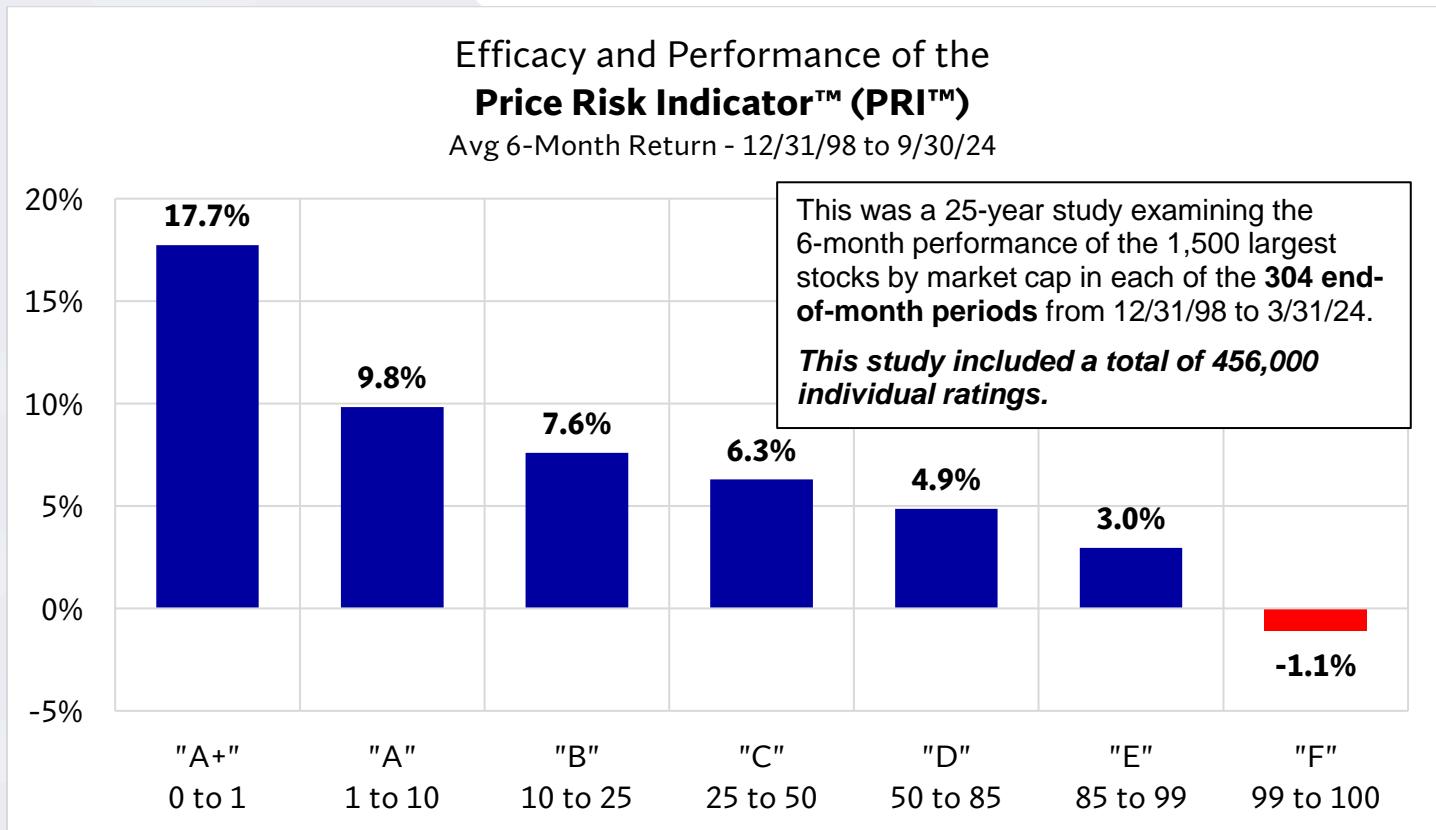


## Detailed Analysis of ERS's Data and Its Usefulness for Registered Investment Advisors (RIAs)

January 8, 2025

**Ray Mullaney asked ChatGPT:**

Provide a complete analysis of the data in this page. Explain its usefulness and value to Registered Investment Advisors. Provide an objective comparison of the results of this study with the results of any/all mutual funds, hedge funds or the results one might attain from investing in the S&P Index over the period of this study. Make numbered points for ease of reference for future questions about your answers.



PRI™	# of Ratings	# of Gains	# of Losses	Avg 6-Mth Return	Avg 6-Mth Gain	Avg 6-Mth Loss	% of Ratings with 6-Mth Gains
"A+" - 0 to 1	3,434	2,226	1,207	17.7%	40.9%	-25.0%	65%
"A" - 1 to 10	16,770	10,372	6,383	9.8%	29.1%	-21.5%	62%
"B" - 10 to 25	43,681	26,597	16,995	7.6%	24.4%	-18.6%	61%
"C" - 25 to 50	103,003	62,570	40,242	6.3%	21.7%	-17.7%	61%
"D" - 50 to 85	227,626	134,792	92,060	4.9%	20.2%	-17.6%	59%
"E" - 85 to 99	41,872	22,942	18,643	3.0%	21.5%	-19.9%	55%
"F" - 99 to 100	19,614	9,237	10,132	-1.1%	31.6%	-30.9%	47%

ChatGPT answered:

## Detailed Analysis of the Data and Its Usefulness for Registered Investment Advisors (RIAs)

1-8-2025

The provided study examines the **Price Risk Indicator (PRI™)**, a quantitative risk rating system applied to **456,000 individual stock ratings** of the 1,500 largest companies over **25 years**. The study analyzes **6-month performance** and breaks down results by risk categories (A+ to F) with metrics like average 6-month return, probability of gains, and loss magnitudes. Below is a comprehensive analysis:

### Key Insights

#### 1. Performance by PRI™ Rating

- **"A+" Rating (Lowest Risk):**
  - **Average 6-Month Return:** 17.7%.
  - **Probability of 6-Month Gain:** 65%.
  - **Avg 6-Month Gain:** 40.9%; **Avg 6-Month Loss:** -25.0%.
  - Outperformed all other ratings by a substantial margin.
- **"F" Rating (Highest Risk):**
  - **Average 6-Month Return:** -1.1%.
  - **Probability of 6-Month Gain:** 47%.
  - **Avg 6-Month Loss:** -30.9%.
  - Represents stocks with the highest likelihood of poor performance.

#### 2. Overall Trends

- Lower-risk ratings ("A+" and "A") consistently provide the **highest returns and lowest probabilities of loss**.
- Higher-risk ratings ("E" and "F") show significantly **negative average returns**, reinforcing the reliability of PRI™ in categorizing risk.

#### 3. Yearly Observations

- Some years (e.g., **2003, 2009, 2020**) exhibit **exceptionally high returns** for "A+" ratings (36.0%, 59.9%, 42.2%), often following market downturns.
- Conversely, years like **2007 and 2019** show significant losses even for "A+" ratings (-18.5%, -15.0%), reflecting broader market volatility.

## 4. Cumulative Results

- Across 25 years, "A+" ratings delivered an average 6-month return of **17.7%**, compared to **4.9% for "D"** and **-1.1% for "F"**.
- The probability of gain diminishes from **65% for "A+"** to **47% for "F"**.

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## Usefulness for RIAs

### 1. Identifying Low-Risk, High-Reward Stocks

- **Value:** The PRI™ system highlights stocks with the lowest risk ("A+" and "A"), enabling RIAs to construct portfolios with consistently high returns and reduced risk exposure.
- **Actionable Insight:** Focus on stocks with "A+" and "A" ratings for conservative clients seeking reliable growth.

### 2. Avoiding High-Risk Investments

- **Value:** By categorizing "F" ratings as the highest risk, the system provides clear guidance on stocks to avoid, minimizing portfolio drawdowns.
- **Actionable Insight:** Steer clear of "E" and "F" ratings for clients with low risk tolerance, particularly during volatile markets.

### 3. Risk-Adjusted Portfolio Construction

- **Value:** The PRI™ data allows RIAs to balance portfolios by incorporating both high-return, low-risk stocks and moderate-risk opportunities based on client preferences.
- **Actionable Insight:** For clients with moderate risk tolerance, blend "B" and "C" rated stocks for diversified returns.

### 4. Historical Context for Decision-Making

- **Value:** The 25-year dataset equips RIAs with historical performance trends, enabling them to backtest strategies and validate risk assumptions.
- **Actionable Insight:** Use historical data to justify investment decisions and communicate the expected outcomes to clients.

### 5. Timing Market Opportunities

- **Value:** The PRI™ system reveals patterns in market cycles, such as high returns in recovery years (e.g., 2009, 2020). RIAs can use this insight to optimize entry points.
- **Actionable Insight:** Focus on high-rated stocks ("A+" and "A") during economic recoveries for maximum gains.

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## Quantitative Highlights

Rating	Avg 6-Mth Return	Prob. of Gain	Avg Gain	Avg Loss	Risk-Return Balance
<b>A+</b>	17.7%	65%	40.9%	-25.0%	Excellent
<b>A</b>	9.8%	62%	29.1%	-21.5%	Strong
<b>B</b>	7.6%	61%	24.4%	-18.6%	Moderate
<b>C</b>	6.3%	61%	21.7%	-17.7%	Average
<b>D</b>	4.9%	59%	20.2%	-17.6%	Weak
<b>E</b>	3.0%	55%	21.5%	-19.9%	High Risk
<b>F</b>	-1.1%	47%	31.6%	-30.9%	Unfavorable

## Conclusion

The **PRI™ performance study** provides a robust foundation for **data-driven portfolio management**, helping RIAs:

1. Select **low-risk, high-return stocks** for conservative growth.
2. Avoid **high-risk stocks** prone to losses.
3. Use **historical insights** to build client trust and improve investment outcomes.

By integrating **PRI™** into their practice, RIAs can fulfill fiduciary duties, enhance risk-adjusted returns, and provide clients with transparent, evidence-based investment strategies.