

Volatility Report Card: Manulife World Investment Class (Series F)

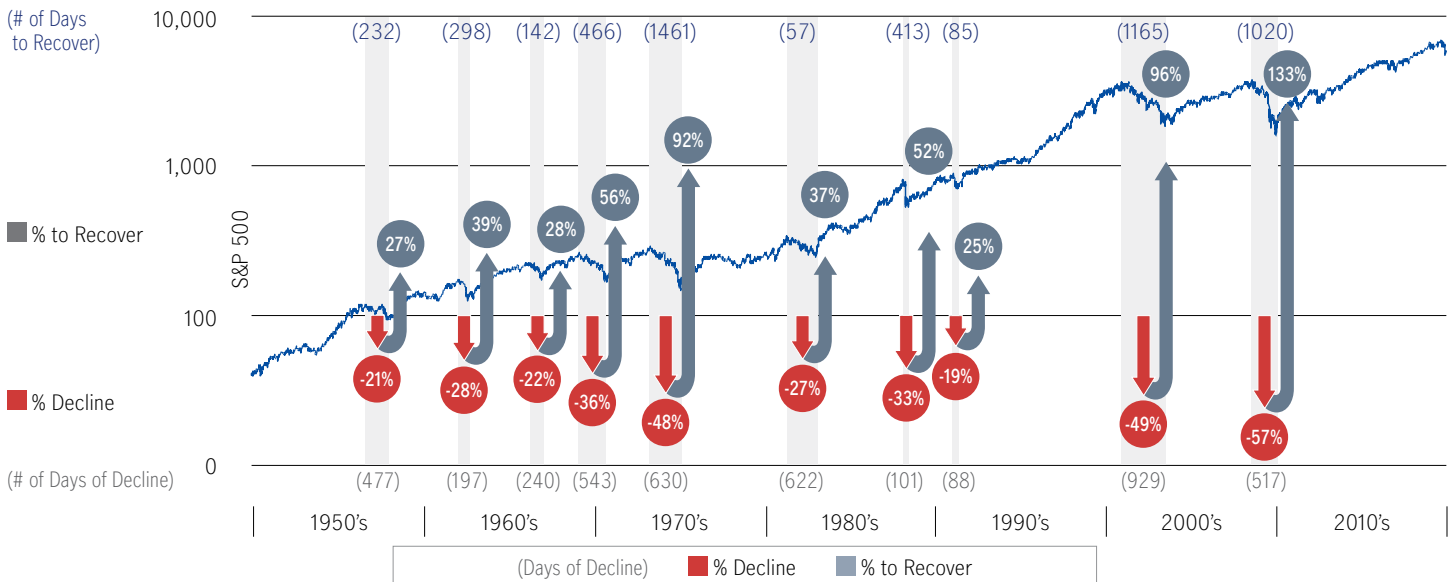
June 30, 2019

The Need for Quality Active Management

There is a lot of noise in the marketplace about the benefits of passive investments, especially in regards to fees charged by active managers, but in periods of volatility, active management can make or break a portfolio because history has shown that portfolios that protect on the downside may outperform over the long term because it takes a larger return to recover from a loss.

For example, with the last bear market, that took place October 2007 to March 2009, the S&P 500 had a loss of 57% which required a return of 133% to breakeven. This took approximately 50 months to breakeven.

S&P 500 Historic Bear Markets & Returns Needed To Breakeven



Ratio Scale: S&P historical time series is plotted on a Logarithmic Scale. Bear Markets are declines of 20% or more from its peak (using official close price) and greater than 30 days (in grey shade). Number of days are in parenthesis.

Bear Markets Period in order corresponding to graph: Aug'56-Oct'57 | Dec'61-Jun'62 | Feb'66-Oct'66 | Nov'68-May'70 | Jan'73-Oct'74 | Nov'80-Aug'82 | Aug'87-Dec'87 | Jul'90-Oct'90 | Mar'00-Oct'02 | Oct'07-Mar'09

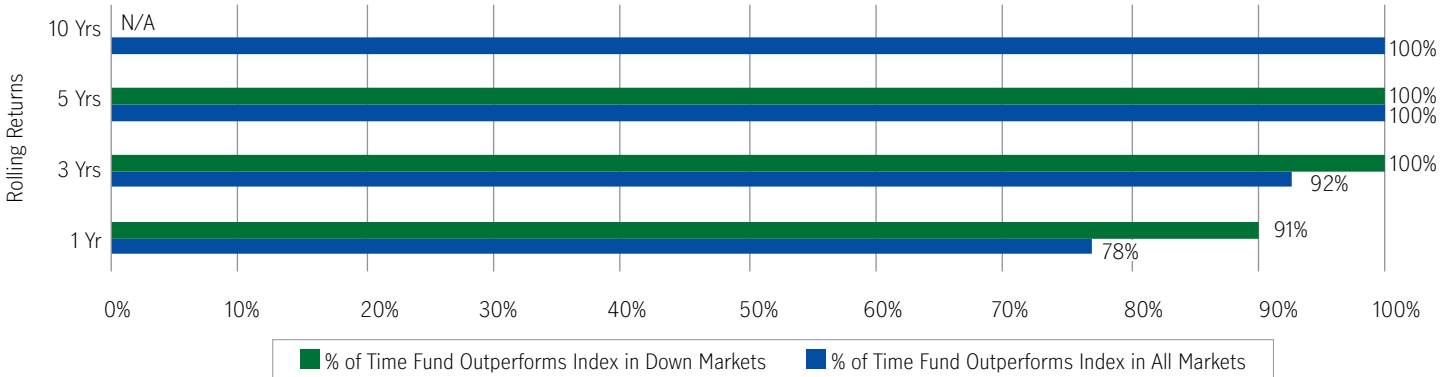
Source: Bloomberg & Manulife Investments (\$CAD). Past performance is not a guarantee of future performance. The index is unmanaged and cannot be purchased directly by investors.

Summary of Report Card found on following pages:

Summary: Manulife World Investment Class vs. MSCI EAFE Index					
1	Outperformed Majority of the Time (All Markets)	<input checked="" type="checkbox"/>	2	Less Frequent Negative Returns	<input checked="" type="checkbox"/>
	Outperformed Majority of the Time (Down Markets)	<input checked="" type="checkbox"/>		Better Frequency of Positive Returns	<input checked="" type="checkbox"/>
3	Better Downside Protection	<input checked="" type="checkbox"/>	4	Better Calendar Year Performance	<input checked="" type="checkbox"/>
	Better Upside Participation	<input checked="" type="checkbox"/>		More Smaller Calendar Year Max Drawdowns	<input checked="" type="checkbox"/>

1 Outperformance: Manulife World Investment Class vs. MSCI EAFE NR Index (since Fund Inception*)

- Historically during down periods, the Fund has outperformed its benchmark 100% of the time in all 3 and 5 year periods and 91% of the time in all 1 year periods
- History of outperformance in all markets 78% in rolling 1 year periods, 92% in rolling 3 year periods and 100% in rolling 5 and 10 year periods
- There were no rolling 10 year down markets since the Fund's inception

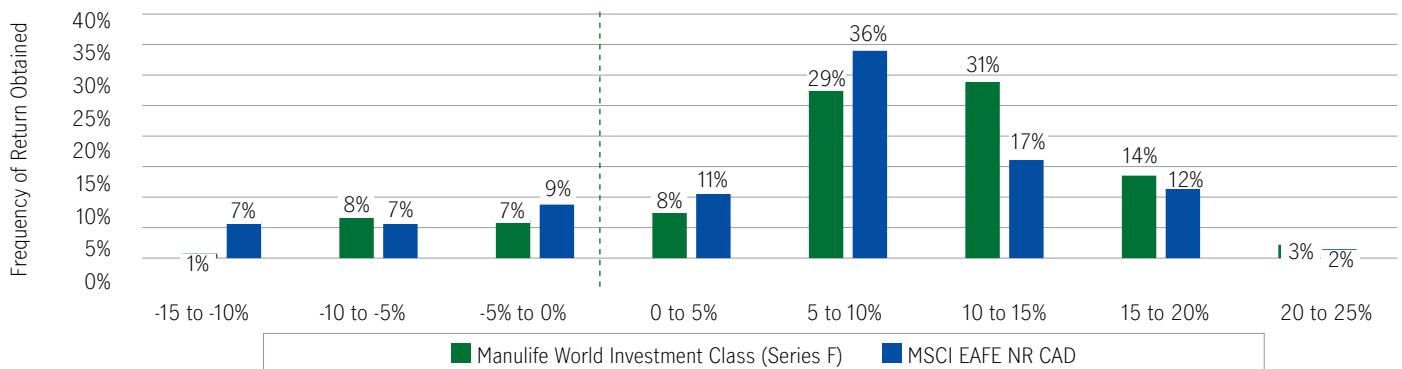


* Date of inception: September 19, 2006. Down markets are defined as any period in which the Index is negative. Past performance is not a guarantee of future performance.

2 Frequency of Returns: Manulife World Investment Class vs. MSCI EAFE Index (Rolling 3 Yr Returns Since Inception*)

- Fund only performed in the “-10 to -15%” range 1% of the time vs. the index which had returns in that range 7% of the time
- Fund performed negatively 15% of the time vs. 23% of the time for index
- Fund offered returns above 10 percent, 47% of the time vs. 31% for index

Range of Return Obtained



Frequency of Rolling Returns - All Time Periods

Time Periods	Fund	Frequency of Return Obtained									
		<-15%	-15 to -10%	-10 to -5%	-5 to 0%	0 to 5%	5 to 10%	10 to 15%	15 to 20%	20 to 25%	>25%
Rolling 1 Year	Manulife World Investment Class	8%	4%	6%	12%	9%	14%	11%	15%	16%	6%
	MSCI EAFE Index	9%	5%	15%	8%	11%	9%	18%	8%	11%	7%
Rolling 5 Year	Manulife World Investment Class	0%	0%	0%	16%	10%	14%	46%	15%	0%	0%
	MSCI EAFE Index	0%	0%	12%	11%	3%	31%	43%	1%	0%	0%
Rolling 10 Year	Manulife World Investment Class	0%	0%	0%	0%	6%	68%	26%	0%	0%	0%
	MSCI EAFE Index	0%	0%	0%	0%	53%	47%	0%	0%	0%	0%

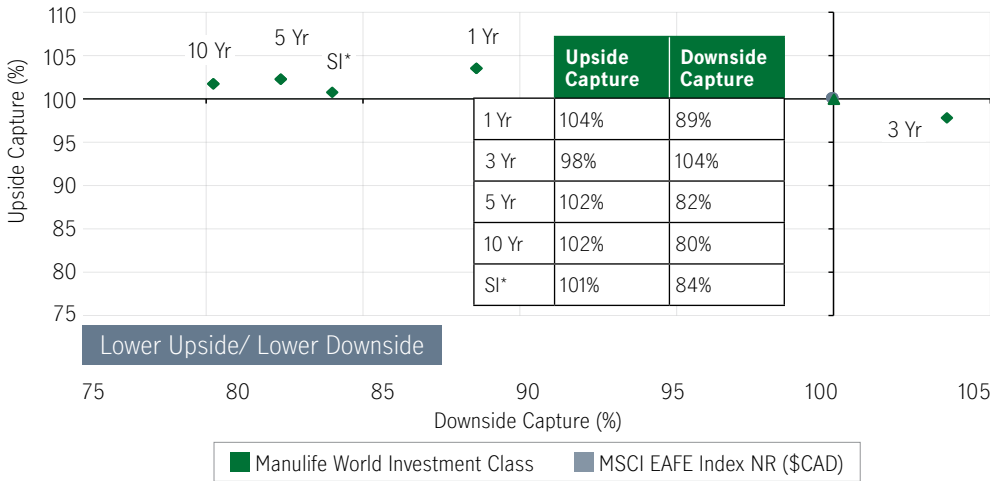
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Upside/Downside Capture: 1 Yr, 3 Yr, 5 Yr, 10 Yr, and Since Inception*

- The Fund captured less downside than the index in 4 of 5 time periods measured
- On a 1, 5 and 10 year basis the Fund captured more upside potential than the MSCI EAFE Index

Higher Upside/ Lower Downside



Lower Upside/ Lower Downside

What does upside/downside capture ratio mean?

An upside/downside capture ratio indicates how much of an up (or down) market a portfolio manager captures. For example: On a 5-year basis, Manulife World Investment Class (Series F) captured 102% of the returns during up markets and fell 18% (100%-82%) less during market declines.

*Date of inception: September 19, 2006.
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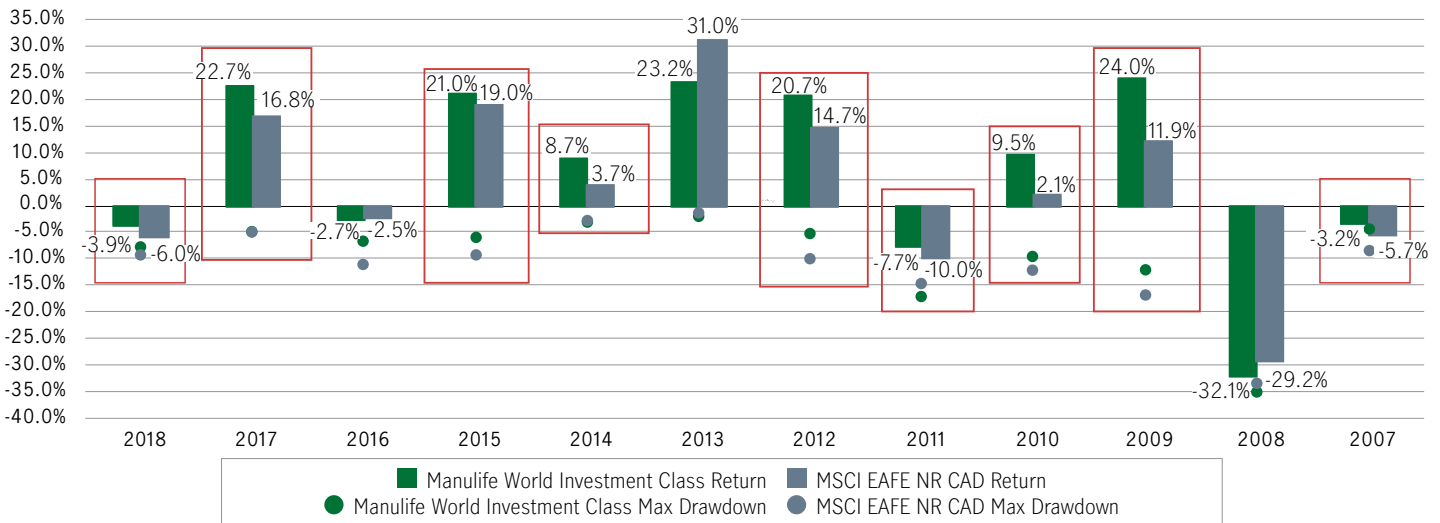
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Calendar Year Returns and Max Drawdowns

- Fund outperformed index 9 out of 12 calendar years
- Fund had smaller max drawdowns 7 out of 12 years

What is a max drawdown?

A max drawdown is the maximum loss from a peak to trough of a portfolio, within a specified time period (in this case calendar year), before a new peak is attained.



Calendar Year Max Drawdowns	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007
Manulife World Investment Class Max Drawdown	-8.3	-5.4	-7.1	-6.3	-3.4	-2.3	-5.9	-17.7	-10.0	-12.7	-35.7	-4.6
MSCI EAFE NR Max Drawdown	-9.2	-4.9	-11.2	-9.4	-2.8	-1.6	-10.1	-14.8	-12.3	-16.8	-32.8	-8.7

Annualized Performance (%)	1 Yr	3 Yr	5 Yr	10 Yr	Since Inception*
Manulife World Investment Class (Series F)	2.8	8.6	9.2	11.1	7.1
MSCI EAFE NR Index (\$CAD)	0.4	9.3	6.5	8.2	

*Date of inception: September 19, 2006.
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To learn more, contact your advisor or visit
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Series F is generally designed for investors who have a fee-based or wrap account with their dealer. Series F performance is net of fees and expenses. Advisor Series is also available and includes a 1.00% trailing commission.

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