

# Global Income Managed Volatility Fund

Performance Commentary (Class I Shares)

As of 12/31/18

## Summary

- The Janus Henderson Global Income Managed Volatility Fund outperformed the MSCI World High Dividend Yield<sup>SM</sup> Index for the quarter.
- Global equity markets were highly volatile in the fourth quarter, resulting in a sharp double-digit sell-off that drove the return for the year into negative territory. The 13.42% decline for the MSCI World Index marked the worst quarterly return for global developed equity markets in over seven years.
- Defensive segments of the market were in favor during the market sell-off in the fourth quarter. Lower beta stocks strongly outperformed higher beta stocks and the defensive utilities sector was the only segment to record a positive return during the period. The Fund benefited from its overall defensive positioning during the period.
- Global Income Managed Volatility strategy's optimization approach, which targets an excess return while minimizing the absolute risk, involves a dynamic adjustment to the market environment whereby the strategy adjusts the volatility reduction to market conditions. In periods of volatile markets, the portfolio will focus on volatility reduction offering a smoother ride and an increased downside protection and in periods of lower volatility, the portfolio will focus on alpha generation.

Performance (%)	4Q18	1 yr	3 yr	5 yr	10 yr	Since Inception (12/15/11)
Class I Shares	-3.98	-2.73	6.12	5.04	–	8.62
Class T Shares	-4.11	-2.96	5.95	4.84	–	8.41
Class A Shares @ NAV	-4.12	-3.03	5.82	4.73	–	8.31
Class A Shares @ MOP	-9.61	-8.60	3.76	3.50	–	7.41
MSCI World Index <sup>SM</sup>	-13.42	-8.71	6.30	4.56	–	9.53
MSCI World High Dividend Yield Index <sup>SM</sup>	-8.71	-7.56	6.07	3.43	–	7.66

Returns quoted are past performance and do not guarantee future results; current performance may be lower or higher. Investment returns and principal value will vary; there may be a gain or loss when shares are sold. For the most recent month-end performance call 800.668.0434 or visit [janushenderson.com/performance](http://janushenderson.com/performance).

Maximum Offering Price (MOP) returns include the maximum sales charge of 5.75%. Net Asset Value (NAV) returns exclude this charge, which would have reduced returns.

Expense ratios: Class I Shares: Gross 0.75% and Net 0.59% | Class T Shares: Gross 0.91% and Net 0.75% | Class A Shares: Gross 1.03% and Net 0.87%.

Net expense ratios reflect the expense waiver, if any, contractually agreed to through 11/1/19.

Returns include reinvestment of dividends and capital gains.

Please consider the charges, risks, expenses and investment objectives carefully before investing. For a prospectus or, if available, a summary prospectus containing this and other information, please call Janus Henderson at 800.668.0434 or download the file from [janushenderson.com/info](http://janushenderson.com/info). Read it carefully before you invest or send money.

# Global Income Managed Volatility Fund (as of 12/31/18)

## Quarterly Performance Attribution by Standard Deviation (%)

Std. Dev. Range	Global Income Managed Volatility Fund			MSCI World High Dividend Yield Index			Avg. Weight Difference	Attribution		
	Avg. Std. Dev.	Avg. Weight	Total Return	Avg. Std. Dev.	Avg. Weight	Total Return		Allocation Effect	Residual (Selection Effect)	Total Effect
Quintile 1 (high)	12.44	16.27	-9.96	11.74	12.53	-15.03	3.73	-0.25	0.92	0.67
Quintile 2	11.25	14.01	-11.17	11.20	16.59	-15.55	-2.59	0.18	0.68	0.86
Quintile 3	8.93	11.54	-8.84	9.73	18.36	-13.91	-6.83	0.40	0.60	1.00
Quintile 4	7.16	21.14	-0.70	8.89	26.01	-1.70	-4.88	-0.33	0.18	-0.15
Quintile 5 (low)	7.92	31.16	0.91	7.76	23.08	-3.35	8.08	0.43	1.19	1.62
<b>Total</b>	<b>6.78</b>	<b>100.00</b>	<b>-3.78</b>	<b>8.50</b>	<b>100.00</b>	<b>-8.54</b>	<b>---</b>	<b>0.64</b>	<b>4.11</b>	<b>4.76</b>

- As of December 31, 2018, the Fund's estimated volatility reduction is 20.2%.
- The portfolio's overall volatility positioning contributed to relative performance during the quarter.

## Quarterly Performance Attribution by Beta (%)

Beta Range	Global Income Managed Volatility Fund			MSCI World High Dividend Yield Index			Avg. Weight Difference	Attribution		
	Avg. Beta	Avg. Weight	Total Return	Avg. Beta	Avg. Weight	Total Return		Allocation Effect	Residual (Selection Effect)	Total Effect
Quintile 1 (high)	1.20	10.25	-12.67	1.29	39.50	-10.96	-29.24	0.71	-0.19	0.52
Quintile 2	0.99	19.10	-5.09	1.02	20.89	-7.65	-1.79	-0.02	0.52	0.50
Quintile 3	0.89	5.50	0.81	0.84	18.94	-7.36	-13.45	-0.16	0.44	0.28
Quintile 4	0.65	13.27	-5.39	0.67	9.31	-4.92	3.96	0.15	-0.09	0.06
Quintile 5 (low)	0.32	51.88	-1.35	0.39	10.14	-4.62	41.74	1.58	1.70	3.28
<b>Total</b>	<b>0.62</b>	<b>100.00</b>	<b>-3.78</b>	<b>1.00</b>	<b>100.00</b>	<b>-8.54</b>	<b>---</b>	<b>2.38</b>	<b>2.38</b>	<b>4.76</b>

- An average overweight to lower beta stocks (quintile 5) and underweight to higher beta stocks (quintile 1) contributed to the Fund's relative performance during the quarter.
- The estimated beta of the Fund of 0.62 reflects the current defensive positioning of the Fund.

## Quarterly Performance Attribution by Market Capitalization (%)

Market Capitalization Range	Global Income Managed Volatility Fund		MSCI World High Dividend Yield Index		Avg. Weight Difference	Attribution		
	Avg. Weight	Total Return	Avg. Weight	Total Return		Allocation Effect	Residual (Selection Effect)	Total Effect
Over \$100B	10.90	2.66	48.11	-5.88	-37.21	-1.01	0.94	-0.07
\$25B to \$100B	38.34	-8.37	34.23	-11.12	4.11	-0.11	1.07	0.95
\$15B to \$25B	16.27	0.48	7.78	-10.84	8.49	-0.20	1.77	1.57
\$2B to \$15B	34.50	-2.54	9.88	-10.64	24.62	-0.53	2.84	2.31
<b>Total</b>	<b>100.00</b>	<b>-3.78</b>	<b>100.00</b>	<b>-8.54</b>	<b>---</b>	<b>-1.85</b>	<b>6.61</b>	<b>4.76</b>

- The Fund's overall active size positioning detracted from the Fund's relative performance during the quarter.
- However, an overall positive selection effect contributed to relative performance during the quarter.

Source: FactSet. Average Standard Deviation and Average Beta are calculated based on trailing 12-month annualized daily data. See last page for important disclosures.

# Global Income Managed Volatility Fund (as of 12/31/18)

## Quarterly Performance Attribution by Sector (%)

GICS Sector	Global Income Managed Volatility Fund		MSCI World High Dividend Yield Index		Avg. Weight Difference	Attribution		
	Avg. Weight	Total Return	Avg. Weight	Total Return		Allocation Effect	Residual (Selection Effect)	Total Effect
Communication Services	10.95	-5.20	9.64	-5.46	1.32	0.05	0.00	0.05
Consumer Discretionary	15.35	-4.54	7.52	-10.98	7.83	-0.17	1.07	0.90
Consumer Staples	10.69	1.83	17.93	-3.19	-7.23	-0.39	0.53	0.15
Energy	2.58	-32.54	7.60	-19.14	-5.02	0.60	-0.47	0.13
Financials	9.38	-4.07	11.42	-11.25	-2.04	0.05	0.72	0.77
Health Care	4.01	-4.28	18.69	-3.70	-14.68	-0.75	-0.02	-0.77
Industrials	10.62	-14.70	9.39	-16.68	1.23	-0.10	0.22	0.12
Information Technology	1.06	-13.28	5.37	-15.43	-4.31	0.32	0.04	0.36
Materials	0.03	-8.10	3.83	-17.37	-3.80	0.35	0.00	0.36
Real Estate	5.67	1.72	0.97	-4.56	4.70	0.19	0.34	0.54
Utilities	29.67	1.75	7.58	2.25	22.09	2.32	-0.15	2.17
<b>Total</b>	<b>100.00</b>	<b>-3.78</b>	<b>100.00</b>	<b>-8.54</b>	<b>---</b>	<b>2.45</b>	<b>2.31</b>	<b>4.76</b>

- An average overweight to the defensive utilities sector, which was the only sector to record a positive return during the quarter, contributed to the Fund's relative performance.
- An overall positive selection effect also contributed to the Fund's relative performance during the quarter.

## Quarterly Performance Attribution by Country (%)

Country	Global Income Managed Volatility Fund		MSCI World High Dividend Yield Index		Avg. Weight Difference	Attribution		
	Avg. Weight	Total Return	Avg. Weight	Total Return		Allocation Effect	Residual (Selection Effect)	Total Effect
Australia	1.76	-15.64	1.75	-10.54	0.02	0.01	-0.11	-0.10
Austria	0.02	-7.52	0.06	-23.78	-0.04	0.01	0.00	0.01
Belgium	0.00	0.00	0.57	-19.10	-0.57	0.09	0.00	0.09
Canada	4.81	-4.04	5.03	-13.77	-0.23	0.02	0.49	0.50
Denmark	0.14	1.91	0.04	1.91	0.11	0.01	0.00	0.01
Finland	0.01	1.28	0.95	-21.57	-0.94	0.14	0.00	0.14
France	0.42	-6.93	5.44	-13.35	-5.02	0.29	0.01	0.30
Germany	0.23	2.11	5.06	-15.15	-4.83	0.36	0.03	0.40
Hong Kong	17.29	-2.46	2.13	-6.71	15.15	0.25	0.76	1.00
Israel	0.00	0.00	0.04	-7.65	-0.04	0.00	0.00	0.00
Italy	0.00	0.00	0.44	0.87	-0.44	-0.04	0.00	-0.04
Japan	14.74	-4.48	4.37	-12.74	10.37	-0.57	1.32	0.74
Netherlands	0.19	10.01	1.49	0.04	-1.29	-0.11	0.02	-0.10
New Zealand	0.66	3.64	0.12	2.51	0.54	0.05	0.00	0.06
Norway	0.07	-4.44	0.41	-9.38	-0.33	0.00	0.01	0.01
Portugal	0.00	0.00	0.25	-14.30	-0.25	0.02	0.00	0.02
Singapore	1.53	-9.86	1.37	-6.74	0.16	-0.03	-0.05	-0.08
Spain	0.06	-0.42	1.09	3.34	-1.03	-0.13	0.00	-0.13
Sweden	0.00	0.00	0.45	-16.29	-0.45	0.01	0.00	0.01
Switzerland	0.40	-7.25	9.38	-3.43	-8.99	-0.47	-0.01	-0.48
United Kingdom	0.36	-35.91	7.91	-9.47	-7.55	0.08	-0.09	-0.02
United States	57.31	-3.47	51.66	-7.49	5.65	0.11	2.29	2.40
<b>Total</b>	<b>100.00</b>	<b>-3.78</b>	<b>100.00</b>	<b>-8.54</b>	<b>---</b>	<b>0.09</b>	<b>4.67</b>	<b>4.76</b>

- The Fund's overall active country positioning slightly contributed to relative performance during the period.

# Global Income Managed Volatility Fund (as of 12/31/18)

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The weighting of securities within the Fund's portfolio may differ significantly from the weightings within the index. The index is unmanaged and not available for direct investment; therefore its performance does not reflect the expenses associated with the active management of an actual portfolio.

Foreign securities are subject to additional risks including currency fluctuations, political and economic uncertainty, increased volatility, lower liquidity and differing financial and information reporting standards, all of which are magnified in emerging markets.

Real estate securities, including Real Estate Investment Trusts (REITs) may be subject to additional risks, including interest rate, management, tax, economic, environmental and concentration risks.

Investing involves risk, including the possible loss of principal and fluctuation of value.

Intech's focus on managed volatility may keep the Fund from achieving excess returns over its index. The strategy may underperform during certain periods of up markets, and may not achieve the desired level of protection in down markets.

Performance for Class A Shares, Class I Shares and Class T Shares prior to 7/6/09 reflects the performance of one or more similar share classes of the Fund or a predecessor fund, adjusted, where applicable and permitted, for differing fees and expenses. See the Fund's prospectus for further details concerning historical performance.

**MSCI World Index<sup>SM</sup>** reflects the equity market performance of global developed markets. **MSCI World High Dividend Yield Index<sup>SM</sup>** reflects the performance of high dividend yield securities from global developed markets. **Alpha** compares risk-adjusted performance relative to an index. Positive alpha means outperformance on a risk-adjusted basis. **Beta** measures the volatility of a security or portfolio relative to an index. Less than one means lower volatility than the index; more than one means greater volatility. **Standard Deviation** measures historical volatility. Higher standard deviation implies greater volatility.

**Attribution** is used as a tool to explain the sources of a portfolio excess return versus a specific benchmark and during a specific period. The most widely used attribution methodology is a Return Decomposition Model based on weights and returns of a portfolio and index's underlying holdings. This attribution framework can be defined over a specific period, benchmark, grouping (sector, market cap, country, beta quintiles, standard deviation quintiles) and currency.

**Allocation Effect** measures whether the overweight or underweight of a segment relative to the index contributed positively or negatively to the overall portfolio's relative return over a specific period. For example, if the portfolio is Underweight a segment of the market that underperformed, the allocation effect will be positive. If the portfolio is overweight a segment of the market that underperformed or underweight a segment of the market that outperformed, the allocation effect will be negative. **Residual (Selection Effect)**, measures if the securities that a portfolio hold within a given segment have contributed to or detracted from the overall portfolio's relative performance. A positive selection effect means that the portfolio return within a specific segment was greater than the benchmark within the same segment. The "selection" of the stocks in the portfolio for that segment outperformed similar securities in the benchmark. Intech refers to "selection effect" as "residual" given our process selects stocks based on relative volatility and correlation characteristics as opposed to a traditional manager where "selection effect" measures the manager skill to select stocks that outperform. **Total Effect** is the sum of the allocation and selection effects.

Performance attribution is equity only and does not include cash. Total returns are gross of advisory fees and may differ from actual returns as they are based on end-of-day holdings in the fund. Companies in the fund and index are divided into quintiles based upon their standard deviation and beta during the period. Sector weights based on GICS.

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