

When we published our paper <u>Momentum Crashes: The Long & the Short of It</u> in April of last year, we didn't think we would have to update it so soon. However, since we published the paper, global equity markets have experienced historically significant momentum crashes in both the second half of 2022 and the beginning of 2023.

In US equity markets, January 2023 ranked as the 10th worst month for the momentum factor (WML) since 1927. True to form, momentum's decline followed a prior 2-year market decline (although a mild 1%) and was defined by the losers crashing upwards (losers portfolio +19% versus winners +3%).

Year- Month	Market Return	Preceding Market 2-Year Return	WML	Winners	Losers	Winners Excess to Market	Losers Excess to Market	Winners + Value Excess to Market
1932-08	37%	-68%	-52%	32%	84%	-5%	47%	16%
1932-07	34%	-75%	-45%	23%	68%	-11%	34%	10%
2009-04	10%	-41%	-34%	6%	40%	-4%	30%	1%
1939-09	17%	-22%	-31%	17%	48%	0%	31%	16%
2001-01	4%	11%	-25%	-1%	25%	-4%	21%	-3%
1938-06	24%	-28%	-25%	17%	42%	-6%	18%	-1%
1931-06	14%	-48%	-18%	10%	28%	-4%	14%	2%
1933-04	39%	-59%	-17%	39%	56%	0%	17%	9%
2002-11	6%	-36%	-16%	1%	17%	-5%	11%	-2%
2023-01	7%	-1%	-16%	3%	19%	-4%	12%	-2%
1931-02	11%	-39%	-14%	9%	24%	-2%	13%	1%
1975-01	14%	-42%	-14%	15%	29%	1%	15%	6%
2009-05	5%	-37%	-12%	2%	15%	-3%	9%	-2%
2020-11	12%	27%	-12%	14%	27%	2%	14%	4%
2009-03	9%	-45%	-12%	7%	19%	-2%	10%	0%

January 2023 was the 10th worst month in US history for the momentum factor (WML)

Portfolios are calculated using data from Ken French's website: <u>https://mba.tuck.dartmouth.edu/pages/faculty/ken.french/data_library.html</u> The Momentum (or Value) portfolio returns are formed as the average return over the top 30% by prior return (or B/M for value) intersected with a large cap and a small cap portfolio. The Market portfolio return represents the cap-weighted entire universe of stocks return and the winners/value combination is the equally-weighted winners portfolio return with the value portfolio return. Please see Important Disclosures at the end of this document.



In non-US equity markets, both November 2022 and January 2023 witnessed historically significant momentum (WML) drawdowns. To wit, November ranked as the 15th worst month since 1990, and January ranked as the 17th worst. Similarly, each momentum crash was defined by the losers portfolio significantly outperforming the winners portfolio.

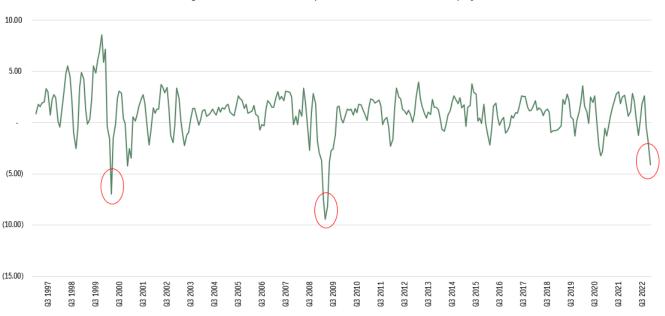
November 2022 and January 2023 were historically significant momentum (WML) drawdowns in non-US equity markets

Year- Month	Market Return	Preceding Market 2-Year Return	WML	Winners	Losers	Winners Excess to Market	Losers Excess to Market	Winners + Value Excess to Market
2009-04	14%	-44%	-20%	6%	26%	-8%	13%	-3%
2020-11	13%	10%	-11%	9%	21%	-4%	7%	-1%
2009-05	15%	-39%	-11%	11%	22%	-3%	7%	-1%
1991-02	11%		-10%	9%	19%	-2%	8%	-1%
2000-03	2%	39%	-9%	-4%	5%	-6%	3%	-3%
2000-04	-7%	37%	-9%	-13%	-5%	-6%	3%	-3%
2001-11	5%	-28%	-9%	1%	10%	-4%	5%	-2%
2009-03	8%	-46%	-8%	4%	12%	-4%	4%	-2%
2000-05	-3%	26%	-7%	-5%	2%	-3%	4%	0%
2012-01	7%	-2%	-7%	5%	12%	-2%	5%	-1%
2001-01	4%	14%	-6%	1%	8%	-3%	4%	-2%
1999-03	5%	-1%	-6%	3%	9%	-2%	4%	0%
2003-04	9%	-21%	-6%	6%	12%	-3%	2%	-2%
1999-04	6%	6%	-5%	6%	11%	0%	5%	2%
2022-11	12%	0%	-5%	9%	14%	-3%	2%	-2%
2009-08	3%	-28%	-5%	2%	7%	-1%	4%	1%
2023-01	7%	-8%	-5%	5%	10%	-2%	2%	-2%

Portfolios are calculated using data from Ken French's website: <u>https://mba.tuck.dartmouth.edu/pages/faculty/ken.french/data_library.html</u> Non-US portfolios are formed with using a Developed markets weight of 75%, and an Emerging markets weight of 25%. The Momentum (or Value) portfolio returns are formed as the average return over the top 30% by prior return (or B/M for value) intersected with a large cap and a small cap portfolio. The Market portfolio return represents the cap-weighted entire universe of stocks return and the winners/value combination is the equally-weighted winners portfolio return with the value portfolio return. Please see Important Disclosures at the end of this document.



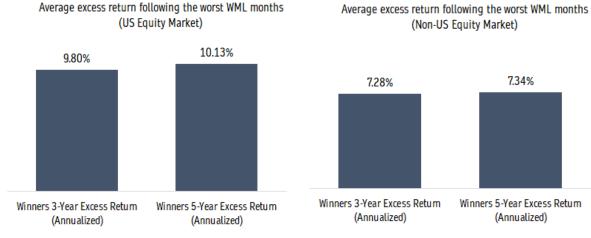
Additionally, using an alternative definition from Axioma's World-Wide Equity Risk Model, we see the historical significance of the momentum factor's recent decline in the table below. In fact, momentum's rolling 3-month decline ending in January 2023 is the 3rd worst behind the burst of the Tech Bubble in the early 2000s and the recovery from the Global Financial Crisis in 2009.



Historic 3-Month Decline for the Momentum Factor

Rolling 3 Month Periods Since Inception of the Axioma World-Wide Equity Risk Model

As we have detailed in our past research, momentum has a long history of long-term outperformance. However, like any investment approach, momentum does go through periods of underperformance. As we have just witnessed, momentum drawdowns tend to be short and sharp, and they tend to cluster around times of general market volatility. Still, historically speaking, an investor would be well-served by investing immediately following a significant monthly drawdown of momentum. In fact, after 15¹ of the worst months for momentum (WML) since 1927 in US equity markets, the average 3- and 5-year annualized excess return above the market for long-only momentum has been close to 10%. Similarly, after 17¹ of the worst months for momentum (WML) since 1990 in non-US equity markets, the average 3- and 5-year annualized excess return has been over 7%.



Coming out of these 1-month crashes, long-only momentum tends to outperform

¹Periods with a 3- and 5-year return as of February 2023.



About IMC

IMC is solely focused on helping clients build better portfolios through our Informed Momentum investment approach. This approach has been applied consistently across all strategies since the inception of the firm in 2007 (formerly EAM Investors*). The daily application of our systematic process is designed to deliver consistent and predictable results. Since our entire company works for a single objective, it only makes sense to align the name of our brand with exactly what we do every day.

We are the Informed Momentum Company.

About the Authors

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Travis is the chief investment officer, responsible for oversight of all of IMC's strategies, as well as a portfolio manager for IMC's US and Global strategies. Travis cofounded The Informed Momentum Company, formerly EAM Investors, in 2007. Prior to that, Travis was a partner, managing director and portfolio manager with Nicholas-Applegate Capital Management where he had lead portfolio management responsibilities for their Micro and Ultra Micro Cap investment strategies and a senior role in the firm's US Micro/Emerging Growth team. He has 27 years of institutional investment experience specializing in momentum-based strategies. He holds an MBA from San Diego State University and a BA in Economics and a BA in Psychology from the University of Arizona.

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*As of 2/4/2025, EAM Investors, LLC, "EAM" has officially changed its name to The Informed Momentum Company, "IMC". This name change does not impact the integrity or content of the research, reports, or any materials previously published under the old name. All references to "EAM" in past publications and reports now refer to "IMC".



Important Disclosures

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Fama-French returns referenced in this document are calculated using monthly and daily data from Ken French's website: https://mba.tuck.dartmouth.edu/pages/faculty/ken.french/data_library.html

The U.S. Market portfolio return represents the return of the U.S. universe of stocks. The Winners portfolio return is the average return over the top 30% prior return intersected with a large and a small cap portfolio. The Losers portfolio return is the average return over the bottom 30% prior return intersected with a large and a small cap portfolio return is the winners return minus the losers return. The Value portfolio return is the average return over the top 30% Book/Market intersected with a large and a small cap portfolio. The Momentum and Value combination portfolio is equally weighted between momentum and value. The Non-US portfolios are formed with using a Developed markets weight of 75%, and an Emerging markets weight of 25%. The U.S. Dollar is the currency used to express performance.