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): 17 Assets
MEDIUM RISK (YELLOW): 0 Assets
LOW RISK (GREEN): 8 Assets

Executive Summary

This report presents a comprehensive risk analysis of a portfolio containing 25 assets with a combined market capitalization of $2669.4 billion. **Key Findings:** • 17 assets (68.0%) are rated as HIGH RISK (RED) • 0 assets (0.0%) are rated as MEDIUM RISK (YELLOW) • Average portfolio volatility: 28.6% • Maximum drawdown observed: -51.2% **Risk Concentration:** The analysis reveals significant risk concentration in 17 assets requiring immediate attention and potential portfolio rebalancing. **Sentiment Analysis:** • 10 RED-flagged assets show negative market sentiment • Average sentiment score for flagged assets: -0.325 • News coverage indicates heightened market concern for these positions

Portfolio Overview

Sector Allocation

Sector	Assets	Market Cap ($B)	Percentage
Real Estate	4	564.76	21.2%
Healthcare	3	459.66	17.2%
Materials	5	387.64	14.5%
Consumer Discretionary	3	317.76	11.9%
Industrial	3	311.57	11.7%
Technology	2	215.08	8.1%
Energy	1	156.40	5.9%
Financial Services	2	140.88	5.3%
Consumer Staples	1	63.13	2.4%
Utilities	1	52.52	2.0%

Risk Analysis Results

Risk Distribution:
• HIGH RISK (RED): 17 assets
• MEDIUM RISK (YELLOW): 0 assets
• LOW RISK (GREEN): 8 assets

High Risk Assets

Symbol	Sector	Risk Rating	Volatility	Max Drawdown	Risk Score
SUM	Healthcare	RED	39.6%	-51.2%	5
SJKV	Materials	RED	33.0%	-29.1%	4
MRG	Real Estate	RED	36.5%	-42.1%	3
MYK	Financial Services	RED	43.1%	-50.1%	3
RFN	Consumer Discretionary	RED	21.8%	-39.4%	2

CS	Industrial	RED	26.2%	-39.1%	2
DEN	Utilities	RED	34.5%	-36.3%	2
AI	Real Estate	RED	20.5%	-35.0%	2
BZK	Consumer Discretionary	RED	22.8%	-40.6%	2
MGXQ	Industrial	RED	36.2%	-27.9%	1
CMDT	Materials	RED	29.8%	-25.3%	1
VKZ	Materials	RED	39.2%	-25.9%	1
TR	Materials	RED	24.9%	-25.1%	1
ATDN	Healthcare	RED	24.7%	-23.3%	1
TVT	Consumer Discretionary	RED	37.0%	-35.1%	1
SH	Materials	RED	32.2%	-31.5%	1
NB	Industrial	RED	28.3%	-34.3%	1

Sentiment Analysis

Sentiment analysis was conducted on 17 RED-flagged assets using financial news from the past 12 months. **Key Findings:**
• Average sentiment score: -0.325
• Assets with negative sentiment: 10/17
• Total news articles analyzed: 427

Sentiment Analysis Results

Symbol	Sentiment Score	Label	News Count	Trend	Key Themes
CMDT	-0.436	NEGATIVE	29	IMPROVING	earnings, regulatory, management
VKZ	-0.407	NEGATIVE	25	STABLE	regulatory, earnings, market_share
TVT	-0.394	NEGATIVE	24	IMPROVING	regulatory, financial_health, management
BZK	-0.393	NEGATIVE	29	STABLE	earnings, regulatory, financial_health
MYK	-0.389	NEGATIVE	27	DETERIORATING	earnings, regulatory, financial_health
NB	-0.358	NEGATIVE	27	IMPROVING	earnings, regulatory, market_share
SUM	-0.334	NEGATIVE	29	DETERIORATING	regulatory, financial_health, earnings
SH	-0.330	NEGATIVE	28	DETERIORATING	financial_health, earnings, regulatory
AI	-0.308	NEGATIVE	23	IMPROVING	earnings, market_share, financial_health
RFN	-0.308	NEGATIVE	30	IMPROVING	regulatory, earnings, financial_health
ATDN	-0.289	NEUTRAL	26	DETERIORATING	earnings, regulatory, operations
TR	-0.287	NEUTRAL	23	DETERIORATING	financial_health, earnings, management
CS	-0.286	NEUTRAL	17	IMPROVING	earnings, regulatory, operations
MRG	-0.271	NEUTRAL	19	STABLE	regulatory, earnings, market_share
DEN	-0.252	NEUTRAL	17	IMPROVING	regulatory, earnings, financial_health
SJKV	-0.244	NEUTRAL	30	IMPROVING	earnings, regulatory, operations
MGXQ	-0.234	NEUTRAL	24	IMPROVING	financial_health, earnings, regulatory

Detailed Asset Analysis

Asset: SUM

Sector: Healthcare
Current Price: $63.83
Market Cap: $70.04B
Risk Rating: RED
Risk Metrics:
• Volatility: 39.6%
• Maximum Drawdown: -51.2%
• Beta: 0.26
• Sharpe Ratio: -1.61
• RSI: 31.6
Performance:
• 1-Month Return: -21.5%
• 3-Month Return: -42.9%
• 6-Month Return: -42.5%
Risk Flags:
• Extreme Drawdown, Severe Decline, Extended Decline, Poor Risk Return, Momentum Breakdown
Market Sentiment:
• Sentiment Score: -0.334 (NEGATIVE)
• News Articles: 29
• Trend: DETERIORATING

Asset: SJKV

Sector: Materials
Current Price: $35.35
Market Cap: $55.82B
Risk Rating: RED
Risk Metrics:
• Volatility: 33.0%
• Maximum Drawdown: -29.1%
• Beta: 0.03
• Sharpe Ratio: -0.70
• RSI: 34.9
Performance:
• 1-Month Return: -18.0%
• 3-Month Return: -15.9%
• 6-Month Return: -17.3%
Risk Flags:
• Extreme Drawdown, Severe Decline, Poor Risk Return, Momentum Breakdown
Market Sentiment:
• Sentiment Score: -0.244 (NEUTRAL)
• News Articles: 30
• Trend: IMPROVING

Asset: MRG

Sector: Real Estate
Current Price: $134.76

Market Cap: $156.05B
Risk Rating: RED
Risk Metrics:
• Volatility: 36.5%
• Maximum Drawdown: -42.1%
• Beta: -0.04
• Sharpe Ratio: -0.87
• RSI: 30.4
Performance:
• 1-Month Return: -11.0%
• 3-Month Return: -23.4%
• 6-Month Return: -34.4%
Risk Flags:
• Extreme Drawdown, Poor Risk Return, Momentum Breakdown
Market Sentiment:
• Sentiment Score: -0.271 (NEUTRAL)
• News Articles: 19
• Trend: STABLE

Asset: MYK

Sector: Financial Services
Current Price: $81.69
Market Cap: $39.79B
Risk Rating: RED
Risk Metrics:
• Volatility: 43.1%
• Maximum Drawdown: -50.1%
• Beta: -0.04
• Sharpe Ratio: -0.76
• RSI: 66.8
Performance:
• 1-Month Return: 13.8%
• 3-Month Return: 18.1%
• 6-Month Return: 9.5%
Risk Flags:
• High Volatility, Extreme Drawdown, Poor Risk Return
Market Sentiment:
• Sentiment Score: -0.389 (NEGATIVE)
• News Articles: 27
• Trend: DETERIORATING

Asset: RFN

Sector: Consumer Discretionary
Current Price: $133.41
Market Cap: $50.90B
Risk Rating: RED
Risk Metrics:
• Volatility: 21.8%
• Maximum Drawdown: -39.4%
• Beta: -0.06
• Sharpe Ratio: -2.09
• RSI: 41.4
Performance:
• 1-Month Return: -9.7%
• 3-Month Return: -21.9%

• 6-Month Return: -22.4%
Risk Flags:
• Extreme Drawdown, Poor Risk Return
Market Sentiment:
• Sentiment Score: -0.308 (NEGATIVE)
• News Articles: 30
• Trend: IMPROVING

Recommendations

Based on the comprehensive risk analysis, the following recommendations are provided:
Immediate Actions (RED-flagged assets):
1. Consider reducing position sizes for 17 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 0 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 10 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: $-0.3 \leq$ Score ≤ 0.3

Report Generation Details:
• Generated: 2025-10-14 07:41:13
• Analysis Period: 12 months
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