

Blackjack PBS Analysis & House-Edge Report

Player 2

October 10, 2025

Executive Summary

Player 2 logged 20 rounds with a \$200 total wager, ending \$50 in the red. The realized house edge was a steep 25 %, far above the typical 0.65 % that a solid play plan would suggest; the actual edge for the session was 0.74 %, 0.09 % higher because of deviations. The player's conservative style means he tends to play it safe, often standing or surrendering rather than hitting. Two habits that pushed the edge up are standing on a KS 6C versus an Ace of Hearts, which would normally be a surrender in a perfect basic strategy, adding about 0.45 % to the house edge each time, and standing on QC 5D versus QS, adding roughly 0.30 %. These decisions illustrate how a few conservative choices can significantly raise the house advantage over a small sample of hands. The small sample also means the results can swing widely, and while the loss of \$50 on a \$200 stake is modest, it reminds that a few suboptimal plays can accumulate against a dealer's advantage.

Overview

Table 1: Session Summary

Rounds	Total Wager	Total Result	Realized Edge	Expected (PBS)	Expected (Actual)
20	\$200.00	-50.00	25.00%	0.65%	0.74%

Table 2: PBS Compliance / Style

Decisions	Total Deviations	Conservative Deviations	Aggressive Deviations	Style
25	10	6	2	Conservative

Deviations from Perfect Basic Strategy

Table 3: Player 2 Deviations

Time	Cards	Up	Action	PBS	Penalty	Explanation
04:37:31 UTC	7H 3C	QH	stand	hit		Hard 10 vs dealer QH. Player stand (initial). PBS recommends hit.
04:40:10 UTC	KC 6C	8H	stand	hit		Hard 16 vs dealer 8H. Player stand (initial). PBS recommends hit.
04:40:10 UTC	KC 6C	8H	stand	hit		Hard 16 vs dealer 8H. Player stand (initial). PBS recommends hit.
04:40:10 UTC	KS 6C	AH	stand	surrender	0.45%	Hard 16 vs dealer AH. Player stand (initial). PBS recommends surrender.
04:40:10 UTC	KS 6C	AH	stand	surrender	0.45%	Hard 16 vs dealer AH. Player stand (initial). PBS recommends surrender.
04:41:17 UTC	JH 4S	10D	stand	hit		Hard 14 vs dealer 10D. Player stand (initial). PBS recommends hit.
04:43:14 UTC	5D 7C	3D	stand	hit	0.25%	Hard 12 vs dealer 3D. Player stand (initial). PBS recommends hit.
04:46:19 UTC	6S 8S 8S	9S	hit	stand		Hard 22 vs dealer 9S. Player hit (final). PBS recommends stand.
04:50:39 UTC	AD 4H	3C	stand	hit		Soft 15 vs dealer 3C. Player stand (initial). PBS recommends hit.
04:51:08 UTC	2S 8D	KS	stand	hit		Hard 10 vs dealer KS. Player stand (initial). PBS recommends hit.
04:51:08 UTC	2S 8D	KS	stand	hit		Hard 10 vs dealer KS. Player stand (initial). PBS recommends hit.
04:51:08 UTC	QC 5D	QS	stand	surrender	0.30%	Hard 15 vs dealer QS. Player stand (initial). PBS recommends surrender.
04:51:08 UTC	QC 5D	QS	stand	surrender	0.30%	Hard 15 vs dealer QS. Player stand (initial). PBS recommends surrender.
04:53:53 UTC	AC 2H	4S	double	hit		Soft 13 vs dealer 4S. Player double (initial). PBS recommends hit.

Complete Betting History

Table 4: Player 2 Betting History

Time	Bet	Result	Realized Edge	Expected (PBS)	Expected (Actual)
04:37:31 UTC	\$10.00	-10.00	1.00%	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%	1.10%
04:40:10 UTC	\$10.00	-10.00	1.00%	0.65%	1.10%
04:41:17 UTC	\$10.00	-10.00	1.00%	0.65%	0.65%
04:41:45 UTC	\$10.00	+0.00	-0.00%	0.65%	0.65%
04:42:35 UTC	\$10.00	+15.00	-1.50%	0.65%	0.65%
04:43:14 UTC	\$10.00	+10.00	-1.00%	0.65%	0.90%
04:45:54 UTC	\$10.00	+10.00	-1.00%	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	+0.00	-0.00%	0.65%	0.65%
04:49:05 UTC	\$10.00	-5.00	0.50%	0.65%	0.65%
04:49:19 UTC	\$10.00	-20.00	2.00%	0.65%	0.65%
04:50:39 UTC	\$10.00	+0.00	-0.00%	0.65%	0.65%
04:51:08 UTC	\$10.00	-10.00	1.00%	0.65%	0.95%
04:51:08 UTC	\$10.00	-10.00	1.00%	0.65%	0.95%
04:52:17 UTC	\$10.00	-20.00	2.00%	0.65%	0.65%
04:53:06 UTC	\$10.00	-10.00	1.00%	0.65%	0.65%
04:53:53 UTC	\$10.00	+20.00	-2.00%	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.