiv account manager for access.

Economics roundup

The last three months have been exceptional for the economics database, with the addition of over 400,000 time series. The major expansion was for China data (see feature article on page 1). Other highlights include the addition of a global automotive database from Ward's Intelligence. From national sources, there were releases of Australian housing, from CoreLogic and HIA and Norwegian petroleum drilling statistics.

Automotive industry indicators are key in monitoring, analysing and understanding economies. From production in a country, to sales at home and abroad, the actions impact output, consumption and trade sectors and many industries. It is often brought up in supply chain studies, tracing and connecting the players in manufacturing and inputs such as metals, engines, tires, etc; and delivery with product transported by all modes to wholesalers and retailers, to better help our clients, Refinitiv has contracted with Ward's Intelligence, a division of Informa, to carry some of their renowned data.

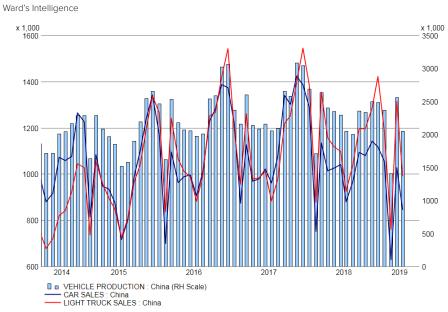
The new data set provides a global collection of Ward's automotive statistics and has been released on Datastream.

The 1,250 series provide unit details on company production and sales of cars and trucks by country. Also included is data for truck sales by weight class (GVW) for the United States. The series are monthly with varying histories generally from January 2005. More specifically, this is the coverage:

- Production of total vehicles with breakdowns for cars; light, heavy, medium trucks; some buses by brand/manufacturer pair
- Production geo coverage 36 countries, all-country total and regions of Asia, Europe, North America
- Sales totals and by vehicle type cars, light trucks, medium/heavy trucks, some buses
- Sales geo coverage 51 countries, all-country total and regions of Asia Pacific, Europe, North America, South America and other (currently Israel plus South Africa)
- Truck sales by weight class (GVW) and brand/company pair for the United States

The series are visible in Navigator and Economic Explorer international industry sources.

CHINA VEHICLE PRODUCTION AND SALES

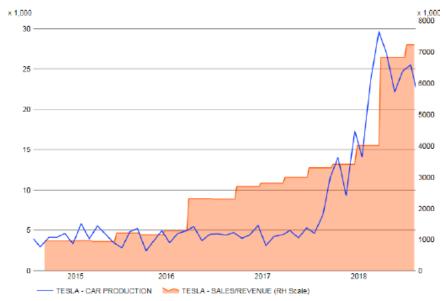


Click here to edit the chart

Source: Refinitiv Datastream

PRODCUTION AND SALES





Click here to edit the chart

Source: Refinitiv Datastream

National releases

The number at the end of each synopsis below is the relevant content notification available on My Account or Customer Zone. There you will find more details and series listings.

AUSTRALIA

- 12 indices of Australian hedonic home property value and gross rental yields, produced by CoreLogic. This data represents the measure of the quality-adjusted changes in the value of properties over time and the imputed value of dwellings. These were estimated using the hedonic regression methodology and cover the five capital cities: Sydney, Melbourne, Brisbane, Adelaide and Perth and an aggregate. The data is monthly with varying histories generally from May 2005. See DN104198.
- 125 series from the Housing Industry Association on affordability in each Australian state and territory. The index is a 'purchase affordability' metric for those who are buying a home with a mortgage. Also added were the percentage of repayments to income, hedonic mean, monthly repayments and the affordability multiple. The series are monthly with history generally from Q1 1996. See DN103126.

BOLIVIA

69 series summarizing net cash flow from foreign exchange, published by the Central Bank of Bolivia. The new data covers foreign exchange (FX) currency receipts and payments with detail on exports and imports, rent, grants, banking operations, external debt, remittances, capital, interests and securities. The series are monthly with history generally from January 1997. See DN103133.

CHINA

24 Chinese metals PMIs, compiled by the Shanghai Metals Market (SMM). The new series cover the calculated indices for Chinese steel downstream industries using PMI formulating methods. Coverage is of steel and related metals nickel, copper and zinc. The PMIs are monthly with varying histories generally from 2017. See <u>DN104120</u>.

DENMARK

55 more harmonized consumer price indices from Statistics Denmark. The new consumer price indices (CPIs) complete the set of seasonally-adjusted components of the Danish harmonized CPIs. With the base year of 2015=100, the series are monthly with history from January 2006. See DN103247.

GERMANY

79 time series on manufacturing unfilled orders in Germany, produced by Statistisches Bundesamt. The data set contains value indices seasonally and non seasonally-adjusted and volume, constant price indices on adjusted and unadjusted basis. The sectors covered are capital goods, consumer goods, durable and non-durable consumer goods, manufacturing and intermediate goods. The indices are monthly, based on 2015=100, with historical data from Jan 1991. See DN103425.

NORWAY

286 series covering monthly production statistics and annual resources accounts, compiled and aggregated by the Norwegian Petroleum Directorate. The new data includes monthly actual production and forecast figures for oil, gas, NGL and condensate, exploration drilling summary, as well as wellbores entry and completion statistics. Also added were annual series on recoverable petroleum resources such as fields, discoveries, reserves by sea. See <u>DN103560</u>.

PANAMA

23 series on the non-financial public sector fiscal balance of Panama, sourced from the Ministerio de Economia y Finanzas. The new data details revenues, expenditures and balance of Panama's non-financial public sector. Also included are the current savings and balance as a percentage of GDP. The series are quarterly with varying histories generally from the fourth quarter of 2003. See DN103261.

UK

- 315 more indices of services (IoS) for the UK, compiled by the Office for National Statistics (ONS). The statistics provide a short-term measure of the output of the different service industries and are important components in the computation of the monthly GDP estimates. The series include the value of output in current prices and in constant price volume indices, as well as percent changes over varied time spans. The series are monthly and annual with varying histories generally from 1998. See DN102987.
- Four corporate tax rates in the UK, published by HM Revenue and Customs. The series cover the main rate, unit trusts and openended investment companies rate and ring fence rates greater than and less than £300,000. The series are annual with varying histories, the longest dates back to 1971. See DN103134.

VIETNAM

• 82 more foreign direct investment (FDI) series to fill in the data set from the General Statistics of Vietnam. The data covers the FDI projects by country detailing the amount of registered capital in U.S. dollars. The series are annual with history generally from 2005. See DN103115.

IHS MARKET PARTNER RELEASE

• IHS Markit applied changes to its Business Outlook Survey, for more consistency across the manufacturing and services data. This resulted in new and discontinued Purchasing Managers' Index™ (PMI) series for each of the country data sets. The 199 new series included: 1) manufacturing staff input and non-staff costs and the research and development (R&D) expenditure in the service sector; 2) a composite (manufacturing plus services) business outlook PMI for 12 countries and the BRIC, EU and Euro Zone aggregates; and 3) more components to the Euro Zone's composite outlook PMI. The series are monthly with varying histories generally from October 2009. There are 175 monthly outlooks on business revenues, capacity utilization, input prices, output ratio and new business that were discontinued. See DN103005.

Institutional Brokers Estimate System (I/B/E/S) flash enhancement and global aggregates (IGA) additions

I/B/E/S Flash Enhancement & IGA Additions

Datastream has expanded its I/B/E/S content with the addition of fiscal year 3 added to its Flash forecasts. Flash estimates are based on the estimates received by I/B/E/S in the most recent weeks. They give a more up to date picture, reflecting the most recent views of analysts.

The datatypes listed in the first column of this table are for fiscal year 1, for other fiscal years change the 1 to a 2, 3. For interim periods include "I"; EPSI1FMN is the datatype for the mean of all Interim 1 estimates received in the last four weeks.

FLASH DATATYPES				
Datatype	Description	Datatypes for other fiscal years and interim periods		
EPS1FMN	Mean of all FYI estimates received in last four weeks	FY1, FY2, FY3, INT1, INT2, INT3, INT4		
EPS1FNE	Total number of FY1 estimates received in the last four weeks	FY1, FY2, FY3, INT1, INT2, INT3, INT4		
EPS1FSD	Standard deviation of all the FY1 estimates received in the last four weeks	FY1, FY2, FY3, INT1, INT2, INT3, INT4		

IGA additions

Datastream has added three new indices to our Institutional Brokers Estimate System (I/B/E/S) global aggregates offering. The OSLO indices are comprised of OSLO SE OBX INDEX, OSLO ALLSHARE INDEX and OSLO BENCHMARK INDEX with weekly history starting January 7th, 2010.

IGA ADDITIONS				
Index code	Name	Long name	Start date	DS ID
OBXP	OBXP	OSLO SE OBX INDEX	07-Jan-10	@:NWOBXP
OSEAX	OSEAX	OSLO ALLSHARE INDEX	07-Jan-10	@:NWOSEAX
OSEBX	OSEBX	OSLO BENCHMARK INDEX	07-Jan-10	@:NWOSEBX

Equities and funds roundup

Closed-end fund (CEF) enhancement

Datastream is pleased to announce new content for U.S. and Canadian CEFs.

New reference data items:

- Lipper ID (LPID)
- Geography Focus (GFOCUS)
- Asset Type (ATYPE)
- Benchmark Name (BENCHN)

New time series data items:

- Total Expense Ratio (TER)
- Total New Assets (TNA)

This enhancement aligns CEF content with open-ended funds and exchange-traded funds (ETFs).

Please see DN103168 for full information.

China fund code

Datastream has added the local market code for Chinese domiciled open-ended funds. The code is stored in the LOC datatype field and prefixed with 'CH:' - for example 006167 becomes CH:006167.

See LCNALL for a full list of Chinese domiciled funds.

The addition of the China fund code significantly improves user navigation because ISIN and SEDOL codes are rarely issued for Chinese funds.

Please see <u>DN103194</u> for full information.

CUSIP check digit

Datastream will be adding the check digit to the U.S. and Canadian CUSIP code. The check digit is the last character of the CUSIP.

The change impacts the following active and inactive instrument types:

- · Equities
- ETC
- ETN
- ETF
- Hedge funds
- · Insurance funds
- Mutual funds
- · Pension funds

U.S. example: U02313510 will become U023135106

Canadian example: Q00765F10 will become Q00765F101

Please see <u>DN103256</u> for full information.

Derivatives – new exchange traded futures & options

New global additions to Datastream are listed below:

IGA ADDITIONS				
Class	Name	Start date	Asset type	Exchange
CSJ	Three-month SOFR	04/05/2018	Interest rate future	CME IMM
CSK	One-month SOFR	04/05/2018	Interest rate future	CME IMM
IXR	Emini S&P real estate select sector index	23/03/2018	Index future	CME IOM
EXM	Italian base load monthly	07/04/2014	Energy future	EEX
EXQ	Italian base load quarterly	07/04/2014	Energy future	EEX
EXY	Italian base load yearly	07/04/2014	Energy future	EEX
EYM	Italian base load monthly	07/04/2014	Energy future	EEX
EYQ	Italian peak load quarterly	07/04/2014	Energy future	EEX
EYY	Italian peak load yearly	07/04/2014	Energy future	EEX
DMZ	MSCI Singapore index	29/05/2017	Index future	EUREX
DMA	Eurex MSCI Europe index EUR	11/03/2013	Index future	EUREX
DMB	Eurex MSCI Europe index USD	14/12/2015	Index future	EUREX
LBJ	BAE Systems	24/07/2015	Equity future	Euronext Amsterdam
LTZ	Telecom Italia SpA	07/08/2014	Equity future	Euronext Amsterdam
NBW	U.S. Midwest Busheling Ferrous Scrap (AMM)	10/09/2012	Commodity future	NYMEX
NBJ	Argus Propane (Saudi Aramco)	03/12/2012	Energy future	NYMEX
ADB	ASX 20 year treasury bond	13/08/2018	Bond future	Sydney Futures Exchange
STZ	TSI FOB Australia Premium Coking Coal	05/08/2014	Energy future	Singapore Exchange
TMC	Taiwan Semiconductor Manufacturing Co. Ltd	25/01/2010	Equity future	Taiwan Futures Exchange
TDJ	Dow Jones Industrial Average Index	15/05/2017	Index future	Taiwan Futures Exchange

Each future class comprises full histories, prices, volume and open interest for all live and dead individual futures, six different types of futures continuous series, live, dead and continuous lists plus 35 reference facts.

Full exchange-traded Chinese options are now available in Datastream.

New additions are listed below:

CHINESE OPTIONS				
Class	Name	Start date	Asset type	Exchange
CSRC	Sugar	14/03/2019	Commodity	Zhengzhou Commodity Exchange
CCFC	Cotton	14/03/2019	Commodity	Zhengzhou Commodity Exchange
DSMC	Soybean Meal	19/04/2019	Commodity	Dalian Stock Exchange
DCCC	Corn	19/04/2019	Commodity	Dalian Stock Exchange
SNRC	Rubber	08/04/2019	Commodity	Shanghai Futures Exchange
SCFC	Copper	08/04/2019	Commodity	Shanghai Futures Exchange

Each options class comprises exchange prices, volume and open interest for all live and dead individual options, analytics comprising implied volatility and Greeks, continuation series plus constant maturity volatility surfaces by delta and money as well more than 30 reference facts.

Worldscope fundamentals roundup

During the January to March period 503 companies were added to the Worldscope® Database. These additions included 18 Australian, 69 Canadian, 23 Chinese, 34 Hong Kong, 63 Indian, 30 Japanese, 11 Swedish, 17 UK, 103 U.S. and 14 Vietnamese companies.

Worldscope's total coverage at the end of the quarter consisted of 88,040 companies, of which 50,310 were active. For more information, please refer to the Worldscope page on Infobase.

Contributors

PAUL BACON

DIRECTOR DATASTREAM

paul.bacon@refinitiv.com +44 (0)20 7542 8254

PRODUCT MANAGEMENT

JULIAN RICKARDS

DATASTREAM DESKTOP & MICROSOFT OFFICE ADD-INS

julian.rickards@refinitiv.com +44 (0)20 7542 8934

CASEY PEARCE

DATASTREAM CHARTING

casey.pearce@refinitiv.com +44 (0)20 7542 9825

JAMES BRIGHT

DATAFEEDS (DSWS) ESTIMATES & FUNDAMENTALS I/B/E/S GLOBAL AGGREGATES

james.bright@refinitiv.com +44 (0)20 7542 1954

MONIKA STANKOVIC

INFOSTREAM editor

DATAFEEDS

monika.stankovic@refinitiv.com +48(58) 7720075

ANDERS JOHANSSON

INFOBASE, FUNCTIONS & EXPRESSIONS

anders.johansson@refinitiv.com +46 707211052

CONTENT MANAGEMENT

PAUL BURGESS

EQUITIES & FUNDS

paul.burgess@refinitiv.com +44 (0)20 7542 4708

MICHAEL RICHARDSON

EQUITY INDICES

michael.richardson@refinitiv.com +44 (0)20 7542 4765

NELSON SALSINHA

FUTURES & OPTIONS

nelson.salsinha@refinitiv.com +44 (0)20 7542 6791

MADELEINE DISARIO

ECONOMICS

madeleine.disario@refinitiv.com +1(240) 618-1132

JOSEPH SWAN

FIXED INCOME INDICES

joseph.swan@refinitiv.com +44 (0)20 7542 1998

PAUL GODDEN

BONDS, INTEREST RATES, **FX & WARRANTS**

paul.godden@refinitiv.com +44 (0)20 7542 1960

Contributors

Clients may be required, as a condition of access or continued access to third-party provide information, to comply with the terms required by a relevant third-party provider. Those terms shall be legally binding on clients. Third-party provider restrictions can be found at refinitiv.com/en/policies/third-party-provider-terms



