

# Enhanced QOL Framework Analysis - 1 Scenarios

Enhanced Analysis Report  
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# Executive Summary

This enhanced analysis examined 1 retirement scenario using advanced Monte Carlo simulation with depletion analysis. The analysis provides comprehensive depletion risk assessment for each portfolio scenario. **Key Findings:**

- Total scenarios analyzed: 1
- Average survival rate: 100.0%
- Advanced depletion risk modeling
- Comprehensive portfolio sustainability analysis

## Scenario Details

### Traditional 4% Rule (High Depletion Risk)

**Portfolio Configuration:**

- Starting Portfolio: \$400,000
- Starting Age: 55 years
- Time Horizon: 40 years
- Simulations: 1,000
- Volatility: 15.0%

**Enhanced Analysis Results:**

- Depletion Risk: 0.0%
- Survival Rate: 100.0%
- Mean Final Value: \$1,615,208
- Median Final Value: \$646,817
- Survival at Age 90: 100.0%

# Methodology

## Enhanced Analysis Framework:

This report uses advanced Monte Carlo simulation with comprehensive depletion analysis to assess portfolio sustainability throughout retirement. **Key Features:**

- Monte Carlo simulation with 1,000+ scenarios per analysis
- Depletion risk assessment with survival probability modeling
- Dynamic withdrawal strategies based on the Hauenstein QOL Framework
- Market volatility and inflation variability modeling
- Comprehensive risk metrics including worst-case scenario analysis

## Risk Metrics:

- **Depletion Risk:** Probability of portfolio depletion before end of horizon
- **Survival Rate:** Percentage of scenarios with positive portfolio balance
- **Survival at Age 90:** Portfolio sustainability to advanced age
- **Value at Risk (VaR):** 5th percentile outcomes for stress testing