DataPoints MARKET INSIGHT FROM TRADEWEB



MARCH 2019

Tradeweb Exchange-Traded Funds Update

The following data is derived from trading activity on the Tradeweb Markets institutional Europeanand U.S.-listed ETF platforms.

EUROPEAN-LISTED ETFs

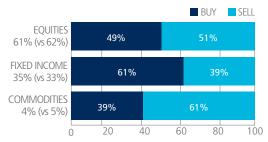
Total traded volume

Activity on the Tradeweb European ETF marketplace reached EUR 25.2 billion in March, while the proportion of transactions processed via Tradeweb's Automated Intelligent Execution (AiEX) tool exceeded 48%, a new monthly record. Adriano Pace, head of equities (Europe) at Tradeweb, said: "March marked the platform's fourth best performance since launch in late 2012. The first quarter of the year also proved to be record-breaking, with total traded volume just shy of EUR 83 billion, up EUR 10.5 billion from Q4 2018."

Volume breakdown

Fixed income ETFs saw net buying during the month, with 'buys' outstripping 'sells' by 22 percentage points. Overall activity in the asset class beat the previous 12-month rolling average by two percentage points. North America and Europe Equities were once again the most active ETF categories with a combined traded notional of nearly EUR 9.9 billion.

Volume by asset class



Volume by most active category

| | Volume (EUR Mn) | Buy (%) | Sell (%) |
|---------------------------|--------------------|---------|----------|
| North America Equities | 5,010 | 53% | 47% |
| Europe Equities | 4,887 | 52% | 48% |
| Global Equities | 2,831 | 46% | 54% |
| Corporate Bonds | 2,331 | 54% | 46% |
| Emerging Markets Equities | 2,262 | 44% | 56% |

All figures in brackets refer to the previous 12-month rolling average. Buy/sell percentages are now calculated at an individual asset class level.

Top ten by traded notional volume

Equity-based products dominated the list of most heavily-traded ETFs in March. The iShares Core S&P 500 UCITS ETF held on to the top spot for the second consecutive month.

| Rank | Ticker | ETF | Issuer | Asset Class |
|------|--------|------------------------------------------------|-----------|--------------|
| 1 | CSPX | iShares Core S&P 500 UCITS ETF | iShares | Equity |
| 2 | IEAC | iShares Core Corp Bond UCITS ETF | iShares | Fixed Income |
| 3 | PJS1 | PIMCO Euro Short Maturity Source UCITS ETF | Invesco | Fixed Income |
| 4 | XESC | Xtrackers Euro Stoxx 50 UCITS ETF | Xtrackers | Equity |
| 5 | VUSD | Vanguard S&P 500 UCITS ETF | Vanguard | Equity |
| 6 | IUQA | iShares Edge MSCI USA Quality Factor UCITS ETF | iShares | Equity |
| 7 | ISF | iShares Core FTSE 100 UCITS ETF | iShares | Equity |
| 8 | CMU | Amundi Index MSCI EMU - UCITS ETF | Amundi | Equity |
| 9 | SEML | iShares JP Morgan EM Local Gov Bond UCITS ETF | iShares | Fixed Income |
| 10 | C50 | Amundi Euro Stoxx 50 - UCITS ETF | Amundi | Equity |

FOR MORE INFORMATION, PLEASE CONTACT:

EUROPE

Susan Bennett susan.bennett@tradeweb.com +44 (0)20 3749.3316

Angeliki Kallipoliti

angeliki.kallipoliti@tradeweb.com +44 (0)20 7776.0958

U.S.

Jonathan Mairs jonathan.mairs@tradeweb.com +1 646.430.6176

Hannah Randall Akeel

hannah.randallakeel@tradeweb.com +1 646.430.6173

www.tradeweb.com

ABOUT DATA POINTS

Data Points is a monthly report that aggregates information from the Tradeweb rates, credit, money markets and equities marketplaces, and the world's largest liquidity providers.

ABOUT TRADEWEB

Tradeweb is a leading global provider of institutional markets, driving the evolution of electronic trading across rates, credit, money markets and equities. Tradeweb applies technology with flexible trading protocols to enhance workflow efficiency and increase market transparency.





U.S.-LISTED ETFs

Total traded volume

Total consolidated U.S. ETF notional value traded in March 2019 was USD 9.24 billion.

Volume breakdown

As a percentage of total notional value, equities accounted for 55.6% and fixed income for 40.0%, with the remainder comprised of commodity and specialty ETFs.

ASSET CLASS AS A PERCENTAGE OF NOTIONAL VALUE TRADED

OTHER

| 4.4% | | | |
|------|--|--|--|
| | | | |

| FIXED INCOME EQUITY 40.0% 55.6% |
|------------------------------------|
|------------------------------------|

Other includes commodity and specialty ETFs

Adam Gould, head of U.S. equities at Tradeweb, said: "While March was relatively high on macroeconomic news, volatility continued to remain in check. As the 2019 dovish sentiment from the Federal Reserve has continued to soak into market consciousness, our customers have continued to position accordingly. The sheer mix of asset classes and client types trading on the U.S. ETF platform underscores the broad scope of ETF usage and ability for the platform to meet customer trading needs."

Top ten by traded notional volume

During the month, 494 unique tickers traded on Tradeweb's U.S. ETF platform. While they reflect a broad mix of interests, it's worth noting the entry of iShares MUB into this month's mix, ahead of tax filing deadlines.

| Rank | Ticker | ETF | Issuer | Asset Class |
|------|--------|----------------------------------------------|--------------|--------------|
| 1 | BSV | Short-Term Bond ETF | Vanguard | Fixed Income |
| 2 | IEMG | Core MSCI Emerging Markets ETF | iShares | Equity |
| 3 | SHY | 1-3 Year Treasury Bond ETF | iShares | Fixed Income |
| 4 | CN | MSCI All China Equity ETF | Xtrackers | Equity |
| 5 | IWB | Russell 1000 ETF | iShares | Equity |
| 6 | MUB | National Muni Bond ETF | iShares | Fixed Income |
| 7 | JNK | SPDR® Bloomberg Barclays High Yield Bond ETF | State Street | Fixed Income |
| 8 | IXUS | Core MSCI Total International Stock ETF | iShares | Equity |
| 9 | EWJ | MSCI Japan ETF | iShares | Equity |
| 10 | IJR | Core S&P Small-Cap ETF | iShares | Equity |