Global Fund Flows

First Half of 2023



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H1 Key Takeaways: Fixed-Income and ETFs Dominate Flows

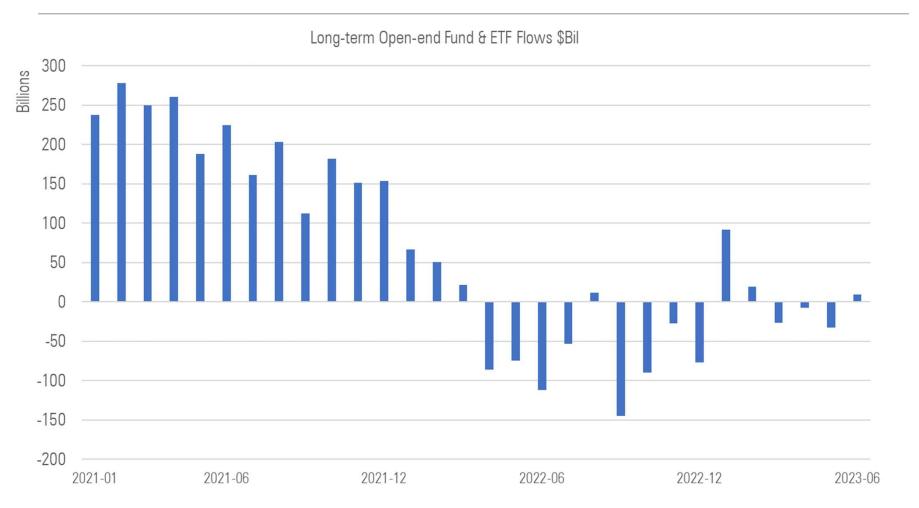
- ► Global funds and exchange-traded funds¹ had \$54 billion of inflows in the first half of 2023, but only one category group, fixed income, had inflows. Its \$236 billion flow more than made up for all other groups.
- ► ETFs enjoyed their 113th straight month of inflows in June. Open-end funds had inflows for this month but had outflows in 16 of the previous 17 months.
- Indexed strategies now represent 39% of assets globally, or \$16.2 trillion.
- Actively managed ETFs are steadily gaining acceptance. They grew at a 14% organic rate in the first half of the year, while passive ETFs grew at 3%.
- Among the largest fund groups, J.P. Morgan posted the highest organic growth rate (5.6%) by far, while iShares (\$66 billion) beat out Vanguard (\$59 billion) in absolute terms.
- ► American asset managers dominate global asset management. The top 10 alone manage 57% of the world's fund and ETF assets.
- Sustainable funds had \$51.2 billion of inflows, while nonsustainable (and unclassified) funds had \$2.4 billion of inflows. Assets in sustainable funds reached \$2.8 trillion, or 6.6% of long-term assets.
- ► Two actively managed equity funds from J.P. Morgan and Pimco Income broke into the top 15 in year-to-date inflows, disrupting a league table that has been dominated by passive strategies for years.

1 Long-term funds excludes money market funds.



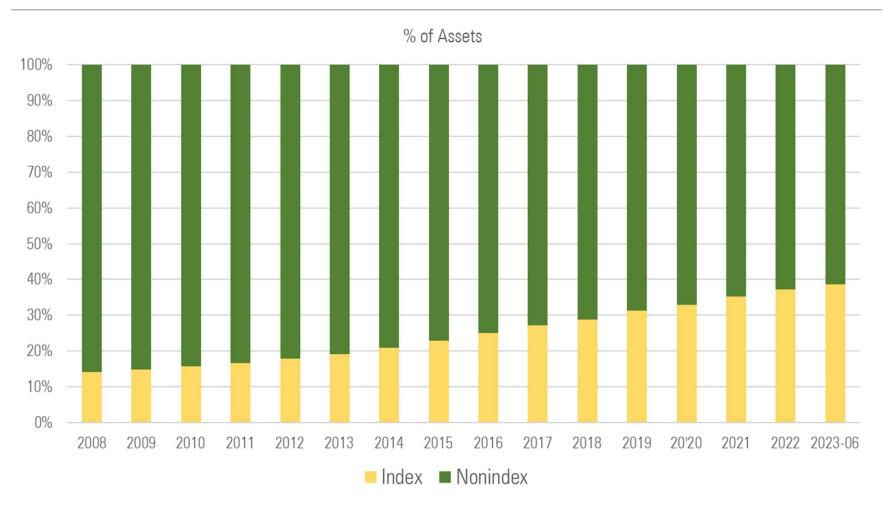
Global Net Flows Flatten in the First Half of 2023

Long-term fund and ETF net flows have converged on zero for the year after a moderately robust January. All category groups had outflows except for fixed income, which had \$236 billion of inflows. The U.S. accounted for \$150 billion of that amount, and continental Europe for \$70 billion.



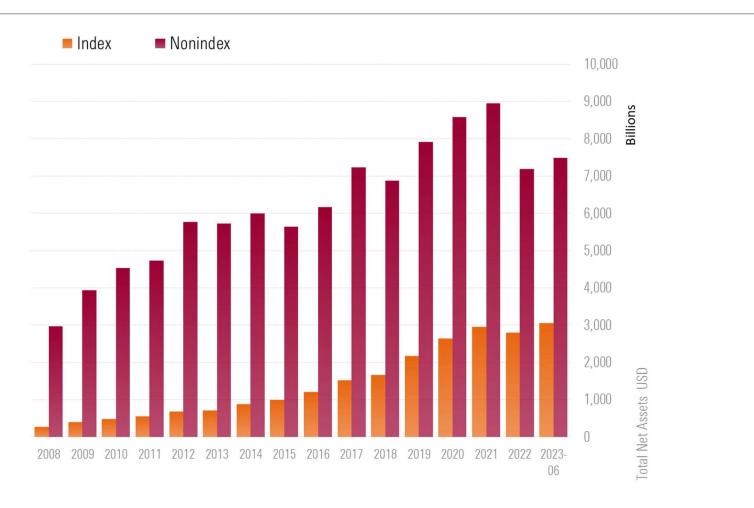
Indexed Strategies Reach 39% of Global Assets

Investors' preference for passive vehicles has increased to 39% today from 31% at the end of 2019.



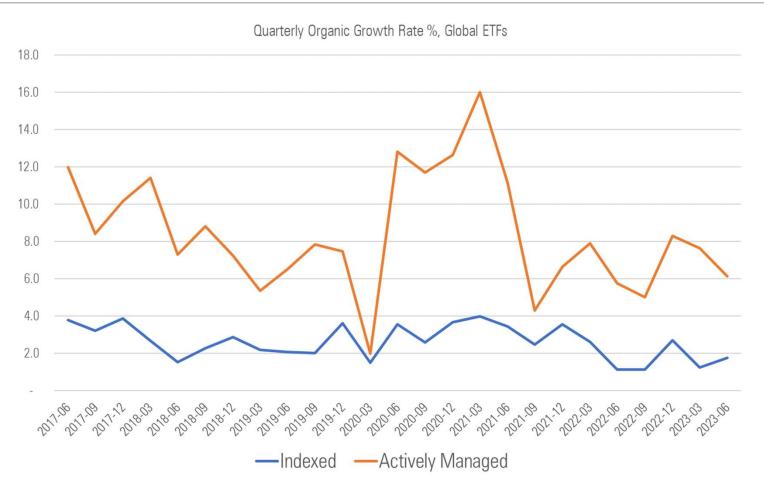
Passive Comes Hunting for Fixed-Income Assets

Passive fixed-income strategies have grown to 29% of global fixed-income assets at the end of June from 9% at the end of 2008. Over that span, passive strategies have captured \$2.8 trillion in flows—\$1.8 trillion in ETFs—while their actively managed counterparts have taken in \$3 trillion.



Actively Managed ETFs Continue to Gain Ground

Nonindexed ETFs grew at a 6% organic growth rate in the first half and represent 5% of ETF assets globally. The U.S. dominates the category, with 78% of AUM residing there. Actively managed ETFs in Asia grew at a 78% rate in the first half of the year (albeit from a small base), the highest rate of any region by far.



iShares Gains Ground on Vanguard, J.P. Morgan Shines

-5

-30

-18

J.P. Morgan raked in \$40 billion globally in the first half of the year, second only to Vanguard and iShares in absolute terms. The firm's organic growth rate of 5.6% was far above its peers. Other active-management shops struggled.

| zargoot / tooot managoro | | | | | | | |
|--------------------------|--------------------------|-------|-------|---------------------------------|---------------------------|------------|--|
| Branding Name | Estimated Net Flow \$Bil | | | YTD Organic Growth Rate % | Total Net Assets \$Bil | Medalist | |
| | YTD | 24 Mo | 36 Mo | | | | |
| Vanguard | 59 | 313 | 661 | 0.89 | 7,336 | High | |
| iShares | 66 | 446 | 714 | 2.28 | 3,204 | Above Avg. | |
| Fidelity | 8 | 50 | 157 | 0.37 | 2,439 | Above Avg. | |
| American Funds | -24 | -80 | -76 | (1.29) | 2,040 | High | |
| State Street | 18 | 108 | 162 | 1.63 | 1,223 | Above Avg. | |
| Invesco | -2 | -1 | 27 | (0.21) | 825 | Average | |
| JPMorgan | 40 | 59 | 153 | 5.60 | 791 | Above Avg. | |

-18

-112

-95

91

-130

-119

(0.71)

(4.67)

(3.11)

Source: Morningstar Direct Asset Flows. Data as of June 30, 2023.

Largest Asset Managers



779

691

604

Above Avg.

High

Average

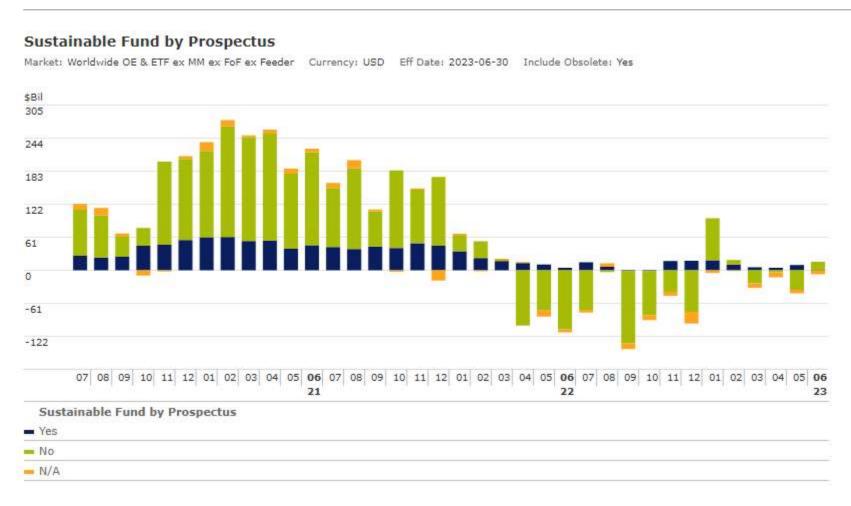
BlackRock

T. Rowe Price

Franklin Templeton

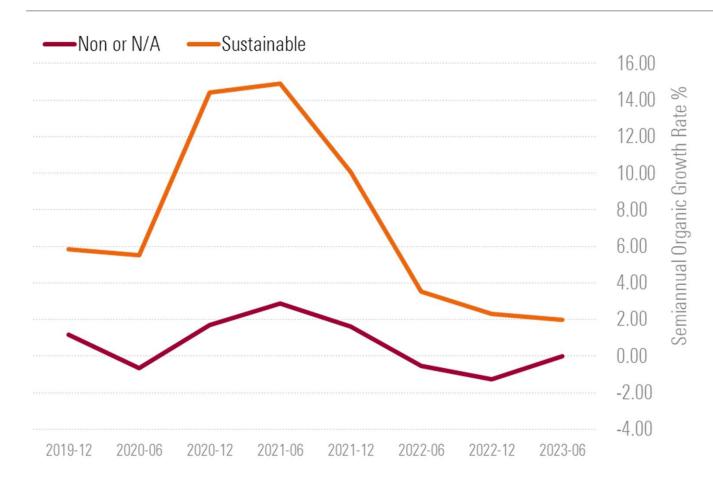
Sustainable Investing Marches On...

Despite—or perhaps because of—the backlash against ESG investing, investors have put more money into sustainable funds than nonsustainable funds for the year to date. The former tallied \$51 billion, while the latter lapped up just \$2 billion. Sustainable flows have remained robust in Europe but were negative in the U.S. in the first half of 2023.



...Though Their Growth Rate Is Converging With Nonsustainable Funds'

Organic growth rate is a tool for comparing the progress of two categories of funds that are of different sizes. Sustainable funds enjoyed outsize growth during the pandemic but invited criticism that has dampened their popularity in the U.S. Their worldwide growth rate, however, remains positive.



Fund-Level Champs: J.P. Morgan & Pimco Crash the Passive Party

The world's largest index funds dominate the flows league table as usual, but J.P. Morgan, Fidelity, and Pimco stood against the passive tide. JPMorgan's Equity Premium Income—the most successful ETF launch ever—and Bronze-rated (US) Large Cap Growth combined for \$23 billion, while the U.S. and European versions of Pimco Income combined to scoop up \$14 billion.

| Fund | Branding Name | Active or Passive | Estimated Net Flow YTD \$Bil | Fund Size \$Bil | Morningstar Medalist Rating* |
|--|------------------|----------------------|------------------------------------|--------------------|------------------------------------|
| Vanguard 500 Index Fund | Vanguard | Passive | 18 | 887 | Gold |
| Vanguard Total Bond Market II Index Fund | Vanguard | Passive | 17 | 252 | Gold |
| Vanguard Total Bond Market Index Fund | Vanguard | Passive | 14 | 297 | Silver |
| JPMorgan Large Cap Growth Fund | JPMorgan | Active | 13 | 60 | Bronze |
| Vanguard Total Stock Market Index Fund | Vanguard | Passive | 13 | 1,352 | Gold |
| iShares 20+ Year Treasury Bond ETF | iShares | Passive | 12 | 40 | Bronze |
| SPDR® S&P 500 ETF Trust | State Street | Passive | 12 | 423 | Silver |
| JPMorgan Equity Premium Income ETF | JPMorgan | Active | 10 | 28 | N/A |
| iShares MSCI USA Quality Factor ETF | iShares | Passive | 10 | 32 | Silver |
| Strategic Advisers® Fidelity® Core IncFd | Fidelity | Active | 9 | 66 | Bronze |
| iShares Core US Aggregate Bond ETF | iShares | Passive | 9 | 92 | Gold |
| PIMCO Income Fund | PIMCO | Active | 8 | 124 | Gold |
| Fidelity® 500 Index Fund | Fidelity | Passive | 8 | 421 | Gold |
| PIMCO GIS Income Fund | PIMCO | Active | 6 | 64 | Silver |
| iShares 7-10 Year Treasury Bond ETF | iShares | Passive | 6 | 29 | Bronze |

Source: Morningstar Direct Asset Flows. Data as of June 30, 2023. * Of largest share class by assets.



American Firms Have Diversified Across Geographies

Every fund group in the top 10 by assets is headquartered in the U.S. Many have succeeded in diversifying across markets, using lower costs to scale their efforts and win over investors. Fidelity has long operated overseas, while BlackRock's iShares has boomed in Europe; 22% of its assets reside on the continent. These 10 firms manage 57% of the world's funds and ETFs by assets.

| Branding Names Assets \$Bil | United States | Europe | Cross- Border | Oceania | Canada | Asia | Latin America | Africa | Total AUM | # of Regions |
|---------------------------------------|------------------|--------|------------------|----------------|--------|------|------------------|--------|--------------|-----------------|
| Vanguard | 6,922 | 299 | 0 | 84 | 35 | 0 | 0.2 | - | 7,341 | 5 |
| BlackRock/iShares | 2,655 | 1,008 | 190 | 17 | 38 | 38 | 39 | - | 3,984 | 7 |
| Fidelity/Fidelity Intl | 2,439 | 71 | 141 | 0 | 112 | 28 | 0 | - | 2,791 | 6 |
| American/Cap Group | 2,706 | 288 | 190 | 0 | 0 | 3 | 31 | - | 3,218 | 7 |
| State Street | 1,107 | 71 | 31 | 8 | 0 | 6 | 0 | - | 1,223 | 5 |
| Invesco | 655 | 99 | 47 | 0 | 17 | 10 | 0 | - | 828 | 6 |
| JPMorgan | 528 | 44 | 192 | 1 | 0 | 25 | 3 | 8.0 | 793 | 7 |
| T. Rowe Price | 655 | 2 | 21 | 5 | 0 | 8 | 0 | - | 691 | 5 |
| Franklin Templeton | 484 | 26 | 65 | 7 | 11 | 5 | 8 | - | 605 | 7 |
| PIMCO | 349 | 169 | 1 | 10 | 16 | 0 | 0.4 | - | 545 | 6 |
| TOTAL | 18,499 | 2,075 | 878 | 133 | 230 | 123 | 82 | 0.8 | 22,019 | |



Appendix



Data Notes

The figures in this report were compiled on July 17, 2023, and reflect only the funds that had reported net assets by that date. The figures in both the commentary and the extended tables are survivorship-bias-free. This report includes both mutual funds and exchange-traded funds but not funds of funds unless specifically stated. It does not include collective investment trusts or separate accounts.

Methodology

Morningstar computes flows using the approach that is standard in the industry: Net flow is the estimated change in assets not explained by the performance of the fund. Our method assumes that flows occur uniformly over the course of the month. Adjustments for mergers are performed automatically. When liquidated funds are included, the final assets of the fund are counted as outflows. Reinvested dividends are not counted as inflows. We use fund-level reinvestment rates for some U.S.-domiciled funds to improve accuracy in this respect. We make ad hoc adjustments for unusual corporate actions such as reverse share splits. When possible, Morningstar offsets outflows caused by transfers to other investment vehicles that share an identical mandate since they are not indicative of a change in investor sentiment.



Data Universe

The figures in this report are based on 199,000-plus share classes across 72 domiciles. A small number of money market funds comprising only 0.04% of total assets in the report are included, but as a general matter, money markets are not included in the report dataset.

Global Broad Category Group

| | Estimated | Total Net Assets (\$Bil) | | | | |
|---------------|-----------|--------------------------|----------|---------|---------|------------------------------|
| Name | 1-Mo | QTD | YTD | 06-2023 | Mkt Sh% | Share Classes Reported |
| Allocation | (14,456) | (34,369) | (64,259) | 3,969 | 9.46 | 28,423 |
| Alternative | (5,402) | (15,691) | (30,124) | 507 | 1.21 | 6,466 |
| Commodities | (6,013) | (6,088) | (6,182) | 306 | 0.73 | 1,235 |
| Convertibles | (467) | (2,557) | (6,190) | 67 | 0.16 | 1,479 |
| Equity | 3,433 | (69,736) | (83,381) | 25,511 | 60.80 | 89,080 |
| Fixed Income | 27,990 | 92,712 | 235,565 | 10,453 | 24.91 | 58,361 |
| Property | (341) | (1,455) | (1,816) | 205 | 0.49 | 322 |
| Miscellaneous | 2,567 | 1,471 | 3,049 | 871 | 2.08 | 12,613 |
| Unclassified | 2,248 | 5,314 | 7,273 | 50 | 0.12 | 1,064 |
| Money Market | (106) | (190) | (306) | 18 | 0.04 | 82 |
| Total | 9,452 | (30,590) | 53,629 | 41,959 | 100.00 | 199,125 |



Disclosures

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