



Four S&P 500 Sectors Have a Rising FCF Yield Through 3Q20

This report analyzes¹ free cash flow (FCF), [enterprise value](#) and the FCF yield for the S&P 500 and each of its sectors.

For reference, we analyze the [Core Earnings](#) for the entire S&P 500 in “[S&P 500 Valuation Remains Over Its Skis](#)” and for each S&P 500 sector in “[Only Three S&P 500 Sector's Core Earnings Improved in 2020.](#)” We analyze [ROIC](#) and its drivers in “[Only Two S&P 500 Sectors Have a Rising ROIC Through 3Q20.](#)”

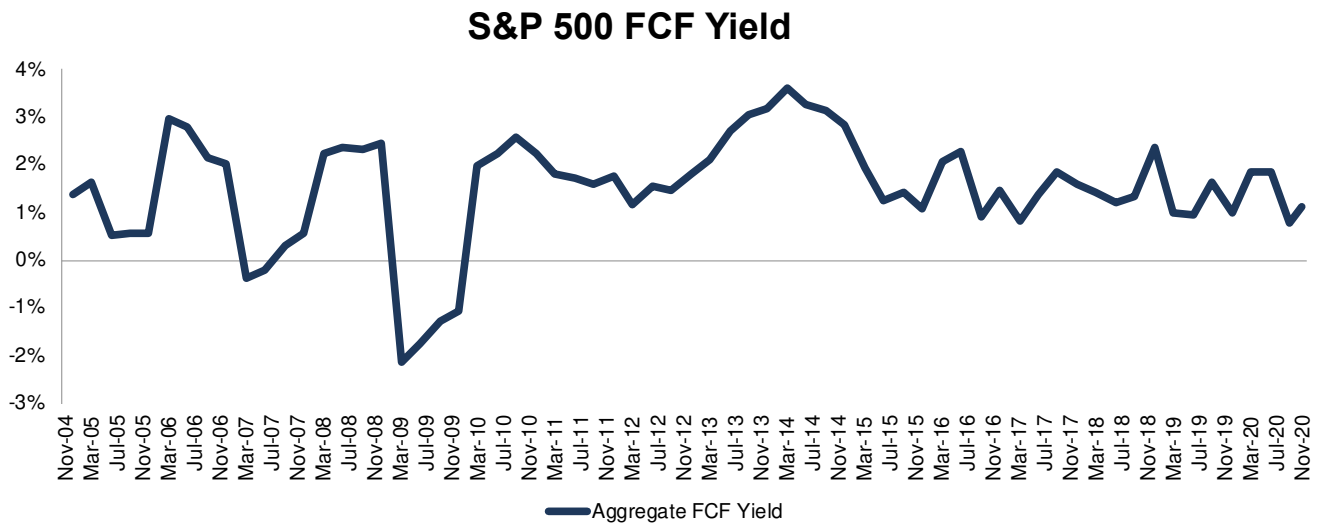
These reports leverage [cutting-edge technology](#) to provide clients with a [cleaner and more comprehensive](#) view of every measure of profits². Investors armed with our research enjoy a differentiated and more informed view of the fundamentals and valuations of companies and sectors.

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S&P 500 FCF Yield Slightly Rebounds From Lowest Level Since December 2009

FCF yield for the S&P 500 fell from 1.9% at the end of 2019 to 1.1% through 11/17/20 (the earliest date updated 10-Qs for the S&P 500 constituents were available). See Figure 1. Only four S&P 500 sectors saw an increase in FCF yield since the end of 2019, as we'll show below.

Figure 1: TTM FCF Yield for the S&P 500 From December 2004 – 11/17/20



Sources: New Constructs, LLC and company filings.

Ranking the S&P 500 Sectors by FCF Yield

Figure 2 ranks all 11 S&P 500 sectors by change in FCF yield from the end of 2019 through 11/17/20.

¹ We calculate these metrics based on [S&P Global's](#) (SPGI) methodology, which sums the individual S&P 500 constituent values for free cash flow and enterprise value before using them to calculate the metrics. We call this the “Aggregate” methodology. Get more details in Appendix II and III.

² For 3rd-party reviews, including [The Journal of Financial Economics](#), on the benefits of adjusted Core Earnings, historically and prospectively, across all stocks, click [here](#) and [here](#).



Figure 2: TTM FCF Yield as of 11/17/20 by Sector

Sector	FCF Yield	Change Since 2019 (% points)
Energy	6.2%	5.2%
Utilities	-0.6%	3.6%
Consumer Cyclical	0.6%	1.0%
Financials	2.5%	0.1%
Consumer Non-cyclicals	3.5%	-0.5%
Technology	2.2%	-0.6%
Industrials	0.5%	-1.0%
Healthcare	-1.9%	-2.2%
Real Estate	-1.8%	-3.3%
Telecom Services	-3.0%	-7.8%
Basic Materials	4.0%	-9.7%
S&P 500	1.1%	-0.7%

Sources: New Constructs, LLC and company filings.

Investors are getting more FCF for their investment dollar in the Energy sector than any other sector. On the flip side, the Telecom Services sector currently has the lowest FCF yield of all S&P 500 sectors.

The Energy, Utilities, Consumer Cyclical, and Financials sectors have each seen an increase in FCF yield since the end of 2019.

Details on Each of the S&P 500 Sectors

Figures 3-13 show the FCF yield trends for every sector since 2004.

We present the components of FCF yield, FCF and enterprise value, for the S&P 500 and each S&P 500 sector in Appendix I.

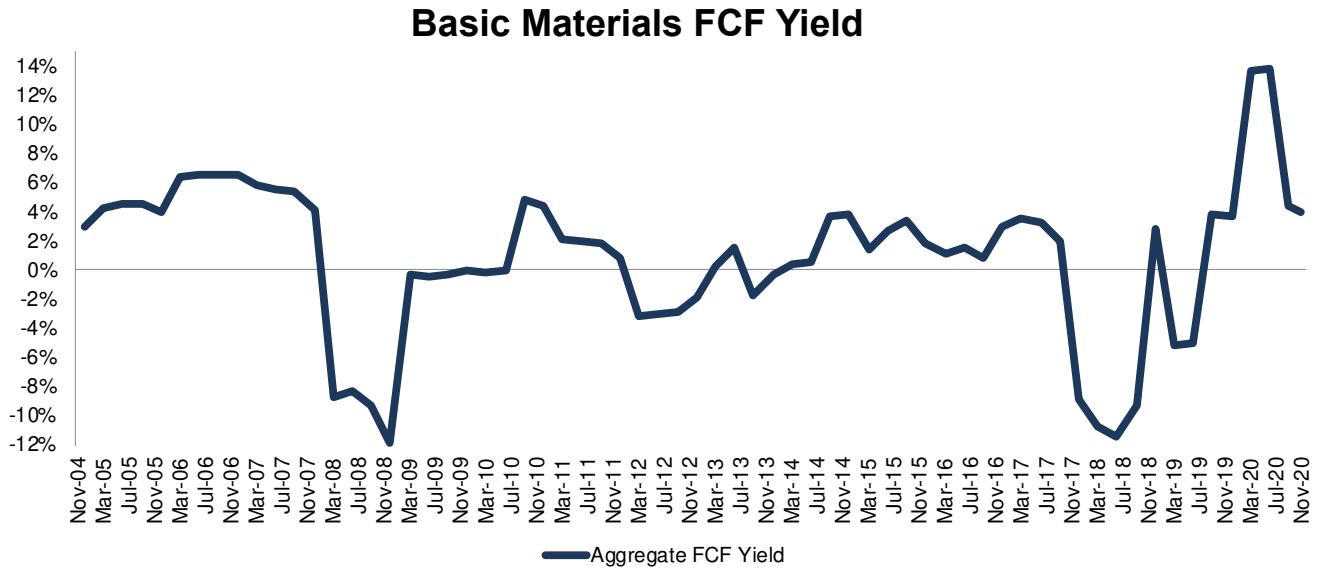
Appendix II provides additional aggregated FCF yield analyses that adjust for company size/market cap.



Basic Materials

Figure 3 shows FCF yield for the Basic Materials sector increased significantly since mid-2018 even after the COVID-19-induced downturn in 2020. The Basic Materials sector FCF fell from \$106 billion at the end of 2019 to \$42 billion TTM while enterprise value increased from \$779 billion to \$1 trillion over the same time.

Figure 3: Basic Materials FCF Yield: December 2004 – 11/17/20

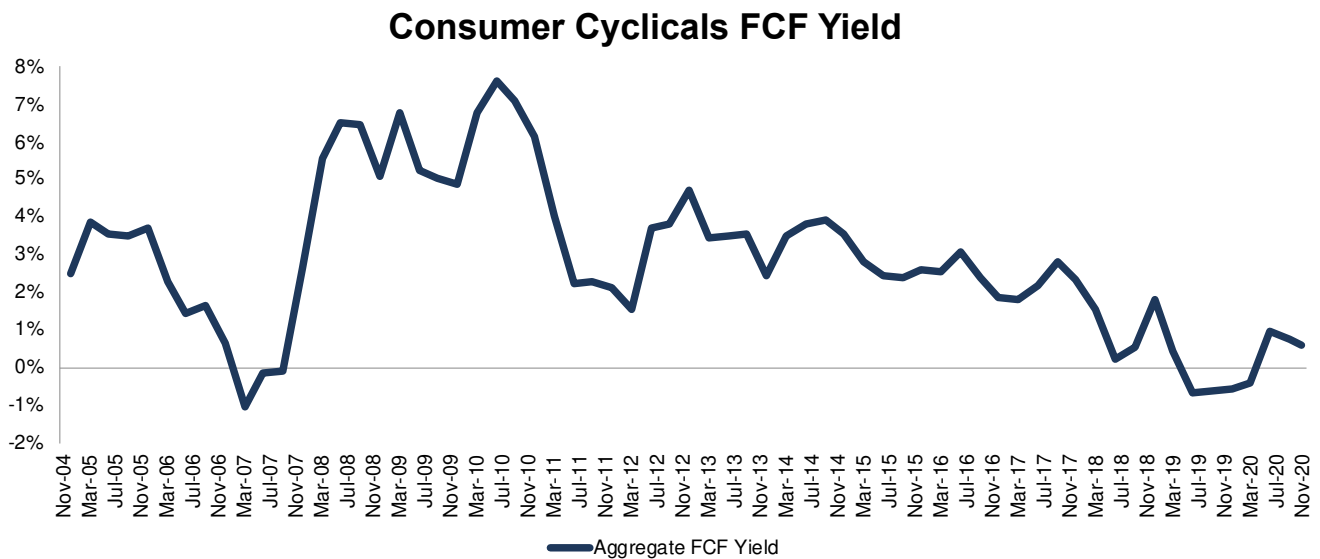


Sources: New Constructs, LLC and company filings.

Consumer Cyclicals

Figure 4 shows FCF yield for the Consumer Cyclicals sector has been in a long-term decline since 2010. The Consumer Cyclicals sector FCF improved from -\$15 billion at the end of 2019 to \$32 billion TTM while enterprise value increased from \$3.8 trillion to \$5.4 trillion over the same time.

Figure 4: Consumer Cyclicals FCF Yield: December 2004 – 11/17/20



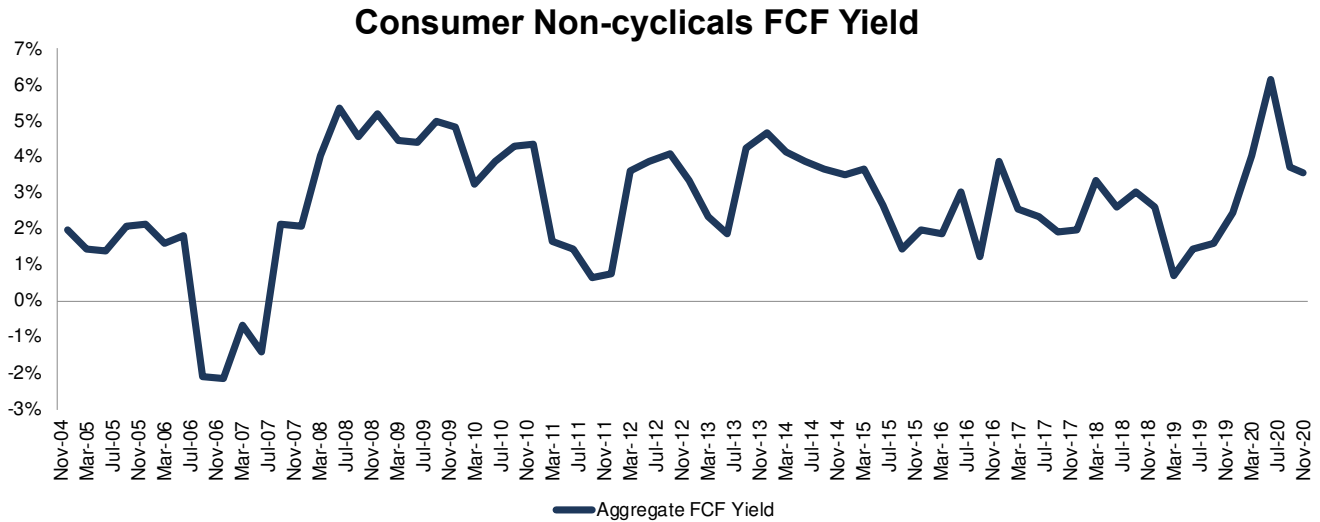
Sources: New Constructs, LLC and company filings.



Consumer Non-cyclicals

Figure 5 shows FCF yield for the Consumer Non-cyclicals sector soared in 2019 before falling to 3.5% TTM. The Consumer Non-cyclicals sector FCF improved from \$101 billion at the end of 2019 to \$105 billion TTM while enterprise value increased from \$2.5 trillion to \$3 trillion over the same time.

Figure 5: Consumer Non-cyclicals FCF Yield: December 2004 – 11/17/20

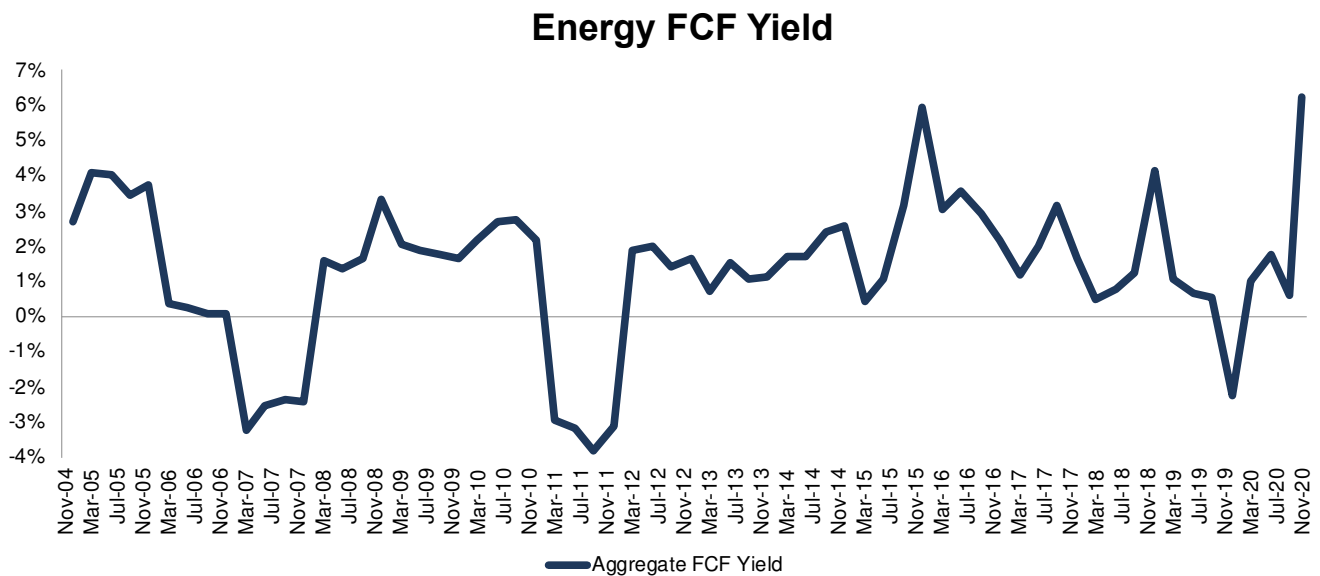


Sources: New Constructs, LLC and company filings.

Energy

Figure 6 shows the volatile nature of FCF yield for the Energy sector. The Energy sector's FCF yield sharply rose from 1% at the end of 2019 to 6.2% TTM. The Energy sector FCF increased from \$11 billion in 2019 to \$78 billion TTM and enterprise value increased from \$1.1 trillion to \$1.3 trillion over the same time.

Figure 6: Energy FCF Yield: December 2004 – 11/17/20



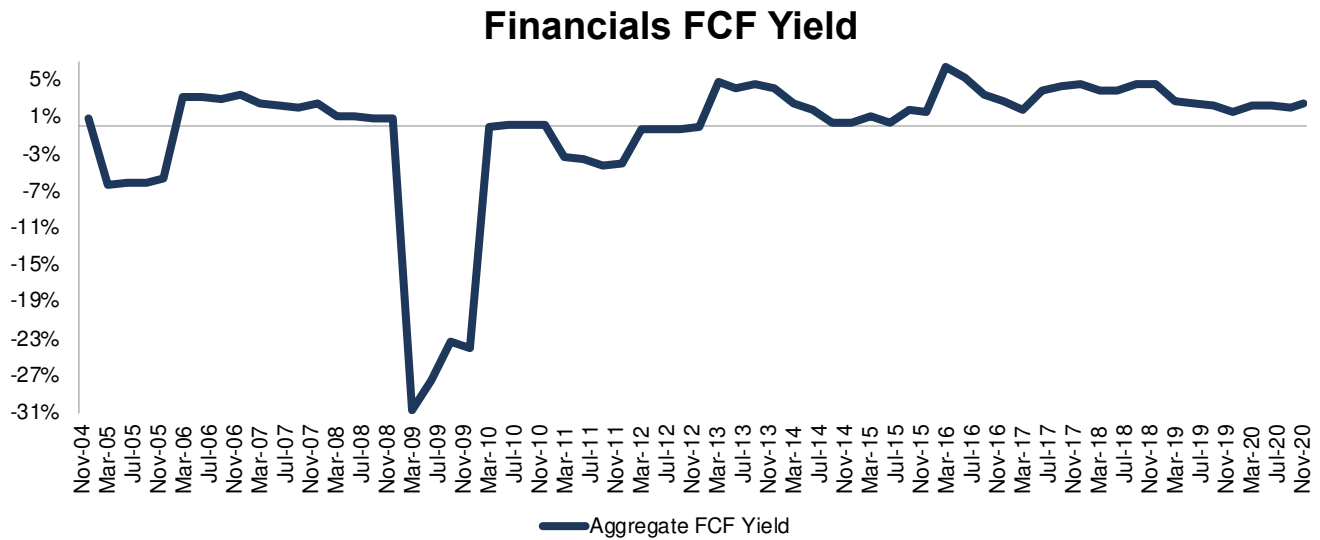
Sources: New Constructs, LLC and company filings.



Financials

Figure 7 shows FCF yield for the Financials sector has been largely stable except during the Financial Crisis. The Financials sector FCF yield increased from 2.4% at the end of 2019 to 2.5% TTM. The sector's FCF increased from \$75 billion in 2019 to \$100 billion TTM while enterprise value increased from \$3.2 trillion to \$4.0 trillion over the same time.

Figure 7: Financials FCF Yield: December 2004 – 11/17/20

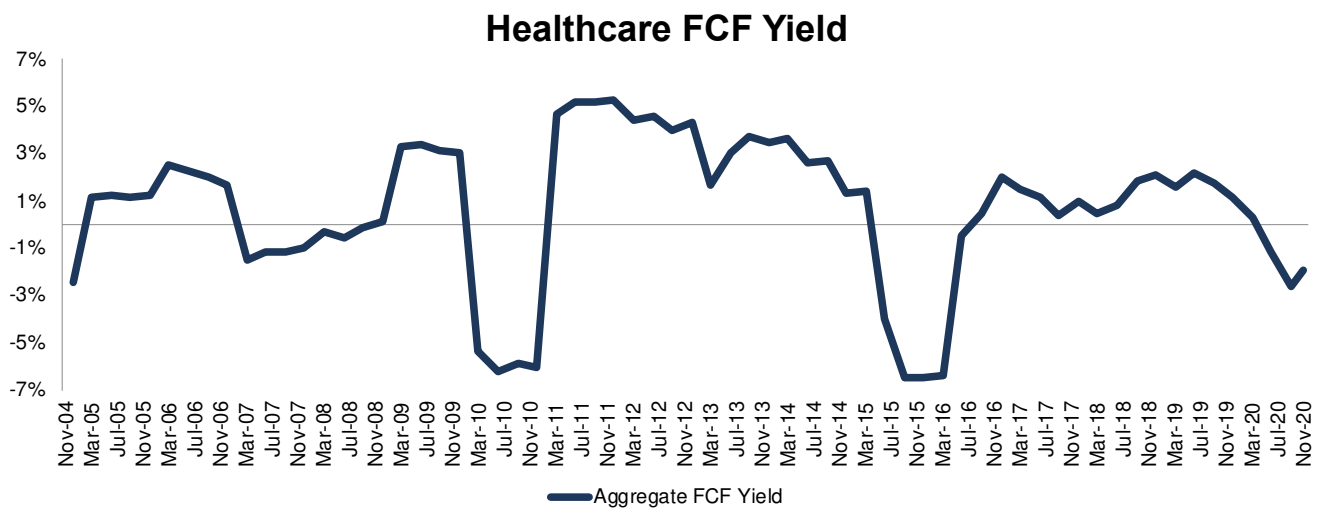


Sources: New Constructs, LLC and company filings.

Healthcare

Figure 8 shows FCF yield for the Healthcare sector fell from 0.3% at the end of 2019 to -1.9% TTM. The decline in FCF yield stems from FCF falling from \$10 billion in 2019 to -\$99 billion TTM. Meanwhile, enterprise value increased from \$3.9 trillion to \$4.9 trillion over the same time.

Figure 8: Healthcare FCF Yield: December 2004 – 11/17/20



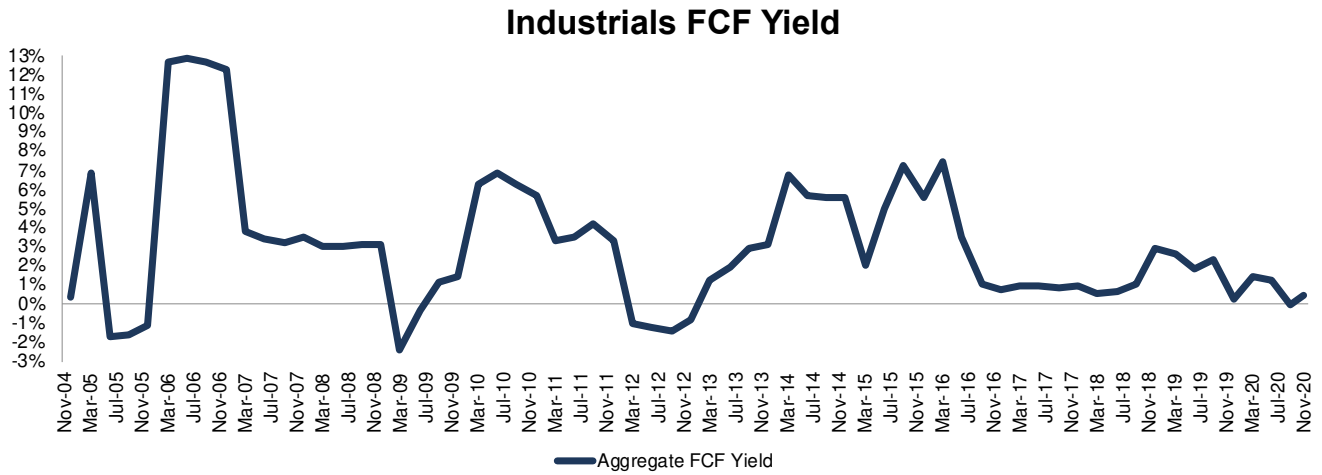
Sources: New Constructs, LLC and company filings.



Industrials

Figure 9 shows FCF yield for the Industrials sector sits at 0.5%, which is down from 1.5% in 2019. The Industrials sector FCF fell from \$42 billion in 2019 to \$18 billion TTM while enterprise value increased from \$2.9 trillion to \$3.8 trillion over the same time.

Figure 9: Industrials FCF Yield: December 2004 – 11/17/20

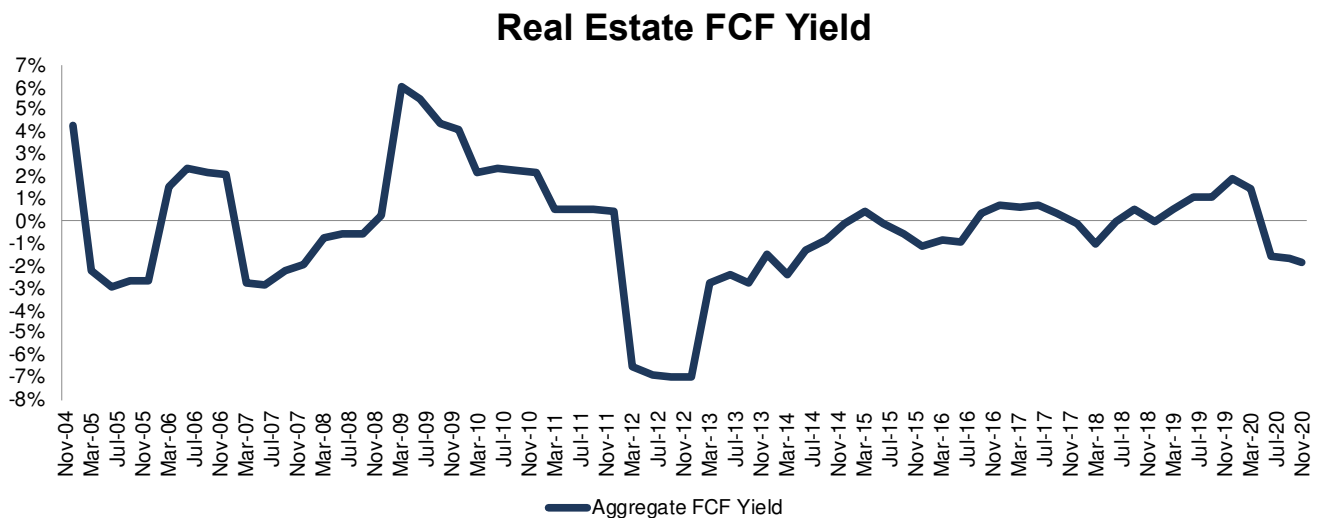


Sources: New Constructs, LLC and company filings.

Real Estate

Figure 10 shows FCF yield for the Real Estate sector rather steadily improved from 2012-2019 before falling in 2020. The Real Estate FCF yield fell from 1.5% in 2019 to -1.8% TTM. FCF for the sector fell from \$13 billion in 2019 to -\$19 billion TTM and enterprise value increased from \$869 billion to \$1 trillion over the same time.

Figure 10: Real Estate FCF Yield: December 2004 – 11/17/20



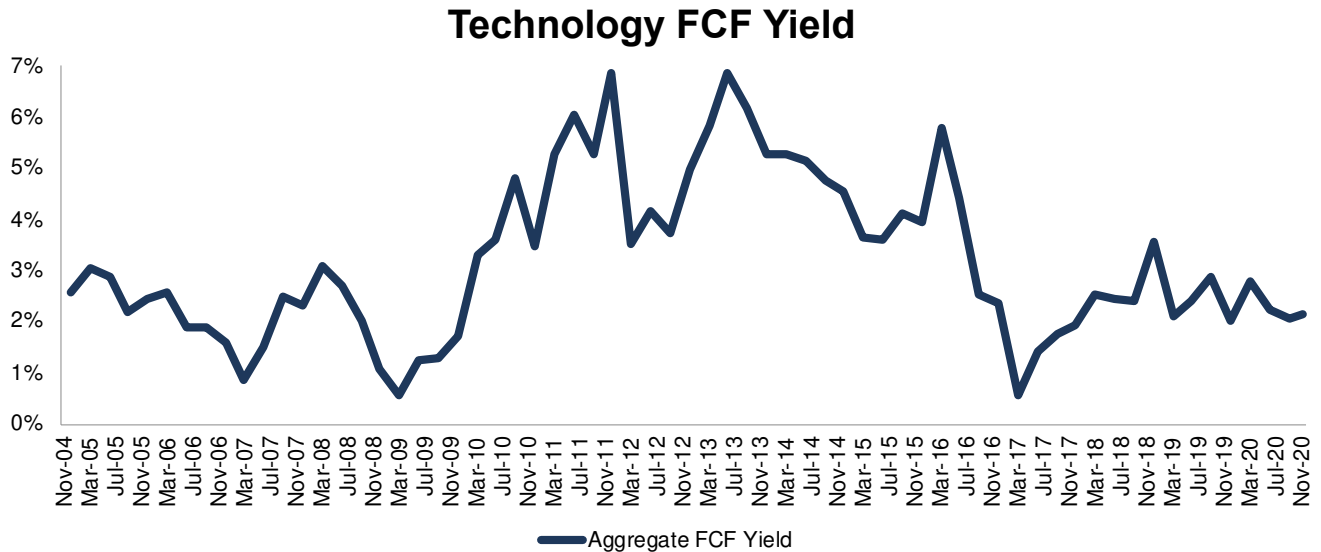
Sources: New Constructs, LLC and company filings.



Technology

Figure 11 shows FCF yield for the Technology sector remains well below prior highs in 2011, 2013, and 2015. The sector's FCF yield fell slightly from 2.8% in 2019 to 2.2% TTM. The Technology sector FCF increased from \$197 billion in 2019 to \$230 billion TTM and enterprise value improved from \$7 trillion to \$10.7 trillion over the same time.

Figure 11: Technology FCF Yield: December 2004 – 11/17/20

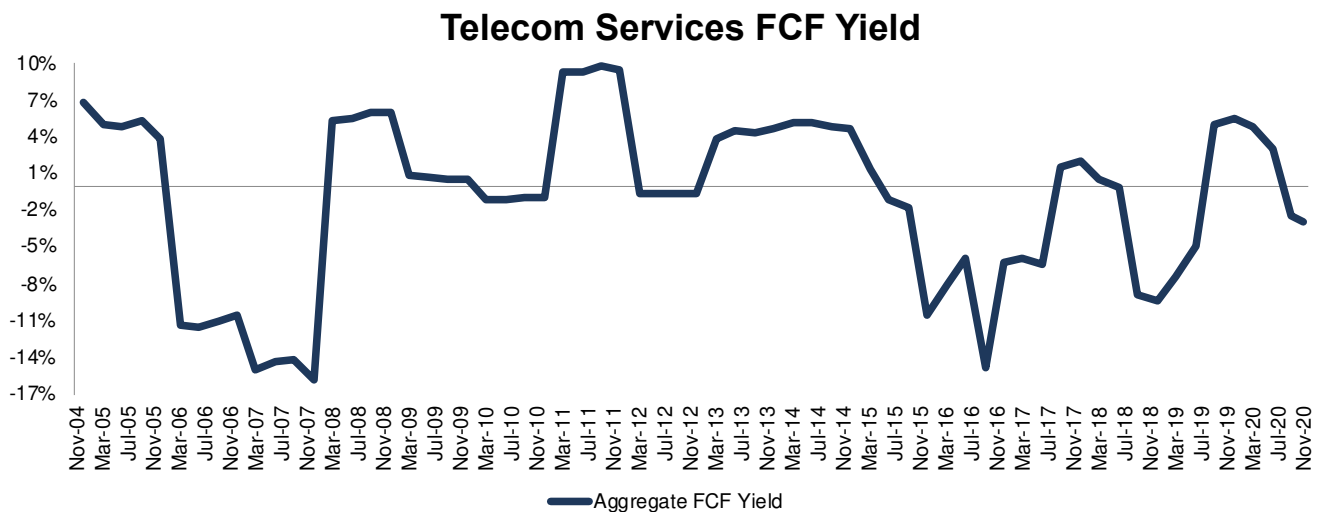


Sources: New Constructs, LLC and company filings.

Telecom Services

Figure 12 shows FCF yield for the Telecom Services sector has fallen from 4.8% in 2019 to -3% TTM. The sector's FCF fell from \$63 billion in 2019 to -\$46 billion TTM and enterprise value increased from \$1.3 trillion to \$1.5 trillion over the same time.

Figure 12: Telecom Services FCF Yield: December 2004 – 11/17/20



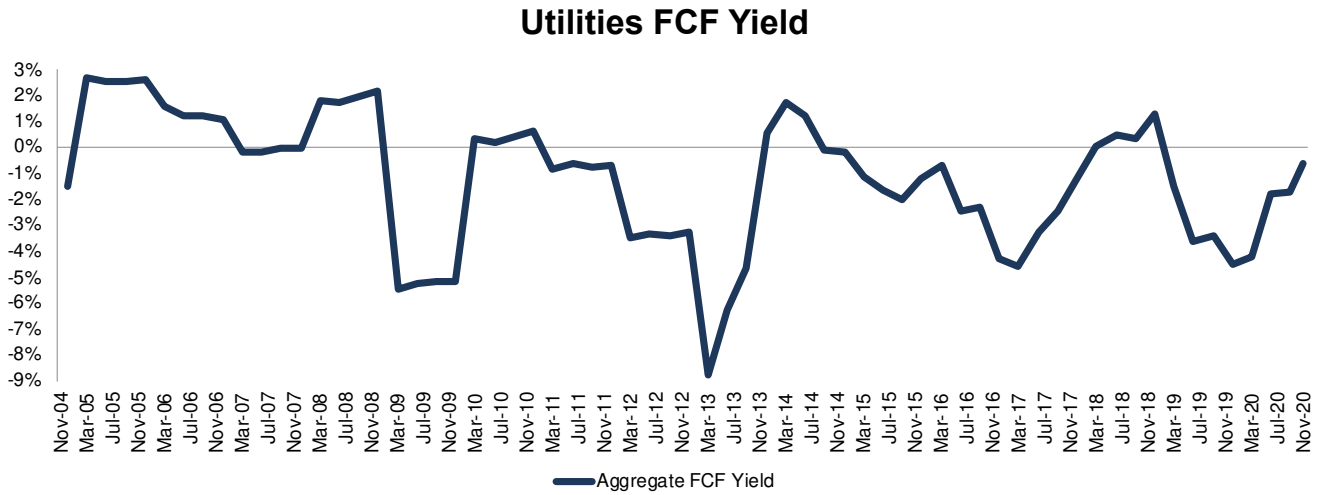
Sources: New Constructs, LLC and company filings.



Utilities

Figure 13 shows the FCF yield for the Utilities sector is rather consistently negative and, despite improving since its 2019 lows, remains negative at -0.6%. The Utilities sector's FCF improved from -\$67 billion in 2019 to -\$11 billion TTM while enterprise value increased from \$1.6 trillion to \$1.7 trillion over the same time.

Figure 13: Utilities FCF Yield: December 2004 – 11/17/20



Sources: New Constructs, LLC and company filings.

This article originally published on [December 3, 2020](#).

Disclosure: David Trainer, Kyle Guske II, and Matt Shuler receive no compensation to write about any specific stock, style, or theme.

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Appendix I: Free Cash Flow and Enterprise Value Since 2004

This appendix shows the two drivers used to calculate FCF yield – [free cash flow](#) and [enterprise value](#) – for the S&P 500 and each S&P 500 sector going back to December 2004. We sum the individual S&P 500/sector constituent values for free cash flow and enterprise value. We call this approach the “Aggregate” methodology, and it matches S&P Global’s (SPGI) methodology for these calculations. More methodology details in Appendix II.

Figure 14 ranks all 11 sectors by TTM free cash flow.

Figure 14: Free Cash Flow by Sector – TTM as of 11/17/20

Sector	Free Cash Flow (\$mm)
Technology	\$230,150
Consumer Non-cyclicals	\$104,970
Financials	\$99,806
Energy	\$77,877
Basic Materials	\$42,080
Consumer Cyclicals	\$31,562
Industrials	\$18,169
Utilities	-\$11,324
Real Estate	-\$19,022
Telecom Services	-\$46,191
Healthcare	-\$93,368
S&P 500	\$434,708

Sources: New Constructs, LLC and company filings.

Figure 15 ranks all 11 sectors by TTM enterprise value.

Figure 15: Enterprise Value by Sector – TTM as of 11/17/20

Sector	Enterprise Value (\$mm)
Technology	\$10,669,114
Consumer Cyclicals	\$5,393,993
Healthcare	\$4,860,058
Financials	\$3,990,575
Industrials	\$3,832,731
Consumer Non-cyclicals	\$2,972,499
Utilities	\$1,742,987
Telecom Services	\$1,533,985
Energy	\$1,253,987
Basic Materials	\$1,049,883
Real Estate	\$1,032,355
S&P 500	\$38,323,166

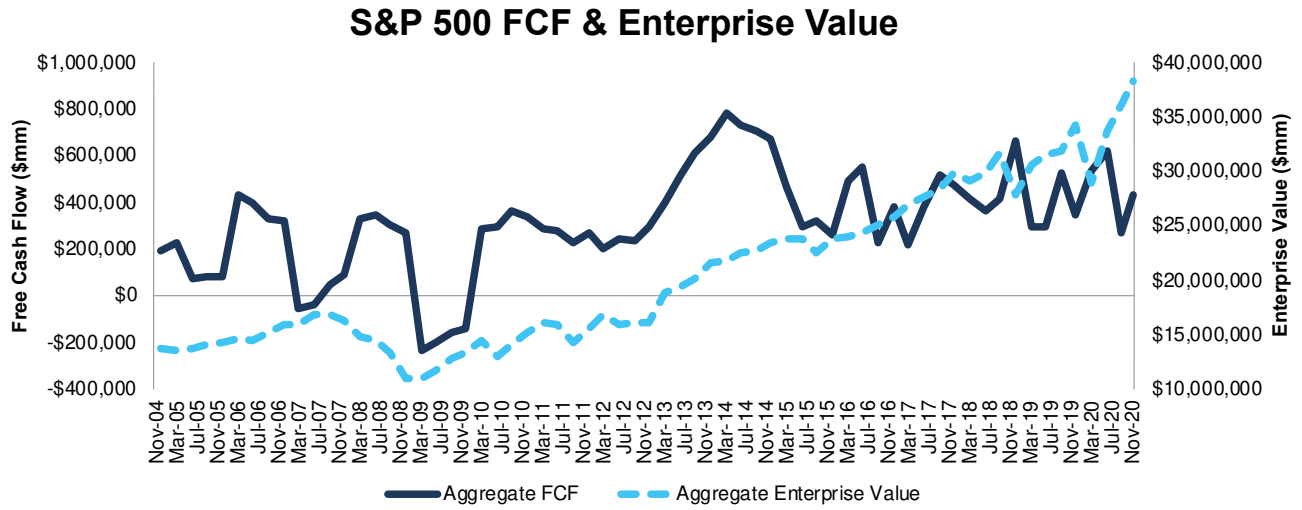
Sources: New Constructs, LLC and company filings.

These two tables show the Technology sector not only generates the most free cash flow, but it also has the highest enterprise value of all sectors.

Figures 16-27 compare the FCF and enterprise value trends for the S&P 500 and every sector since 2004.

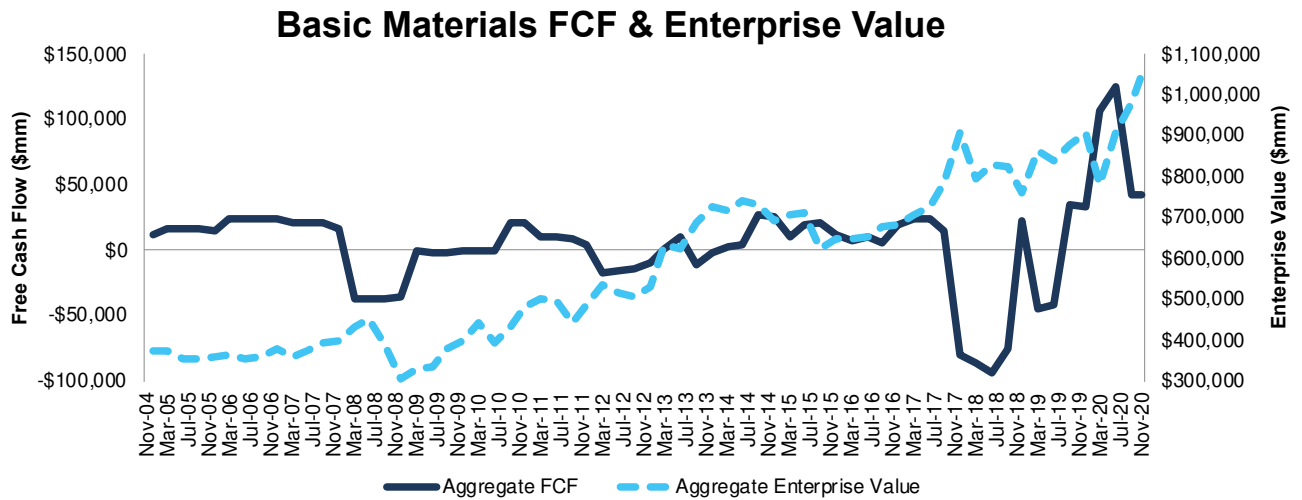


Figure 16: S&P 500 FCF & Enterprise Value: December 2004 – 11/17/20



Sources: New Constructs, LLC and company filings.

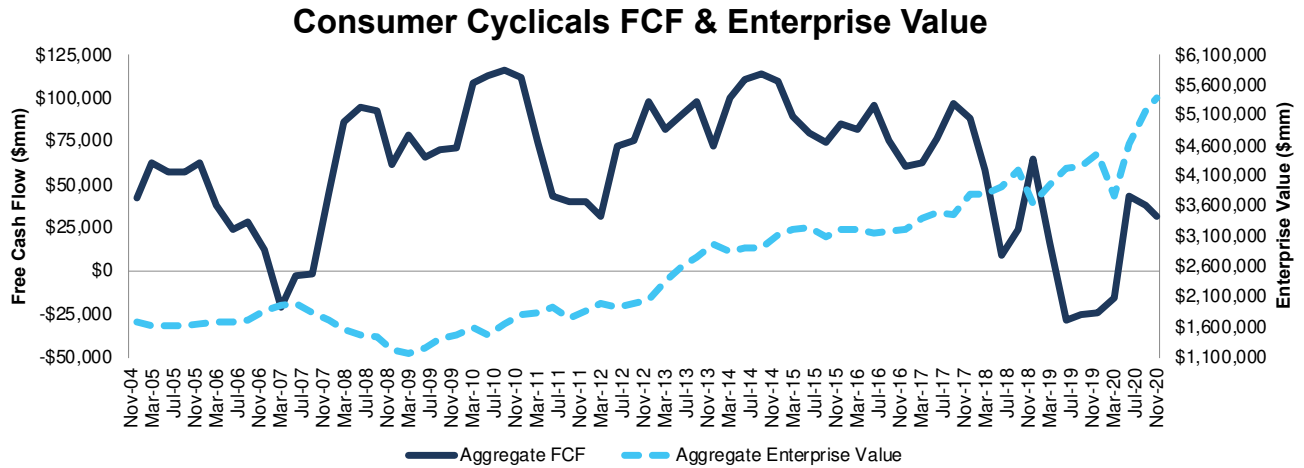
Figure 17: Basic Materials FCF & Enterprise Value: December 2004 – 11/17/20



Sources: New Constructs, LLC and company filings.

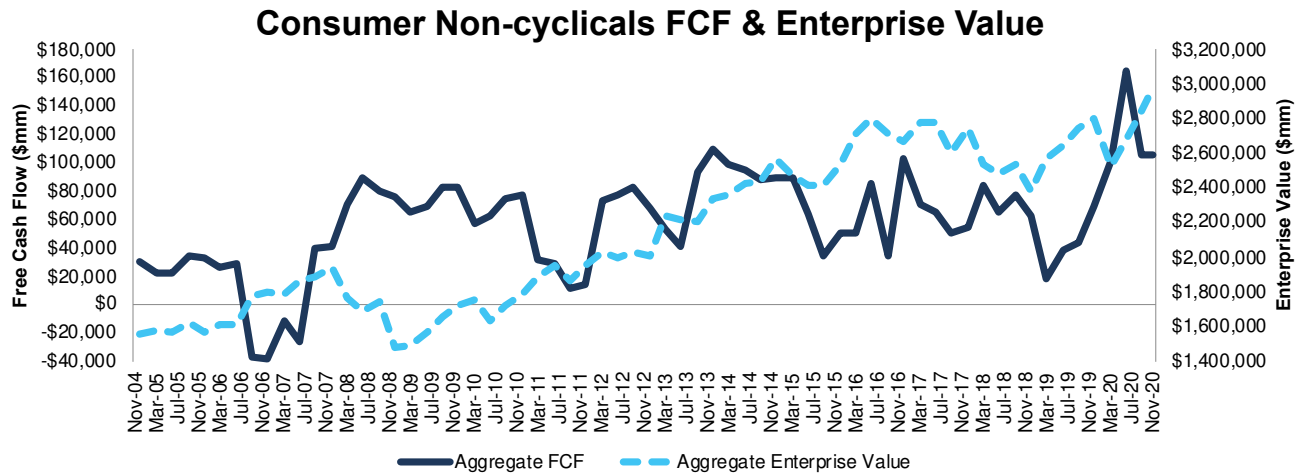


Figure 18: Consumer Cyclical FCF & Enterprise Value: December 2004 – 11/17/20



Sources: New Constructs, LLC and company filings.

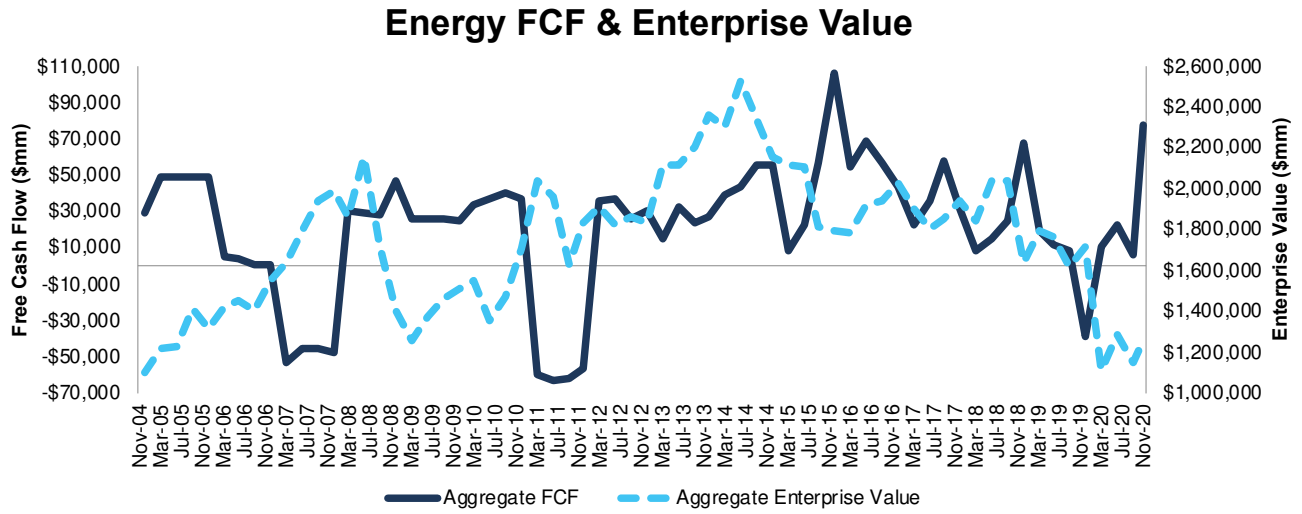
Figure 19: Consumer Non-Cyclicals FCF & Enterprise Value: December 2004 – 11/17/20



Sources: New Constructs, LLC and company filings.

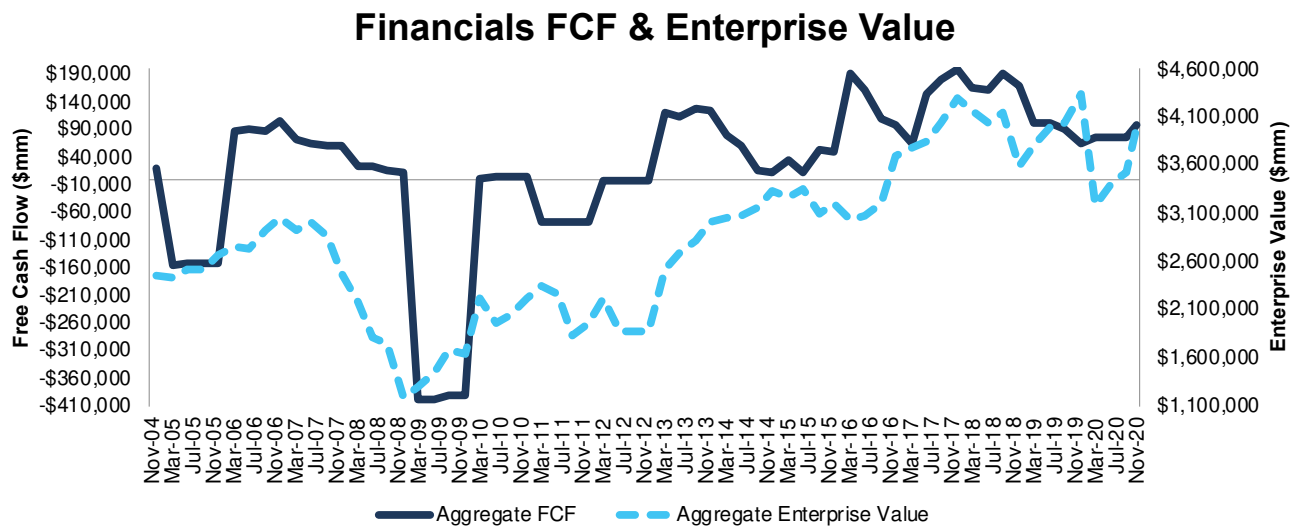


Figure 20: Energy FCF & Enterprise Value: December 2004 – 11/17/20



Sources: New Constructs, LLC and company filings.

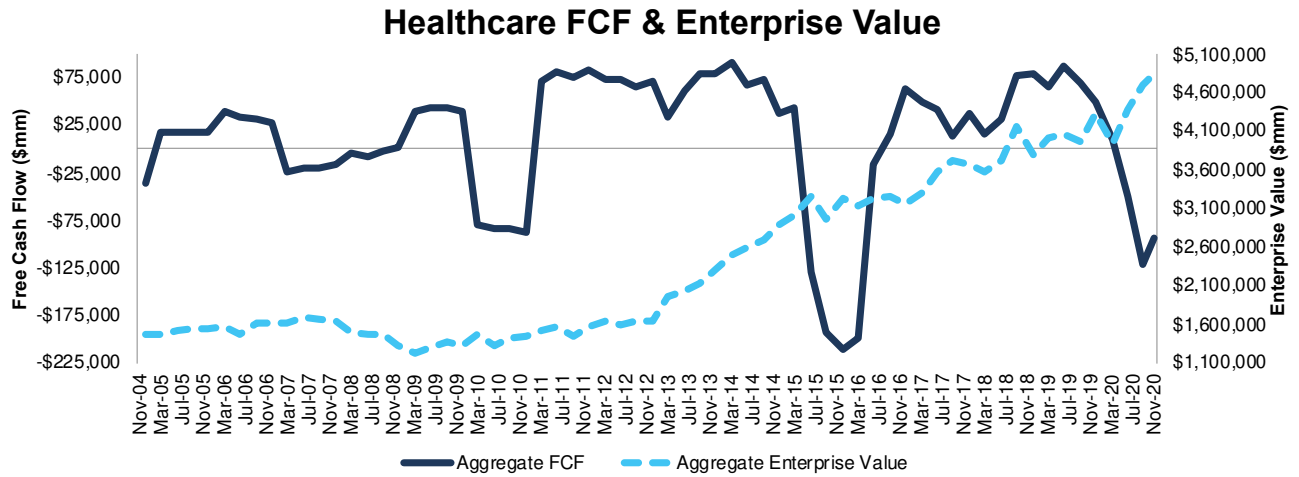
Figure 21: Financials FCF & Enterprise Value: December 2004 – 11/17/20



Sources: New Constructs, LLC and company filings.

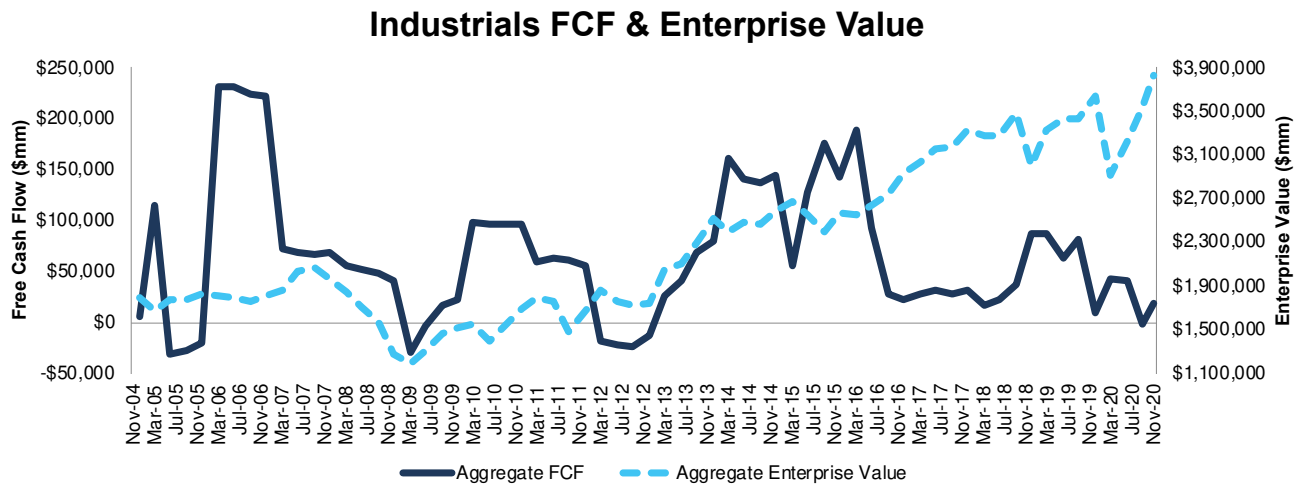


Figure 22: Healthcare FCF & Enterprise Value: December 2004 – 11/17/20



Sources: New Constructs, LLC and company filings.

Figure 23: Industrials FCF & Enterprise Value: December 2004 – 11/17/20³

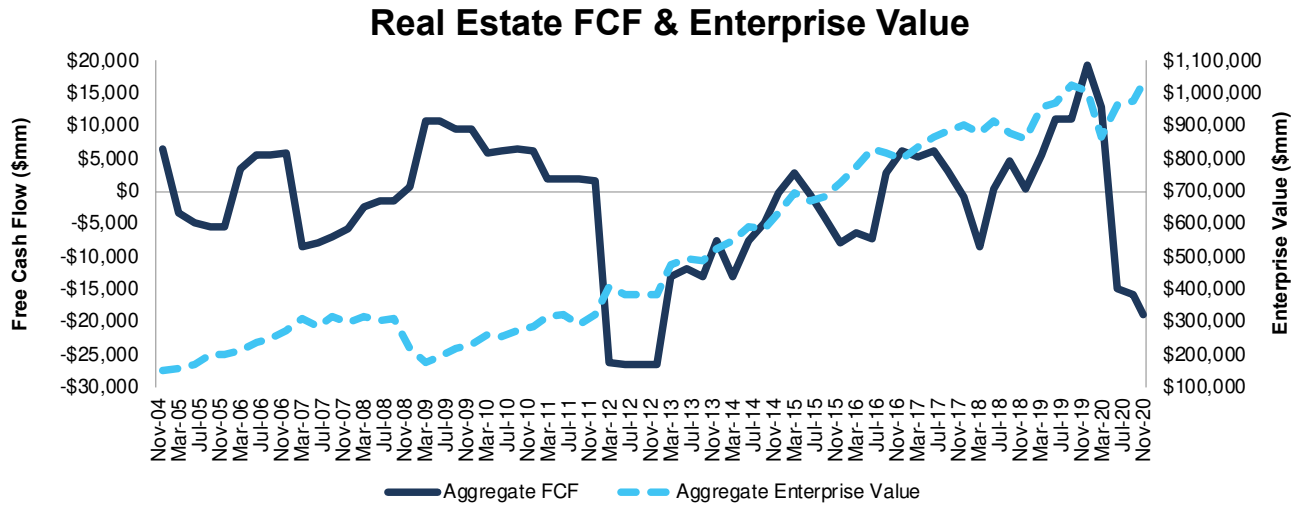


Sources: New Constructs, LLC and company filings.

³ The Industrials sector free cash flow is heavily influenced by General Electric (GE) in 2005. In 2005 GE restated ~\$135 billion of Investment Securities to Assets of Discontinued Operations. This reclassification caused a large year-over-year change in invested capital from 2004-2005, and therefore a large increase in FCF. However, due to poor disclosures in the filings, we're unable to specifically track the changes beyond reclassifying an operating asset as a non-operating asset.

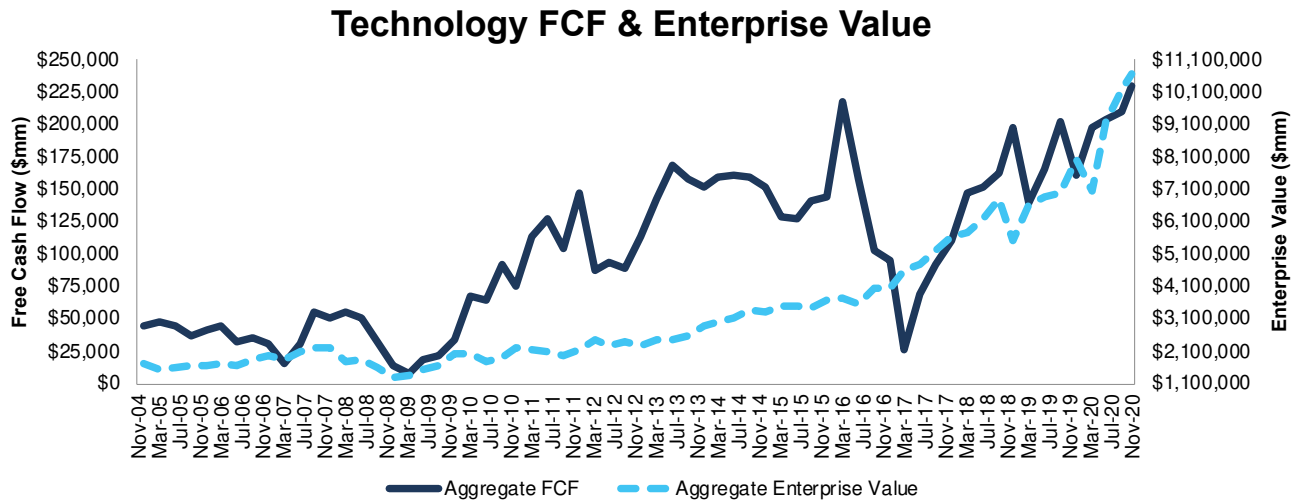


Figure 24: Real Estate FCF & Enterprise Value: December 2004 – 11/17/20



Sources: New Constructs, LLC and company filings.

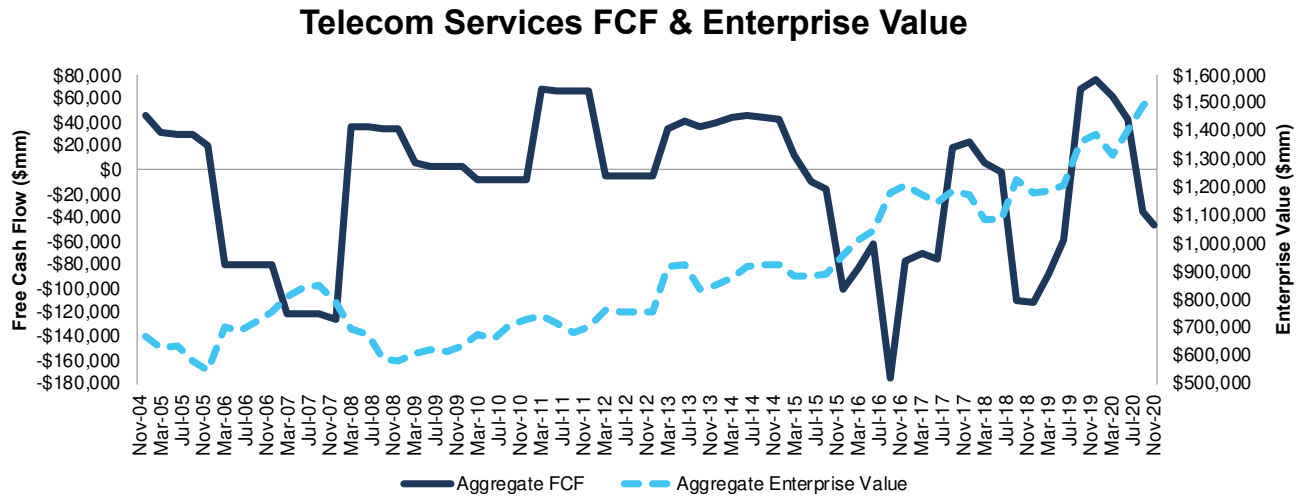
Figure 25: Technology FCF & Enterprise Value: December 2004 – 11/17/20



Sources: New Constructs, LLC and company filings.

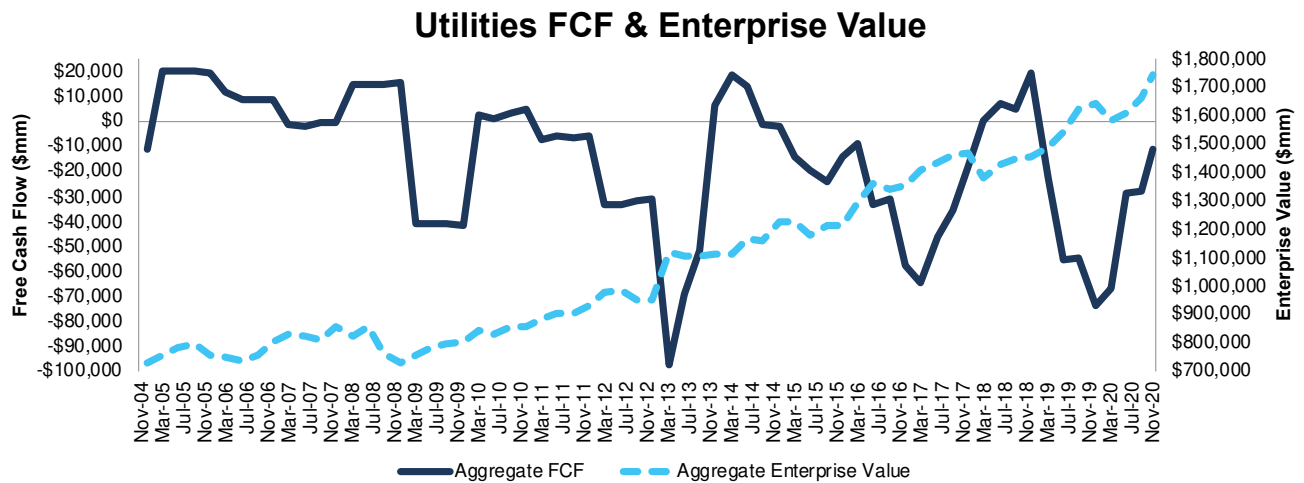


Figure 26: Telecom Services FCF & Enterprise Value: December 2004 – 11/17/20



Sources: New Constructs, LLC and company filings.

Figure 27: Utilities FCF & Enterprise Value: December 2004 – 11/17/20



Sources: New Constructs, LLC and company filings.



Appendix II: Analyzing FCF Yield with Different Weighting Methodologies

We derive the metrics above by summing the individual S&P 500/sector constituent values for free cash flow and enterprise value to calculate FCF yield. We call this approach the “Aggregate” methodology.

The Aggregate methodology provides a straightforward look at the entire S&P 500/sector, regardless of market cap or index weighting, and matches how S&P Global (SPGI) calculates metrics for the S&P 500.

For additional perspective, we compare the Aggregate method for free cash flow with two other market-weighted methodologies. These market-weighted methodologies add more value for ratios that do not include market values, e.g. ROIC and its drivers, but we include them here, nonetheless, for comparison:

1. **Market-weighted metrics** – calculated by market-cap-weighting the FCF yield for the individual companies relative to their sector or the overall S&P 500 in each period. Details:
 - a. Company weight equals the company’s market cap divided by the market cap of the S&P 500/ its sector
 - b. We multiply each company’s FCF yield by its weight
 - c. S&P 500/Sector FCF yield equals the sum of the weighted FCF yields for all the companies in the S&P 500/sector
2. **Market-weighted drivers** – calculated by market-cap-weighting the FCF and enterprise value for the individual companies in each sector in each period. Details:
 - a. Company weight equals the company’s market cap divided by the market cap of the S&P 500/ its sector
 - b. We multiply each company’s free cash flow and enterprise value by its weight
 - c. We sum the weighted FCF and weighted enterprise value for each company in the S&P 500/each sector to determine each sector’s weighted FCF and weighted enterprise value
 - d. S&P 500/Sector FCF yield equals weighted S&P 500/sector FCF divided by weighted S&P 500/sector enterprise value

Each methodology has its pros and cons, as outlined below:

Aggregate method

Pros:

- A straightforward look at the entire S&P 500/sector, regardless of company size or weighting in any indices.
- Matches how S&P Global calculates metrics for the S&P 500.

Cons:

- Vulnerable to impact of companies entering/exiting the group of companies, which could unduly affect aggregate values. Also susceptible to outliers in any one period.

Market-weighted metrics method

Pros:

- Accounts for a firm’s market cap relative to the S&P 500/sector and weights its metrics accordingly.

Cons:

- Vulnerable to outlier results from a single company disproportionately impacting the overall FCF yield.

Market-weighted drivers method

Pros:

- Accounts for a firm’s market cap relative to the S&P 500/sector and weights its free cash flow and enterprise value accordingly.
- Mitigates the disproportionate impact of outlier results from one company on the overall results.

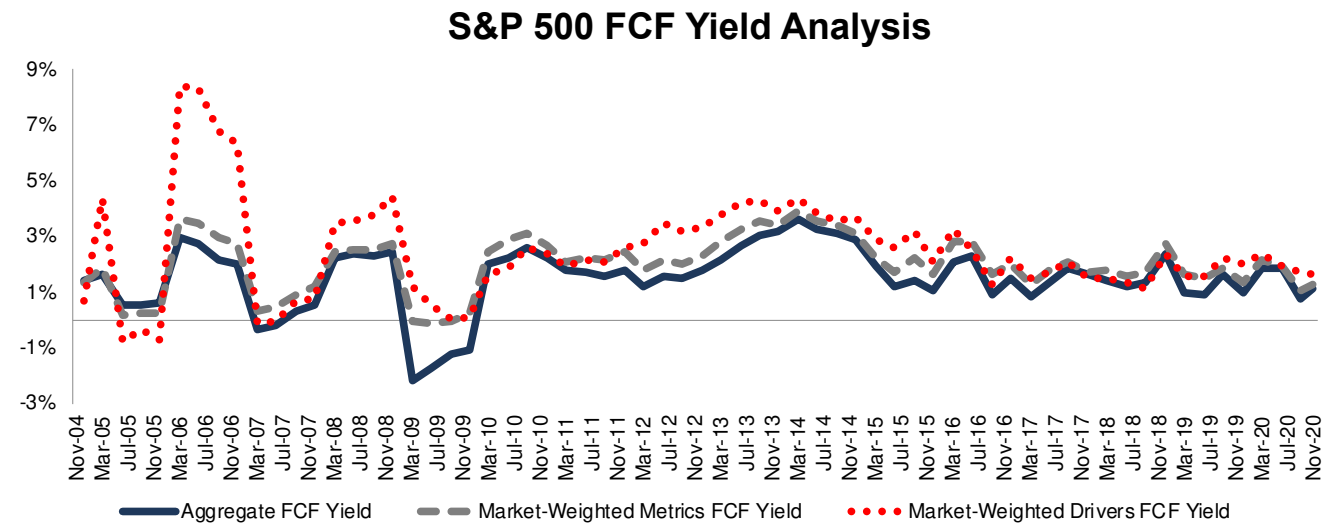
Cons:

- More volatile as it adds emphasis to large changes in FCF and enterprise value for heavily weighted companies.



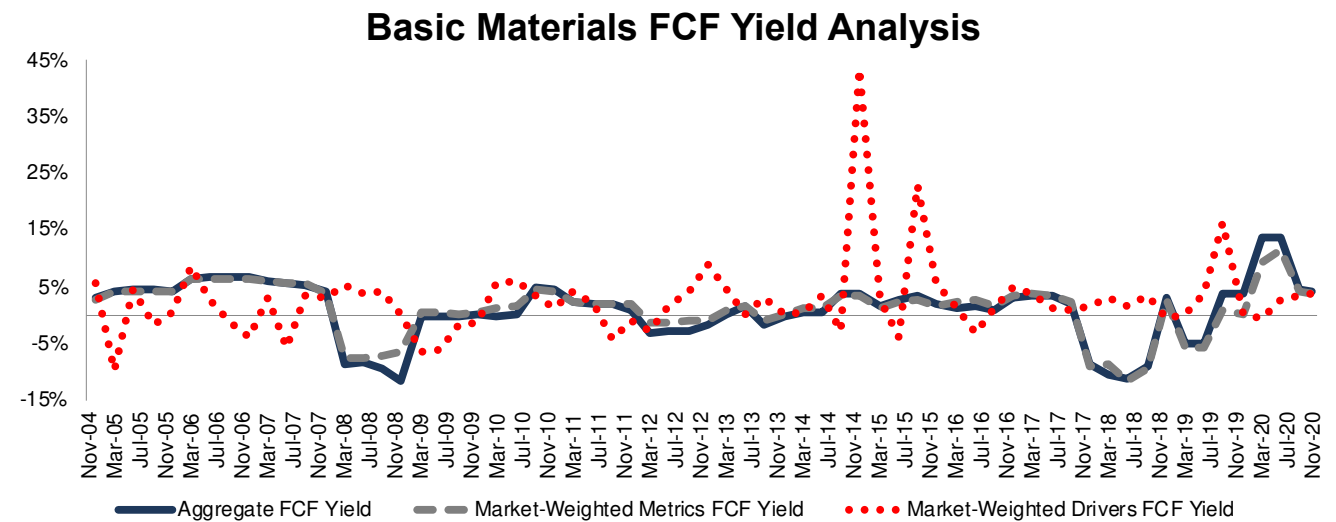
Figures 28-39 compare these three methods for calculating S&P 500 and sector FCF yields.

Figure 28: S&P 500 FCF Yield Methodologies Compared: December 2004 – 11/17/20



Sources: New Constructs, LLC and company filings.

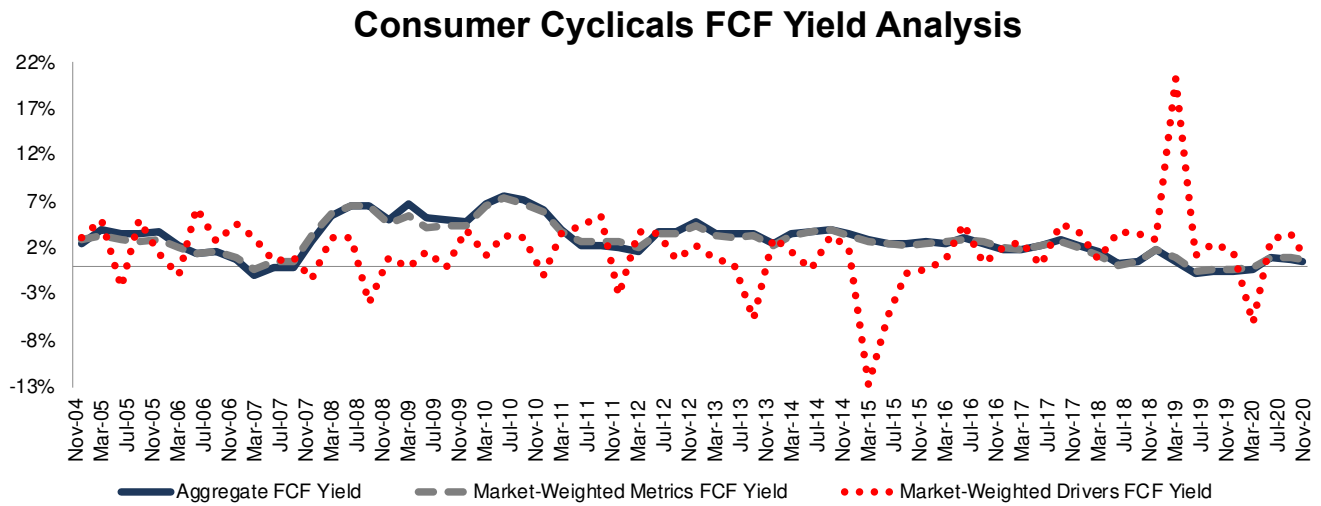
Figure 29: Basic Materials FCF Yield Methodologies Compared: December 2004 – 11/17/20



Sources: New Constructs, LLC and company filings.

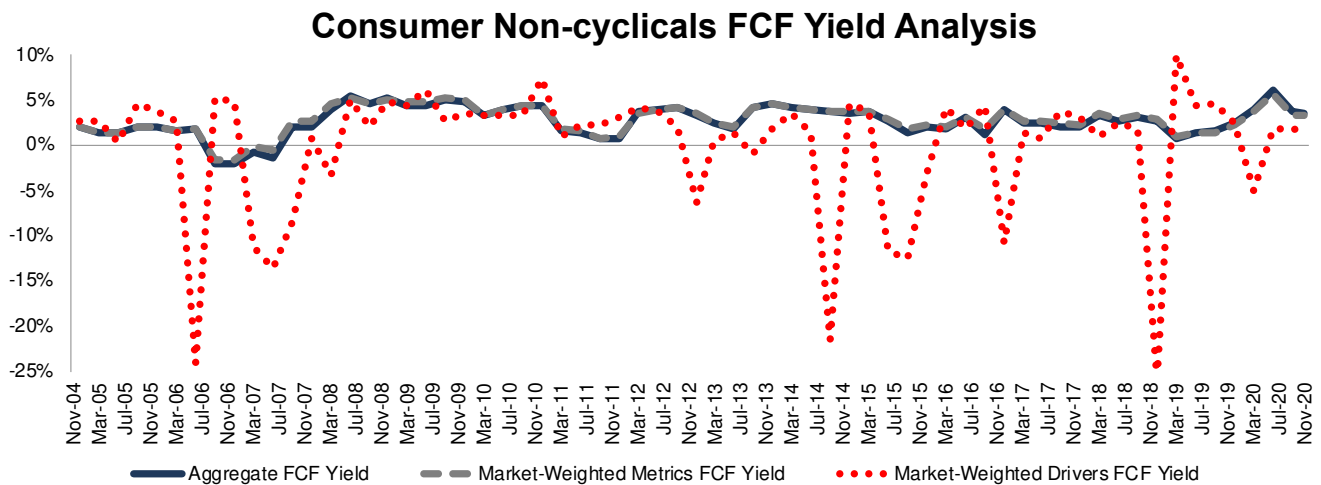


Figure 30: Consumer Cyclical FCF Yield Methodologies Compared: December 2004 – 11/17/20



Sources: New Constructs, LLC and company filings.

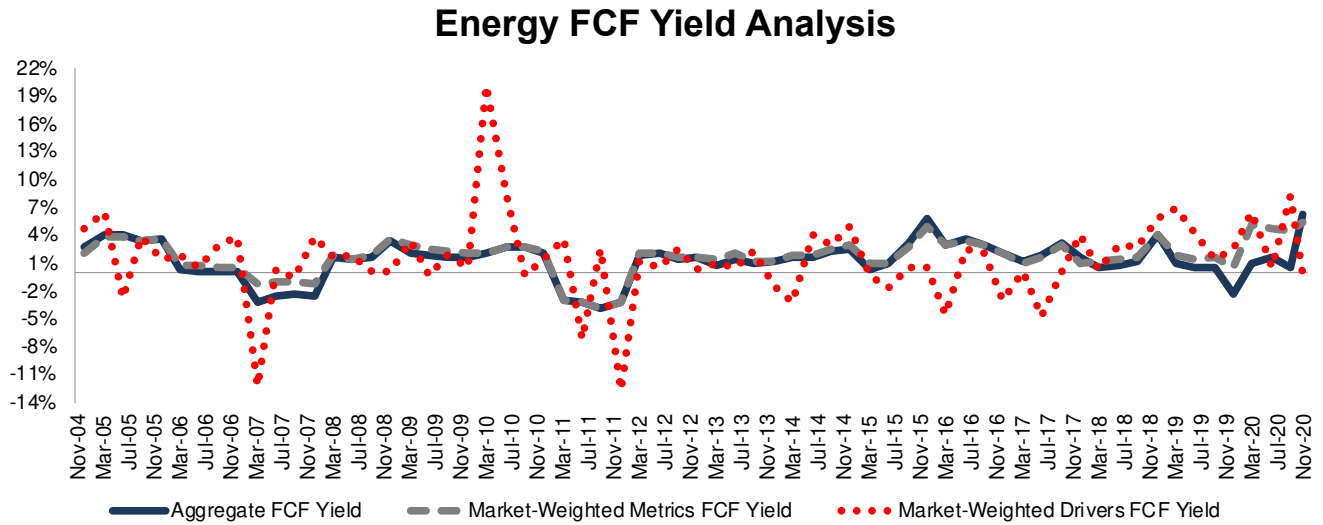
Figure 31: Consumer Non-cyclicals FCF Yield Methodologies Compared: December 2004 – 11/17/20



Sources: New Constructs, LLC and company filings.

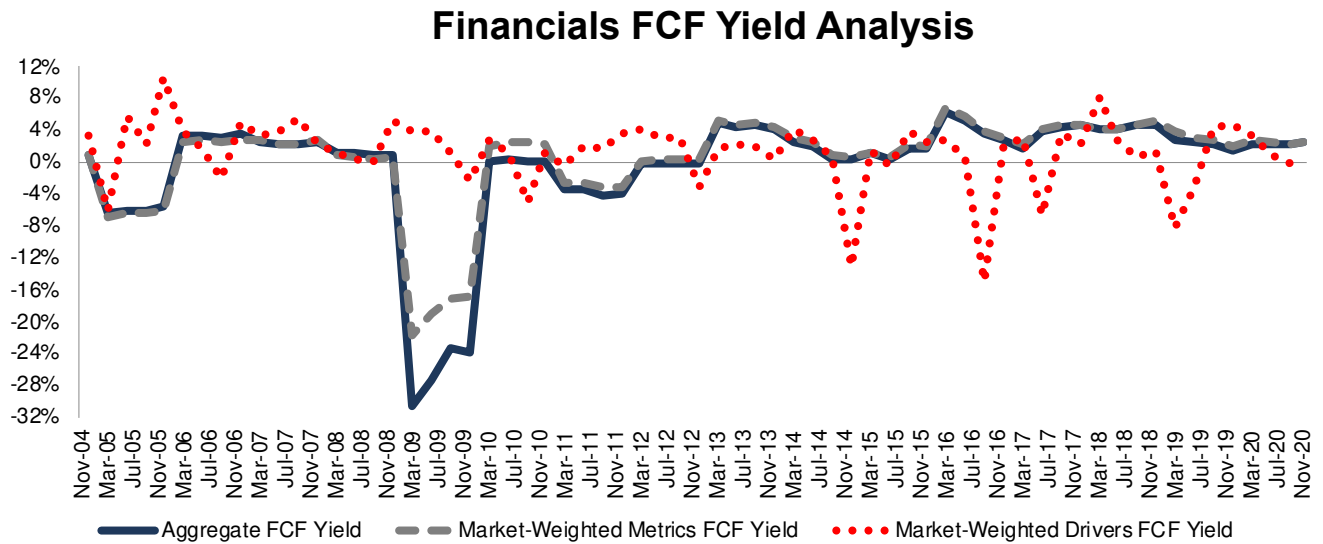


Figure 32: Energy FCF Yield Methodologies Compared: December 2004 – 11/17/20



Sources: New Constructs, LLC and company filings.

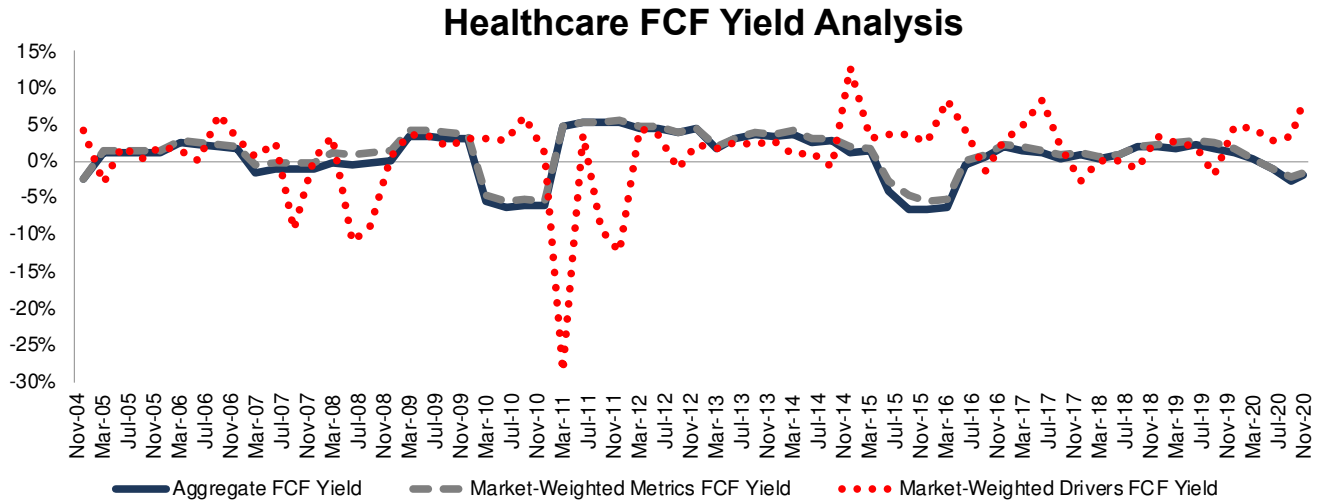
Figure 33: Financials FCF Yield Methodologies Compared: December 2004 – 11/17/20



Sources: New Constructs, LLC and company filings.

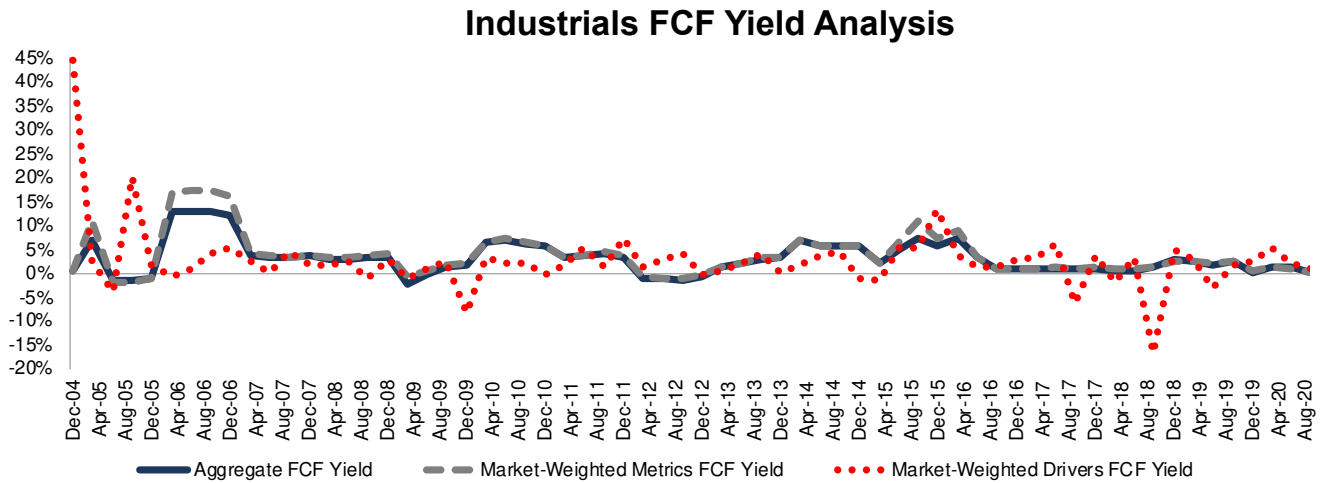


Figure 34: Healthcare FCF Yield Methodologies Compared: December 2004 – 11/17/20



Sources: New Constructs, LLC and company filings.

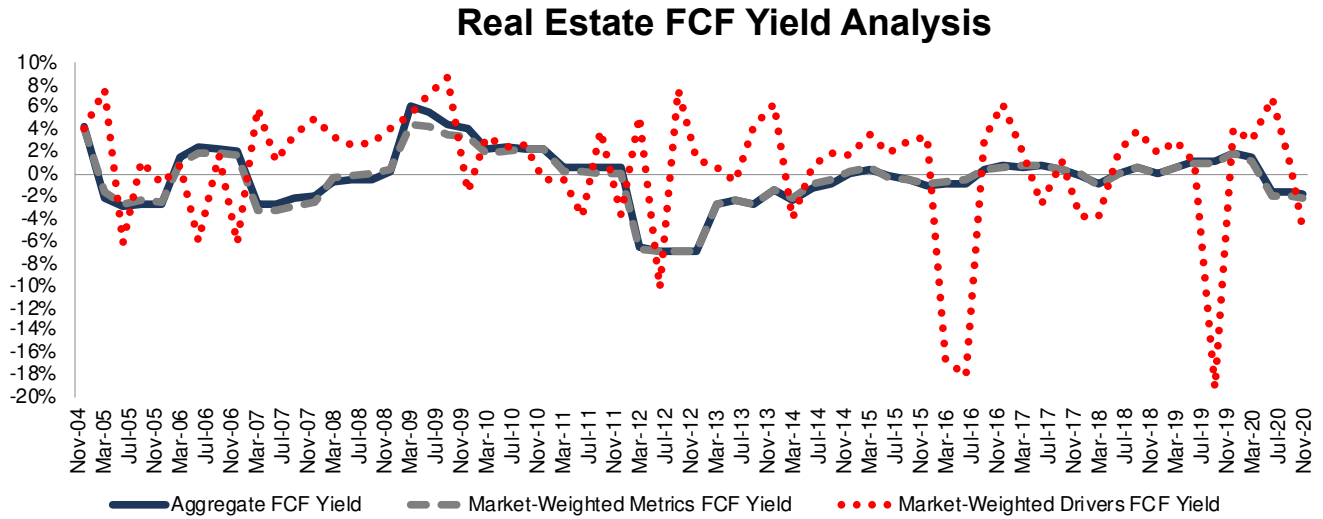
Figure 35: Industrials FCF Yield Methodologies Compared: December 2004 – 11/17/20



Sources: New Constructs, LLC and company filings.

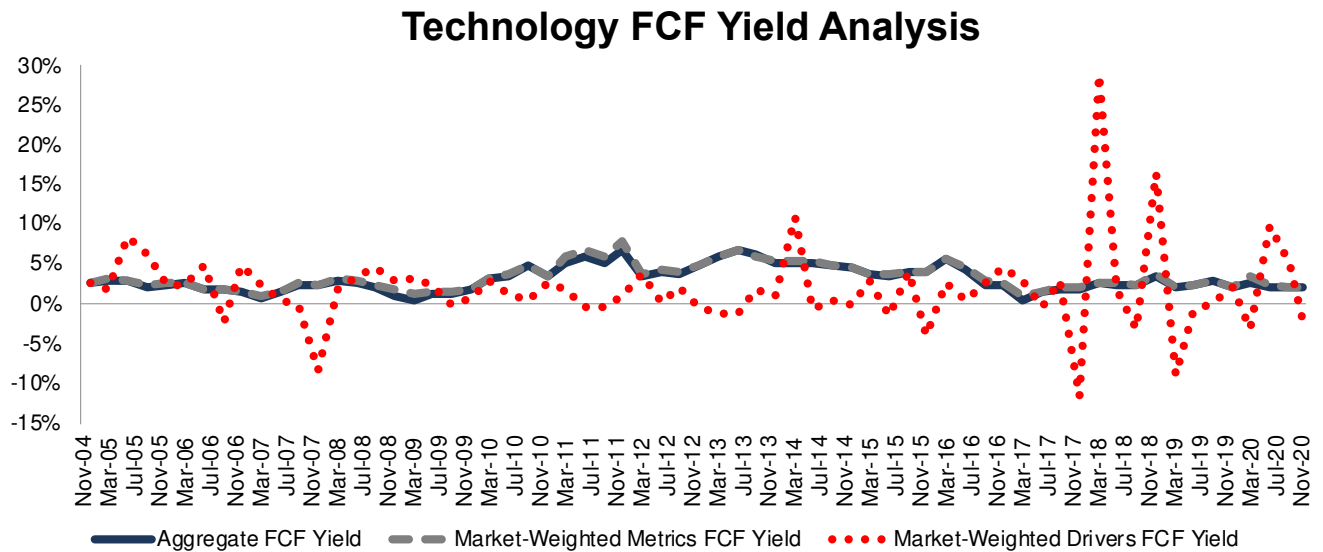


Figure 36: Real Estate FCF Yield Methodologies Compared: December 2004 – 11/17/20



Sources: New Constructs, LLC and company filings.

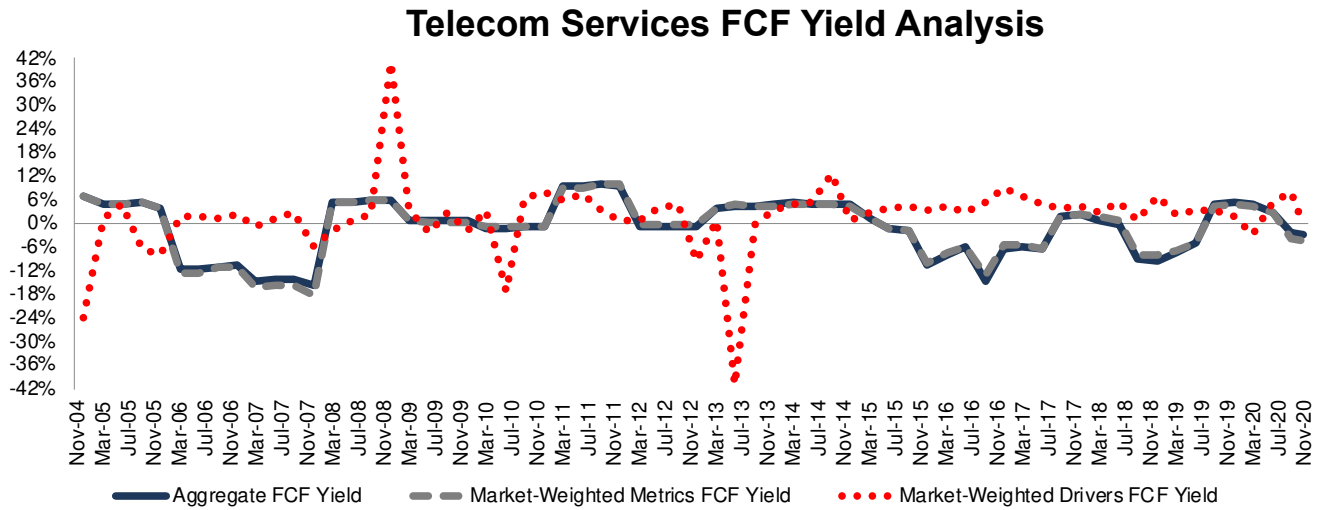
Figure 37: Technology FCF Yield Methodologies Compared: December 2004 – 11/17/20



Sources: New Constructs, LLC and company filings.

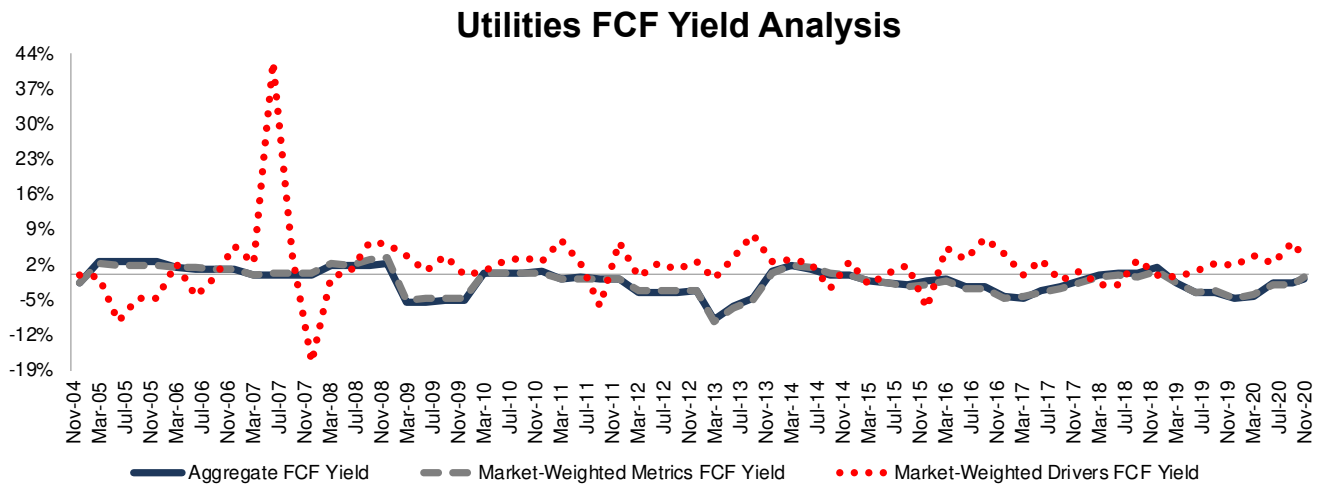


Figure 38: Telecom Services FCF Yield Methodologies Compared: December 2004 – 11/17/20



Sources: New Constructs, LLC and company filings.

Figure 39: Utilities FCF Yield Methodologies Compared: December 2004 – 11/17/20



Sources: New Constructs, LLC and company filings.



Footnotes adjustments matter. We are the ONLY source.

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This [paper](#) compares our analytics on a mega cap company to other major providers. The Appendix details exactly how we stack up.

Learn [more](#).

Quotes from HBS & MIT Sloan professors on our research:

Get better research:

“...the NC dataset provides a novel opportunity to study the properties of non-operating items disclosed in 10-Ks, and to examine the extent to which the market impounds their implications.” – page 20

Pick better stocks:

“Trading strategies that exploit cross-sectional differences in firms’ transitory earnings produce abnormal returns of 7-to-10% per year.” – Abstract

Avoid losses from using other firms’ data:

“...many of the income-statement-relevant quantitative disclosures collected by NC do not appear to be easily identifiable in Compustat...” – page 14

Build better models:

“Core Earnings [calculated using New Constructs’ novel dataset] provides predictive power for various measures of one-year-ahead performance...that is incremental to their current-period counterparts.” – page 4

Exploit market inefficiencies:

“These results ... suggest that the adjustments made by analysts and Compustat to better capture core earnings are incomplete. Moreover, the non-core items identified by NC produce a measure of core earnings that is incremental to alternative measures of operating performance in predicting an array of future income measures.” – page 26

Fulfill fiduciary duties:

“An appropriate measure of accounting performance for purposes of forecasting future performance requires detailed analysis of all quantitative performance disclosures detailed in the annual report, including those reported only in the footnotes and in the MD&A.” – page 33-34



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