

Kelly Criterion Analysis Report (Condensed)

Scratched Horses (i.e. they are not in race): Race 5 – Horse 1, Race 7 – Horses 13,14,15,16

KELLY CRITERION EXPLAINED

The Kelly Criterion determines optimal bet sizing to maximize long-term bankroll growth when you have an edge. This report identifies race starters where our model predicts higher win probabilities than implied by the odds. While mathematically optimal, Kelly often suggests aggressive bet sizes that induce psychological stress; most professionals use "fractional Kelly" (25-50% of recommended size) to reduce volatility. Remember: even small Kelly percentages represent significant conviction, and a zero or negative Kelly means no bet is warranted regardless of your personal opinion.

Race 4:

Top 3 by Win Probability:

1. Starter #1 - odds 1.8, win prob: 37.3%
2. Starter #7 - odds 3.0, win prob: 32.3%
3. Starter #2 - odds 6.0, win prob: 16.5%

No positive expectation bets available for this race

Race 5:

Top 3 by Win Probability:

1. Starter #7 - odds 3.0, win prob: 34.2%
2. Starter #4 - odds 4.0, win prob: 26.4%
3. Starter #3 - odds 3.5, win prob: 16.7%

Best Kelly Bet:

Starter #4 - odds 4.0, win prob: 26.4%, Kelly: 1.8% of bankroll

Race 6:

Top 3 by Win Probability:

1. Starter #7 - odds 3.0, win prob: 45.0%
2. Starter #4 - odds 2.5, win prob: 35.2%
3. Starter #2 - odds 10.0, win prob: 5.9%

Best Kelly Bet:

Starter #7 - odds 3.0, win prob: 45.0%, Kelly: 17.5% of bankroll

Race 7:

Top 3 by Win Probability:

1. Starter #4 - odds 5.0, win prob: 22.3%
2. Starter #6 - odds 4.5, win prob: 15.5%
3. Starter #5 - odds 20.0, win prob: 13.0%

Best Kelly Bet:

Starter #5 - odds 20.0, win prob: 13.0%, Kelly: 8.5% of bankroll

Summary of My Bets:

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Race 4: Starter #1 (if forced to bet) - No positive expectation bet available

Race 5: Starter #4 - odds 4.0, win prob: 26.4%, Kelly: 1.8% of bankroll

Race 6: Starter #7 - odds 3.0, win prob: 45.0%, Kelly: 17.5% of bankroll

Race 7: Starter #5 - odds 20.0, win prob: 13.0%, Kelly: 8.5% of bankroll