

Blackjack PBS Analysis & House-Edge Report

Player 0

October 10, 2025

Executive Summary

Player 0 completed two rounds wagering \$100 and finished even, with a net result of zero dollars. The realized house edge - the casino's advantage based on the actual outcomes - was effectively zero, showing that the player broke even. However, the expected house edge, calculated using the Pure Basic Strategy (PBS) baseline, was 0.65%, a small advantage for the casino that also holds when the player's actual deviations were factored in; the expected edge stayed at 0.65% with no additional cost from deviations. The player's style is classified as conservative, meaning they tend to avoid risky moves and stay close to basic strategy guidelines. One deviation noted was standing on a 2-Club and 10-Spade versus an Ace of Spades, a move that differs from PBS but did not change the edge. Another potential habit to monitor could be any future deviations that increase the edge, though none were observed to add value in this session.

Overview

Table 1: Session Summary

Rounds	Total Wager	Total Result	Realized Edge	Expected (PBS)	Expected (Actual)
2	\$100.00	+0.00	-0.00%	0.65%	0.65%

Table 2: PBS Compliance / Style

Decisions	Total Deviations	Conservative Deviations	Aggressive Deviations	Style
2	1	1	0	Conservative

Deviations from Perfect Basic Strategy

Table 3: Player 0 Deviations

Time	Cards	Up	Action	PBS	Penalty	Explanation
02:12:04 UTC	2C 10S	AS	stand	hit	0.00%	Hard 12 vs dealer AS. Player stand (initial). PBS recommends hit.

Complete Betting History

Table 4: Player 0 Betting History

Time	Bet	Result	Realized Edge	Expected (PBS)	Expected (Actual)
02:12:04 UTC	\$50.00	-50.00	1.00%	0.65%	0.65%
02:12:54 UTC	\$50.00	+50.00	-1.00%	0.65%	0.65%

Notes

- **Expected (PBS)** is the table's baseline house edge under perfect basic strategy for the given rules.
- **Expected (Actual)** adds estimated penalties for each deviation from PBS.
- **Realized edge** is computed from outcomes in the CSV and can differ from expectation due to variance.
- **Penalty** refers to the amount of EV the player lost by deviating from PBS. This is equivalent to the increase in house edge.
- Penalties are approximate and expressed as percentage of the base bet per round; they are meant for directional analysis.