

Protective Put Hedge Analysis: EOSE

Analysis Date: November 16, 2025

Portfolio Overview

| | | | |
|----------------|----------------|--------------------|----------------|
| Current Price: | \$13.80 | Expected Low: | \$1.49 |
| Shares Held: | 400 | Expected High: | \$26.28 |
| Budget Target: | \$100 | Annual Volatility: | 109.6% |

50% Price Decline Scenario Analysis

| | | |
|-------------------------|----|----------------------------------|
| Unhedged Portfolio P/L: | \$ | -2,760 |
| Hedged Portfolio P/L: | \$ | 272 |
| Hedge Benefit: | \$ | 3,032 (109.9% protection) |

Recommended Hedge Positions

Optimal Put Options Strategy for EOSE

| Strike | Premium | Contracts | DTE | Expiration | Cost | ITM Prob | Efficiency |
|--------------|---------|-----------|-----|------------|-------------|----------|------------|
| \$10.50 | \$0.06 | 4 | 5d | 2025-11-21 | \$24 | 95.5% | 2119.7 |
| \$9.00 | \$0.04 | 4 | 12d | 2025-11-28 | \$16 | 95.2% | 1342.8 |
| \$9.00 | \$0.12 | 4 | 19d | 2025-12-05 | \$48 | 89.8% | 422.1 |
| TOTAL | - | - | - | - | \$88 | - | - |

Strategy Summary

Total Investment: \$88

Total Contracts: 12

Average DTE: 12 days

Average Efficiency Score: 1294.8

Portfolio Coverage: 300%

Portfolio Risk Assessment

Value at Risk & Position Analysis

| Risk Metric | Value |
|-----------------------------------|------------|
| Portfolio Value | \$5,520 |
| Position Size | 400 shares |
| Daily Value at Risk (1σ) | \$381 |
| Expected Loss (50% drop) | \$2,760 |
| Hedge Budget | \$100 |
| Budget as % of Portfolio | 1.81% |

Downside Scenario Analysis

Hedge Performance Across Multiple Price Declines

| Scenario | Price | Unhedged P/L | Hedged P/L | Benefit | Protection |
|-------------|---------|--------------|------------|---------|------------|
| 10% Decline | \$12.42 | \$-552 | \$-640 | \$-88 | -15.9% |
| 25% Decline | \$10.35 | \$-1,380 | \$-1,408 | \$-28 | -2.0% |
| 50% Decline | \$6.90 | \$-2,760 | \$272 | \$3,032 | 109.9% |
| 75% Decline | \$3.45 | \$-4,140 | \$3,032 | \$7,172 | 173.2% |

Figure 1: EOSE Price History with Forward Projections & Put Strikes

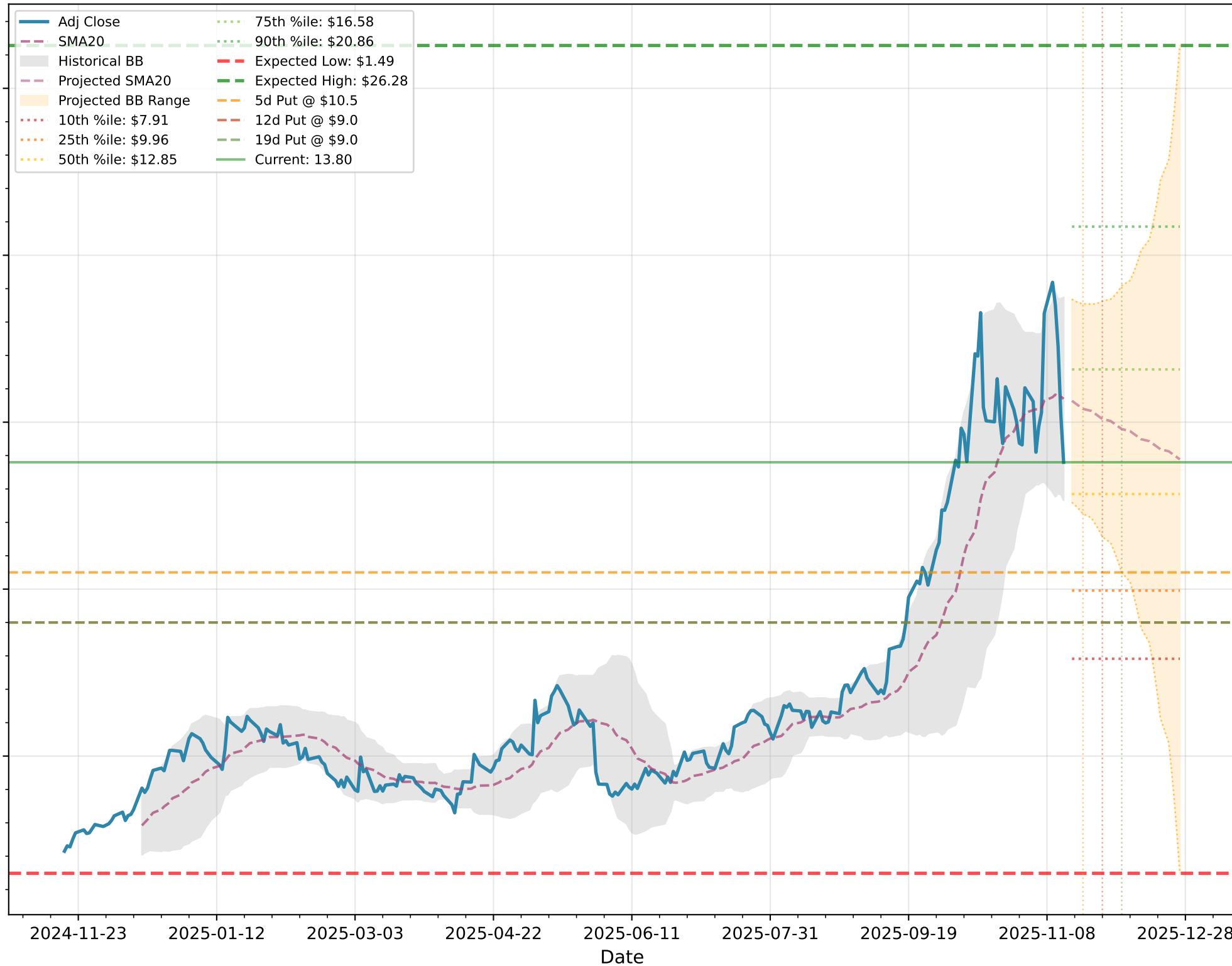


Figure 2: P/L Comparison: Hedged vs Unhedged

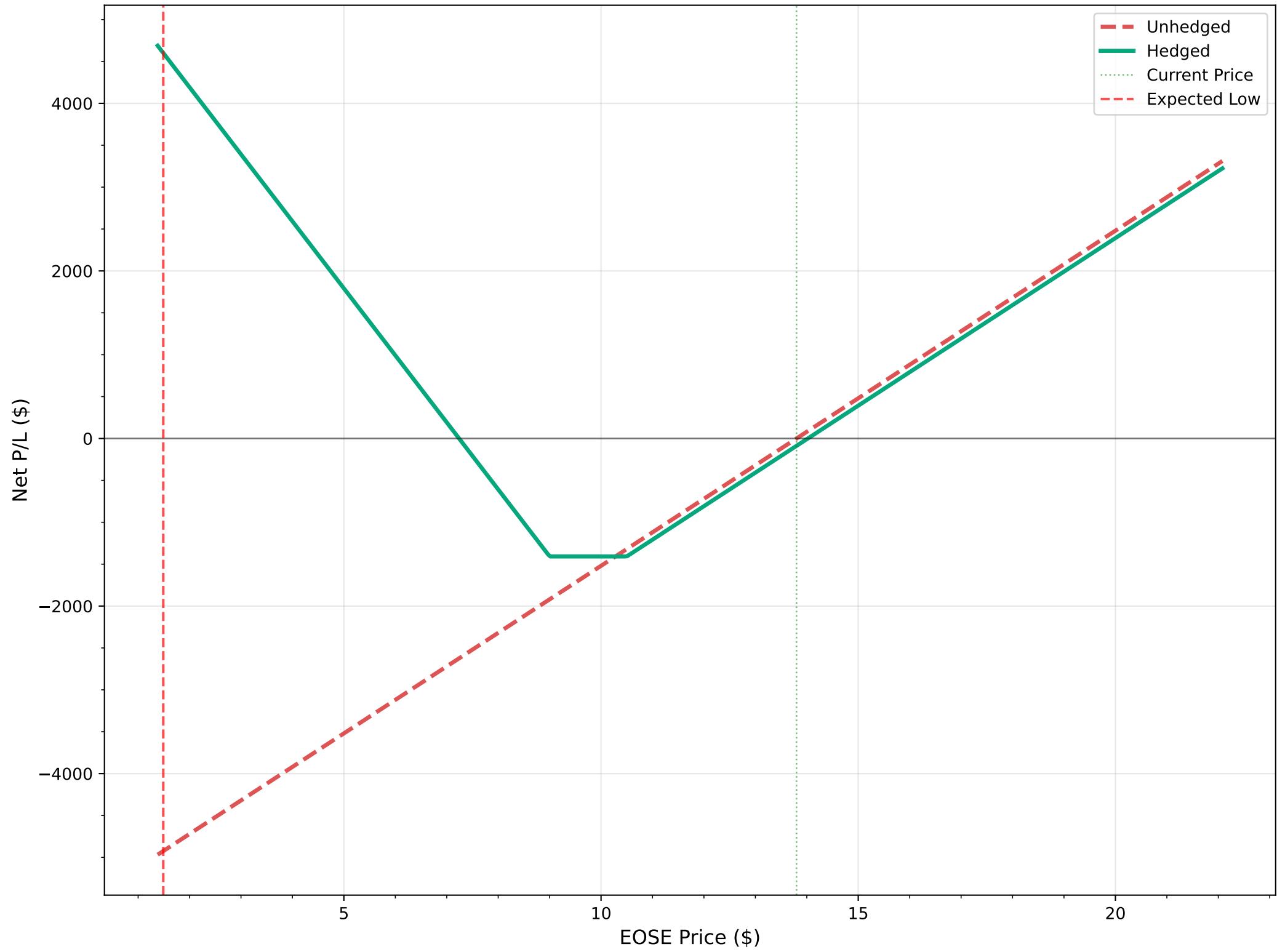


Figure 4: Put Options Efficiency Analysis

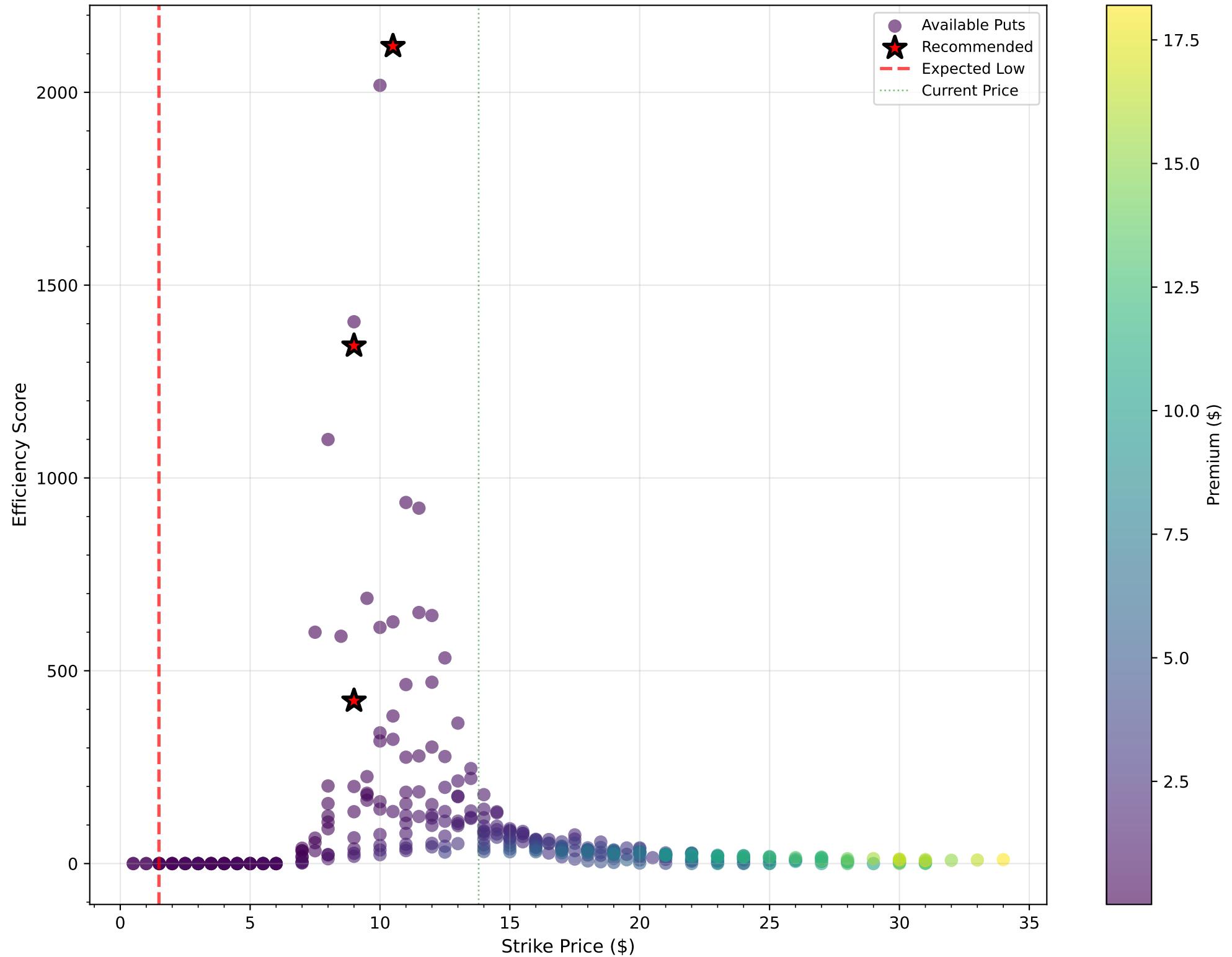
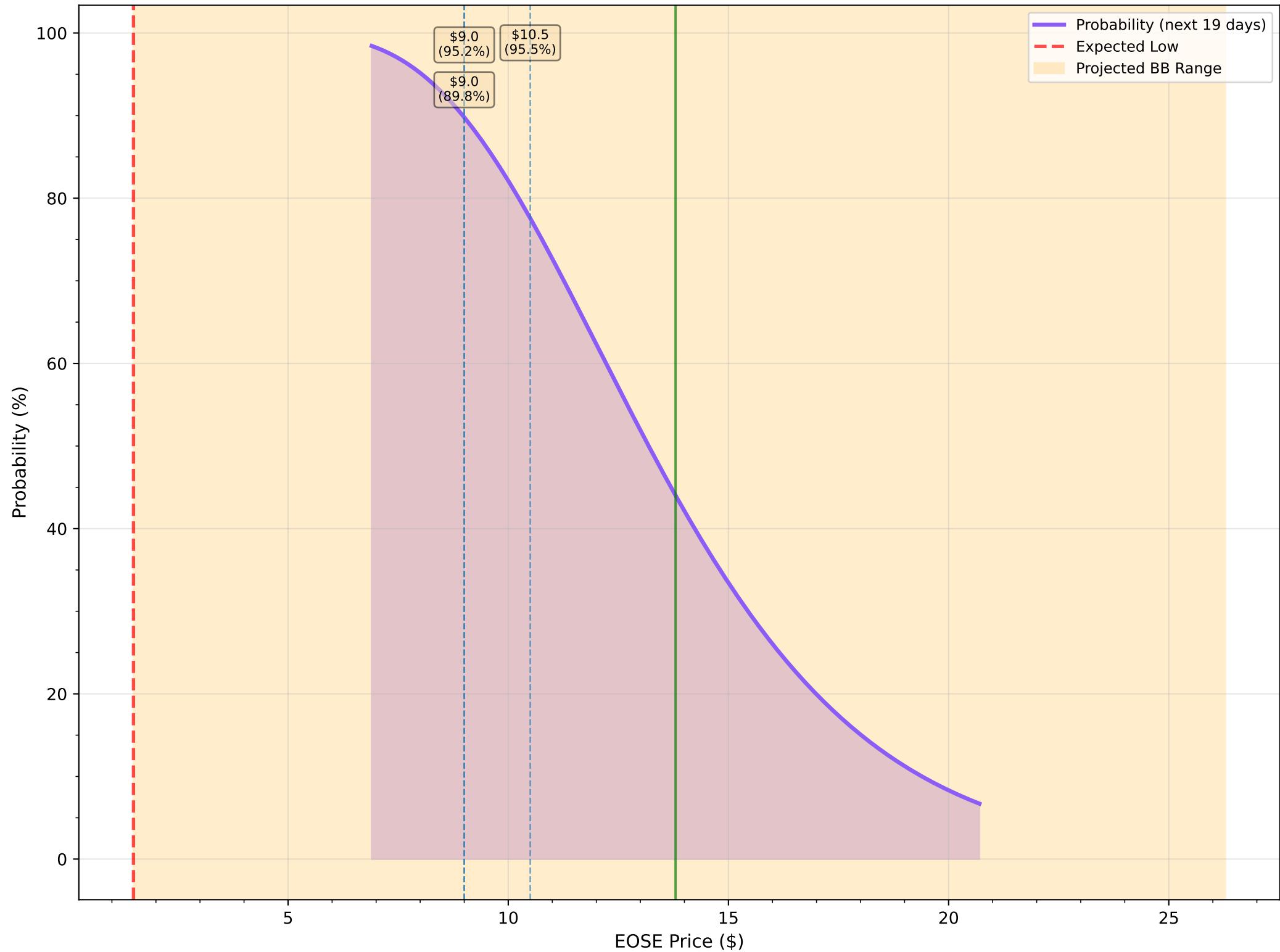


Figure 5: Probability Distribution & Put Strike Analysis



Hedge Positions: Detailed Analysis

Position-by-Position Breakdown & Performance Metrics

Position Details

| Pos | Strike | Expiration | DTE | Contracts |
|------------|---------|------------|-----|-----------|
| P1 | \$10.50 | 11/21/25 | 5d | 4 |
| P2 | \$9.00 | 11/28/25 | 12d | 4 |
| P3 | \$9.00 | 12/05/25 | 19d | 4 |
| TOT | - | - | - | 12 |

Financial Metrics

| Pos | Premium | Cost | ITM% | Value@50% | ROI% |
|------------|---------|-------------|------|----------------|---------------|
| P1 | \$0.06 | \$24 | 95.5 | \$1,416 | 5900.0 |
| P2 | \$0.04 | \$16 | 95.2 | \$824 | 5150.0 |
| P3 | \$0.12 | \$48 | 89.8 | \$792 | 1650.0 |
| TOT | - | \$88 | - | \$3,032 | 3445.5 |

Portfolio Summary Statistics

Total Premium:

\$88

Hedge Benefit (50% drop):

\$3,032

Protection Level:

109.9%

Annual Volatility: 109.6% | Analysis based on 365-day historical data