

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:	\$75	Annual Volatility:	109.6%

90% Price Decline Scenario Analysis

Unhedged Portfolio P/L:	\$	-4,968
Hedged Portfolio P/L:	\$	634
Hedge Benefit:	\$	5,602 (112.8% 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
\$11.50	\$0.23	2	12d	2025-11-28	\$46	74.0%	651.1
TOTAL	-	-	-	-	\$70	-	-

Strategy Summary

Total Investment: \$70
Total Contracts: 6
Average DTE: 8 days
Average Efficiency Score: 1385.4
Portfolio Coverage: 150%

Note: These recommendations are based on current market conditions and volatility analysis. Options strategies involve risk and may not be suitable for all investors.

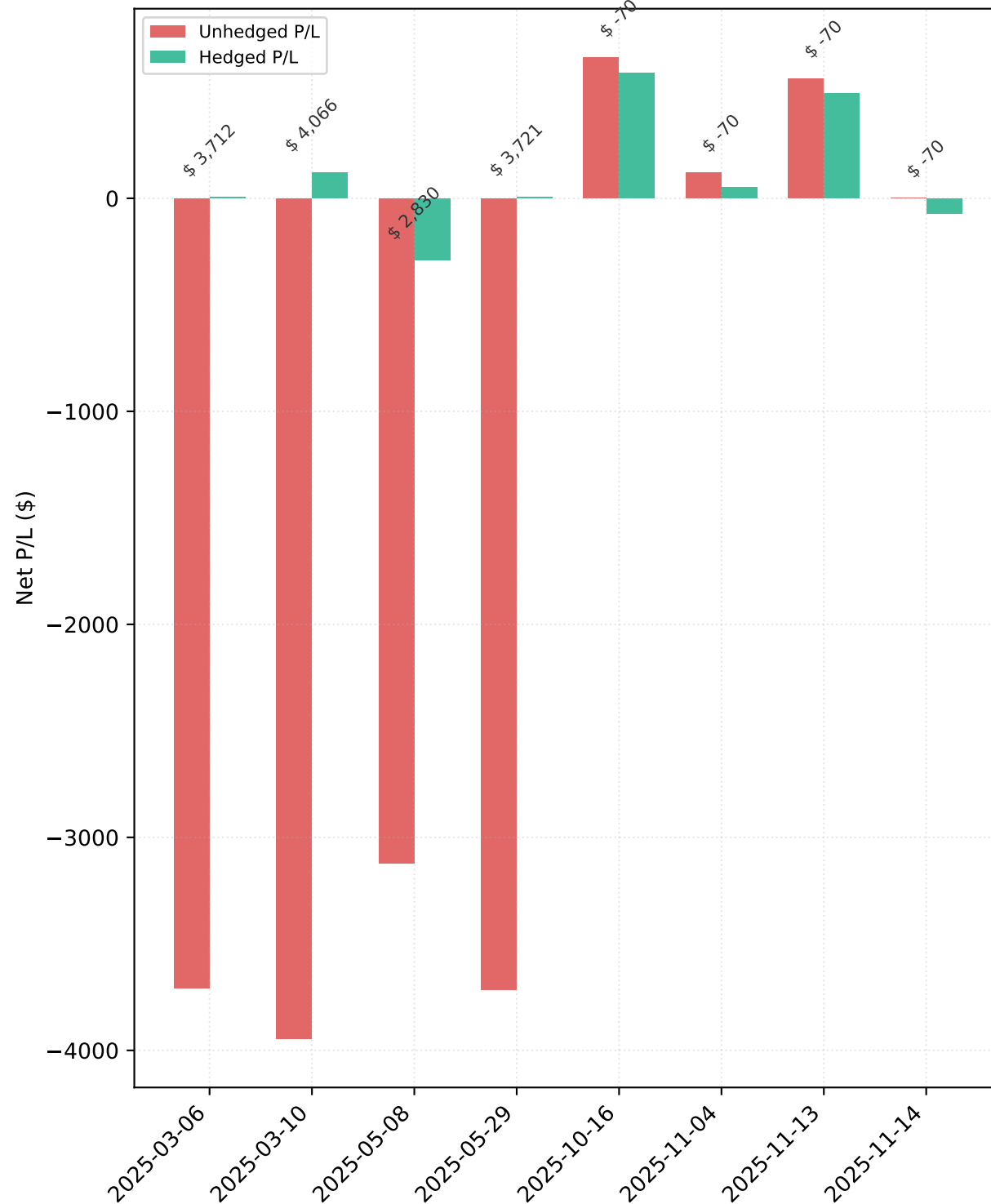
Portfolio Risk Assessment

Value at Risk & Position Analysis

Risk Metric	Value
Portfolio Value	\$5,520
Position Size	400 shares
Daily Value at Risk (1σ)	\$381
Expected Loss (90% drop)	\$4,968
Hedge Budget	\$75
Budget as % of Portfolio	1.36%

Backtest of Hedge Performance on Worst Daily Drawdowns

Historical Drawdown Backtest



Date	% Chang	Price	Unhedged	Hedged	Benefit	Protection
2025-03-06	-8.85%	\$4.53	\$-3,708	\$4	\$3,712	100.1%
2025-03-10	-14.35%	\$3.94	\$-3,944	\$122	\$4,066	103.1%
2025-05-08	-10.04%	\$6.00	\$-3,120	\$-290	\$2,830	90.7%
2025-05-29	-24.69%	\$4.51	\$-3,714	\$7	\$3,721	100.2%
2025-10-16	-15.48%	\$15.45	\$660	\$590	\$-70	0.0%
2025-11-04	-9.73%	\$14.10	\$120	\$50	\$-70	0.0%
2025-11-13	-11.96%	\$15.20	\$562	\$492	\$-70	0.0%
2025-11-14	-9.24%	\$13.80	\$0	\$-70	\$-70	0.0%

Downside Scenario Analysis

Hedge Performance Across Multiple Price Declines

Scenario	Price	Unhedged P/L	Hedged P/L	Benefit	Protection
10% Decline	\$12.42	\$-552	\$-622	\$-70	-12.7%
25% Decline	\$10.35	\$-1,380	\$-1,160	\$220	15.9%
50% Decline	\$6.90	\$-2,760	\$-470	\$2,290	83.0%
75% Decline	\$3.45	\$-4,140	\$220	\$4,360	105.3%
90% Decline	\$1.38	\$-4,968	\$634	\$5,602	112.8%

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

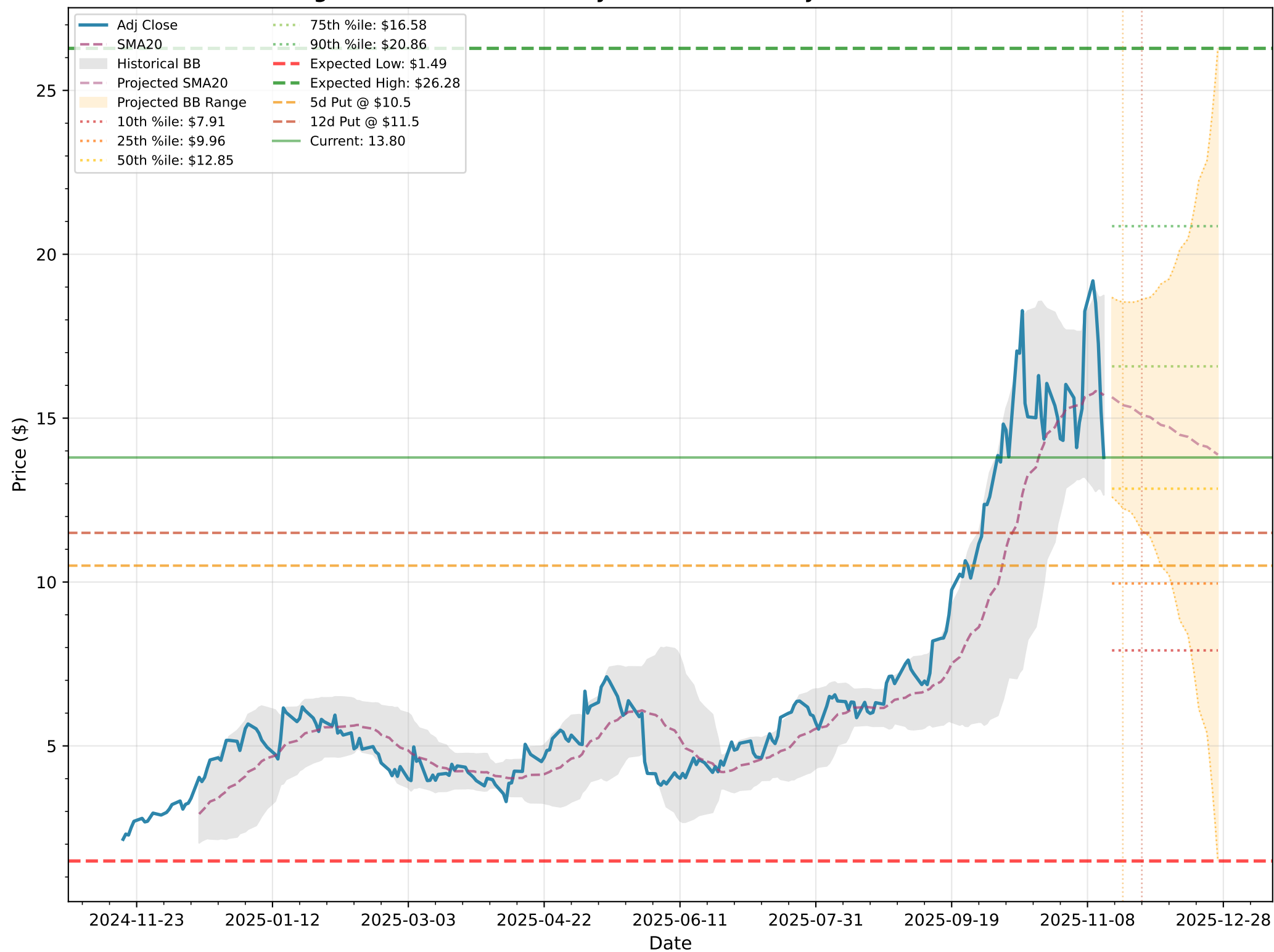


Figure 2: P/L Comparison: Hedged vs Unhedged

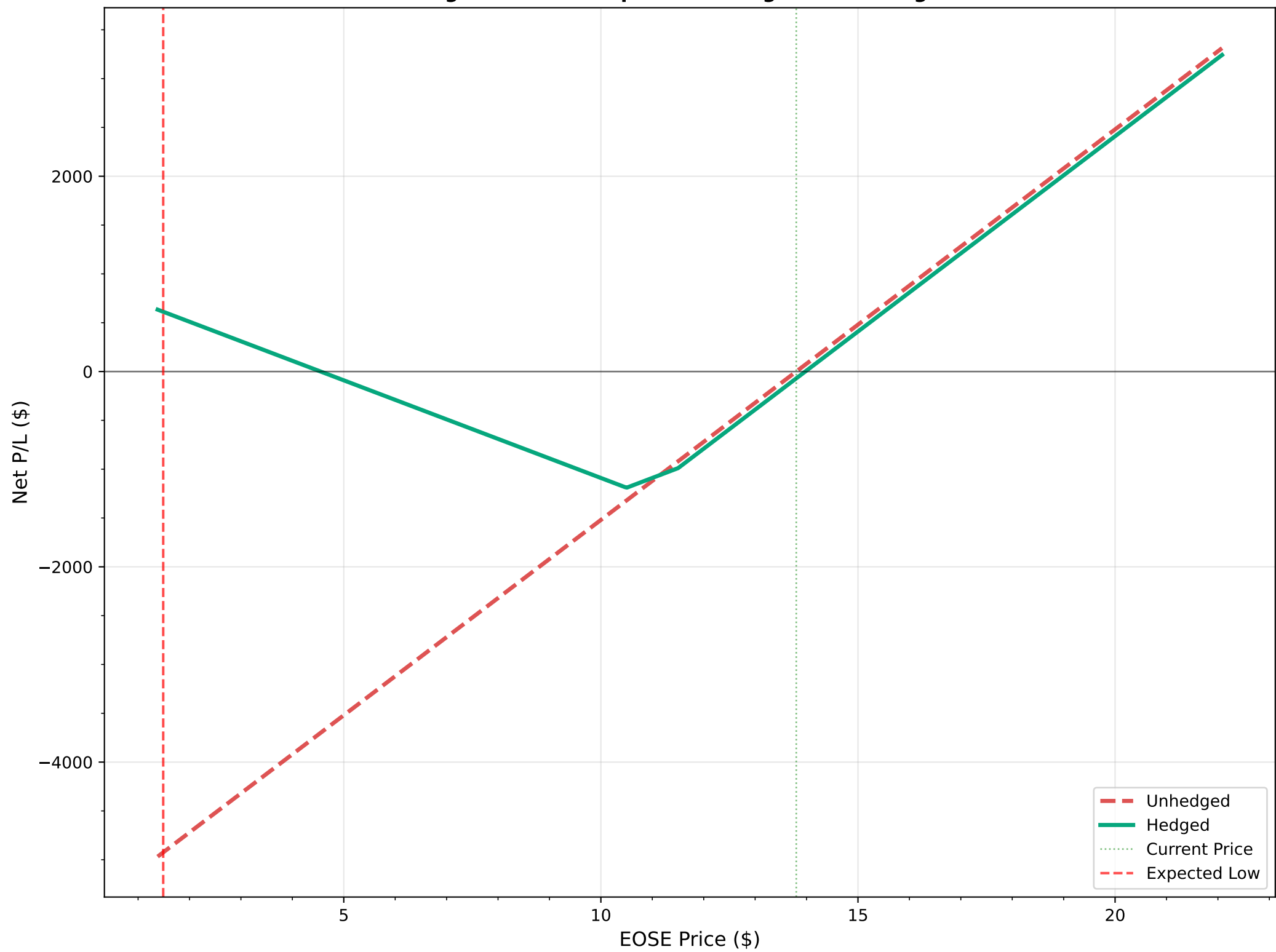


Figure 4: Put Options Efficiency Analysis

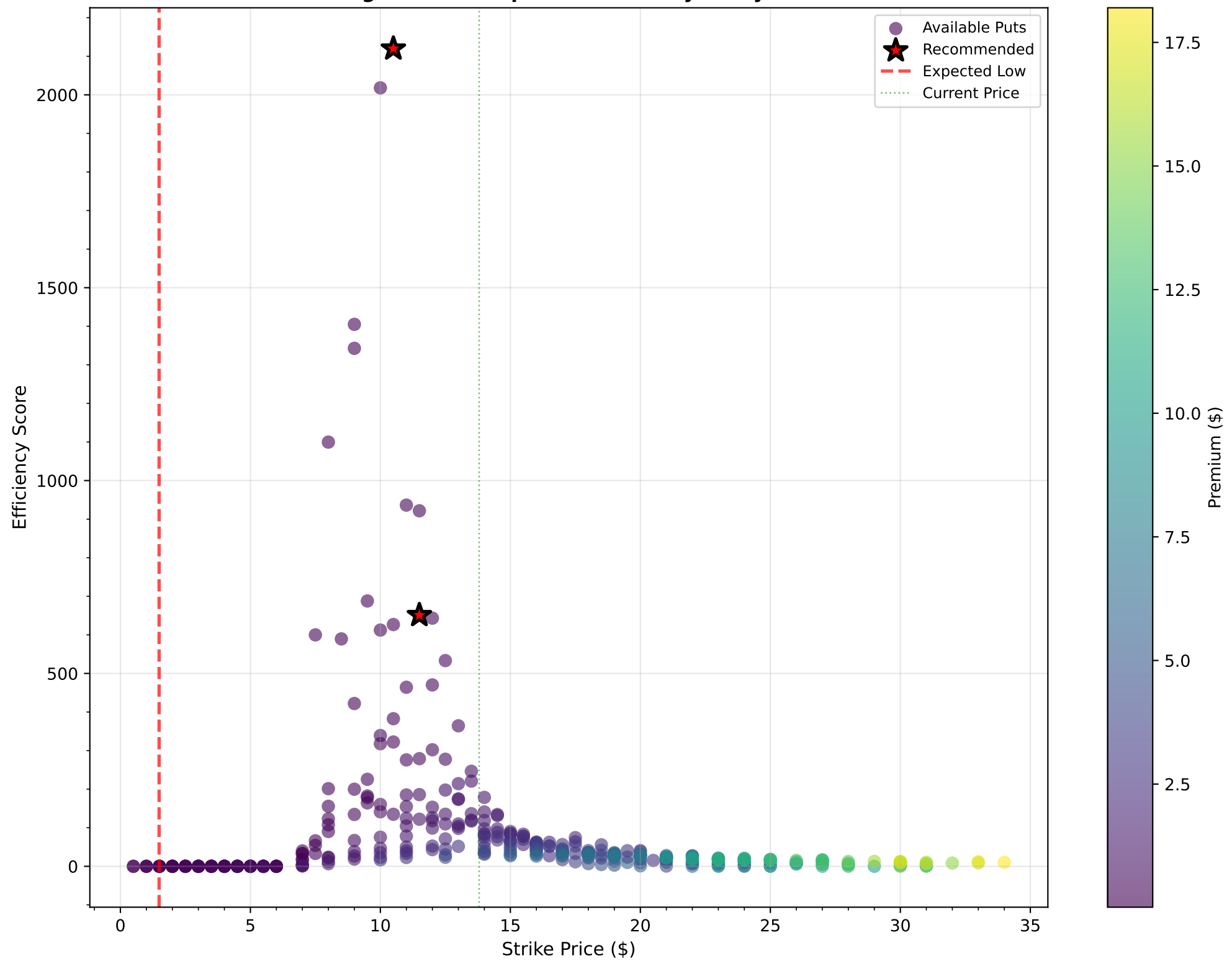
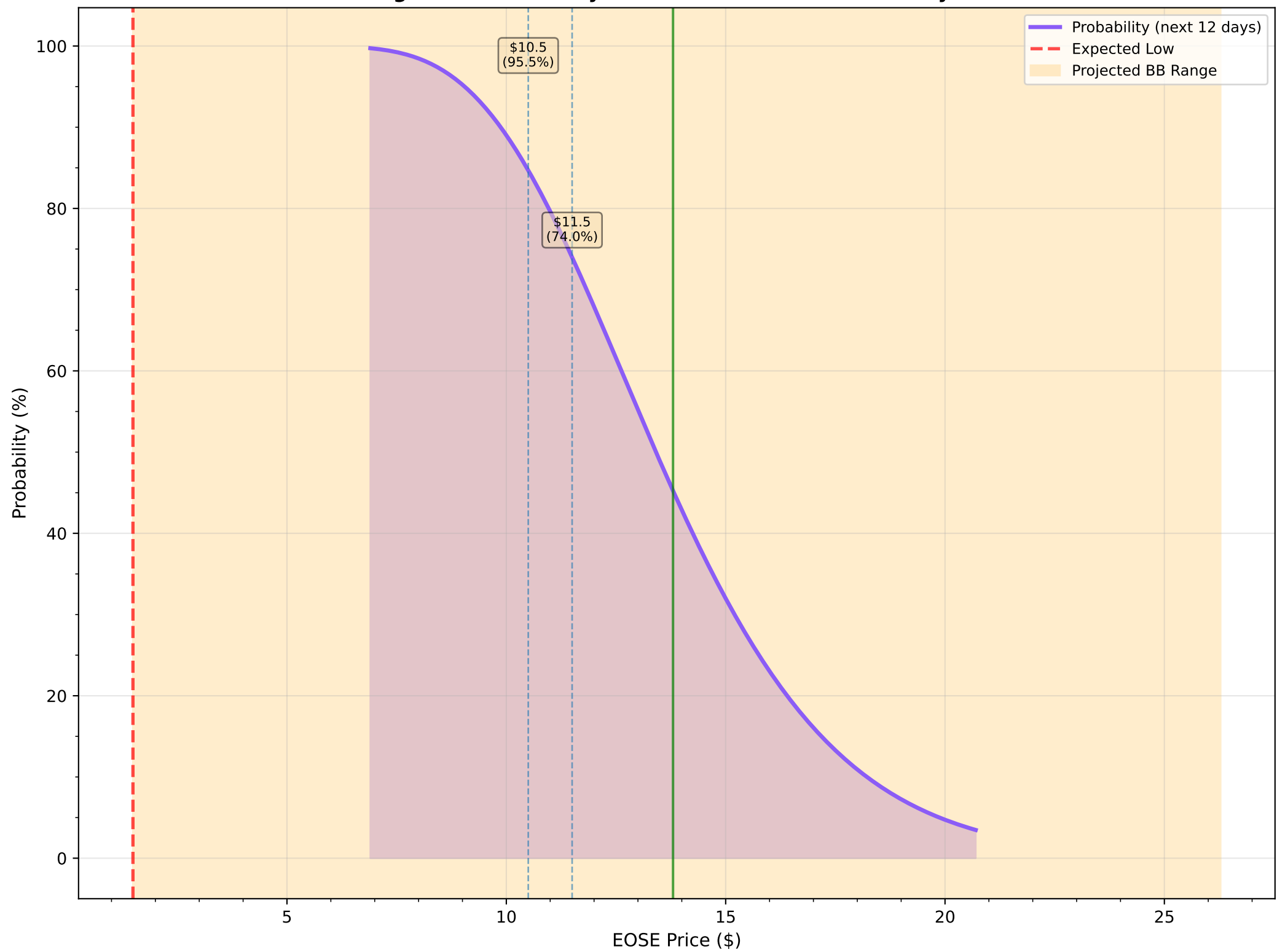


Figure 5: Probability Distribution & Put Strike Analysis



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	\$11.50	11/28/25	12d	2
TOT	-	-	-	6

Financial Metrics

Pos	Premium	Cost	ITM%	Value@90%	ROI%
P1	\$0.06	\$24	95.5	\$3,624	15100.0
P2	\$0.23	\$46	74.0	\$1,978	4300.0
TOT	-	\$70	-	\$5,602	8002.9

Portfolio Summary Statistics

Total Premium:

\$70

Hedge Benefit (90% drop):

\$5,602

Protection Level:

112.8%

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