

Strength of Field Award System

Regional & Sectional

Pairs and Swiss Team Games

The Current Masterpoint System

- **First Overall = B x R x S x M x P x T**
 - B = Table Count Factor $\{[(\text{tables} + 10)/60]\}$ for less than 60 tables
 - R = Classification Factor (Sectional = 10, Regional = 14)
 - S = Sessions Factor $[0.5x (\text{sessions}+1)]$
 - M = Upper Masterpoint Limit Strength factor (100mp = 0.5, 750mp = .7, UNL = 1)
 - P = Restriction Factor (None = 1, One = 0.8, Two or more = 0.7)
 - T = Type of Game Factor (BAM = 1.1, Individual = 0.75)
- **Table Count is the Dominating Factor**

Large, weak fields receive awards that are too large relative to smaller strong fields.
e.g. A 60 table 99er game pays the same award as a 20 table LM game.
Table counting has become a creative process due to the multiplicity of events.
“A” Flights continue to shrink as we raise the limits for the “B” Flights.
Open Pairs games are shrinking because awards for limited games are not significantly lower.
- **M-Factor is out-dated**

Expanded use of flying and strata-flying causes distortion.
Strength of a flight is more heavily dependent on lower limit (top of flight below).
Masterpoint inflation has antiquated these values.
- **T-Factor serves no real purpose**

Individual events are virtually nonexistent and BAM are rare.
If these events are truly weaker or stronger, an SOF based formula will compensate

Criteria for the SOF Award System

- **Measurement of Field Strength**

Average Masterpoint Holdings are our best measure of field strength.

Individual masterpoint holdings must be capped to eliminate distortions in small fields.

Masterpoint Caps used are 20,000 per pair or 40,000 per four-man team.

- **Table Count Measurement**

Only tables actually in an event should be counted.

SOF awards should be based on a combination of field strength and table count.

The median size of 1513 two-session Regional events played in 2010 was 22 tables.

Only 5% of these events reached the 60 table mark which was selected as a maximum size.

- **Relationship to Knockout SOF Formula**

The Knockout SOF award method has been implemented successfully and proven for several years.

We have an established relationship between two-session and four-session awards ($1.5/2.5 = 60\%$).

Regional four-session KO awards range from 6 to 65 masterpoints for a 16 team bracket.

These values suggest a two-session award range of 3.6 to 39 masterpoints for an equivalent (32 table) pair game.

- **Aggregate SOF Awards should equal Current Aggregate Awards**

SOF awards are tested against a database of all 2010 events.

Overall, SOF awards should produce minimal masterpoint inflation or deflation.

- **Established Relationships should be maintained**

P-Factor (Restrictions) should be unchanged.

R-Factor (Classifications) should be unchanged.

S-Factor (Sessions) should be unchanged.

SOF – Genesis of the Formula

- The Maximum Award (50 MP) is attained for 60 Tables with a 6200 MP Average.
- Awards for fields with a 1,250 MP Average approximate our current awards for all game sizes. This is the strength of a typical Open Pairs/Swiss game.
- Awards for large games with a MP Average of 250 would be approximately 12 MP.
- Very small weak games will pay 2.50 MP. This is the current award for an 8 table 299er game.

Basic SOF Formula

For Average Masterpoints $\leq 1,250$

$$\text{AWARD} = 1.000s + 2.250 + (T/60) (12.158 s + 6.461)$$

For Average Masterpoints $\geq 1,250$

$$\text{AWARD} = 2.000s + 1.000 + (T/60) (3.130s + 17.087)$$

Where: s = Average Masterpoints/1000 per player subject to a 20,000 limit per pair

And: T = Tables subject to a maximum of 60
Average Masterpoints are based on the highest 120 pairs

Minimum Award = 2.50 Masterpoints

Maximum Award = 50 Masterpoints

Adjustments to Basic Formula

- The top “A” Stratum of a Stratified Event will pay a minimum of 110% of the standalone award calculated for that Stratum.
- Awards for Stand-alone Flight A events are 110% of the basic formula value.
- Awards for any bracket of a bracketed Swiss Team event will be increased by $0.1 \times (s - 1.25)$ if the average masterpoint holding is 1250 or greater.

Overall Awards below First Place

Overall Position	1 Session	2 Sessions	3 or more Sessions
2 nd	75% of 1 st	75% of 1 st	75% of 1 st
3 rd	75% of 2 nd	75% of 2 nd	75% of 2 nd
4 th	75% of 3 rd	75% of 3 rd	Formula Below
5 th	75% of 4 th	Formula Below	
6 th	75% of 5 th		
7 th	75% of 6 th		
8 th	75% of 7 th		
9 th +	1 st Place / Position		

$$\text{Award} = (\text{Sessions} \times 1^{\text{st}}) / [\text{Place} + (2 \times \text{Sessions}) - 3]$$

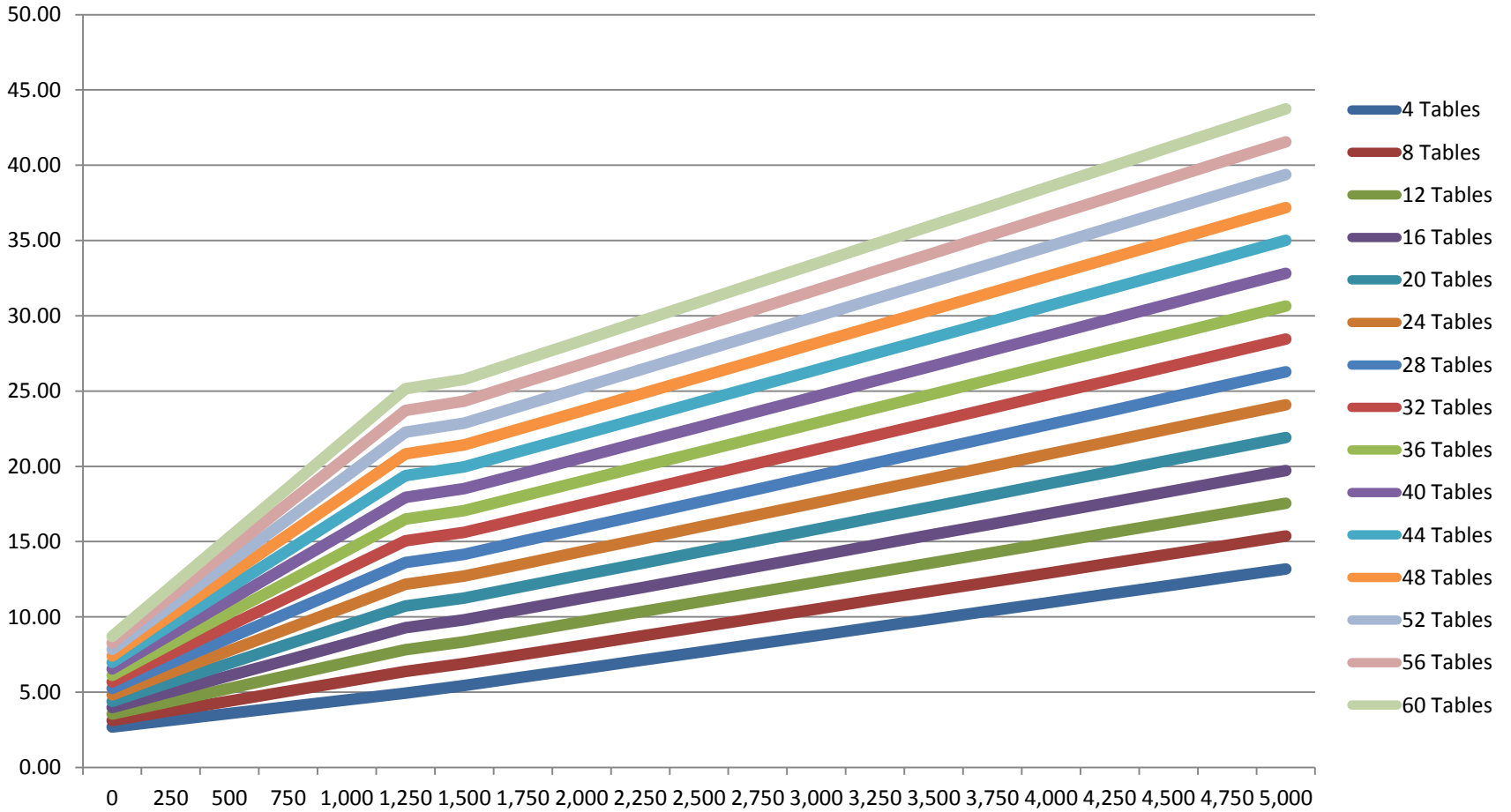
Session Awards

- Session Awards will be calculated from the Overall SOF value.
- The 1st Place Award will be 50% of the one-session award for the table count in the comparison.
- SOF **will not be calculated** for individual sections.
- Depth of Session Awards will be the same as in the current system.

Sample SOF Awards

<u>TABLES</u>	0	250	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
4	2.68	3.13	3.59	4.04	4.49	4.94	5.45	6.00	6.56	7.11	7.66	8.21	8.77	9.32	9.87	10.42	10.97	11.53	12.08	12.63	13.18
8	3.11	3.77	4.42	5.08	5.73	6.39	6.90	7.51	8.11	8.72	9.32	9.93	10.53	11.13	11.74	12.34	12.95	13.55	14.16	14.76	15.36
12	3.54	4.40	5.26	6.12	6.97	7.83	8.36	9.01	9.67	10.33	10.98	11.64	12.30	12.95	13.61	14.26	14.92	15.58	16.23	16.89	17.55
16	3.97	5.03	6.09	7.15	8.22	9.28	9.81	10.52	11.23	11.93	12.64	13.35	14.06	14.77	15.48	16.19	16.90	17.60	18.31	19.02	19.73
20	4.40	5.67	6.93	8.19	9.46	10.72	11.26	12.02	12.78	13.54	14.30	15.06	15.83	16.59	17.35	18.11	18.87	19.63	20.39	21.15	21.91
24	4.83	6.30	7.77	9.23	10.70	12.16	12.71	13.53	14.34	15.15	15.96	16.78	17.59	18.40	19.22	20.03	20.84	21.66	22.47	23.28	24.09
28	5.27	6.93	8.60	10.27	11.94	13.61	14.16	15.03	15.90	16.76	17.63	18.49	19.36	20.22	21.09	21.95	22.82	23.68	24.55	25.41	26.28
32	5.70	7.57	9.44	11.31	13.18	15.05	15.62	16.53	17.45	18.37	19.29	20.20	21.12	22.04	22.96	23.87	24.79	25.71	26.63	27.54	28.46
36	6.13	8.20	10.27	12.35	14.42	16.50	17.07	18.04	19.01	19.98	20.95	21.92	22.89	23.86	24.83	25.79	26.76	27.73	28.70	29.67	30.64
40	6.56	8.83	11.11	13.39	15.66	17.94	18.52	19.54	20.56	21.59	22.61	23.63	24.65	25.67	26.69	27.72	28.74	29.76	30.78	31.80	32.82
44	6.99	9.47	11.95	14.42	16.90	19.38	19.97	21.05	22.12	23.19	24.27	25.34	26.42	27.49	28.56	29.64	30.71	31.79	32.86	33.93	35.01
48	7.42	10.10	12.78	15.46	18.15	20.83	21.43	22.55	23.68	24.80	25.93	27.06	28.18	29.31	30.43	31.56	32.69	33.81	34.94	36.06	37.19
52	7.85	10.73	13.62	16.50	19.39	22.27	22.88	24.06	25.23	26.41	27.59	28.77	29.95	31.12	32.30	33.48	34.66	35.84	37.02	38.19	39.37
56	8.28	11.37	14.45	17.54	20.63	23.71	24.33	25.56	26.79	28.02	29.25	30.48	31.71	32.94	34.17	35.40	36.63	37.86	39.09	40.32	41.55
60	8.71	12.00	15.29	18.58	21.87	25.16	25.78	27.06	28.35	29.63	30.91	32.19	33.48	34.76	36.04	37.32	38.61	39.89	41.17	42.45	43.74

SOF Awards



2010 Two-Session Regional Events

SOF vs. Current Awards - Commentary

- This table which follows is a Summary Comparison of SOF awards to actual awards for all 2010 two-session Regional events.
- These comparisons demonstrate that we have a formula that closely reproduces the 2010 award levels, in the aggregate and for segregated groups of games. The SOF methodology is designed to stand us in good stead going forward.
- Total masterpoints that would have been awarded under the SOF formula are less than 5% below 2010 levels. The continuing growth of our members' masterpoint holdings will result in 2012 award levels being at the desired level..
- Top Strata awards increased for unlimited games and decreased for limited games. This demonstrates the fairness aspect of the SOF formula. The large (41+ tables) 0-750 games have average masterpoint values in the 250 range. The awards for these games decreased from an average award of 15.98 under the current system to an award of 11.20 under SOF.
- While the primary component of the new system is SOF, table count is not ignored. SOF properly ignores the table count or other extraneous events being conducted concurrently. This method will not fail us when we invent new events or reconstruct levels for strata or flights.

