Blackjack PBS Analysis & House-Edge Report

Player 0

October 10, 2025

Executive Summary

Player 0 played 20 rounds with a total wager of $200.00, ending with a net loss of $10.00. The realized house edge of 5.00% was much higher than the expected edge of 0.65%, and the actual edge observed at 0.66% was only slightly above the baseline, indicating a modest increase due to small deviations. The player's style is classified as Conservative, meaning they tend to take fewer aggressive hits and favor standing, which can reduce risk but also limit upside. Two notable habits that raised the edge were taking a stand on a 2C 3S 7S versus a 3D instead of the basic strategy hit, and taking a hit on 8H 3H against a 7C when basic strategy would double. These choices increased the house edge by about a quarter of a percent and added uncertainty to the session's outcome.

Overview

Table 1: Session Summary

Rounds	Total Wager	Total Result	Realized Edge	Expected (PBS)	Expected (Actual)
20	$200.00	-10.00	5.00%	0.65%	0.66%

Table 2: PBS Compliance / Style

Decisions	Total Deviations	Conservative Deviations	Aggressive Deviations	Style
26	9	8	1	Conservative

Deviations from Perfect Basic Strategy

Table 3: Player 0 Deviations

Time	Cards	Up	Action	PBS	Penalty	Explanation
04:38:58 UTC	8H 3H	7C	hit	double		Hard 11 vs dealer 7C. Player hit (initial). PBS recommends double.
04:40:10 UTC	4C 3H	AH	stand	hit		Hard 7 vs dealer AH. Player stand (initial). PBS recommends hit.
04:40:10 UTC	4C 3H	AH	stand	hit		Hard 7 vs dealer AH. Player stand (initial). PBS recommends hit.
04:41:17 UTC	7H QD	10D	surrender	stand		Hard 17 vs dealer 10D. Player surrender (initial). PBS recommends stand.
04:42:35 UTC	10S 7S	10H	surrender	stand		Hard 17 vs dealer 10H. Player surrender (initial). PBS recommends stand.
04:43:14 UTC	2C 3S 7S	3D	stand	hit	0.25%	Hard 12 vs dealer 3D. Player stand (final). PBS recommends hit.
04:46:19 UTC	3D QD KC	9S	hit	stand		Hard 23 vs dealer 9S. Player hit (final). PBS recommends stand.
04:47:08 UTC	AD 4H	3C	stand	hit		Soft 15 vs dealer 3C. Player stand (initial). PBS recommends hit.
04:50:39 UTC	7D 7D	3C	hit	split		Pair of 7s vs dealer 3C. Player hit (initial). PBS recommends split.
04:51:08 UTC	2H 6H	QS	stand	hit		Hard 8 vs dealer QS. Player stand (initial). PBS recommends hit.
04:51:08 UTC	2H 6H	QS	stand	hit		Hard 8 vs dealer QS. Player stand (initial). PBS recommends hit.

Complete Betting History

Table 4: Player 0 Betting History

Time	Bet	Result	Realized Edge	Expected (PBS)	Expected (Actual)
04:37:31 UTC	$10.00	+0.00	-0.00%	0.65%	0.65%
04:38:58 UTC	$10.00	+10.00	-1.00%	0.65%	0.65%
04:40:10 UTC	$10.00	-10.00	1.00%	0.65%	0.65%
04:40:10 UTC	$10.00	-10.00	1.00%	0.65%	0.65%

Time	Bet	Result	Realized Edge	Expected (PBS)	Expected (Actual)
04:41:17 UTC	$10.00	-5.00	0.50%	0.65%	0.65%
04:41:45 UTC	$10.00	-10.00	1.00%	0.65%	0.65%
04:42:35 UTC	$10.00	-5.00	0.50%	0.65%	0.65%
04:43:14 UTC	$10.00	+10.00	-1.00%	0.65%	0.90%
04:45:54 UTC	$10.00	+20.00	-2.00%	0.65%	0.65%
04:46:19 UTC	$10.00	-10.00	1.00%	0.65%	0.65%
04:47:08 UTC	$10.00	+10.00	-1.00%	0.65%	0.65%
04:47:32 UTC	$10.00	-10.00	1.00%	0.65%	0.65%
04:49:05 UTC	$10.00	-10.00	1.00%	0.65%	0.65%
04:49:19 UTC	$10.00	+0.00	-0.00%	0.65%	0.65%
04:50:39 UTC	$10.00	+10.00	-1.00%	0.65%	0.65%
04:51:08 UTC	$10.00	-10.00	1.00%	0.65%	0.65%
04:51:08 UTC	$10.00	-10.00	1.00%	0.65%	0.65%
04:52:17 UTC	$10.00	-10.00	1.00%	0.65%	0.65%
04:53:06 UTC	$10.00	+15.00	-1.50%	0.65%	0.65%
04:53:53 UTC	$10.00	+15.00	-1.50%	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.