

Another Look at the Fit of Disc Golf Courses to Players

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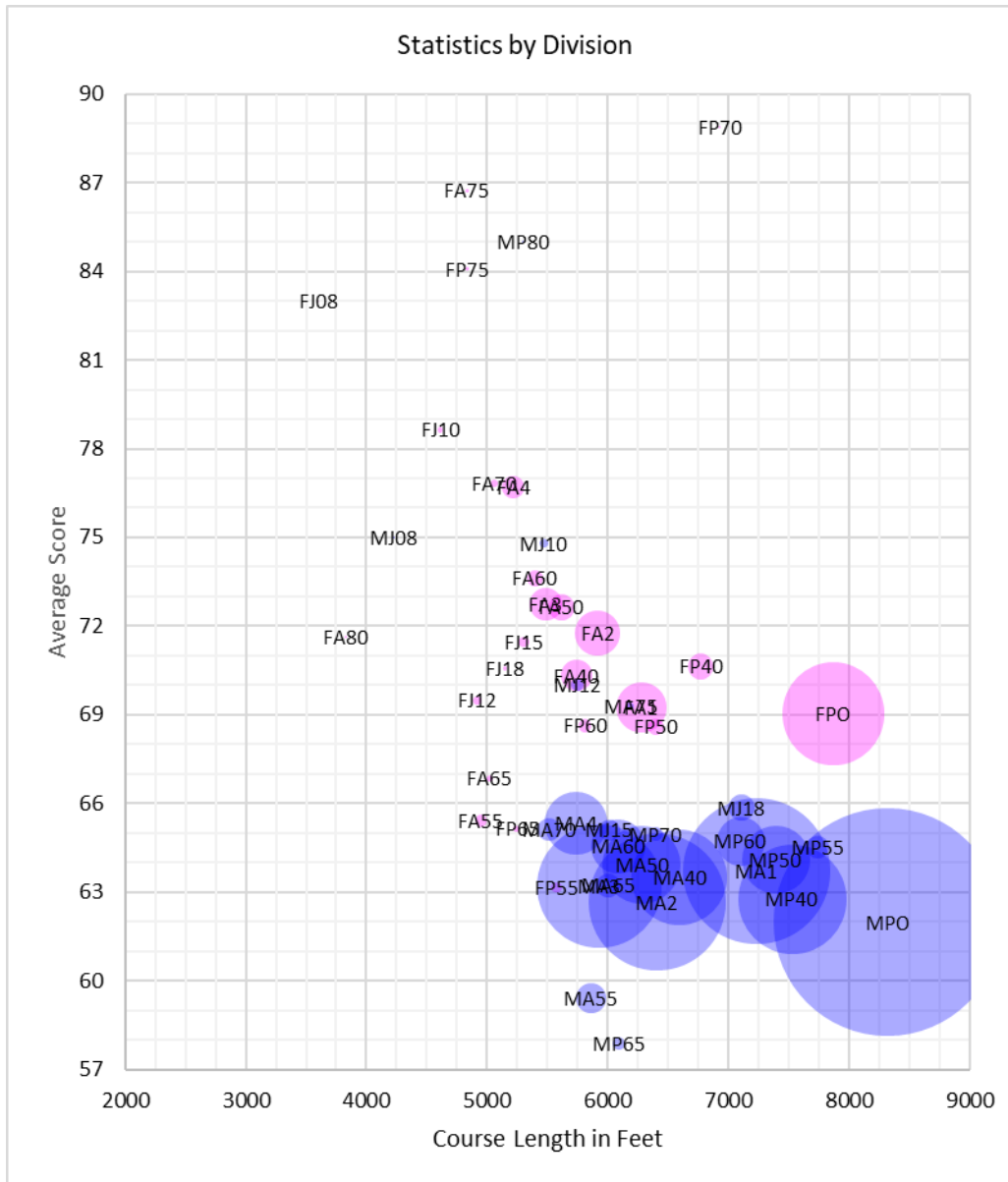
I had data from 143,176 player-rounds played in 2023. These were from tournaments that had at least a few 1000+rated MPO players or a few 930+rated FPO players. This includes most A-Tier and up Pro events, some Pro-Am, and the bigger B-tiers.

The Average Course Length, Average Score, and Number of Rounds of data are as follows:

(Course Lengths and Scores are normalized to 18 holes.)

Division	Length@18	Score@18	Rounds	Division	Length@18	Score@18	Rounds
FA1	6,277	69.3	2,084	MA1	7,234	63.7	17,791
FA2	5,917	71.8	1,667	MA2	6,415	62.7	15,545
FA3	5,485	72.7	896	MA3	5,931	63.2	12,617
FA4	5,215	76.7	452	MA4	5,742	65.3	3,255
FA40	5,747	70.3	805	MA40	6,593	63.5	7,581
FA50	5,618	72.6	551	MA50	6,281	63.9	5,076
FA55	4,954	65.4	110	MA55	5,862	59.4	788
FA60	5,397	73.6	237	MA60	6,089	64.5	2,427
FA65	5,023	66.8	37	MA65	6,006	63.2	476
FA70	5,059	76.8	53	MA70	5,514	65.1	430
FA75	4,831	86.8	12	MA75	6,190	69.3	44
FA80	3,829	71.6	5	MA80	na	na	0
FJ08	3,601	83.0	1	MJ08	4,224	75.0	2
FJ10	4,612	78.6	28	MJ10	5,475	74.8	59
FJ12	4,916	69.5	67	MJ12	5,752	70.0	130
FJ15	5,302	71.5	98	MJ15	6,019	65.1	382
FJ18	5,145	70.6	14	MJ18	7,109	65.9	553
FP40	6,772	70.6	568	MP40	7,531	62.8	9,739
FP50	6,401	68.6	220	MP50	7,395	64.1	3,809
FP55	5,576	63.1	87	MP55	7,745	64.5	413
FP60	5,812	68.6	141	MP60	7,103	64.7	1,928
FP65	5,247	65.2	32	MP65	6,095	57.9	140
FP70	6,929	88.9	6	MP70	6,403	65.0	150
FP75	4,831	84.1	12	MP75	na	na	0
FP80	na	na	0	MP80	5,301	85.0	6
FPO	7,872	69.0	8,732	MPO	8,322	62.0	42,920

In Graph form:



As can be seen, most tournaments serve the M divisions and offer courses that score between 60 and 66. In fact, the average score over all rounds all divisions is 63.8, so we can assume that is a good score for tournaments to offer.

Yet, most F divisions have scores larger than that. This indicates those divisions are playing on courses that are too long for them. It's possible to compute how long the courses would need to be for all divisions to get the same average score. We can find feet per throw by assuming every hole takes two throws to finish (regardless of length) and dividing the length of the course by the remaining score.

(A more formal method would be to find the linear fit to calculate the number of non-length related throws. However, that usually comes out near two throws per hole, and we are only interested in adjustments, not in nailing the exact score from scratch.)

Division	Feet/Throw	Ideal Length	Adjustment	F/M	Division	Feet/Throw	Ideal Length	Adjustment
FA1	189	5,245	-1,033	72%	MA1	261	7,254	20
FA2	165	4,597	-1,320	69%	MA2	241	6,687	272
FA3	149	4,148	-1,337	68%	MA3	218	6,059	128
FA4	128	3,561	-1,655	65%	MA4	196	5,442	-300
FA40	167	4,652	-1,095	70%	MA40	240	6,662	69
FA50	153	4,262	-1,356	68%	MA50	225	6,249	-32
FA55	168	4,679	-275	67%	MA55	251	6,961	1,098
FA60	143	3,987	-1,410	67%	MA60	213	5,928	-162
FA65	163	4,526	-498	74%	MA65	221	6,127	121
FA70	124	3,443	-1,616	65%	MA70	189	5,260	-254
FA75	95	2,645	-2,186	51%	MA75	186	5,166	-1,024
FA80	107	2,985	-844	na	MA80	na	na	0
FJ08	77	2,129	-1,472	71%	MJ08	108	3,009	-1,215
FJ10	108	3,005	-1,607	77%	MJ10	141	3,921	-1,554
FJ12	147	4,080	-836	87%	MJ12	169	4,701	-1,051
FJ15	150	4,155	-1,147	72%	MJ15	207	5,745	-274
FJ18	149	4,135	-1,010	62%	MJ18	238	6,618	-492
FP40	195	5,431	-1,341	69%	MP40	281	7,821	290
FP50	196	5,458	-943	75%	MP50	263	7,314	-81
FP55	205	5,709	132	76%	MP55	272	7,545	-200
FP60	178	4,948	-864	72%	MP60	247	6,875	-228
FP65	180	5,000	-247	65%	MP65	279	7,741	1,646
FP70	131	3,642	-3,287	59%	MP70	221	6,145	-258
FP75	100	2,792	-2,039	na	MP75	na	na	0
FP80	na	na	0	na	MP80	108	3,006	-2,295
FPO	238	6,621	-1,251	74%	MPO	320	8,903	581

Actual vs. Ideal Course Lengths by Division

