Building a Rating Set for Royal Ascot +
Speed Pars for every Pattern Race +
Market Movement Analysis

By Paul Fitzgerald

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With Royal Ascot less than a week away now, it's time to get into research mode and prepare for the feast of top-quality racing that shortly awaits us. I've always found the myriad of analytical tools contained within the Proform software to be a huge help in this regard.

As with the Cheltenham Festival, what I find most enjoyable in terms of research for Royal Ascot is looking for angles in the long-established Class 1 non handicap races. These races attract a similar calibre of horse each year, raw equine ability matters, and reliable benchmarks for the level of ability required to achieve victory can be established from the many previous running's of each individual contest.

Royal Ascot features 22 long established Group and Listed races over its five days. These are the races where the top and indeed elite racehorses compete against each other and are the races we will concentrate on for this article.

As anyone that has followed the sport for any length of time will know, in conservations of Royal Ascot it generally wont take too long before names such as Aidan O'Brien, Ryan Moore, Frankie Dettori, John Gosden, and phrases such as "Derby Winner", "Ran well in the Guineas", "Top Rated 2 year old", "Ran a huge rating in…" etc., will be mentioned. Themes of top trainers, top jockeys and top racehorses regularly emerge.

So, to start I wanted to take a look at these themes and see if they are backed up by actual figures.

There were 215 Group and Listed races run at Royal Ascot over the last 10 editions of the meeting (2014-2023)

Using the **Proform System Builder**, I looked at the number of winners by Trainer, Jockey and Official rating rank (horse) for these races…

Jockey	Runners	Winners
Ryan Moore	211	44
Frankie Dettori	152	31
William Buick	145	17
James Doyle	150	14
Daniel Tudhope	54	9
Jim Crowley	95	8
Oisin Murphy	109	7
Adam Kirby	75	6

Trainer	Runners	Winners
A P O'Brien	280	41
John Gosden	163	26
Sir Michael Stoute	80	13
Charlie Appleby	101	12
Roger Varian	83	8
Wesley A Ward	67	8
Richard Fahey	71	6
Mark Johnston	106	6

Official Rating Rank	Runners	Winners
1	185	52
2	159	34
3	159	15

The figures returned in the tables below are quite revealing. In terms of Royal Ascot's claim to be "reserved for the best" in terms of social occasion, a largely similar claim can be applied to its contestants, both human and equine when it comes to the actual racing action.

Jockey Group	No. Jockeys	Winners	Total Winners	IV
Top 8 Jockeys	8	136	63.26%	1.84
The Rest	186	79	36.74%	0.56
Totals	194	215	100.00%	

Trainer Group	No. Jockeys	Winners	Total Winners	IV
Top 8 Trainers	8	125	58.14%	1.69
The Rest	297	90	41.86%	0.66
Totals	305	215	100.00%	

Official Rating Group	No. Horses	Winners	Total Winners	IV
Top 3 Rated	503	101	66.01%	2.37
The Rest	1277	52	33.99%	0.48
Totals	1780	153		

Jockey Group – *Just 8 of the 194 jockeys that rode in these races won almost two thirds of them.*

Trainer Group – *Just 2.68% of the total trainer population in these races won almost 60% of them.*

Official Rating Group (2yo races excluded) – *Two thirds of all non 2yo races were won by the Top 3 Rated.*

So how does this information help us to find winners and make a profit next week. And given that's it based on the past what relevance will it have in the future anyway?

To address the latter point – Prestige, status, media exposure, relatively large prizemoney, breeding and bloodstock values, good old intra-millionaire equine warfare - to name but a few, are all wrapped up in five days racing next week. Annually that's open-ended. Add in the rise of the "super-trainer", wealthy owners with their "go-to" jockeys, and the seemingly ever-increasing trend of the best bloodstock ending up in fewer and fewer hands, it's reasonable to assume that the concentration of power shown in the tables above will continue for a few years yet.

In terms of finding winners in the Group and Listed races next week, narrowing fields down to "Top Rated, trained by A P O'Brien, ridden by Ryan Moore" etc., will probably provide a few winners alright, but its market transparent stuff and over time is unlikely to achieve much in terms of betting profit.

So, the task was to consider the concentration of power as outlined above, whilst also producing something that may not be as readily identifiable to the market in terms of obtaining betting value.

Amongst the many rating sets to be found within the Proform Software, one that seems to go under the radar a bit are the **PRC** ratings. To the best of my knowledge, they are not used in the calculation of any of the Proform composite ratings or the signature Proform Power Rating. I don't hear them mentioned much in the members group and they are not speed ratings. But they are calculated on a *class weighting number*, *the finishing position last time out* and the *number of runners in the last race*. There are four **PRC** ratings in the software, a PRC rating achieved for each of the last 3 runs, plus a rating that averages the ratings of those last 3 runs. Along with the horse ability component covered by the **PRC** ratings, I also wanted to factor in the Trainer, Jockey, and Trainer/Jockey factors and produce a rating that I hope would speak to the figures outlined in the tables above.

An illustration of what this looks like in the Proform software (Race Card) view can be seen in the picture below…

Ascot (RH - Galloping) (Saturday 18 Jun 2022)
16:20 Platinum Jubilee Stakes (Group 1) (British Champions Series) (Class A) (Class 1)
6f
Turf [New Class A / 1] (Speed Class Par: 79)   Time: 72.17 Seconds   (Total SP 133.5%)

Position	BSP	Horse	Trainer	Jockey	PRCAV	PRC1	PRC2	PRC3	Trn Stats	Jky Stats	TrnJky Stats	EvP
1	75.00	Naval Crown	Charlie Appleby	James Doyle	95	98	94	94	92	62	75	34.00
2	18.63	Creative Force (IRE)	Charlie Appleby	William Buick	94	99	89	95	92	91	80	11.00
3	12.94	Campanelle (IRE)	Wesley A Ward	Irad Ortiz Jr	99	99	99	0	3	-26	-14	12.00
3	13.30	Artorius (AUS)	Anthony and Sam Freedman	Jamie Spencer	0	0	0	0	-18	31	10	10.00
5	11.50	Sacred	William Haggas	Tom Marquand	94	98	87	98	78	38	64	9.00
6	8.19	Highfield Princess (FR)	John Quinn	Jason Hart	96	98	94	96	17	10	36	15.00
7	44.50	Happy Romance (IRE)	Richard Hannon	Sean Levey	93	89	93	97	25	27	40	21.00
8	55.52	Kinross	Ralph Beckett	Frankie Dettori	94	93	91	98	30	86	57	41.00
9	20.77	Alcohol Free (IRE)	Andrew Balding	Rob Hornby	88	91	90	84	47	4	43	23.00
10	199.51	Run To Freedom	Henry Candy	Dane O'Neill	87	97	90	75	12	42	10	101.00
11	35.96	Double Or Bubble (IRE)	Chris Wall	Jack Mitchell	92	98	82	97	54	40	30	67.00
12	99.99	Diligent Harry	Clive Cox	Adam Kirby	90	94	83	94	41	27	34	51.00
13	16.34	Minzaal (IRE)	Owen Burrows	Jim Crowley	95	93	97	95	66	67	78	15.00
14	58.49	King's Lynn	Andrew Balding	David Probert	90	91	98	81	47	-3	12	41.00
15	65.00	Emaraaty Ana	Kevin Ryan	Andrea Atzeni	95	98	97	91	21	70	46	26.00
16	495.30	Gustavus Weston (IRE)	Joseph G Murphy	Gary Carroll	86	87	89	83	5	15	28	101.00
17	31.90	A Case Of You (IRE)	Adrian McGuinness	Ronan Whelan	94	93	97	91	-6	-16	25	15.00
18	102.83	Umm Kulthum (IRE)	Richard Fahey	Colin Keane	94	97	94	91	8	37	54	51.00
19	72.69	Grenadier Guards (JPN)	Mitsumasa Nakauchida	C Demuro	0	0	0	0	-18	-1	10	29.00
20	3.90	Home Affairs (AUS)	C J Waller	J B McDonald	0	0	0	0	74	59	79	3.00
21	103.43	Garrus (IRE)	Charles Hills	Ryan Moore	92	91	95	89	30	73	39	51.00
22	50.00	Vadream	Charlie Fellowes	Daniel Tudhope	93	87	95	98	44	63	9	51.00
23	55.21	Dragon Symbol	Roger Varian	David Egan	89	96	84	86	68	23	61	41.00
24	47.82	Great Ambassador	Ed Walker	Richard Kingscote	96	97	95	97	55	43	2	34.00

So, what I wanted to do was combine all 7 ratings into a composite rating lets call it **FPR** (Flat Pattern Rating) and then check how it performed at Royal Ascot between 2014 and 2023.

This next bit is boring spreadsheet work. I won't go into too much detail here, but the spreadsheet will be available on the members group (Platinum membership required) by the weekend so the **FPR** rating can be easily calculated by any Proform member that wishes to do so.

The screen shot of the entire width of the spreadsheet isn't legible, so it's also divided into two parts to make it clearer.

Part 1…The WHITE and BLUE columns contain data imported directly from Proform. In the ORANGE columns all 7 ratings have been normalised to the same scale, namely 0 to 1. So, the top-rated value for each rating is awarded a 1, the bottom rated rating is awarded a 0 and all points in between. All ratings where no PRC values are awarded – common in 2yo races, less common in 3yo races but still enough of them, and foreign (non GB/IRE) runners with no previous runs in the database have been awarded an average PRC rating equivalent to their evening before price.

Course	Race Date	Race Time	Position	Horse	BF Decimal SP	PRC Average	PRC Last Run	PRC 2nd Last Run	PRC 3rd Last Run	Trn Stats	Jky Stats	TrnJky Stats	PRC Average - N	PRC Last Run - N	PRC 2nd Last Run - N	PRC 3rd Last Run - N	Trn Stats - N	Jcky Stats - N	Trn/Jky Stats - N
Ascot	18/06/2022	16:20	2	Creative Force	18.63	94	99	89	95	92	91	80	0.86	1.00	0.72	0.90	1.00	1.00	1.00
Ascot	18/06/2022	16:20	1	Naval Crown	75	95	98	94	94	92	62	75	0.89	0.98	0.86	0.87	1.00	0.75	0.95
Ascot	18/06/2022	16:20	13	Minzaal	16.34	95	93	97	95	66	67	78	0.89	0.85	0.94	0.90	0.76	0.79	0.98
Ascot	18/06/2022	16:20	5	Sacred	11.5	94	98	87	98	78	38	64	0.86	0.98	0.67	1.00	0.87	0.55	0.83
Ascot	18/06/2022	16:20	8	Kinross	55.52	94	93	91	98	30	86	57	0.86	0.85	0.78	1.00	0.44	0.96	0.76
Ascot	18/06/2022	16:20	15	Emaraaty Ana	65	95	98	97	91	21	70	46	0.89	0.98	0.94	0.77	0.35	0.82	0.64
Ascot	18/06/2022	16:20	24	Great Ambassador	47.82	96	97	95	97	55	43	2	0.92	0.95	0.89	0.97	0.66	0.59	0.17
Ascot	18/06/2022	16:20	21	Garrus	103.43	92	91	95	89	30	73	39	0.81	0.80	0.89	0.71	0.44	0.85	0.56
Ascot	18/06/2022	16:20	11	Double Or Bubble	35.96	92	98	82	97	54	40	30	0.81	0.98	0.53	0.97	0.65	0.56	0.47
Ascot	18/06/2022	16:20	22	Vadream	50	93	87	95	98	44	63	9	0.84	0.71	0.89	1.00	0.56	0.76	0.24
Ascot	18/06/2022	16:20	18	Umm Kulthum	102.83	94	97	94	91	8	37	54	0.86	0.95	0.86	0.77	0.24	0.54	0.72
Ascot	18/06/2022	16:20	23	Dragon Symbol	55.21	89	96	84	86	68	23	61	0.73	0.93	0.58	0.61	0.78	0.42	0.80
Ascot	18/06/2022	16:20	6	Highfield Princess	8.19	96	98	94	96	17	10	36	0.92	0.98	0.86	0.94	0.32	0.31	0.53
Ascot	18/06/2022	16:20	7	Happy Romance	44.5	93	89	93	97	25	27	40	0.84	0.76	0.83	0.97	0.39	0.45	0.57
Ascot	18/06/2022	16:20	12	Diligent Harry	99.99	90	94	83	94	41	27	34	0.76	0.88	0.56	0.87	0.54	0.45	0.51
Ascot	18/06/2022	16:20	9	Alcohol Free	20.77	88	91	90	84	47	4	43	0.70	0.80	0.75	0.55	0.59	0.26	0.61
Ascot	18/06/2022	16:20	14	King's Lynn	58.49	90	91	98	81	47	-3	12	0.76	0.80	0.97	0.45	0.59	0.20	0.28
Ascot	18/06/2022	16:20	20	Home Affairs	3.9	78	81	76	73	74	59	79	0.43	0.56	0.36	0.19	0.84	0.73	0.99
Ascot	18/06/2022	16:20	10	Run To Freedom	199.51	87	97	90	75	12	42	10	0.68	0.95	0.75	0.26	0.27	0.58	0.26
Ascot	18/06/2022	16:20	17	A Case Of You	31.9	94	93	97	91	-6	-16	25	0.86	0.85	0.94	0.77	0.11	0.09	0.41
Ascot	18/06/2022	16:20	3	Campanelle	12.94	99	99	99	69	3	-26	-14	1.00	1.00	1.00	0.06	0.19	0.00	0.00
Ascot	18/06/2022	16:20	16	Gustavus Weston	495.3	86	87	89	83	5	15	28	0.65	0.71	0.72	0.52	0.21	0.35	0.45
Ascot	18/06/2022	16:20	3	Artorius	13.3	69	68	69	70	-18	31	10	0.19	0.24	0.17	0.10	0.00	0.49	0.26
Ascot	18/06/2022	16:20	19	Grenadier Guards	72.69	62	58	63	67	-18	-1	10	0.00	0.00	0.00	0.00	0.00	0.21	0.26

Part 2…The normalised ORANGE column values have then been weighted using my own machine learning process. To avoid the weighting process marking its own homework by using Royal Ascot data only, data from over 24000 UK Group and Listed races since 2013, excluding Royal Ascot was used to calculate the weightings.

It's very simple – basically the normalised value in the ORANGE column is multiplied by its weighting for all 7 ratings in the GREEN column and those GREEN column values are then added together to produce a final rating in the PURPLE column.

A	B	C	D	E	F	U	V	W	X	Y	Z	AA	AB
Course	Race Date	Race Time	Position	Horse	BF Decimal SP	PRC Average - W	PRC Last Run - W	PRC 2nd Last Run - W	PRC 3rd Last Run - W	Trn Stats - W	Jcky Stats - W	Trn/Jky Stats - W	Rating
Ascot	18/06/2022	16:20	2	Creative Force	18.63	0.8649	0.6439	0.2341	0.2679	0.5793	0.6174	0.3539	3.5613
Ascot	18/06/2022	16:20	1	Naval Crown	75	0.8919	0.6282	0.2791	0.2583	0.5793	0.4644	0.3351	3.4362
Ascot	18/06/2022	16:20	13	Minzaal	16.34	0.8919	0.5497	0.3061	0.2679	0.4424	0.4908	0.3464	3.2951
Ascot	18/06/2022	16:20	5	Sacred	11.5	0.8649	0.6282	0.2161	0.2966	0.5056	0.3377	0.2937	3.1427
Ascot	18/06/2022	16:20	8	Kinross	55.52	0.8649	0.5497	0.2521	0.2966	0.2528	0.5910	0.2673	3.0743
Ascot	18/06/2022	16:20	15	Emaraaty Ana	65	0.8919	0.6282	0.3061	0.2296	0.2054	0.5066	0.2259	2.9937
Ascot	18/06/2022	16:20	24	Great Ambassador	47.82	0.9189	0.6125	0.2881	0.2870	0.3844	0.3641	0.0602	2.9153
Ascot	18/06/2022	16:20	21	Garrus	103.43	0.8108	0.5183	0.2881	0.2105	0.2528	0.5224	0.1995	2.8024
Ascot	18/06/2022	16:20	11	Double Or Bubble	35.96	0.8108	0.6282	0.1711	0.2870	0.3792	0.3483	0.1657	2.7902
Ascot	18/06/2022	16:20	22	Vadream	50	0.8378	0.4554	0.2881	0.2966	0.3265	0.4696	0.0866	2.7607
Ascot	18/06/2022	16:20	18	Umm Kulthum	102.83	0.8649	0.6125	0.2791	0.2296	0.1369	0.3324	0.2560	2.7115
Ascot	18/06/2022	16:20	23	Dragon Symbol	55.21	0.7297	0.5968	0.1891	0.1818	0.4529	0.2586	0.2824	2.6912
Ascot	18/06/2022	16:20	6	Highfield Princess	8.19	0.9189	0.6282	0.2791	0.2775	0.1843	0.1900	0.1882	2.6662
Ascot	18/06/2022	16:20	7	Happy Romance	44.5	0.8378	0.4869	0.2701	0.2870	0.2265	0.2797	0.2033	2.5912
Ascot	18/06/2022	16:20	12	Diligent Harry	99.99	0.7568	0.5654	0.1801	0.2583	0.3107	0.2797	0.1807	2.5316
Ascot	18/06/2022	16:20	9	Alcohol Free	20.77	0.7027	0.5183	0.2431	0.1627	0.3423	0.1583	0.2146	2.3419
Ascot	18/06/2022	16:20	14	King's Lynn	58.49	0.7568	0.5183	0.3151	0.1339	0.3423	0.1214	0.0979	2.2856
Ascot	18/06/2022	16:20	20	Home Affairs	3.9	0.4324	0.3612	0.1170	0.0574	0.4845	0.4485	0.3501	2.2513
Ascot	18/06/2022	16:20	10	Run To Freedom	199.51	0.6757	0.6125	0.2431	0.0765	0.1580	0.3588	0.0904	2.2150
Ascot	18/06/2022	16:20	17	A Case Of You	31.9	0.8649	0.5497	0.3061	0.2296	0.0632	0.0528	0.1468	2.2131
Ascot	18/06/2022	16:20	3	Campanelle	12.94	1.0000	0.6439	0.3241	0.0191	0.1106	0.0000	0.0000	2.0977
Ascot	18/06/2022	16:20	16	Gustavus Weston	495.3	0.6486	0.4554	0.2341	0.1531	0.1211	0.2164	0.1581	1.9869
Ascot	18/06/2022	16:20	3	Artorius	13.3	0.1892	0.1570	0.0540	0.0287	0.0000	0.3008	0.0904	0.8201
Ascot	18/06/2022	16:20	19	Grenadier Guards	72.69	0.0000	0.0000	0.0000	0.0000	0.0000	0.1319	0.0904	0.2223

For interest the weightings for the 7 rating sets returned as follows...

Variable	Score
PRCAVERAGE	100
PRCLASTRUN	64.39
JKYSTATS	61.74
TRNSTATS	57.93
TRNJKYSTATS	35.39
PRC2NDLASTRUN	32.41
PRC3RDLASTRUN	29.66

Of course, a race that worked out well is used as the example 😊 - but the first and second in the 2022 edition of Platinum Jubilee had solid UK and Ascot numbers from their previous form that is reflected well in their PRC Ratings, and connections numbers need no explanation at all. In any event we'll do a full analysis of all results since 2013 in the next stage. This is easily achieved by importing our calculated ratings into one of the four User Rating columns available in the Proform software. They have been imported into User Rating 4 in this case, as shown below...

Ascot (RH - Galloping) (Saturday 18 Jun 2022)
16:20 Platinum Jubilee Stakes (Group 1) (British Champions Series) (Class A) (Class 1)

6f
Turf [New Class A / 1] (Speed Class Par: 79)   Time: 72.17 Seconds   (Total SP 133.5%)

Horse	User Rating 4	Position	BSP	Trainer	Jockey	PRCAV	PRC1	PRC2	PRC3	Trn Stats	Jky Stats	TrnJky Stats	EvP
Creative Force (IRE)	3.56	2	18.63	Charlie Appleby	William Buick	94	99	89	95	92	91	80	11.00
Naval Crown	3.44	1	75.00	Charlie Appleby	James Doyle	95	98	94	94	92	62	75	34.00
Minzaal (IRE)	3.30	13	16.34	Owen Burrows	Jim Crowley	95	93	97	95	66	67	78	15.00
Sacred	3.14	5	11.50	William Haggas	Tom Marquand	94	98	87	98	78	38	64	9.00
Kinross	3.07	8	55.52	Ralph Beckett	Frankie Dettori	94	93	91	98	30	86	57	41.00
Emaraaty Ana	2.99	15	65.00	Kevin Ryan	Andrea Atzeni	95	98	97	91	21	70	46	26.00
Great Ambassador	2.92	24	47.82	Ed Walker	Richard Kingscote	96	97	95	97	55	43	2	34.00
Garrus (IRE)	2.80	21	103.43	Charles Hills	Ryan Moore	92	91	95	89	30	73	39	51.00
Double Or Bubble (IRE)	2.79	11	35.96	Chris Wall	Jack Mitchell	92	98	82	97	54	40	30	67.00
Vadream	2.76	22	50.00	Charlie Fellowes	Daniel Tudhope	93	87	95	98	44	63	9	51.00
Umm Kulthum (IRE)	2.71	18	102.83	Richard Fahey	Colin Keane	94	97	94	91	8	37	54	51.00
Dragon Symbol	2.69	23	55.21	Roger Varian	David Egan	89	96	84	86	68	23	61	41.00
Highfield Princess (FR)	2.67	6	8.19	John Quinn	Jason Hart	96	98	94	96	17	10	36	15.00
Happy Romance (IRE)	2.59	7	44.50	Richard Hannon	Sean Levey	93	89	93	97	25	27	40	21.00
Diligent Harry	2.53	12	99.99	Clive Cox	Adam Kirby	90	94	83	94	41	27	34	51.00
Alcohol Free (IRE)	2.34	9	20.77	Andrew Balding	Rob Hornby	88	91	90	84	47	4	43	23.00
King's Lynn	2.29	14	58.49	Andrew Balding	David Probert	90	91	98	81	47	-3	12	41.00
Home Affairs (AUS)	2.25	20	3.90	C J Waller	J B McDonald	0	0	0	0	74	59	79	3.00
Run To Freedom	2.21	10	199.51	Henry Candy	Dane O'Neill	87	97	90	75	12	42	10	101.00
A Case Of You (IRE)	2.21	17	31.90	Adrian McGuinness	Ronan Whelan	94	93	97	91	-6	-16	25	15.00
Campanelle (IRE)	2.10	3	12.94	Wesley A Ward	Irad Ortiz Jr	99	99	99	0	3	-26	-14	12.00
Gustavus Weston (IRE)	1.99	16	495.30	Joseph G Murphy	Gary Carroll	86	87	89	83	5	15	28	101.00
Artorius (AUS)	0.82	3	13.30	Anthony and Sam Freedman	Jamie Spencer	0	0	0	0	-18	31	10	10.00
Grenadier Guards (JPN)	0.22	19	72.69	Mitsumasa Nakauchida	C Demuro	0	0	0	0	-18	-1	10	29.00

So now let's do an analysis of how the **FPR** rating worked out over the last 10 years at Royal Ascot

Overall, the **FPR** rating for all races 2014-2023 returned as follows...

User Rating 4 RANK	Runners	Winners	Win S/R	IV	PRB	PRB^2	WAX	EX Wins	A/E	P/L Betfair	ROI Betfair
1	215	46	21.40	2.87	67.47	54.11	-1.94	47.94	0.96	11.80	5.49
2	215	36	16.74	2.24	62.07	47.31	4.40	31.60	1.14	89.46	41.61
3	215	27	12.56	1.68	61.67	47.26	3.40	23.60	1.14	11.56	5.38
4	215	16	7.44	1.00	52.36	37.75	-2.46	18.46	0.87	-83.20	-38.70
5	216	13	6.02	0.81	50.35	34.49	-3.47	16.47	0.79	-72.95	-33.77
6	211	13	6.16	0.83	51.14	35.54	-3.45	16.45	0.79	-93.49	-44.31
7	201	15	7.46	1.04	46.43	31.44	2.84	12.16	1.23	-15.96	-7.94
8	188	13	6.91	1.00	45.45	30.26	3.97	9.03	1.44	207.16	110.19
9	177	9	5.08	0.76	47.31	31.78	0.59	8.41	1.07	22.98	12.98
10	159	4	2.52	0.39	45.76	29.05	-1.97	5.97	0.67	520.34	327.26
11	145	5	3.45	0.55	45.13	28.76	-1.00	6.00	0.83	-43.82	-30.22
12	133	6	4.51	0.74	42.01	27.80	2.13	3.87	1.55	-35.05	-26.35
13	113	3	2.65	0.46	45.10	28.45	-0.84	3.84	0.78	-11.22	-9.93
14	95	1	1.05	0.19	41.62	25.25	-1.71	2.71	0.37	-75.74	-79.73
15	83	1	1.20	0.22	39.18	23.14	-1.36	2.36	0.42	-79.93	-96.30
16	71	1	1.41	0.27	40.99	24.83	-0.67	1.67	0.60	-61.74	-86.96
17	55	1	1.82	0.37	40.44	24.19	-0.24	1.24	0.81	-43.07	-78.31
18	41	0	0.00	0.00	37.98	23.50	-1.28	1.28	0.00	-41.00	-100.00
19	31	1	3.23	0.72	38.13	21.84	0.42	0.58	1.73	-2.54	-8.19
20	27	3	11.11	2.52	41.11	27.63	2.01	0.99	3.04	7.55	27.95
21	23	0	0.00	0.00	50.87	33.10	-0.42	0.42	0.00	-23.00	-100.00
22	17	0	0.00	0.00	38.01	20.43	-0.28	0.28	0.00	-17.00	-100.00
23	13	0	0.00	0.00	44.76	25.67	-0.32	0.32	0.00	-13.00	-100.00
24	8	1	12.50	3.22	30.36	17.95	0.86	0.14	7.17	4.58	57.30
25	6	0	0.00	0.00	21.40	6.70	-0.02	0.02	0.00	-6.00	-100.00
26	4	0	0.00	0.00	45.45	29.98	-0.20	0.20	0.00	-4.00	-100.00
27	3	0	0.00	0.00	45.11	27.36	-0.09	0.09	0.00	-3.00	-100.00
28	1	0	0.00	0.00	59.26	35.12	-0.03	0.03	0.00	-1.00	-100.00

System Results (BOG ON) Betfair Price Used : Betfair SP (Prices up-to-date to: 12/

Top 3 Ranked combined...

Runners	Winners	Win S/R	IV	PRB	PRB^2	WAX	EX Wins	A/E	P/L Betfair	ROI Betfair
645	109	16.90	2.27	63.74	49.56	5.87	103.13	1.06	116.61	18.08

System Results (BOG ON) Betfair Price Used : Betfair SP (Prices u

Ranked 4 or more combined...

Runners	Winners	Win S/R	IV	PRB	PRB^2	WAX	EX Wins	A/E	P/L Betfair	ROI Betfair
2236	106	4.74	0.64	46.07	30.44	-6.96	112.96	0.94	52.31	2.34

System Results (BOG ON) Betfair Price Used : Betfair SP (Prices

Top 3 Ranked combined by year...

Year	Runners	Winners	Win S/R	IV	PRB	PRB^2	WAX	EX Wins	A/E	P/L Betfair	ROI Betfair
2014	60	13	21.67	2.93	67.83	54.97	3.65	9.35	1.39	19.20	32.00
2015	63	11	17.46	2.23	62.64	48.56	1.61	9.39	1.17	35.50	56.35
2016	63	8	12.70	1.70	64.36	49.74	-1.28	9.28	0.86	-9.99	-15.86
2017	63	10	15.87	2.36	60.33	46.85	0.64	9.36	1.07	7.23	11.48
2018	66	11	16.67	2.37	66.06	51.64	0.88	10.12	1.09	-1.47	-2.23
2019	66	12	18.18	2.59	61.06	45.91	2.03	9.97	1.20	1.12	1.69
2020	66	12	18.18	2.01	63.30	48.71	-0.31	12.31	0.97	0.02	0.03
2021	66	10	15.15	2.03	62.05	47.80	0.05	9.95	1.01	9.49	14.38
2022	66	13	19.70	2.50	63.12	48.59	1.20	11.80	1.10	62.25	94.31
2023	66	9	13.64	1.91	66.83	53.18	-2.60	11.60	0.78	-6.74	-10.20

System Results (BOG ON) Betfair Price Used : Betfair SP (Prices up-to-

Top 3 Ranked combined – Betfair place market

bpRuns	bpPlcs	bpSR	bpP/L	bpRoi
642	258	40.19	37.07	5.77

Betfair SP (Prices up-to-da

So overall **FPR Top 3 Ranked** performed quite well against the market when backed blind at BFSP (-2% commission) over the period. What's interesting to me is that you now have a rating that is your own, is calculated using no market data, and where over the past ten years its basically evens that the race will be won by one of your Top 3 rated. Not a bad starting point for your analysis, particularly if you do some additional work on horses whose market rank is out of line with your own ranks.

Over the last 3 years alone **FPR Top 3 Ranked** has produced some nicely priced winners at Royal Ascot...

Date	Time	Horse	Fin Pos	SP	Race Name
15/06/2021	14:30	Palace Pier	1	2/7	Queen Anne Stakes (Group 1) (Str) (Class A)
16/06/2021	15:05	Kemari	1	15/2	Queen's Vase (Group 2) (Class A)
16/06/2021	16:20	Love	1	11/10	Prince Of Wales's Stakes (Group 1) (British Champions Series) (Class A)
16/06/2021	17:35	Chipotle	1	22/1	Windsor Castle Stakes (Listed) (Class A)
17/06/2021	15:05	Mohaafeth	1	11/8	Hampton Court Stakes (Group 3) (Class A)
18/06/2021	15:05	Alenquer	1	13/8	King Edward VII Stakes (Group 2) (Class A)
18/06/2021	16:20	Alcohol Free	1	11/2	Coronation Stakes (Fillies' Group 1) (British Champions Series) (Rnd) (Class A)
19/06/2021	14:30	Point Lonsdale	1	10/11	Chesham Stakes (Listed) (Class A)
19/06/2021	15:05	Creative Force	1	5/1	Jersey Stakes (Group 3) (Class A)
19/06/2021	16:20	Dream Of Dreams	1	3/1	Diamond Jubilee Stakes (Group 1) (British Champions Series) (Class A)
14/06/2022	14:30	Baaeed	1	1/6	Queen Anne Stakes (Group 1) (Str) (Class A)
14/06/2022	15:05	Bradsell	1	8/1	Coventry Stakes (Group 2) (Class A)
14/06/2022	16:20	Coroebus	1	10/11	St James's Palace Stakes (Group 1) (Rnd) (Class A)
15/06/2022	15:40	State Of Rest	1	5/1	Prince Of Wales's Stakes (Group 1) (British Champions Series) (Class A)
15/06/2022	16:20	Saffron Beach	1	5/2	Duke Of Cambridge Stakes (Fillies And Mares' Group 2) (Str) (Class A)
15/06/2022	17:35	Little Big Bear	1	6/5	Windsor Castle Stakes (Listed) (Class A)
16/06/2022	16:20	Kyprios	1	13/8	Gold Cup (Group 1) (British Champions Series) (Class A)
16/06/2022	17:35	Claymore	1	7/1	Hampton Court Stakes (Group 3) (Class A)
17/06/2022	14:30	Meditate	1	5/2	Albany Stakes (Fillies' Group 3) (Class A)
17/06/2022	16:20	Inspiral	1	15/8	Coronation Stakes (Fillies' Group 1) (British Champions Series) (Rnd) (Class A)
17/06/2022	17:35	Changingoftheguard	1	11/10	King Edward VII Stakes (Group 2) (Class A)
18/06/2022	15:05	Noble Truth	1	4/1	Jersey Stakes (Group 3) (Class A)
18/06/2022	16:20	Naval Crown	1	33/1	Platinum Jubilee Stakes (Group 1) (British Champions Series) (Class A)
20/06/2023	15:05	River Tiber	1	11/8	Coventry Stakes (Group 2) (Class A)
20/06/2023	16:20	Paddington	1	9/4	St James's Palace Stakes (Group 1) (British Champions Series) (Rnd) (Class A)
21/06/2023	16:20	Mostahdaf	1	10/1	Prince Of Wales's Stakes (Group 1) (British Champions Series) (Class A)
21/06/2023	17:35	Gregory	1	Evens	Queen's Vase (Group 2) (Class A)
22/06/2023	15:40	Warm Heart	1	13/2	Ribblesdale Stakes (Fillies' Group 2) (Class A)
22/06/2023	16:20	Courage Mon Ami	1	15/2	Gold Cup (Group 1) (British Champions Series) (Class A)
23/06/2023	14:30	Porta Fortuna	1	5/1	Albany Stakes (Fillies' Group 3) (Class A)
23/06/2023	16:20	Tahiyra	1	8/13	Coronation Stakes (Fillies' Group 1) (British Champions Series) (Rnd) (Class A)
23/06/2023	17:35	King Of Steel	1	11/10	King Edward VII Stakes (Group 2) (Class A)

Of course, once imported into Proform you can analyse the ratings further using any of the literally dozens of filters and tools available in the System Builder.

I was interested to take a look at how the Top 3 Rated performed by Race Age Group.

At Royal Ascot the 22 Group and Listed races are divided into races for 2yo's only, 3yo's only and races for horses aged 3yo+/4yo+.

FPR Top 3 Ranked – 2yo Races Only

Runners	Winners	Win S/R	IV	PRB	PRB^2	WAX	EX Wins	A/E	P/L Betfair	ROI Betfair
180	23	12.78	2.24	64.40	49.39	-1.14	24.14	0.95	17.25	9.59

The A/E here is **0.95** – returns are below market expectation. Not too surprised by this. Many of the 2yo's running at Royal Ascot will initially have had zeros across their PRC ratings as they simply haven't run the requisite amount of times to generate "real" ratings. If you remember these zeros are replaced by pseudo ratings equivalent to the average PRC by evening before market price. In any event unexposed and relatively immature young horses can be open to large levels of improvement in relatively short periods of time that can be difficult to capture by numbers alone.

FPR Top 3 Ranked – 3yo Races Only

Runners	Winners	Win S/R	IV	PRB	PRB^2	WAX	EX Wins	A/E	P/L Betfair	ROI Betfair
237	42	17.72	2.08	62.67	48.72	0.99	41.01	1.02	-22.10	-9.33

System Results (BOG ON) Betfair Price Used : Betfair SP (Prices ...)

The A/E of **1.02** here is just about positive. But caveats similar to those for 2yo races should be applied.

FPR Top 3 ranked – 3yo+/4yo+ Races for Older Horses

Runners	Winners	Win S/R	IV	PRB	PRB^2	WAX	EX Wins	A/E	P/L Betfair	ROI Betfair
228	44	19.30	2.29	64.33	50.57	6.02	37.98	1.16	121.46	53.27

System Results (BOG ON) Betfair Price Used : Betfair SP (Prices u...)

FPR Top 3 ranked performed well when the ratings were applied to older horses, returning an A/E of **1.16** over the ten years. This age group are generally physically mature, and therefore not as open to sudden large improvements in form, and whose overall ability is easier to assess given most will have run multiple times in public by the time they have reached this age of their lives.

FPR Top 3 Ranked by Year – 3yo+/4yo+ Races for older horses

Year	Runners	Winners	Win S/R	IV	PRB	PRB^2	WAX	EX Wins	A/E	P/L Betfair	ROI Betfair
2014	21	6	28.57	3.47	71.63	61.48	2.45	3.55	1.69	2.14	10.19
2015	21	3	14.29	1.53	57.45	41.56	-0.33	3.33	0.90	23.58	112.30
2016	21	4	19.05	2.31	66.93	52.75	1.01	2.99	1.34	16.85	80.25
2017	21	4	19.05	2.72	64.12	51.14	0.60	3.40	1.18	-4.03	-19.18
2018	24	6	25.00	2.78	61.83	47.29	1.88	4.12	1.46	16.07	66.96
2019	24	6	25.00	3.28	66.56	52.92	2.23	3.77	1.59	5.79	24.12
2020	24	5	20.83	2.16	64.32	51.46	0.87	4.13	1.21	6.40	26.66
2021	24	3	12.50	1.44	64.28	49.96	-1.70	4.70	0.64	-15.28	-63.68
2022	24	5	20.83	2.34	62.02	48.86	0.35	4.65	1.07	63.90	266.26
2023	24	2	8.33	1.00	64.48	48.89	-1.33	3.33	0.60	6.03	25.12

System Results (BOG ON) Betfair Price Used : Betfair SP (Prices up-to...)

Winning Speed Rating Pars at Royal Ascot

Below is a table listing the average Proform Speed Rating achieved by the winners of all 22 Group and Listed races run at the meeting for the last 10 years (2014-2023)

Royal Ascot Race	Avg Winning Proform Speed Figure	Qual Age
Queen Anne	78	4yo+
Coventry	71	2yo
Kings Stand	79	3yo+
St James Palace	76	3yo
Wolferton	76	4yo+
Queen Mary	72	2yo
Duke Of Cambridge	72	4yo+
Prince Of Wales	76	4yo+
Queens Vase	77	3yo
Windsor Castle	70	2yo
Norfolk	68	2yo
Ribblesdale	70	3yo
Gold Cup	72	4yo+
Hampton Court	74	3yo
Albany	68	2yo
Commonwealth Cup	76	3yo
Coronation Stakes	75	3yo
King Edward	72	3yo
Chesham	67	2yo
Jersey	75	3yo
Jubilee	81	4yo+
Hardwicke	77	4yo+

To assist in narrowing down fields as part of the selection process, the tables below have divided into two cohorts the runners **Highest Achieved Proform Speed Rating in the Last 1 Year,** compared to the winning Speed Par by the qualifying age for each race.

So, for example looking at **The Coventry Stakes** (the second race on Day One), runners with a **HA Speed Rating Last 1yr** that is **-4 or above** of the average winning Proform Speed Rating for this race, as a group have performed much better than runners with a best last 1-year speed rating of **-5 and below** par. So, for **The Coventry**, runners with a **HA Last 1 Year** speed rating of **67 and above** have vastly outperformed runners with a rating of **66 and below** going into the race.

Speed Rating Diff	2yo Races	Runners	Winners	Win S/R	IV	PRB	PRB^2	WAX	EX Wins	A/E
HA Last 1yr Diff to Par	>= -4	227	26	11.45	2.01	60.95	45.95	2.62	23.38	1.11
HA Last 1yr Diff to Par	< = -5	672	21	3.13	0.55	47.35	31.15	-6.76	27.76	0.76

Speed Rating Diff	3yo Races	Runners	Winners	Win S/R	IV	PRB	PRB^2	WAX	EX Wins	A/E
HA Last 1yr Diff to Par	>= 0	386	48	12.44	1.47	54.7	40.36	6.11	41.89	1.15
HA Last 1yr Diff to Par	< 0	486	27	5.56	0.65	46.37	30.78	-5.98	32.98	0.82

Speed Rating Diff	3yo+ & 4yo+ Races	Runners	Winners	Win S/R	IV	PRB	PRB^2	WAX	EX Wins	A/E
HA Last 1yr Diff to Par	>= 4	281	38	13.52	1.59	56.47	41.77	2.5	35.5	1.07
HA Last 1yr Diff to Par	< 4	528	35	6.63	0.8	47.9	32.61	1.46	33.54	1.04

Market Movement at Royal Ascot

For some time now Proform has allowed the user to import market price data taken directly from the Betfair Exchange into its database through a simple import interface within the software. This literally takes seconds when updated on a daily basis. The market price data can then be analysed in the system builder. The data also contains market movement metrics that measure the magnitude of price change between different timestamps across the life of the pre-race market. All the information on this aspect of the Proform package is available online on this link

Basically, a positive number on the market movement metric indicates a shortening in price on the Betfair Exchange, and the opposite for a negative.

Here I've chosen to look at the **Mov60** metric, which calculates the movement and magnitude between a runner's price at **11am and 60 minutes** before the race scheduled off time. Royal Ascot markets are strong, liquid, and will certainly be well formed by 11am on raceday. Using 60 minutes before off time gives at least a three-and-a-half-hour window for the market to further develop, and given the aforementioned general strength of these markets, often large volumes of money will be required to move prices. So, is that price movement significant?

Across our 22 Group and Listed Races (2014 to 2023)…

All runners with a positive **Mov60** metric

Runners	Winners	Win S/R	IV	PRB	PRB^2	WAX	EX Wins	A/E
1194	110	9.21	1.24	52.34	37.25	6.59	103.41	1.06

All runners with a negative **Mov60** metric

Runners	Winners	Win S/R	IV	PRB	PRB^2	WAX	EX Wins	A/E
1688	105	6.22	0.84	48.36	32.91	-7.68	112.68	0.93

There will be a lot of attention on **Aiden O'Brien** and **Ryan Moore** next week.

Aiden O'Brien positive **Mov60** metric

Runners	Winners	Win S/R	IV	PRB	PRB^2	WAX	EX Wins	A/E
138	25	18.12	2.49	61.03	48.12	2.77	22.23	1.12

Aiden O'Brien negative **Mov60** metric

Runners	Winners	Win S/R	IV	PRB	PRB^2	WAX	EX Wins	A/E
142	16	11.27	1.45	59.12	44.43	-3.24	19.24	0.83

Ryan Moore positive **Mov60** metric

Runners	Winners	Win S/R	IV	PRB	PRB^2	WAX	EX Wins	A/E
115	27	23.48	3.23	68.13	56.08	3.56	23.44	1.15

Ryan Moore negative **Mov60** metric

Runners	Winners	Win S/R	IV	PRB	PRB^2	WAX	EX Wins	A/E
96	17	17.71	2.29	67.11	53.57	-1.09	18.09	0.94

The two-year-old races at Royal Ascot can be difficult for bettors to figure out. Two years olds can be relatively unexposed and open to large improvements in their form from one race to the next in the early stages of their careers. That improvement can be difficult to convert into numbers from a market point of view. Overall, the front two in the betting over the last 10 years in these races have underperformed against the market at BFSP.

System Results (BOG ON) Betfair Price Used : Betfa

Runners	Winners	Win S/R	IV	PRB	PRB^2	WAX	EX Wins	A/E
127	26	20.47	3.60	72.77	61.38	-1.91	27.91	0.93

So, have there been any clues from the earlier markets in these races over this period?

All runners in Royal Ascot 2yo Races – positive Mov60 metric

System Results (BOG ON) Betfair Price Used : Betfa

Runners	Winners	Win S/R	IV	PRB	PRB^2	WAX	EX Wins	A/E
418	38	9.09	1.60	54.77	39.65	9.12	28.88	1.32

All runners in Royal Ascot 2yo Races – negative Mov60 metric

System Results (BOG ON) Betfair Price Used : Betfa

Runners	Winners	Win S/R	IV	PRB	PRB^2	WAX	EX Wins	A/E
636	22	3.46	0.61	46.89	30.89	-9.53	31.53	0.70

And finally, just a quick overview of how that looks in the software. Notice the **Mov60** metric for those toward the head of the market and their actual finishing positions.

Ascot (RH - Galloping) (Friday 23 Jun 2023)
14:30 Albany Stakes (Fillies' Group 3) (Class A) (Class 1)
▶
6f
Turf [New Class A / 1] (Speed Class Par: 72)

Horse	Position	BSP	11am	60Mins	Mov60
Porta Fortuna (IRE)	1	6.54	8.00	6.80	1.50
Matrika (IRE)	2	9.90	13.50	12.00	1.11
Soprano (IRE)	3	8.06	8.80	9.40	-0.68
Persian Dreamer (USA)	4	23.46	26.00	28.00	-0.76
Pretty Crystal (IRE)	5	55.00	50.00	50.00	0.00
Komat	6	127.30	75.00	85.00	-1.33
Dawn Charger (IRE)	7	34.00	26.00	24.00	0.76
Carla's Way (IRE)	8	4.75	6.60	5.90	1.06
Gushing Gold (IRE)	9	25.60	20.00	26.00	-3.00
Navassa Island (IRE)	10	7.42	5.80	6.00	-0.34
Jabaara (IRE)	11	9.80	8.80	9.60	-0.90
Passionately (IRE)	12	190.93	95.00	120.00	-2.63
Do It With Style (IRE)	13	36.70	42.00	40.00	0.47
Rating (IRE)	14	340.00	190.00	200.00	-0.52
Flaccianello (IRE)	15	70.00	22.00	30.00	-3.63
Mapmaker	16	105.16	55.00	50.00	0.90
Sarakana (IRE)	17	164.05	75.00	100.00	-3.33

So, I'll finish up with a word of caution. All of this data is really great for narrowing down fields, breaking down the complex into the manageable, providing horses to focus on, and when allied to your own analysis of trip/going requirements, pace/position setup etc, etc, etc, can be a very powerful weapon against the market. But there is literally no point in applying any of this analysis for example to a horse that won't stay beyond a mile if you're looking at a ten-furlong race. Do your own work too. Fit the horse to the angle not the other way around.

Best of luck and enjoy what will hopefully be five great days of racing.

By Paul Fitzgerald

Age 53. Live in County Clare, Ireland.

Followed racing most of my life since watching Red Rum win the 1977 Grand National.

Prefer flat racing.

Been with Proform for more years than I care to remember at this stage, so pretty familiar with the software and its functionality.

Mainly data-based approach to racing. Build my own models, which I combine to calculate a base probability. Adjust that base probability with my own subjective opinion to form a final price, which I then take to the market.

Use Betfair only.

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