

Aviary's Riichi Statistics Cheat Sheet

1a. Deal-in rates vs Tenpai opponent

Suji Passed	456	37	28	½ Suji 456 19	Suji 37	Suji 28	Suji 456 Suji 19	Fresh Yakuhei	Once cut Yakuhei
4	-30%				-10%			-50%	
8	14%	10%	9%	8%	6%	4%	2%	5%	3%
12	+66%				+30%			+250%	

- Dora +50% vs riichi and +80% vs open. Dorasoba +30% to riichi and +50% to open. Dora ±2 is 10% more dangerous.
- One chance is -50% early game, -75% mid game, and -90% late game

1b. Relative Danger - First Row Sotogawa

Sotogawa	1 Danger	2	3	4	5	6	7	8	9
1 Discard		95%	100%	65%	110%	110%	95%	105%	105%
2	40%		90%	75%	65%	120%	110%	95%	105%
3	55%	40%		90%	80%	60%	125%	105%	95%
4	35%	55%	60%		95%	85%	55%	130%	115%
5	130%	40%	65%	90%		90%	60%	40%	135%

- First simple is 20% more effective, second row is 20% less effective

1c. Relative Danger - Sotogawa Joints (X, Y tedashi in discards)

Joint	1 Danger	2	3	4	5	6	7	8	9
(1, 1)		110%	100%	65%	105%	100%	90%	100%	100%
(2, 2)	25%		105%	60%	50%	120%	85%	80%	105%
(3, 3)	25%	20%		75%	50%	55%	110%	75%	80%
(4, 4)	25%	40%	40%		70%	60%	55%	120%	100%
(5, 5)	130%	35%	45%	60%		50%	35%	45%	100%
(1, 2)			115%	55%	65%	125%	85%	90%	105%
(2, 1)			90%	65%	55%	115%	95%	85%	110%
(2, 4)	20%		65%		60%	90%	50%	100%	95%
(4, 2)	55%		60%		80%	90%	45%	130%	115%
(1, 3)		55%		65%	80%	55%	105%	95%	85%
(3, 1)		45%		85%	80%	50%	125%	110%	85%
(3, 5)	50%	25%		70%		60%	90%	45%	105%
(5, 3)	95%	35%		70%		75%	65%	35%	130%
(2, 3)	35%			95%	55%	60%	130%	75%	85%
(3, 2)	60%			105%	50%	60%	130%	80%	90%
(3, 4)	25%	55%			90%	50%	60%	125%	85%
(4, 3)	40%	85%			100%	50%	45%	115%	80%
(4, 5)	45%	25%	115%			105%	45%	50%	105%
(5, 4)	35%	45%	50%			90%	35%	40%	155%
(1, 9)		90%	100%	60%	110%	75%	85%	100%	
(1, 7)		95%	125%	25%	80%	95%		45%	55%
(7, 1)		105%	110%	25%	80%	85%		45%	50%
(2, 8)	45%		85%	95%	30%	90%	100%		55%
(1, 6)		115%	30%	40%	100%		50%	65%	30%
(6, 1)		120%	40%	40%	95%		55%	55%	30%
(2, 7)	35%		115%	25%	40%	105%		50%	60%
(7, 2)	60%		120%	40%	35%	105%		45%	55%
(1, 4)		55%	50%		90%	80%	50%	120%	105%
(4, 1)		60%	60%		100%	85%	45%	135%	110%
(2, 5)	40%		55%	45%		90%	60%	40%	125%
(5, 2)	90%		50%	60%		90%	60%	35%	135%
(3, 6)	50%	45%		60%	55%		75%	65%	30%
(6, 3)	60%	65%		55%	60%		60%	55%	30%

1d. Relative Danger -1st Row Riichi vs 3rd Row Riichi

1st Row	1 Danger	2	3	4	5	6	7	8	9
1 Riichi		115%	105%	60%	80%	95%	90%	85%	95%
2	155%		70%	90%	55%	85%	90%	90%	100%
3	115%	70%		85%	80%	50%	95%	95%	70%
4	30%	100%	60%		80%	80%	70%	85%	100%
5	105%	75%	80%	75%		75%	85%	70%	100%
3rd Row	1 Danger	2	3	4	5	6	7	8	9
1 Riichi		160%	185%	65%	130%	110%	75%	120%	105%
2	205%		145%	135%	85%	130%	105%	105%	135%
3	155%	140%		135%	120%	75%	110%	120%	90%
4	15%	140%	120%		130%	105%	75%	145%	105%
5	140%	55%	110%	115%		120%	135%	45%	155%

1e. Relative Danger - Riichi Joint (Riichi on Y, X in discards)

Joint	1 Danger	2	3	4	5	6	7	8	9
(1, 1)		130%	120%	65%	90%	95%	90%	90%	100%
(2, 2)	175%		90%	115%	65%	95%	95%	90%	100%
(3, 3)	135%	100%		100%	100%	60%	100%	95%	80%
(4, 4)	25%	120%	70%		100%	80%	75%	105%	95%
(5, 5)	115%	70%	95%	90%		95%	95%	65%	115%
(1, 2)			110%	85%	85%	110%	100%	120%	105%
(2, 1)			90%	55%	55%	110%	95%	90%	80%
(2, 4)			110%		80%	130%	80%	120%	120%
(4, 2)	85%		80%		85%	75%	35%	135%	100%
(1, 3)		135%		55%	140%	60%	90%	115%	80%
(3, 1)		30%		100%	70%	65%	140%	90%	120%
(3, 5)	60%	40%		110%		75%	160%	60%	145%
(5, 3)	250%	70%		130%		80%	75%	30%	110%
(2, 3)	105%			140%	75%	90%	140%	80%	80%
(3, 2)	150%			135%	35%	60%	125%	70%	120%
(3, 4)	20%	125%			155%	65%	85%	135%	100%
(4, 3)	70%	225%			155%	55%	40%	120%	115%
(4, 5)	50%	35%	265%			270%	75%	80%	255%
(5, 4)	30%	130%	90%			75%	55%	60%	70%
(1, 7)		80%	100%	35%	100%	105%		110%	135%
(7, 1)		145%	120%	25%	80%	65%		30%	30%
(2, 8)	45%		65%	60%	30%	115%	85%		175%
(1, 9)		85%	75%	55%	105%	65%	110%	165%	
(6, 1)		90%	70%	55%	110%		65%	125%	25%
(1, 6)		190%	95%	30%	90%		45%	65%	40%
(2, 7)	30%		85%	35%	60%	110%		90%	150%
(7, 2)	190%		110%	85%	40%	65%		50%	50%
(1, 4)		105%	70%		90%	85%	75%	90%	85%
(4, 1)		45%	125%		75%	75%	30%	85%	70%
(2, 5)	55%		65%	65%		105%	100%	50%	135%
(5, 2)	290%		80%	125%		100%	65%	35%	150%
(3, 6)	55%	25%		60%	75%		75%	120%	20%
(6, 3)	135%	110%		85%	70%		40%	30%	20%

2a. Riichi/Dama Wait Winrate

Turn 8 Riichi Winrate Ranking							
Shape	Wait	Riichi	Dama	Shape	Wait	Riichi	Dama
Sanmen	147	66%	72%	Trap	4,6	50%	41%
Sanmen	258	65%	72%	Shanpon	1,9 + 2-8	48%	43%
Shanpon	Z + Z	59%	52%	Z Tanki	Fresh	48%	40%
Ryanmen	14	57%	67%	Single	1,9	47%	48%
Trap	1,9	57%	48%	Trap	3,7	47%	43%
Z Tanki	1 out	55%	54%	Trap	5	46%	39%
Shanpon	Z + 1,9	55%	48%	Z Tanki	2 out	44%	39%
Ryanmen	25	54%	63%	Single	2,8	41%	45%
Shanpon	1,9 + 1,9	53%	54%	Shanpon	2-8 + 2-8	41%	44%
Shanpon	Z + 2-8	52%	46%	Single	3,7	38%	43%
Ryanmen	36	52%	62%	Single	4,6	36%	41%
Trap	2,8	52%	45%	Single	5	33%	39%

- 10% for ryanmen dora wait, -30% for single dora wait
- Trap wait, single 123 +25%, single 45 +45%. Shanpon +10%
- Furiten -35% for sanmenchan, -40% for ryanmen

2b. Riichi Average Points

w/o Riichi	Riichi size	Dealer	ND
(Riichi nomi)	1 han 40 fu	4300	2900
1 han 30 fu	2 han 30 fu	5800	3900
1 han 40 fu	2 han 40 fu	7600	5100
2 han 30 fu	3 han 30 fu	9700	6500
2 han 40 fu	3 han 40 fu	11200	7500
3 han 30 fu	4 han 30 fu	13700	9100
3 han 40 fu	4 han 40 fu	14000	9200
3 han 50 fu	4 han 50 fu	13800	9200
4 han 40 fu	5 han	16950	11300
5 han	6 han	19650	13100
6 han	7 han	22650	15100

2c. Opponent Ron Scores

Avg Dealer Ron scores by Turn						Avg Non-Dealer Riichi Ron scores by Dealin Tile					
Turn	Ippatsu	Riichi	Tanyao	Yakuhei	Honitsu	19	28	34567	Honor	Dora	Dora +2
4	10400	7100	4600	4500	9800	4800	5000	5400	5900	7600	5800
8	10900	7600	4800	4900	9900	Avg Non-Dealer Ron scores by Dora in calls					
12	11600	8400	5100	5500	10300	Yaku	0	1	2	3	Avg
Avg Non-Dealer Ron scores by Turn						Tanyao	3600	4900	6700	9400	4100
Turn	Ippatsu	Riichi	Tanyao	Yakuhei	Honitsu	Yakuhei	3900	4900	6600	10100	4300
4	7100	5000	3100	2700	6500	Avg Non-Dealer Ron scores by Dora discarded					
8	7600	5400	3100	3000	6700	Thrown	Ippatsu	Riichi	Tanyao	Yakuhei	Honitsu
12	8000	6000	3500	3500	6900	0	7700	5400	3700	3400	7000
Average Oikake Riichi (Turn 10)						1	7300	5100	2800	2800	6600
Who	Good wait	Width	Ron score	Tsumo	Win %	2	7200	4800	2500	2600	6600
D vs ND	66.8%	6.56	9500	12300	40.1%	3	7500	4800	2400	2700	6700
ND vs ND	68.4%	6.62	6700	8600	39.5%	4	5200	4300	2200	2500	6300
ND vs D	72.1%	6.76	7000	8900	41.7%						

2d. Betaori Cost

Turn	vs 0 Riichi			vs 1 Riichi			vs 2 Riichi			vs 3 Riichi		
Self	Dealer	ND		Dealer	ND	ND	Dealer	ND	ND	Dealer	ND	ND
Against	-	-	ND	ND	ND	Dealer	ND ND	ND ND	D ND	3x ND	D ND	ND
8	-1600	-1200	-1900	-1100	-1700	-1700	-900	-1300	-1600	-800	-800	
12	-1500	-1200	-1800	-1200	-1600	-1800	-1100	-1400	-1700	-900	-900	
16	-1300	-1200	-1400	-1300	-1400	-1700	-1500	-1600	-2300	-1900		
Turn	0 others open			1 other open			2 others open			3 others open		
Self	Dealer	ND	Dealer	ND	ND	ND	Dealer	ND	ND	ND	Dealer	ND
Against	-	-	ND	ND	Dealer	ND ND	ND ND	ND ND	D ND	3x ND	D ND	ND
8	-1600	-1200	-1300	-1000	-1100	-1100	-800	-900	-900	-900	-700	
12	-1600	-1200	-1400	-1100	-1200	-1300	-900	-1100	-1100	-1100	-900	
16	-1300	-1200	-1400	-1200	-1200	-1500	-1200	-1300	-1400	-1400	-1300	

2e. Oikake Riichi Winrate

Turn	Sanmenchan+			Ryanmen			Single			Honor		
	Win	Draw	Dealin	Win	Draw	Dealin	Win	Draw	Dealin	Win	Draw	Dealin
8	56%	3%	12%	48%	5%	16%	32%	10%	21%	43%	5%	22%
12	47%	11%	12%	40%	14%	14%	29%	19%	18%	36%	13%	19%
16	33%	47%	6%	22%	50%	7%	14%	51%	10%	18%	59%	8%