

Portfolio Risk Analysis Report

Report Date: February 22, 2026
Portfolio Size: 100 Assets
Analysis Period: 12 Months
Generated by: Automated Risk Analysis Pipeline

Risk Assessment Summary

HIGH RISK (RED): 15 Assets
MEDIUM RISK (YELLOW): 0 Assets
LOW RISK (GREEN): 85 Assets

Executive Summary

This report presents a comprehensive risk analysis of a portfolio containing 100 assets with a combined market capitalization of \$13091.3 billion. **Key Findings:** • 15 assets (15.0%) are rated as HIGH RISK (RED) • 0 assets (0.0%) are rated as MEDIUM RISK (YELLOW) • Average portfolio volatility: 49.2% • Maximum drawdown observed: -87.3% **Risk Concentration:** The analysis reveals significant risk concentration in 15 assets requiring immediate attention and potential portfolio rebalancing. **Sentiment Analysis:** • 10 RED-flagged assets show negative market sentiment • Average sentiment score for flagged assets: -0.337 • News coverage indicates heightened market concern for these positions

Portfolio Overview

Sector Allocation

| Sector | Assets | Market Cap (\$B) | Percentage |
|------------------------|--------|------------------|------------|
| Technology | 9 | 2732.46 | 20.9% |
| Industrial | 13 | 2238.92 | 17.1% |
| Healthcare | 10 | 1629.40 | 12.4% |
| Materials | 14 | 1342.90 | 10.3% |
| Energy | 11 | 1169.09 | 8.9% |
| Financial Services | 12 | 1113.53 | 8.5% |
| Consumer Staples | 10 | 1100.36 | 8.4% |
| Consumer Discretionary | 13 | 1005.14 | 7.7% |
| Real Estate | 8 | 759.53 | 5.8% |

Risk Analysis Results

Risk Distribution:

- HIGH RISK (RED): 15 assets
- MEDIUM RISK (YELLOW): 0 assets
- LOW RISK (GREEN): 85 assets

High Risk Assets

| Symbol | Sector | Risk Rating | Volatility | Max Drawdown | Risk Score |
|--------|------------------|-------------|------------|--------------|------------|
| GKZ | Consumer Staples | RED | 67.2% | -42.1% | 5 |
| RTM | Materials | RED | 54.6% | -50.8% | 5 |
| DR | Healthcare | RED | 70.8% | -47.0% | 5 |
| SBXD | Materials | RED | 66.9% | -52.5% | 5 |
| PT | Consumer Staples | RED | 59.2% | -67.4% | 4 |
| CDU | Healthcare | RED | 164.1% | -71.9% | 2 |

| | | | | | |
|------|------------------------|-----|--------|--------|---|
| TYX | Industrial | RED | 50.6% | -29.5% | 2 |
| MEL | Materials | RED | 69.8% | -62.2% | 2 |
| RTLO | Consumer Staples | RED | 105.6% | -68.3% | 2 |
| AY | Technology | RED | 365.8% | -87.3% | 2 |
| DHS | Energy | RED | 67.0% | -59.2% | 2 |
| VLNM | Consumer Discretionary | RED | 183.1% | -79.6% | 2 |
| CTVR | Consumer Discretionary | RED | 46.8% | -42.1% | 2 |
| PHS | Energy | RED | 142.5% | -75.2% | 2 |
| VSO | Energy | RED | 106.3% | -76.5% | 2 |

Machine Learning Analysis

Advanced machine learning techniques were applied to identify anomalies and predict future risk ratings. **Anomaly Detection Summary:**

- Total Anomalies Detected: 15
- Critical Anomalies: 1
- High Risk Anomalies: 6
- Anomaly Rate: 15.0%

Risk Prediction Model:

- Model Accuracy: 100.0%
- Rating Changes Predicted: 0
- Assets Predicted to Deteriorate: 0
- Assets Predicted to Improve: 0

Key Machine Learning Insights

- 1 assets show critical anomalous behavior requiring immediate review
- Anomaly detection identified 15 assets with unusual patterns
- Key risk drivers: Max Drawdown, Volatility, Sharpe Ratio

Critical Anomalies Detected

| Symbol | Sector | Anomaly Score | Severity | Recommendation |
|--------|------------------------|---------------|----------|---|
| AY | Technology | 100.0 | CRITICAL | Critical anomaly - Consider immediate po... |
| CDU | Healthcare | 69.5 | HIGH | Significant anomaly - Conduct thorough d... |
| PHS | Energy | 67.3 | HIGH | Significant anomaly - Conduct thorough d... |
| VLNM | Consumer Discretionary | 62.8 | HIGH | Significant anomaly - Conduct thorough d... |
| SBXD | Materials | 62.4 | HIGH | Significant anomaly - Conduct thorough d... |
| DHS | Energy | 60.7 | HIGH | Significant anomaly - Conduct thorough d... |
| RTM | Materials | 60.2 | HIGH | Significant anomaly - Conduct thorough d... |

Top Risk Factors (Feature Importance)

- 1. Max Drawdown: 40.9% importance
- 2. Volatility: 28.9% importance
- 3. Sharpe Ratio: 18.0% importance
- 4. Price Change 3M: 3.8% importance
- 5. Price Change 6M: 2.6% importance

ML Validation Results

Overall Validation Status: WARNING
Checks Passed: 3 / 4

✓ **Anomaly Detection Validation:** PASS
total_assets: 100, anomalies_detected: 15, anomaly_rate: 15.0
■ **Risk Prediction Validation:** WARNING
model_accuracy: 100.0, predictions_made: 100, rating_changes: 0
✓ **Feature Quality Validation:** PASS
features_checked: 9, nan_features: 0, total_samples: 100
✓ **Feature Importance Validation:** PASS
total_importance: 100.0, top_feature: Max Drawdown, top_importance: 40.9

Validation Warnings (1):
1. Suspiciously high accuracy: 100.0% (possible overfitting)

Sentiment Analysis

Sentiment analysis was conducted on 15 RED-flagged assets using financial news from the past 12 months. **Key Findings:**

- Average sentiment score: -0.337
- Assets with negative sentiment: 10/15
- Total news articles analyzed: 346

Sentiment Analysis Results

| Symbol | Sentiment Score | Label | News Count | Trend | Key Themes |
|--------|-----------------|----------|------------|---------------|--|
| VLNM | -0.481 | NEGATIVE | 19 | DETERIORATING | regulatory, financial_health, earnings |
| GKZ | -0.406 | NEGATIVE | 22 | IMPROVING | earnings, financial_health, regulatory |
| CDU | -0.400 | NEGATIVE | 24 | STABLE | earnings, regulatory, market_share |
| SBXD | -0.386 | NEGATIVE | 19 | DETERIORATING | earnings, operations, market_share |
| RTLO | -0.379 | NEGATIVE | 30 | IMPROVING | financial_health, earnings, regulatory |
| DR | -0.379 | NEGATIVE | 20 | STABLE | regulatory, management, operations |
| TYX | -0.377 | NEGATIVE | 23 | DETERIORATING | earnings, financial_health, operations |
| VSO | -0.357 | NEGATIVE | 26 | STABLE | regulatory, operations, earnings |
| AY | -0.350 | NEGATIVE | 23 | IMPROVING | regulatory, earnings, operations |
| RTM | -0.314 | NEGATIVE | 22 | STABLE | earnings, regulatory, management |
| PHS | -0.283 | NEUTRAL | 15 | IMPROVING | regulatory, earnings, operations |
| MEL | -0.273 | NEUTRAL | 28 | DETERIORATING | regulatory, financial_health, earnings |

| | | | | | |
|------|--------|---------|----|---------------|--|
| CTVR | -0.273 | NEUTRAL | 20 | DETERIORATING | regulatory, financial_health, operations |
| PT | -0.270 | NEUTRAL | 28 | STABLE | operations, regulatory, earnings |
| DHS | -0.129 | NEUTRAL | 27 | DETERIORATING | earnings, regulatory, management |

Detailed Asset Analysis

Asset: GKZ

Sector: Consumer Staples
Current Price: \$109.20
Market Cap: \$200.08B
Risk Rating: RED
Risk Metrics:

- Volatility: 67.2%
- Maximum Drawdown: -42.1%
- Beta: -0.27
- Sharpe Ratio: 0.19
- RSI: 33.8

Performance:

- 1-Month Return: -29.8%
- 3-Month Return: -25.9%
- 6-Month Return: -12.4%

Risk Flags:

- High Volatility, Extreme Drawdown, Severe Decline, Extended Decline, Momentum Breakdown

Market Sentiment:

- Sentiment Score: -0.406 (NEGATIVE)
- News Articles: 22
- Trend: IMPROVING

Asset: RTM

Sector: Materials
Current Price: \$161.16
Market Cap: \$193.00B
Risk Rating: RED
Risk Metrics:

- Volatility: 54.6%
- Maximum Drawdown: -50.8%
- Beta: 0.06
- Sharpe Ratio: -0.30
- RSI: 18.9

Performance:

- 1-Month Return: -38.3%
- 3-Month Return: -47.2%
- 6-Month Return: -35.0%

Risk Flags:

- High Volatility, Extreme Drawdown, Severe Decline, Extended Decline, Momentum Breakdown

Market Sentiment:

- Sentiment Score: -0.314 (NEGATIVE)
- News Articles: 22
- Trend: STABLE

Asset: DR

Sector: Healthcare

Current Price: \$328.29

Market Cap: \$285.72B

Risk Rating: RED

Risk Metrics:

- Volatility: 70.8%
- Maximum Drawdown: -47.0%
- Beta: -0.13
- Sharpe Ratio: 0.12
- RSI: 32.2

Performance:

- 1-Month Return: -33.4%
- 3-Month Return: -27.8%
- 6-Month Return: -28.0%

Risk Flags:

- High Volatility, Extreme Drawdown, Severe Decline, Extended Decline, Momentum Breakdown

Market Sentiment:

- Sentiment Score: -0.379 (NEGATIVE)
- News Articles: 20
- Trend: STABLE

Asset: SBXD

Sector: Materials

Current Price: \$190.30

Market Cap: \$204.70B

Risk Rating: RED

Risk Metrics:

- Volatility: 66.9%
- Maximum Drawdown: -52.5%
- Beta: 0.25
- Sharpe Ratio: -0.08
- RSI: 16.7

Performance:

- 1-Month Return: -47.2%
- 3-Month Return: -48.4%
- 6-Month Return: -43.8%

Risk Flags:

- High Volatility, Extreme Drawdown, Severe Decline, Extended Decline, Momentum Breakdown

Market Sentiment:

- Sentiment Score: -0.386 (NEGATIVE)
- News Articles: 19
- Trend: DETERIORATING

Asset: PT

Sector: Consumer Staples

Current Price: \$59.79

Market Cap: \$19.59B

Risk Rating: RED

Risk Metrics:

- Volatility: 59.2%
- Maximum Drawdown: -67.4%
- Beta: -0.17
- Sharpe Ratio: -0.54
- RSI: 62.8

Performance:

- 1-Month Return: 9.9%
- 3-Month Return: -29.9%
- 6-Month Return: -24.9%

Risk Flags:

- High Volatility, Extreme Drawdown, Extended Decline, Poor Risk Return

Market Sentiment:

- Sentiment Score: -0.270 (NEUTRAL)
- News Articles: 28
- Trend: STABLE

Recommendations

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

Immediate Actions (RED-flagged assets):

1. Consider reducing position sizes for 15 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: $-0.3 \leq \text{Score} \leq 0.3$

Report Generation Details:

- Generated: 2026-02-22 20:36:57
- Analysis Period: 12 months
- Total Assets Analyzed: 100
- Pipeline Version: 1.0

Test Data - Portfolio Details

Complete portfolio and risk analysis data has been exported to CSV files for further analysis:

Portfolio Data CSV: portfolio_data_20260222_203657.csv

Risk Analysis CSV: risk_analysis_20260222_203657.csv

The tables below provide summary information for quick reference.

Performance Metrics Data

| Symbol | 1M Return | 3M Return | 6M Return | Vol Decline | Sharpe Ratio |
|--------|-----------|-----------|-----------|-------------|--------------|
| AD | 3.9% | 3.6% | 10.1% | 0.6% | 0.67 |
| AHP | -0.5% | 8.4% | 9.9% | -2.0% | 0.77 |
| AJL | 0.7% | 2.9% | 11.6% | 2.1% | 0.66 |
| APX | -0.6% | 6.2% | 11.0% | 0.4% | 0.59 |
| ATR | 4.2% | 5.7% | 13.1% | 1.4% | 0.67 |
| AUZ | 2.1% | 6.5% | 13.0% | 0.7% | 0.78 |
| AY | 305.8% | 337.2% | 101.3% | -4.6% | 0.50 |
| BB | 3.9% | 6.1% | 7.0% | 3.1% | 0.65 |
| BE | 2.6% | 4.2% | 14.2% | 0.9% | 0.84 |
| BMC | -0.3% | 4.4% | 5.8% | 1.4% | 0.58 |
| BO | 2.9% | 1.0% | 7.4% | -0.0% | 0.66 |
| BR | -0.4% | 2.0% | 8.8% | -1.3% | 0.48 |
| BXI | 2.5% | 5.8% | 10.6% | 0.5% | 0.67 |
| BYE | 0.8% | 6.5% | 10.1% | 1.2% | 0.53 |
| CAVQ | 4.5% | 6.5% | 9.8% | 1.0% | 0.73 |
| CC | 3.7% | 0.7% | 6.8% | 1.3% | 0.54 |
| CDU | 171.7% | 126.4% | 67.5% | 12.8% | 0.32 |
| CFOR | 1.8% | 4.7% | 10.7% | 1.5% | 0.60 |
| CH | 2.5% | 3.0% | 7.7% | 0.7% | 0.43 |
| CMG | 3.4% | 3.3% | 10.8% | 0.6% | 0.64 |
| CTVR | 9.4% | -13.2% | -15.8% | -19.1% | -0.08 |
| DEW | 2.4% | 2.6% | 8.8% | -0.2% | 0.68 |
| DFI | -0.2% | 3.0% | 11.0% | -0.3% | 0.72 |
| DH | -1.2% | 4.7% | 11.9% | -0.1% | 0.57 |
| DHS | 31.6% | 34.0% | 12.0% | -17.0% | -0.37 |
| DJMI | 1.3% | 5.5% | 13.3% | 0.9% | 0.60 |
| DLR | 1.1% | 4.5% | 5.3% | -0.1% | 0.43 |
| DQY | 4.5% | 3.7% | 13.5% | -0.1% | 0.70 |
| DR | -33.4% | -27.8% | -28.0% | -14.5% | 0.12 |
| DS | 1.8% | 6.2% | 5.5% | 1.0% | 0.56 |

| | | | | | |
|------|--------|--------|--------|--------|-------|
| DXQ | -1.0% | 1.3% | 8.8% | 0.9% | 0.49 |
| GAUD | 1.8% | 6.0% | 11.9% | -0.1% | 0.65 |
| GDY | 0.9% | 4.1% | 8.6% | 2.2% | 0.43 |
| GH | 3.4% | 3.5% | 8.4% | 3.9% | 0.78 |
| GI | 2.1% | 6.8% | 9.5% | -0.7% | 0.83 |
| GKKZ | 0.6% | 4.2% | 9.4% | 0.5% | 0.75 |
| GKZ | -29.8% | -25.9% | -12.4% | -6.2% | 0.19 |
| GSGO | -1.5% | 2.8% | 11.3% | -0.6% | 0.52 |
| MEL | 19.9% | -5.1% | -44.6% | -10.0% | 0.06 |
| MJD | 3.9% | 4.9% | 9.5% | 2.6% | 0.60 |
| MM | 4.2% | 1.9% | 11.8% | 1.2% | 0.71 |
| MOC | 3.6% | 7.2% | 11.1% | 0.9% | 0.61 |
| MUBX | -0.5% | 4.4% | 6.2% | 1.9% | 0.49 |
| MUUR | 0.2% | 7.2% | 11.1% | 0.8% | 0.70 |
| MVJ | 0.1% | 4.2% | 8.1% | 1.7% | 0.59 |
| NBS | 2.4% | 1.8% | 6.5% | -1.5% | 0.66 |
| NF | 3.2% | 2.4% | 6.2% | 0.6% | 0.42 |
| NJID | 2.2% | 6.2% | 8.8% | -0.2% | 0.51 |
| NY | -0.8% | 5.1% | 5.0% | 0.8% | 0.53 |
| PBDA | 4.4% | 4.8% | 12.0% | 0.2% | 0.58 |
| PCW | -1.8% | 0.6% | 5.9% | 3.0% | 0.52 |
| PD | 2.5% | 3.9% | 9.3% | 1.6% | 0.50 |
| PFD | 3.3% | 3.3% | 10.3% | 1.3% | 0.62 |
| PFG | 3.2% | 3.2% | 10.8% | 2.1% | 0.82 |
| PHS | 133.7% | 85.0% | 84.6% | 9.0% | 0.25 |
| PIOV | 3.9% | 7.5% | 10.0% | -0.5% | 0.70 |
| PMZ | 2.0% | 7.0% | 11.6% | 1.3% | 0.66 |
| PNM | -1.0% | 5.4% | 6.0% | 1.2% | 0.50 |
| PP | 0.3% | 1.7% | 6.9% | 1.4% | 0.46 |
| PPH | 2.5% | 3.9% | 10.5% | -0.4% | 0.64 |
| PT | 9.9% | -29.9% | -24.9% | -5.3% | -0.54 |
| RAO | 1.6% | 8.1% | 14.2% | 1.1% | 0.74 |
| RFPL | -0.7% | 1.9% | 4.2% | -0.1% | 0.41 |
| RKIH | 4.8% | 6.4% | 9.5% | 0.3% | 0.71 |
| RO | 3.3% | 6.5% | 13.7% | 2.4% | 0.71 |
| ROD | 4.3% | 7.5% | 12.1% | 2.2% | 0.82 |
| RQF | 0.9% | 4.5% | 6.6% | 1.1% | 0.50 |
| RTLO | 69.2% | 98.4% | 4.8% | 3.7% | 0.10 |
| RTM | -38.3% | -47.2% | -35.0% | 4.4% | -0.30 |
| RUA | 3.7% | 5.2% | 7.8% | 1.6% | 0.55 |
| RUN | -1.4% | 1.9% | 9.8% | 1.8% | 0.54 |

| | | | | | |
|------|--------|--------|--------|--------|-------|
| RURJ | 1.3% | 3.5% | 9.1% | -0.4% | 0.62 |
| RZG | 1.2% | 3.2% | 5.5% | -3.0% | 0.55 |
| SBXD | -47.2% | -48.4% | -43.8% | -11.4% | -0.08 |
| SIC | 3.9% | 5.4% | 8.5% | 1.4% | 0.51 |
| SNTB | -1.1% | 4.8% | 8.4% | 0.6% | 0.70 |
| TBW | -0.0% | 5.0% | 14.0% | -0.9% | 0.78 |
| TFNF | 4.0% | 4.4% | 15.0% | 2.2% | 0.83 |
| TH | 3.1% | 2.7% | 7.1% | -0.4% | 0.57 |
| THTF | 0.1% | 7.3% | 10.4% | 0.6% | 0.57 |
| TJOG | 1.1% | 5.5% | 7.7% | 2.9% | 0.50 |
| TYX | -10.6% | -0.2% | -18.2% | -11.7% | -0.24 |
| VH | 4.0% | 3.9% | 9.4% | 2.0% | 0.67 |
| VHJ | 0.8% | 6.9% | 7.4% | 2.1% | 0.57 |
| VLNM | 95.9% | 13.2% | -17.7% | 9.6% | 0.19 |
| VPGA | 1.1% | 4.3% | 11.2% | -0.2% | 0.74 |
| VRR | 1.5% | 0.2% | 8.5% | 1.1% | 0.50 |
| VSO | 91.3% | 41.6% | -11.0% | -2.6% | 0.06 |
| VTBN | -1.0% | 3.2% | 10.2% | -0.3% | 0.67 |
| XBD | 2.1% | 1.8% | 10.8% | -0.7% | 0.51 |
| XBF | -1.0% | 4.4% | 12.2% | 1.2% | 0.64 |
| XD | 0.2% | 6.2% | 6.1% | 1.7% | 0.57 |
| XJNJ | -1.5% | 5.3% | 8.8% | -2.1% | 0.38 |
| XNQ | 2.9% | 1.3% | 6.0% | 0.3% | 0.55 |
| ZEJ | -1.3% | 4.7% | 6.3% | 1.4% | 0.54 |
| ZN | 3.5% | 2.8% | 10.2% | 0.5% | 0.66 |
| ZR | -1.3% | 4.0% | 6.3% | 0.6% | 0.60 |
| ZR | 2.2% | 6.5% | 8.6% | -0.9% | 0.63 |
| ZRL | 1.4% | 2.8% | 9.9% | 4.3% | 0.47 |
| ZZJ | 2.3% | 7.0% | 7.1% | -0.8% | 0.68 |

Risk Flags Details

| Symbol | High Vol | Ext. DD | Vol Collapse | Severe Dec | Ext. Dec | Poor Sharpe | Mom. Break |
|--------|----------|---------|--------------|------------|----------|-------------|------------|
| GKZ | ✓ | ✓ | ✗ | ✓ | ✓ | ✗ | ✓ |
| RTM | ✓ | ✓ | ✗ | ✓ | ✓ | ✗ | ✓ |
| DR | ✓ | ✓ | ✗ | ✓ | ✓ | ✗ | ✓ |
| SBXD | ✓ | ✓ | ✗ | ✓ | ✓ | ✗ | ✓ |
| PT | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ | ✗ |
| CDU | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| TYX | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |

| | | | | | | | |
|------|---|---|---|---|---|---|---|
| MEL | ✓ | ✓ | X | X | X | X | X |
| RTLO | ✓ | ✓ | X | X | X | X | X |
| AY | ✓ | ✓ | X | X | X | X | X |
| DHS | ✓ | ✓ | X | X | X | X | X |
| VLNM | ✓ | ✓ | X | X | X | X | X |
| CTVR | ✓ | ✓ | X | X | X | X | X |
| PHS | ✓ | ✓ | X | X | X | X | X |
| VSO | ✓ | ✓ | X | X | X | X | X |
| DS | ✓ | X | X | X | X | X | X |
| NF | ✓ | X | X | X | X | X | X |
| GH | ✓ | X | X | X | X | X | X |
| TH | ✓ | X | X | X | X | X | X |
| ZZJ | ✓ | X | X | X | X | X | X |
| ROD | ✓ | X | X | X | X | X | X |
| XNQ | ✓ | X | X | X | X | X | X |
| BXI | ✓ | X | X | X | X | X | X |
| PP | ✓ | X | X | X | X | X | X |
| MUBX | ✓ | X | X | X | X | X | X |
| MOC | ✓ | X | X | X | X | X | X |
| PBDA | ✓ | X | X | X | X | X | X |
| PCW | ✓ | X | X | X | X | X | X |
| XD | ✓ | X | X | X | X | X | X |
| DQY | ✓ | X | X | X | X | X | X |
| GKKZ | ✓ | X | X | X | X | X | X |
| TBW | ✓ | X | X | X | X | X | X |
| RKIH | ✓ | X | X | X | X | X | X |
| ATR | ✓ | X | X | X | X | X | X |
| CMG | ✓ | X | X | X | X | X | X |
| AJL | ✓ | X | X | X | X | X | X |
| ZR | ✓ | X | X | X | X | X | X |
| GSGO | ✓ | X | X | X | X | X | X |
| GI | X | X | X | X | X | X | X |
| PMZ | X | X | X | X | X | X | X |
| BO | X | X | X | X | X | X | X |
| VRR | X | X | X | X | X | X | X |
| THTF | X | X | X | X | X | X | X |
| AHP | X | X | X | X | X | X | X |
| PNM | X | X | X | X | X | X | X |
| RURJ | X | X | X | X | X | X | X |
| NJID | X | X | X | X | X | X | X |
| PD | X | X | X | X | X | X | X |

| | | | | | | | |
|------|---|---|---|---|---|---|---|
| TFNF | X | X | X | X | X | X | X |
| TJOG | X | X | X | X | X | X | X |
| ZEJ | X | X | X | X | X | X | X |
| MJD | X | X | X | X | X | X | X |
| DH | X | X | X | X | X | X | X |
| XJNJ | X | X | X | X | X | X | X |
| RUA | X | X | X | X | X | X | X |
| RUN | X | X | X | X | X | X | X |
| AD | X | X | X | X | X | X | X |
| APX | X | X | X | X | X | X | X |
| VH | X | X | X | X | X | X | X |
| BB | X | X | X | X | X | X | X |
| BYE | X | X | X | X | X | X | X |
| SIC | X | X | X | X | X | X | X |
| PPH | X | X | X | X | X | X | X |
| GDY | X | X | X | X | X | X | X |
| DFI | X | X | X | X | X | X | X |
| CC | X | X | X | X | X | X | X |
| NBS | X | X | X | X | X | X | X |
| MM | X | X | X | X | X | X | X |
| AUZ | X | X | X | X | X | X | X |
| PFG | X | X | X | X | X | X | X |
| RAO | X | X | X | X | X | X | X |
| RFPL | X | X | X | X | X | X | X |
| ZR | X | X | X | X | X | X | X |
| CAVQ | X | X | X | X | X | X | X |
| DLR | X | X | X | X | X | X | X |
| BMC | X | X | X | X | X | X | X |
| ZRL | X | X | X | X | X | X | X |
| VPGA | X | X | X | X | X | X | X |
| DJMI | X | X | X | X | X | X | X |
| VHJ | X | X | X | X | X | X | X |
| XBF | X | X | X | X | X | X | X |
| RO | X | X | X | X | X | X | X |
| CH | X | X | X | X | X | X | X |
| CFOR | X | X | X | X | X | X | X |
| BE | X | X | X | X | X | X | X |
| RZG | X | X | X | X | X | X | X |
| PIOV | X | X | X | X | X | X | X |
| GAUD | X | X | X | X | X | X | X |
| ZN | X | X | X | X | X | X | X |

| | | | | | | | |
|------|---|---|---|---|---|---|---|
| MUUR | X | X | X | X | X | X | X |
| MVJ | X | X | X | X | X | X | X |
| NY | X | X | X | X | X | X | X |
| SNTB | X | X | X | X | X | X | X |
| VTBN | X | X | X | X | X | X | X |
| DEW | X | X | X | X | X | X | X |
| BR | X | X | X | X | X | X | X |
| PFD | X | X | X | X | X | X | X |
| DXQ | X | X | X | X | X | X | X |
| RQF | X | X | X | X | X | X | X |
| XBD | X | X | X | X | X | X | X |

Data Summary:

- Total Assets: 100
- Data Generated: 2026-02-22 20:36:57
- Note: This test data is provided for further analysis, validation, and detailed review purposes.
- All metrics are calculated from 252 trading days of historical data.