

Portfolio Risk Analysis Report

Report Date: October 14, 2025

Portfolio Size: 25 Assets

Analysis Period: 12 Months

Generated by: Automated Risk Analysis Pipeline

Risk Assessment Summary

HIGH RISK (RED): 20 Assets
MEDIUM RISK (YELLOW): 1 Assets
LOW RISK (GREEN): 4 Assets

Executive Summary

This report presents a comprehensive risk analysis of a portfolio containing 25 assets with a combined market capitalization of \$2491.7 billion. **Key Findings:** • 20 assets (80.0%) are rated as HIGH RISK (RED) • 1 assets (4.0%) are rated as MEDIUM RISK (YELLOW) • Average portfolio volatility: 30.2% • Maximum drawdown observed: -54.5% **Risk Concentration:** The analysis reveals significant risk concentration in 21 assets requiring immediate attention and potential portfolio rebalancing. **Sentiment Analysis:** • 12 RED-flagged assets show negative market sentiment • Average sentiment score for flagged assets: -0.311 • News coverage indicates heightened market concern for these positions

Portfolio Overview

Sector Allocation

Sector	Assets	Market Cap (\$B)	Percentage
Materials	5	551.38	22.1%
Technology	3	540.54	21.7%
Utilities	6	409.30	16.4%
Energy	2	353.02	14.2%
Consumer Discretionary	2	250.28	10.0%
Financial Services	3	157.99	6.3%
Real Estate	2	150.94	6.1%
Consumer Staples	1	42.52	1.7%
Industrial	1	35.71	1.4%

Risk Analysis Results

Risk Distribution:

- HIGH RISK (RED): 20 assets
- MEDIUM RISK (YELLOW): 1 assets
- LOW RISK (GREEN): 4 assets

High Risk Assets

Symbol	Sector	Risk Rating	Volatility	Max Drawdown	Risk Score
GSGD	Materials	RED	40.6%	-54.5%	3
CFT	Utilities	RED	40.2%	-32.3%	2
XGY	Utilities	RED	31.4%	-48.8%	2
AZO	Technology	RED	27.8%	-21.2%	2
NIT	Technology	RED	43.7%	-31.7%	2
BQ	Utilities	YELLOW	20.7%	-16.9%	2

TNWI	Materials	RED	45.2%	-34.0%	2
PB	Financial Services	RED	41.4%	-30.1%	2
CQI	Industrial	RED	34.8%	-51.2%	2
ZYQ	Materials	RED	36.4%	-53.2%	2
DX	Energy	RED	29.8%	-31.8%	2
SCTB	Utilities	RED	18.7%	-27.3%	2
CRVQ	Consumer Discretionary	RED	17.1%	-20.2%	2
ZIB	Utilities	RED	28.1%	-42.2%	2
NB	Materials	RED	31.3%	-21.3%	2
MMJ	Energy	RED	40.4%	-24.6%	2
RF	Utilities	RED	18.3%	-25.4%	2
GG	Real Estate	RED	29.1%	-30.2%	1
TUD	Consumer Staples	RED	29.1%	-26.5%	1
RNB	Consumer Discretionary	RED	23.7%	-20.7%	1
NU	Materials	RED	32.1%	-24.9%	1

Sentiment Analysis

Sentiment analysis was conducted on 20 RED-flagged assets using financial news from the past 12 months. **Key Findings:**

- Average sentiment score: -0.311
- Assets with negative sentiment: 12/20
- Total news articles analyzed: 462

Sentiment Analysis Results

Symbol	Sentiment Score	Label	News Count	Trend	Key Themes
RF	-0.445	NEGATIVE	22	STABLE	regulatory, earnings, financial_health
NB	-0.409	NEGATIVE	16	DETERIORATING	financial_health, earnings, regulatory
DX	-0.405	NEGATIVE	16	IMPROVING	earnings, regulatory, financial_health
PB	-0.370	NEGATIVE	18	IMPROVING	regulatory, financial_health, operations
GG	-0.370	NEGATIVE	28	IMPROVING	regulatory, earnings, operations
TUD	-0.363	NEGATIVE	19	IMPROVING	earnings, regulatory, financial_health
SCTB	-0.354	NEGATIVE	30	IMPROVING	regulatory, operations, earnings
TNWI	-0.350	NEGATIVE	21	DETERIORATING	earnings, regulatory, financial_health
CQI	-0.346	NEGATIVE	30	STABLE	financial_health, regulatory, earnings
ZIB	-0.326	NEGATIVE	29	STABLE	financial_health, earnings, regulatory
MMJ	-0.320	NEGATIVE	28	DETERIORATING	regulatory, earnings, financial_health
XGY	-0.314	NEGATIVE	21	IMPROVING	earnings, regulatory, market_share
CFT	-0.296	NEUTRAL	24	IMPROVING	regulatory, financial_health, operations
NU	-0.262	NEUTRAL	30	IMPROVING	earnings, operations, regulatory

RNB	-0.259	NEUTRAL	28	DETERIORATING	earnings, financial_health, regulatory
GSGD	-0.253	NEUTRAL	19	DETERIORATING	regulatory, earnings, operations
ZYQ	-0.230	NEUTRAL	18	DETERIORATING	market_share, earnings, regulatory
NIT	-0.224	NEUTRAL	16	DETERIORATING	regulatory, earnings, financial_health
AZO	-0.171	NEUTRAL	23	STABLE	regulatory, financial_health, earnings
CRVQ	-0.143	NEUTRAL	26	IMPROVING	earnings, operations, growth

Detailed Asset Analysis

Asset: GSGD

Sector: Materials

Current Price: \$154.34

Market Cap: \$160.99B

Risk Rating: RED

Risk Metrics:

- Volatility: 40.6%
- Maximum Drawdown: -54.5%
- Beta: -0.03
- Sharpe Ratio: -1.18
- RSI: 53.4

Performance:

- 1-Month Return: 4.0%
- 3-Month Return: -13.3%
- 6-Month Return: -38.4%

Risk Flags:

- High Volatility, Extreme Drawdown, Poor Risk Return

Market Sentiment:

- Sentiment Score: -0.253 (NEUTRAL)
- News Articles: 19
- Trend: DETERIORATING

Asset: CFT

Sector: Utilities

Current Price: \$114.27

Market Cap: \$201.82B

Risk Rating: RED

Risk Metrics:

- Volatility: 40.2%
- Maximum Drawdown: -32.3%
- Beta: 0.13
- Sharpe Ratio: 0.73
- RSI: 46.2

Performance:

- 1-Month Return: 0.7%
- 3-Month Return: 26.5%
- 6-Month Return: 40.9%

Risk Flags:

- High Volatility, Extreme Drawdown

Market Sentiment:

- Sentiment Score: -0.296 (NEUTRAL)
- News Articles: 24

- Trend: IMPROVING

Asset: XGY

Sector: Utilities

Current Price: \$71.18

Market Cap: \$82.39B

Risk Rating: RED

Risk Metrics:

- Volatility: 31.4%
- Maximum Drawdown: -48.8%
- Beta: 0.01
- Sharpe Ratio: -1.68
- RSI: 11.2

Performance:

- 1-Month Return: -11.3%
- 3-Month Return: -6.5%
- 6-Month Return: -18.0%

Risk Flags:

- Extreme Drawdown, Poor Risk Return

Market Sentiment:

- Sentiment Score: -0.314 (NEGATIVE)
- News Articles: 21

- Trend: IMPROVING

Asset: AZO

Sector: Technology

Current Price: \$178.47

Market Cap: \$100.74B

Risk Rating: RED

Risk Metrics:

- Volatility: 27.8%
- Maximum Drawdown: -21.2%
- Beta: -0.15
- Sharpe Ratio: 0.38
- RSI: 44.4

Performance:

- 1-Month Return: -10.5%
- 3-Month Return: -12.1%
- 6-Month Return: 7.6%

Risk Flags:

- Extreme Drawdown, Momentum Breakdown

Market Sentiment:

- Sentiment Score: -0.171 (NEUTRAL)
- News Articles: 23

- Trend: STABLE

Asset: NIT

Sector: Technology

Current Price: \$308.27

Market Cap: \$209.42B

Risk Rating: RED

Risk Metrics:

- Volatility: 43.7%
- Maximum Drawdown: -31.7%
- Beta: -0.08
- Sharpe Ratio: 0.25
- RSI: 70.6

Performance:

- 1-Month Return: 25.3%
- 3-Month Return: 8.4%
- 6-Month Return: 0.2%

Risk Flags:

- High Volatility, Extreme Drawdown

Market Sentiment:

- Sentiment Score: -0.224 (NEUTRAL)
- News Articles: 16
- Trend: DETERIORATING

Recommendations

Based on the comprehensive risk analysis, the following recommendations are provided:

Immediate Actions (RED-flagged assets):

1. Consider reducing position sizes for 20 high-risk assets
2. Implement stop-loss orders to limit further downside exposure
3. Review fundamental analysis for potential divestiture candidates
4. Monitor daily price movements and news flow closely

Medium-term Actions (YELLOW-flagged assets):

1. Conduct deeper due diligence on 1 medium-risk assets
2. Consider hedging strategies for positions with high volatility
3. Review correlation with overall portfolio risk
4. Set up enhanced monitoring and alerts

Portfolio-level Recommendations:

1. Diversify across sectors to reduce concentration risk
2. Consider alternative investments to reduce correlation
3. Implement systematic risk management framework
4. Schedule monthly portfolio risk reviews

Sentiment-based Actions:

1. Monitor news flow for 12 assets with negative sentiment
2. Consider contrarian opportunities if fundamentals remain strong
3. Assess impact of market sentiment on price movements
4. Review analyst coverage and institutional positioning

Appendix

Methodology

This risk analysis employs a four-stage pipeline methodology:

- Stage 1 - Data Ingestion:** • Historical price data (252 trading days) • Trading volume information • Market capitalization data • Sector classifications
- Stage 2 - Core Analysis:** • Volatility calculation (annualized) • Maximum drawdown analysis • Beta coefficient estimation • Risk-adjusted return metrics (Sharpe ratio) • Technical indicators (RSI) • Rule-based risk flagging system
- Stage 3 - Sentiment Analysis:** • News article collection (12-month lookback) • Natural language processing for sentiment scoring • Trend analysis and confidence metrics • Key theme extraction
- Stage 4 - Report Generation:** • Comprehensive risk assessment compilation • Visual data presentation • Actionable recommendations • Professional PDF report output

Risk Assessment Thresholds

RED Flag Thresholds: • Volatility > 40% (annualized) • Maximum drawdown < -20% • Volume decline > 50% • 1-month price decline > 15% **YELLOW Flag Thresholds:** • Volatility > 25% (annualized) • Maximum drawdown < -10% • Volume decline > 30% • Multiple warning indicators present **Sentiment Thresholds:** • Negative sentiment: Score < -0.3 • Positive sentiment: Score > 0.3 • Neutral sentiment: -0.3 ≤ Score ≤ 0.3

Report Generation Details:

- Generated: 2025-10-14 07:41:46
- Analysis Period: 12 months
- Total Assets Analyzed: 25
- Pipeline Version: 1.0