Episode 299: Playing Straight Draws

50/100(100)

13.3k Effective

Reg opens HJ 300, we call BB 7d8s. 750

Flop Jc9d6s rainbow. x cbet 400 XR to 1600 call. 3950

Turn 3dd bet 3k call. 10k

Riv Jddd….I? (8k behind)

HJ vs BB with BBA Ranges:

Our Possible SDs on J96r (15.5% of our total range)

8out straight draws (7% of range)
QTo / QTs
T8o / T8s
87o / 87s

4out straight draws (8.5% of range)
KQo / KQs
KTo / KTs
Q8o / Q8s
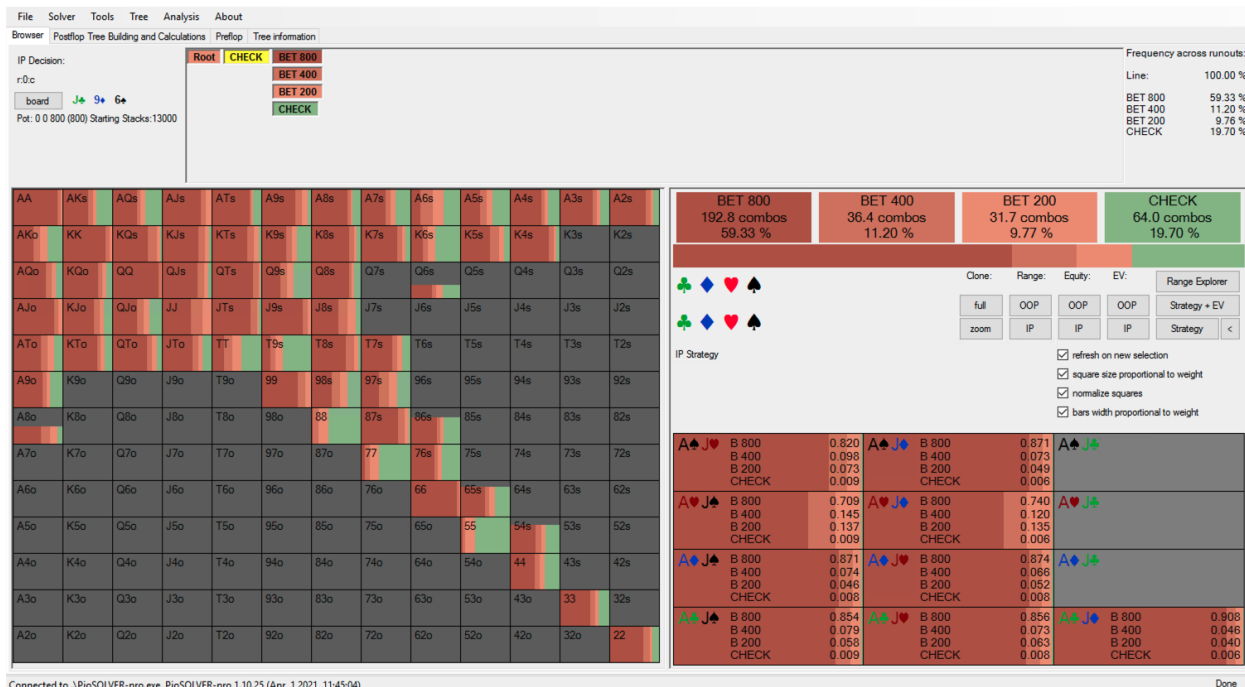T7s
85s
75s

IP Optimal Cbetting Strategy:

- Polar cbet strategy (large cbet or check) possible OB if given option
- Common on these mid-high connected textures with many straight draws possible
- Charge OOP to continue with their draws / not many autofolds vs small sizing

Alternative strategy (50% pot with range) EV loss is about $2.50 - likely the more common sizing to be faced with here.

How to proceed with SDs vs 50% pot range cbet:

8out straight draws:

RAISE 1600	RAISE 1200	RAISE 928	CALL	FOLD	All
14.6 combos	0.3 combos	0.2 combos	25.2 combos	0.0 combos	40.4 combos
36.25 %	0.64 %	0.54 %	62.52 %	0.05 %	100.00 %

AA	AKs	AQs	AJs	ATs	A9s	A8s	A7s	A6s	A5s	A4s	A3s	A2s
AKo	KK	KQs	KJs	KTs	K9s	K8s	K7s	K6s	K5s	K4s	K3s	K2s
AQo	KQo	QQ	QJs	QTs	Q9s	Q8s	Q7s	Q6s	Q5s	Q4s	Q3s	Q2s
AJo	KJo	QJo	JJ	JTs	J9s	J8s	J7s	J6s	J5s	J4s	J3s	J2s
ATo	KTo	QTo	JTo	TT	T9s	T8s	T7s	T6s	T5s	T4s	T3s	T2s
A9o	K9o	Q9o	J9o	T9o	99	98s	97s	96s	95s	94s	93s	92s
A8o	K8o	Q8o	J8o	T8o	98o	88	87s	86s	85s	84s	83s	82s
A7o	K7o	Q7o	J7o	T7o	97o	87o	77	76s	75s	74s	73s	72s
A6o	K6o	Q6o	J6o	T6o	96o	86o	76o	66	65s	64s	63s	62s
A5o	K5o	Q5o	J5o	T5o	95o	85o	75o	65o	55	54s	53s	52s
A4o	K4o	Q4o	J4o	T4o	94o	84o	74o	64o	54o	44	43s	42s
A3o	K3o	Q3o	J3o	T3o	93o	83o	73o	63o	53o	43o	33	32s
A2o	K2o	Q2o	J2o	T2o	92o	82o	72o	62o	52o	42o	32o	22

4out straight draws vs 50% cbet:

RAISE 1600 8.3 combos 16.76 %	RAISE 1200 0.1 combos 0.23 %	RAISE 928 0.1 combos 0.22 %	CALL 39.2 combos 79.43 %	FOLD 1.7 combos 3.36 %	All 49.3 combos 100.00 %

0.1 combos (0.22%) real 0.22 %

AA	AKs	AQs	AJs	ATs	A9s	A8s	A7s	A6s	A5s	A4s	A3s	A2s
AKo	KK	KQs	KJs	KTs	K9s	K8s	K7s	K6s	K5s	K4s	K3s	K2s
AQo	KQo	QQ	QJs	QTs	Q9s	Q8s	Q7s	Q6s	Q5s	Q4s	Q3s	Q2s
AJo	KJo	QJo	JJ	JTs	J9s	J8s	J7s	J6s	J5s	J4s	J3s	J2s
ATo	KTo	QTo	JTo	TT	T9s	T8s	T7s	T6s	T5s	T4s	T3s	T2s
A9o	K9o	Q9o	J9o	T9o	99	98s	97s	96s	95s	94s	93s	92s
A8o	K8o	Q8o	J8o	T8o	98o	88	87s	86s	85s	84s	83s	82s
A7o	K7o	Q7o	J7o	T7o	97o	87o	77	76s	75s	74s	73s	72s
A6o	K6o	Q6o	J6o	T6o	96o	86o	76o	66	65s	64s	63s	62s
A5o	K5o	Q5o	J5o	T5o	95o	85o	75o	65o	55	54s	53s	52s
A4o	K4o	Q4o	J4o	T4o	94o	84o	74o	64o	54o	44	43s	42s
A3o	K3o	Q3o	J3o	T3o	93o	83o	73o	63o	53o	43o	33	32s
A2o	K2o	Q2o	J2o	T2o	92o	82o	72o	62o	52o	42o	32o	22

4out straight draws vs 100% cbet:

R 2600 5.6 c 11.33 %	R 2000 0.4 c 0.81 %	R 1600 0.2 c 0.39 %	CALL 21.7 c 44.07 %	FOLD 21.4 c 43.40 %	All 49.3 c 100.00 %

5.6 combos (11.33%) real 10.97 %

AA	AKs	AQs	AJs	ATs	A9s	A8s	A7s	A6s	A5s	A4s	A3s	A2s
AKo	KK	KQs	KJs	KTs	K9s	K8s	K7s	K6s	K5s	K4s	K3s	K2s
AQo	KQo	QQ	QJs	QTs	Q9s	Q8s	Q7s	Q6s	Q5s	Q4s	Q3s	Q2s
AJo	KJo	QJo	JJ	JTs	J9s	J8s	J7s	J6s	J5s	J4s	J3s	J2s
ATo	KTo	QTo	JTo	TT	T9s	T8s	T7s	T6s	T5s	T4s	T3s	T2s
A9o	K9o	Q9o	J9o	T9o	99	98s	97s	96s	95s	94s	93s	92s
A8o	K8o	Q8o	J8o	T8o	98o	88	87s	86s	85s	84s	83s	82s
A7o	K7o	Q7o	J7o	T7o	97o	87o	77	76s	75s	74s	73s	72s
A6o	K6o	Q6o	J6o	T6o	96o	86o	76o	66	65s	64s	63s	62s
A5o	K5o	Q5o	J5o	T5o	95o	85o	75o	65o	55	54s	53s	52s
A4o	K4o	Q4o	J4o	T4o	94o	84o	74o	64o	54o	44	43s	42s
A3o	K3o	Q3o	J3o	T3o	93o	83o	73o	63o	53o	43o	33	32s
A2o	K2o	Q2o	J2o	T2o	92o	82o	72o	62o	52o	42o	32o	22

General patterns:
- Always continue 8out straight draws regardless of cbet sizing (either as XC or XR)
- 4out straight draws sensitive to cbet sizing
    - Vs 50%: XR or XC strongest SDs; XF weakest ones (75s)
    - Vs 100%: More XFs (Q8o T7s 75s), mix all 3 options with KT Q8s, XC or XR KQ

Vs 50% Cbet:
- XR with 8out straight draw 37% of the time vs 17% of the time for 4out straight draw
- XR sizing should be large only (75% pot) - (similar to the reason why large cbet > smaller cbet)

- 8out straight draws:
  - Prefer to XR suited combos with BDFD over the ones without
  - 8out SD w bdfd = pure XR
  - 8out SD w/o bdfd = mix XR and XC
  - No XFs
- 4out straight draws:
  - Similar to 8out straight draws- more likely to XR suited combos with BDFD (but not pure XR)
  - More interested in XR 4out SDs with overcard to Jx (KT KQ and Q8)
  - XC weaker 4out SDs and XF the worst ones

Other XR candidates (9% global XR frequency vs 50% pot cbet)
- Strong top pairs (QJs w bdfd+)
- Two pairs
- Sets
- Some hands like 76s with bdfd, A8s w bdfd
- Non SD XRs make up 55% of XR range

- 45% of our XR range though is SDs so big majority of our overall XR range

Turn Strategy after flop XR:

OOP Equity

	2	3	4	5	6	7	8	9	T	J	Q	K	A
♣ (IP Equity)	2212.7	2213.0	2212.9	2963.2	2110.7	2992.7	2081.0	1977.3	2089.1		1846.3	1792.0	1797.0
♦ (OOP EV)	2230.8	2231.2	2231.0	2989.8	2204.1	3006.3	2104.2		2113.8	1911.2	1857.9	1791.7	1801.6
♥ (IP EV)	2228.2	2228.7	2228.3	3041.8	2210.9	3057.9	2066.2	1967.3	2073.8	1961.7	1840.2	1761.8	1806.8
♠ (Strategy)	2198.5	2198.9	2198.8	2947.9		2972.0	2074.7	2083.1	2068.9	1997.4	1829.1	1758.5	1727.0

OOP Equity

♣ (IP Equity)

	2	3	4	5	6	7	8	9	T	J	Q	K	A
B 6000	.69%	.62%	.63%	9.35%	.18%	11.20%	.24%	.07%	.49%		.37%	.20%	.19%
B 3000	46.17%	46.28%	46.26%	88.59%	51.79%	88.34%	55.41%	22.50%	23.02%		23.12%	29.79%	39.32%
B 1320	33%	34%	34%	.39%	.61%	.16%	13.71%	1.04%	42.69%		13.05%	2.87%	42%
CHECK	52.82%	52.76%	52.78%	1.67%	47.43%	.31%	30.64%	76.39%	33.81%		63.46%	67.15%	60.07%

♦ (OOP EV)

	2	3	4	5	6	7	8	9	T	J	Q	K	A
B 6000	.67%	.61%	.61%	9.44%	.15%	7.92%	.23%		.44%	.07%	.38%	.20%	.17%
B 3000	47.74%	47.82%	47.83%	89.41%	57.38%	91.66%	58.83%		18.00%	24.19%	20.72%	27.98%	39.92%
B 1320	31%	32%	32%	.36%	.65%	.15%	11.72%		49.22%	.67%	16.33%	2.69%	43%
CHECK	51.29%	51.25%	51.23%	.78%	41.82%	.27%	29.22%		32.34%	75.07%	62.57%	69.12%	59.47%

♥ (IP EV)

	2	3	4	5	6	7	8	9	T	J	Q	K	A
B 6000	.40%	.37%	.37%	7.08%	.16%	3.59%	.23%	.06%	.42%	.06%	.36%	.26%	.15%
B 3000	44.85%	46.14%	44.89%	89.84%	61.33%	95.99%	63.88%	22.12%	21.38%	26.50%	19.02%	27.57%	42.01%
B 1320	19%	20%	20%	.32%	43%	13%	4.65%	.81%	44.47%	.53%	17.71%	2.01%	32%
CHECK	54.56%	54.55%	54.59%	2.76%	38.08%	.29%	31.24%	77.01%	33.73%	72.90%	62.91%	70.16%	57.52%

♠ (Strategy)

	2	3	4	5	6	7	8	9	T	J	Q	K	A
B 6000	.66%	.61%	.61%	9.15%		8.40%	.22%	.07%	.39%	.07%	.35%	.19%	.18%
B 3000	46.14%	46.27%	46.23%	88.87%		91.14%	55.38%	28.05%	11.76%	27.29%	18.85%	26.13%	34.73%
B 1320	30%	32%	31%	41%		16%	11.79%	1.09%	53.33%	75%	17.73%	2.27%	46%
CHECK	52.89%	52.81%	52.84%	1.57%		.29%	32.61%	70.79%	34.52%	71.88%	63.07%	71.41%	64.64%

- OOPs best turn cards are 5 and 7 which completes straights for us that IP doesn't have (78o, T8o), then followed by any card 8 or lower
- Worst turn cards are A, K and Q (K and Q complete straights in both ranges)

On the 3dd turn (not completing any draws), we want to bet/check around 50/50 for 75% pot sizing
- Problem here is that we can't continue to barrel every SD combo we XR or else way to easy to overbluff
- Question is how to determine which SDs to continue barreling vs which ones to check

8out straight draws:
- Now there is an interesting effect where the 8out straight draw heart combos (no bdfd on flop) prefer to barrel over the ones with bdfd combo (excluding diamonds which are now "combo draws")
    - Prefer to barrel T8hh over T8ss or T8cc - reason is that T8hh unblocks some of IPs floats like ATss A8cc that will now fold turn
- Our offsuit 8out straight draws:
    - Very clear trend where it always prefers to barrel offsuit combos with one diamond (blocking the bdfd) vs the ones without a diamond (mostly checking)
    - Ex: T8dx pure bet 75% pot, T8o no diamond pure check

4out straight draws:
- ALL of them check turn, except KQ (so give up the lower equity SDs on turn), then have to react vs IPs bet size if he does bet

Combo draws (straight draws plus bdfd)
- Mostly bet/call the ones strong enough to stack off (KQdd KTdd QTdd T8dd), mix Q8dd, and then mostly check the weakest ones (not strong enough to bet/call) like T7dd and 87dd- still have option to XC or XR vs IP bet
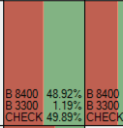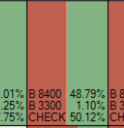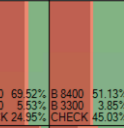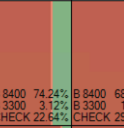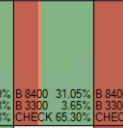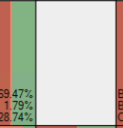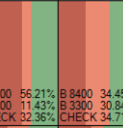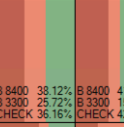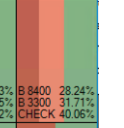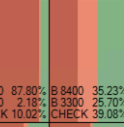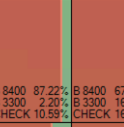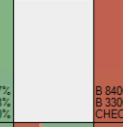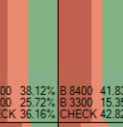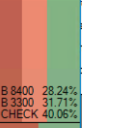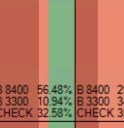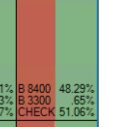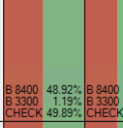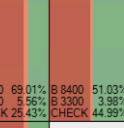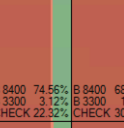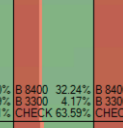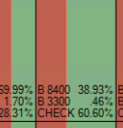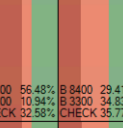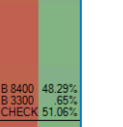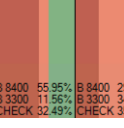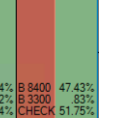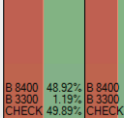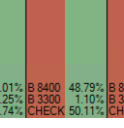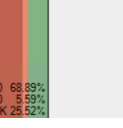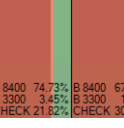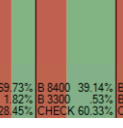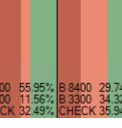
Our overall turn double barrel range frequency (same as flop):
- 50% draws
- 50% made hands

River Strategy:

		2	3	4	5	6	7	8	9	T	J	Q	K	A
IP Equity	♣	5733	4799	5732	7132	5056	7213	5568	4810	6528		5786	4723	4853
OOP EV	♦	5607		5606	6729	5256	6682	5528		6357	5852	5418	4838	4852
IP EV	♥	5733	4799	5732	7111	5046	7222	5523	4895	6542	5329	5763	4681	4831
Strategy	♠	5733	4799	5732	7108		7237	5508	5060	6529	5366	5792	4669	4765

(Left column labels: OOP Equity, IP Equity, OOP EV, IP EV, Strategy)

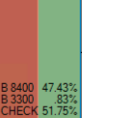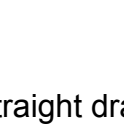|		2	3	4	5	6	7	8	9	T	J	Q	K	A
IP Equity	♣	B 8400 48.92% / B 3300 1.19% / CHECK 49.89%	B 8400 41.01% / B 3300 1.25% / CHECK 57.75%	B 8400 48.79% / B 3300 1.10% / CHECK 50.12%	B 8400 69.52% / B 3300 5.53% / CHECK 24.95%	B 8400 51.13% / B 3300 3.85% / CHECK 45.03%	B 8400 74.24% / B 3300 3.12% / CHECK 22.64%	B 8400 68.69% / B 3300 1.63% / CHECK 29.68%	B 8400 31.05% / B 3300 3.65% / CHECK 65.30%	B 8400 69.47% / B 3300 1.79% / CHECK 28.74%		B 8400 56.21% / B 3300 11.43% / CHECK 32.36%	B 8400 34.45% / B 3300 30.84% / CHECK 34.71%	B 8400 48.36% / B 3300 .63% / CHECK 51.02%
OOP EV	♦	B 8400 63.12% / B 3300 1.62% / CHECK 35.26%		B 8400 63.09% / B 3300 1.62% / CHECK 35.28%	B 8400 87.80% / B 3300 2.18% / CHECK 10.02%	B 8400 35.23% / B 3300 25.70% / CHECK 39.08%	B 8400 87.22% / B 3300 2.20% / CHECK 10.59%	B 8400 67.17% / B 3300 16.23% / CHECK 16.60%		B 8400 51.16% / B 3300 33.06% / CHECK 15.78%	B 8400 51.53% / B 3300 2.01% / CHECK 46.46%	B 8400 38.12% / B 3300 25.72% / CHECK 36.16%	B 8400 41.83% / B 3300 15.35% / CHECK 42.82%	B 8400 28.24% / B 3300 31.71% / CHECK 40.06%
IP EV	♥	B 8400 48.92% / B 3300 1.19% / CHECK 49.89%	B 8400 41.00% / B 3300 1.25% / CHECK 57.75%	B 8400 48.81% / B 3300 1.10% / CHECK 50.09%	B 8400 69.01% / B 3300 5.56% / CHECK 25.43%	B 8400 51.03% / B 3300 3.98% / CHECK 44.99%	B 8400 74.56% / B 3300 3.12% / CHECK 22.32%	B 8400 68.00% / B 3300 1.59% / CHECK 30.41%	B 8400 32.24% / B 3300 4.17% / CHECK 63.59%	B 8400 69.99% / B 3300 1.70% / CHECK 28.31%	B 8400 38.93% / B 3300 .46% / CHECK 60.60%	B 8400 56.48% / B 3300 10.94% / CHECK 32.58%	B 8400 29.41% / B 3300 34.83% / CHECK 35.77%	B 8400 48.29% / B 3300 .65% / CHECK 51.06%
Strategy	♠	B 8400 48.92% / B 3300 1.19% / CHECK 49.89%	B 8400 41.01% / B 3300 1.25% / CHECK 57.74%	B 8400 48.79% / B 3300 1.10% / CHECK 50.11%	B 8400 68.89% / B 3300 5.59% / CHECK 25.52%		B 8400 74.73% / B 3300 3.45% / CHECK 21.82%	B 8400 67.90% / B 3300 1.58% / CHECK 30.52%	B 8400 34.13% / B 3300 4.17% / CHECK 61.70%	B 8400 69.73% / B 3300 1.82% / CHECK 28.45%	B 8400 39.14% / B 3300 .53% / CHECK 60.33%	B 8400 55.95% / B 3300 11.56% / CHECK 32.49%	B 8400 29.74% / B 3300 34.32% / CHECK 35.94%	B 8400 47.43% / B 3300 .83% / CHECK 51.75%

(Left column labels: OOP Equity, IP Equity, OOP EV, IP EV, Strategy)

-Similar to turn, best rivers for OOP are the ones that complete straight draws where we have more OS combos of than IP (5, 7, T)

A few different river scenarios:
- Low or high blank (2o or Ao)
- Giveup the higher SDs (QT / Q8 / T8) and only jam the worst ones (87)
- Good river for us (5o)

- Pure bluff jam most other SDs (Q8s T8s T8o), mix bluff and give up QT combos

- The exactly river in the HH (Jddd board pair)
- Mostly mostly still bluffing worst SDs (87 and T8) - maybe 75% of the time
- strong preference for bluffing 87o with a diamond over the ones without diiamond
- Giving up highest straight draws once again (QT)