S&P Dow Jones Indices



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SPIVA® South Africa Scorecard

SUMMARY

S&P Dow Jones Indices has been the de facto scorekeeper of the ongoing active versus passive debate since the first publication of the S&P Indices Versus Active (SPIVA) U.S. Scorecard in 2002. Over the years, we have built on more than a decade of experience publishing that report by expanding coverage into Canada, Europe, India, Japan, Australia, Latin America, and South Africa. While the report will not end the debate on active versus passive investing, we hope to make a meaningful contribution by examining market segments in which one strategy works better than the other.

The SPIVA South Africa Scorecard measures the performance of actively managed, South African equity and fixed income funds denominated in South African rands (ZAR) against their respective benchmark indices over one-, three-, and five-year investment horizons.

SCORECARD RESULTS

South African equity markets once again lagged global markets over the past year. This underperformance can partly be attributed to the contraction of 1.2% in the country's GDP in the first quarter of 2016, which was principally due to a significantly lower production in platinum group metals over the period. The sense of unease was further compounded when S&P Global Ratings warned that it may strip the country of its investment-grade status. On the positive side, the South African rand stabilized and gold prices rose during the period amid global growth worries, which boosted the performance of major gold mining issues in the equity markets. Over the past one-year period, the performance of domestic equities, as measured by the S&P South Africa Domestic Shareholder Weighted (DSW) Index, trailed that of the S&P Global 1200 by about 8% in local currency terms.

Unfavorable economic news, both on the domestic and international front, was certainly one of the reasons the South African market experienced bouts of high volatility in the first half of the year. Normally, this would be rich ground for active management, as managers could utilize their stock-picking skills to benefit from the perceived discrepancies in the market. However, our report shows that a high proportion of South African equity funds invested in both the domestic and international equity markets did not keep up with their respective benchmarks over the one-year period. This pattern of underperformance persisted over the longer term as well.

Over the five-year period, approximately 86% of domestic equity funds and 96% of global funds trailed their respective benchmarks.

In regard to fixed income, the results were mixed for active management. Over a five-year period, active managers beat their respective benchmarks in the short-term bond category, but not in the diversified/aggregate bond category.

Another observation from our analysis is that the size of the fund (the amount of assets under management) appears to matter. Results from Reports 3 and 4 highlight that asset-weighted returns across the three time horizons examined were generally higher than equal-weighted returns. In addition, equity funds seem to disappear at a meaningful rate. Over the five-year period, approximately 20% of equity funds were either liquidated or merged. Fixed income funds were affected to a significantly lesser extent.

A UNIQUE SCORECARD FOR THE ACTIVE VERSUS PASSIVE DEBATE

Since its first publication 14 years ago, the SPIVA Scorecard has served as the de facto scorekeeper of the active versus passive debate. For more than a decade, we have heard passionate arguments from believers in both camps when headline numbers have deviated from their beliefs.

Beyond the SPIVA Scorecard's widely cited headline numbers is a rich data set that addresses issues related to measurement techniques, universe composition, and fund survivorship that are less frequently discussed but are often more fascinating. These data sets are rooted in the fundamental principles of the SPIVA Scorecard that regular readers will be familiar with, including the following.

- Survivorship Bias Correction: Many funds might be liquidated or merged during a period of study. However, for someone making an investment decision at the beginning of the period, these funds are part of the opportunity set. Unlike other commonly available comparison reports, SPIVA Scorecards account for the entire opportunity set—not just the survivors—thereby eliminating survivorship bias.
- Asset-Weighted Returns: Average returns for a fund group are often calculated using only
 equal weighting, which means the returns of a ZAR 100 billion fund affect the average in the
 same manner as the returns of a ZAR 100 million fund. An accurate representation of how
 market participants fared in a particular period can be ascertained by calculating weighted
 average returns in which each fund's return is weighted by net assets. SPIVA Scorecards show
 both equal- and asset-weighted averages.
- Data Cleaning: SPIVA Scorecards avoid double counting multiple share classes in all countbased calculations by using only the share class with greater assets. Index, leveraged, and inverse funds, along with other index-linked products, are excluded because this is meant to be a scorecard for active managers.

REPORTS

Report 1: Percentage of South African Funds Outperformed by Benchmarks				
FUND CATEGORY	COMPARISON INDEX	ONE-YEAR (%)	THREE-YEAR (%)	FIVE-YEAR (%)
South African Equity	S&P South Africa DSW	76.05	85.00	86.32
Global Equity	S&P Global 1200	92.31	96.55	96.43
Short-Term Bond	STeFI Composite	16.28	30.23	15.79
Diversified/Aggregate Bond	JSE/ASSA ALBI	10.71	33.82	64.91

Source: S&P Dow Jones Indices LLC, Morningstar. Data for periods ending June 30, 2016. Outperformance is based on equal-weighted fund counts. Index performance is based on total return in ZAR. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

Report 2: Survivorship of South African Funds			
FUND CATEGORY	NO. OF FUNDS AT START	SURVIVORSHIP (%)	
ONE-YEAR			
South African Equity	177	97.74	
Global Equity	40	97.50	
Short-Term Bond	46		
Diversified/Aggregate Bond	86		
THREE-YEAR			
South African Equity	148	89.19	
Global Equity	31	90.32	
Short-Term Bond	45	93.33	
Diversified/Aggregate Bond	69	95.65	
FIVE-YEAR			
South African Equity	134	78.36	
Global Equity	31	83.87	
Short-Term Bond	40	95.00	
Diversified/Aggregate Bond	58	84.48	

Source: S&P Dow Jones Indices LLC, Morningstar. Data for periods ending June 30, 2016. Survivorship shown for funds in ZAR. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

Report 3: Average South African Fund Performance (Equal Weighted)			
CATEGORY	ONE-YEAR (%)	THREE-YEAR (ANNUALIZED %)	FIVE-YEAR (ANNUALIZED %)
S&P South Africa DSW	4.43	15.10	15.76
South African Equity	2.03	11.90	12.40
S&P Global 1200	18.20	22.26	24.81
Global Equity	9.94	15.88	19.57
STeFI Composite	6.84	6.18	5.89
Short-Term Bond	7.45	6.52	6.62
JSE/ASSA ALBI	5.26	6.30	7.91
Diversified/Aggregate Bond	7.43	6.81	7.72

Source: S&P Dow Jones Indices LLC, Morningstar. Data for periods ending June 30, 2016. Index performance based on total return in ZAR. Funds are equal weighted but indices are not. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

Report 4: Average South African Fund Performance (Asset Weighted)			
CATEGORY	ONE-YEAR (%)	THREE-YEAR (ANNUALIZED %)	FIVE-YEAR (ANNUALIZED %)
S&P South Africa DSW	4.43	15.10	15.76
South African Equity	4.04	13.18	13.27
S&P Global 1200	18.20	22.26	24.81
Global Equity	13.59	18.53	22.74
STeFI Composite	6.84	6.18	5.89
Short-Term Bond	7.98	6.95	7.06
JSE/ASSA ALBI	5.26	6.30	7.91
Diversified/Aggregate Bond	7.81	7.24	8.08

Source: S&P Dow Jones Indices LLC, Morningstar. Data for periods ending June 30, 2016. Index performance based on total returns in ZAR. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

Report 5: Quartile Breakpoints of South African Funds			
FUND CATEGORY	THIRD QUARTILE	SECOND QUARTILE	FIRST QUARTILE
ONE-YEAR	•	•	
South African Equity	-0.37	1.86	4.19
Global Equity	6.18	10.91	14.64
Short-Term Bond	7.32	7.60	8.08
Diversified/Aggregate Bond	6.26	7.52	8.32
THREE-YEAR			
South African Equity	10.47	12.35	14.10
Global Equity	15.54	17.24	18.57
Short-Term Bond	6.27	6.54	6.92
Diversified/Aggregate Bond	6.18	6.76	7.50
FIVE-YEAR			
South African Equity	10.81	12.88	15.11
Global Equity	19.39	20.56	23.05
Short-Term Bond	6.34	6.70	7.07
Diversified/Aggregate Bond	7.05	7.77	8.44

Source: S&P Dow Jones Indices LLC, Morningstar. Data for periods ending June 30, 2016. Index performance based on total returns in ZAR. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

APPENDIX A

SPIVA Styles and Morningstar Fund Classifications

Data from Morningstar is obtained for all managed funds domiciled in South Africa for which month-end data is available during the performance period. The data includes the most comprehensive South African fund data on active and finalized (merged or liquidated) funds over the chosen period. Funds are classified based on the Morningstar fund classification system, and the SPIVA South Africa Scorecard covers South African and international equity and fixed income categories.

International and South African Funds

The SPIVA South Africa Scorecard covers both domestic and international funds that are denominated in South African rands and they have been mapped to the relevant Morningstar fund categories as indicated in this report. The Morningstar classification system produces narrow, style-based classifications for funds, particularly in relation to international equities. S&P Dow Jones Indices has consolidated the style-based categories in order to generate a larger sample size and develop a broad-market comparison to market-based benchmarks. A narrow, style-based comparison would yield a limited sample size, given that value and growth style segments are not consistently discernible over a five-year period.

Morningstar categories have been mapped to SPIVA peer groups in the following manner.

Exhibit 1: South African and International Funds-SPIVA and Morningstar Categories and Their Respective Benchmarks			
MORNINGSTAR CATEGORY	SPIVA CATEGORY	BENCHMARK INDEX	
Africa Open-Ended South Africa & Namibia Equity	South African Equity	S&P South Africa DSW Gross Total Return (ZAR)	
Africa Open-Ended Global Large-Cap Blend Equity			
Africa Open-Ended Global Large-Cap Growth Equity	Olah al Fauttu	S&P Global 1200 Gross Total Return (ZAR)	
Africa Open-Ended Global Large-Cap Value Equity	 Global Equity 		
Africa Open-Ended Global Flex-Cap Equity	_		
Africa Open-Ended ZAR/NAD-Short Term Bonds	O	South Africa Short Term Fixed Interest (STeFI) Composite Total Return (ZAR)	
Africa Open-Ended ZAR/NAD-Ultra Short Term Bonds	 Short Term Bond 		
Africa Open-Ended ZAR/NAD-Diversified Bonds		Johannesburg Stock	
Africa Open-Ended ZAR/NAD–Flexible Bonds	Diversified/Aggregate Bond	Exchange/Actuarial Society of South Africa (JSE/ASSA) All Bond Index (ALBI) Total Return (ZAR)	

Source: S&P Dow Jones Indices LLC, Morningstar. Table is provided for illustrative purposes.

APPENDIX B

Glossary-Reports

PERCENTAGE OF FUNDS OUTPERFORMED BY THE INDEX

To correct for survivorship bias, we use the opportunity set available at the beginning of the period as the denominator. We determine the count of funds that have survived and beat the index. We then report the index outperformance percentage.

SURVIVORSHIP (%)

The survivorship measure represents the percentage of funds in existence at the beginning of the time period that are still active at the end of the time period.

EQUAL-WEIGHTED FUND PERFORMANCE

Equal-weighted returns for a particular style category are determined by calculating a simple average return of all active funds in that category in a particular month.

ASSET-WEIGHTED FUND PERFORMANCE

Asset-weighted returns for a particular style category are determined by calculating a weighted average return of all funds in that category in a particular month, with each fund's return weighted by its total net assets. Asset-weighted returns are a better indicator of fund category performance because they reflect the returns of the total money invested in that particular style category with more accuracy.

QUARTILE BREAKPOINTS

The pth percentile for a set of data is the value that is greater than or equal to p% of the data but is less than or equal to (100-p)% of the data. In other words, it is a value that divides the data into two parts: the lower p% of the values and the upper (100-p)% of the values. The first quartile is the 75th percentile, which is the value separating the elements of a population into the lower 75% and the upper 25%. The second quartile is the 50th percentile, and the third quartile is the 25th percentile. For fund category quartiles in a particular time horizon, the data used is the return of the largest share class of the fund net of fees, excluding loads.

SURVIVORSHIP BIAS

Many funds might liquidate or merge during a period of study. This usually occurs due to continued poor performance by the fund. Therefore, if index returns were compared to fund returns using only surviving funds, the comparison would be biased in favor of the fund category. The SPIVA reports remove this bias in three ways. The first method to remove the bias is to use the entire investment opportunity set, made up of all funds in that particular category at the outset of the period, as the denominator for outperformance calculations. The second is explicitly to show the survivorship rate in each category. The final way is to construct a peer average return series for each category based on all available funds at the outset of the period.

FEES

The fund returns used are net of fees, excluding loads.

Indices

A benchmark index provides an investment vehicle against which fund performance can be measured.

S&P SOUTH AFRICA DOMESTIC SHAREHOLDER WEIGHTED (DSW) INDEX

The <u>S&P South Africa Domestic Shareholder Weighted (DSW) Index</u> adjusts the weights of companies in the <u>S&P South Africa Composite</u> in order to reflect the level of ownership by South African investors. The S&P South Africa Composite is a float-adjusted, market-cap-weighted index that measures the performance of large-, mid-, and small-cap companies listed on the Johannesburg Stock Exchange.

S&P GLOBAL 1200

Capturing approximately 70% of the world's capital markets, the <u>S&P Global 1200</u> is a composite of seven headline indices, many of which are accepted leaders in their regions. It includes the <u>S&P 500[®]</u> (U.S.), <u>S&P Europe 350</u> (Europe), <u>S&P/TOPIX 150</u> (Japan), <u>S&P/TSX 60</u> (Canada), <u>S&P/ASX All Australian 50</u> (Australia), <u>S&P Asia 50</u> (Asia Ex-Japan), and <u>S&P Latin America 40</u> (Latin America).

SOUTH AFRICA SHORT TERM FIXED INTEREST (STEFI) COMPOSITE

The South Africa Short Term Fixed Interest (STeFI) Composite Index approximates the performance of money market instruments in the market. Instruments such as call deposits and negotiable certificates of deposits (BCD's) represent common, liquid instruments and provide a good proxy of short-term markets.

JOHANNESBURG STOCK EXCHANGE/ACTUARIAL SOCIETY OF SOUTH AFRICA (JSE/ASSA) ALL BOND INDEX (ALBI)

The Johannesburg Stock Exchange/Actuarial Society of South Africa (JSE/ASSA) All Bond Index (ALBI) comprises the top-20 listed bonds ranked by market capitalization and liquidity.

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