PREDICTEFORM.com

The "So What" of Big Data in Horse Racing

Presented by: Tom Grossman, Lead Investor — Predicteform.com

Proliferation of Big Data and Sports Analytics



PREDICTEFORM.....

Horse Racing Pain Point: Big Data

- Millions upon millions of records
- Saturday (11/28): 16,000 lines of data
- Needing to know what to look for is almost impossible for novice
- Technology hasn't always existed to parse data in consumable fashion
- New players/fans are intimidated What do all these numbers mean?
- Want answers with or without the "why" Just tell me who to play



Equiform/Predicteform History

- Originally conceived by Cary Fotias in 1992
- Disillusioned with one number speed figures
- Cary reviewed 150,000+ races to develop "Pace Figures" and "Form Cycle Patterns"
- PredictionMachine.com team purchased asset from Cary's estate in summer of 2013
- Equiform took first step, Predicteform added technology
- Consumer friendly web interface allows for easy consumption



Big Data to Digestible Content





Pace Figures

	D	0 11/01 /1	15 10/03/1	5 09/05/15	02/01/15	01/04/15	11/30/14	11/07/14	09/27/14	09/03/14			
	F	w69.8	72.5	79.2	75.0	w70.1							
	4f	42.1	78.4	64.8	65.0	55.0							
	Р	PLOW											
Stellar Path (Fr)	6f	50.9	73.3	67.1	65.5	60.8							
Program Number: 8	2f												
Post Position: 8	т	bel	WOX	mth	wox	aqu							
Weight: 123	s	TURF	TURF	TURF	TURF	TURF							
Last Race: 43 Days	L	81/2	7	81/2	8	8							
Lasix	С	Firm	Firm	Firm	Firm	Good							
	B/M	L	L	L	L	L							
	D	10/17/15	09/07/15		05/23/15	04/17/15							
	F	w67.5	71.8	73.1	72.0	w76.6	76.9	70.8	w80.0	w75.1	72.9		
	4f	45.9	52.5	60.4	55.5	66.8	60.4	59.3	67.7	63.6	59.1		
	Р	PLOW											
Filimbi	6f	51.1	59.0	60.8	59.1	65.2	64.5	60.0	70.0	64.4	59.5		
Program Number: 9	2f												
Post Position: 9 Weight: 123	Т	bel	bel	kee	tam	sax	kee	sar	sar	bel	kee		
Last Race: 28 Days	S	TURF	TURF	TURF	TURF	TURF	TURF	TURF	TURF	TURF	TURF		
Lasix	L	8	8	81/2	9	8	8	81/2	8	8	8		
Lasix	С	Firm	Good	Yielding	Firm	Firm	Good	Good	Firm	Firm	Firm		
	B/M	L	L	L	L	L	L	L	L	L	L		
	D	11/01/15	06/06/15	04/11/15	03/07/15	11/02/14	10/04/14	08/23/14	08/02/14	05/21/14	04/13/14		
	F	77.0	74.2	77.1	69.6	80.8	79.2	72.4	76.9	w76.8	w73.8	73.3	74.3
	4f	68.3	66.8	67.6	61.3	70.2	69.7	62.4	62.2	62.3	57.1	64.4	65.9
Ctores Lines	Р												
Stormy Lucy	6f	67.9	59.2	66.4	58.4	71.2	66.2	62.4	63.2	61.3	58.8	64.8	63.3
Program Number: 10	2f												
Post Position: 10 Veight: 123	т	dmr	sax	dmr	sax	dmr	dmr	sax	sax	sax	sax	sax	sax
ast Race: 28 Days	S	TURF	TURF	TURF	TURF	TURF	TURF	TURF	TURF	TURF	TURF	TURF	TURF
Lasix	L	8	10	9	8	81/2	9	8	9	10	9	8	9
	С	Firm	Firm	Firm	Firm	Firm	Firm	Firm	Firm	Firm	Firm	Firm	Firm
	B/M	L	L	L	L	L	L	L	L	L	L	L	L
	D	11/01/15	09/26/15	08/08/15	06/27/15	09/01/14	08/10/14	06/28/14	05/26/14	04/13/14	03/16/14	02/17/14	12/29/13
	F	75.2	74.4										
	4f	63.9	63.3										
Olorda (Ger)	Р												
Olorda (Ger)	6f	63.6	63.2										
Program Number: 11 Post Position: 11	2f												
Weight: 120	Т	kee	bel										
	0	TUDE	TUDE			_							



Value Plays

- Takes the work out of handicapping
- Proprietary formula created by layering in Pace Figures and key metrics
- The "Output" classifies horses in six categories, such as:
 - Top Contender Most likely winner
 - Breakout Most likely to show significant improvement
 - Too Slow Very unlikely in contention
- Categories then combined with odds to rank entries based on value
- Simplifies best horses and who to play, supports Big Data funnel



Value Plays Example



🚔 Print Race 🛛 👕 Download Race

Value Plays: 10-7-5-4

Distance: 8 Furlongs

Surface: Turf

Conditions: MATRIARCH S., Grade I. Purse \$300,000 FOR FILLIES AND MARES THREE-YEARS-OLD AND UPWARD. By subscription of \$300 each to accompany the nomination. Closed Saturday, November 14, 2015 with 26. Or by supplementary nomination of \$3,000 by closing time ofentries. \$1,000 to pass the entry box and \$3,500 to start, with \$300,000 Guaranteed, of which \$180,000 to first, \$60,000 to second, \$36,000 to third, \$18,000 to fourth and \$6,000 to fifth. Three-year-olds 120 lbs. Older 123 lbs. Starters to be namedthrough the entry box by closing time of entries. This race will not be divided. If the number of entries exceed fourteen (14), first preference will be given to Gr I or Gr II winners in 2015. Second preference will be given to horses placed (secondor third) in a Gr I or Gr III winners in 2015. Total non-claiming earnings in 2015 will be used in determining the order of preference of horses with equal status. A trophy will be presented to the winning owner.

Available Wagers: \$1 EXACTA / \$2 QUINELLA / 50 CENT TRIFECTA / \$2 DOUBLE, \$1 SUPERFECTA (10-CENT MIN.)

Post Time: 3:59 PM PT

Race Analyzer: Analyze Race

в	asic Advanced Value	Plays							Sort	Value		_	. Т .
P#	Horse	Races	Last Race	Value	Play Type	Pattern	Avg. Final	Avg. 4F	Last Final	Last 4F	Top Final	ML	PP
10	Stormy Lucy	30	28	1	Fringe Contender		71.6	65.0	77.0	68.3	80.8	20	10
7	Gender Agenda	9	28	2	Top Contender		75.4	70.4	76.3	69.5	78.5	15	7
5	Curlin's Fox	7	64	3	Fringe Contender		73.7	75.3	74.7	77.6	82.7	15	5
4	Prize Exhibit	10	50	4	Fringe Contender		74.7	66.4	72.6	68.7	80.3	15	4
12	Queen Of The Sand	14	28	5	Fringe Contender		74.4	61.1	76.3	66.2	79.6	15	12
13	Baruta	15	35	6	Average		74.8	79.5	w76.9	82.9	80.6	20	13
2	Chati's On Top	16	35	7	Average		70.8	68.3	74.1	73.9	77.3	20	2
15	Alexis Tangier	11	57	8	Average		71.5	73.4	w75.0	73.5	78.2	15	15
1	Hard Not To Like (Ont-C)	21	64	9	Average		73.5	62.3	73.5	63.5	82.8	9/2	1
11	Olorda (Ger)	2	50	10	Average		74.8	63.6	75.2	63.9	75.2	8	11
6	Crowley's Law (Gb)	3	36	11	Average		73.9	64.3	w73.8	66.0	79.1	6	6
в	Stellar Path (Fr)	5	43	12	Average	PLOW	73.3	61.0	w69.8	42.1	79.2	8	8
14	She's Not Here	17	57	13	Breakout		70.6	63.4	66.3	52.8	78.2	15	14
3	Recepta	12	29	14	Average		72.5	60.1	65.8	58.1	80.4	8	3
9	Filimbi	10	28	15	Regressor	PLOW	73.7	59.1	w67.5	45.9	80.0	7/2	9



Race Analyzer

- Builds on Value Plays classifications
- Empowers user to re-evaluate the Value Plays for a race with updated odds and scratches
- Makes race evaluation simpler and more accurate closer to post time as odds change and horses are scratched
- Live, real-time odds integration is holy grail
- The better the odds feed, the more accurate the recommendation



Race Analyzer Example

Charles	s Town			17/11			2							
lace An	alyzer	_			_			_			_	_	-	-
Irack: Ch	arles Town													
Date: 11/1														
Race #2:	1/2010													
Value Plays	544.7													
ST 5 2 4 6 7 6 6	1/2 Furlongs													
Surface: Di														
Claim: \$5.0	00													
Conditions	CLAIMING, P	urse \$1	0,500 FOR	THREE Y	EAR OLDS AND	UPWARD	WHICH HAV	/E NEVER	WON TWO	RACES. T	hree Year C	lids, 121 lbs., C	Dider, 123 lt	bs. Non-
					iming Price \$5,000			100001243		t Consider	red in Eligibi	ity) (Winners I	Proferred).	
	100000000000	(RACE	S 2-3-4)/	EXACTA/	TRIFECTA / SUPE	RFECTA	/ DAILY DOU	JBLE (2-3)	55				/	14
	7:34 PM ET	stames											-	
race Figure	s: <u>View Pace</u>	and the second second	s Last Ra	ca Value	Play Type	Pattern	Avg. Final	Ave 4F	Last Final	I pet dE	Top Final	Odds	PP	Scratch
P# Horse											10011111	to cituar		Geraten
P# Horse 5 Caram	el Creamside	3	47	1	10000	NPT	63.1	72.9	61.1	73.9	64.5	29	5	0
14	0.3817.1		47 21		Top Contender Average	NPT	63.1 62.0	72.9 71.3	61.1 61.6	73.9 74.1	64.5 66.6	29 49	5	0
5 Caram 4 Stormir	0.3817.1	3	1.1.1.1	1	Top Contender	NPT	20201017		4432					0
5 Caram 4 Stormir	n City d Storm	3 25	21	1 2	Top Contender Average	NPT	62.0	71.3	61.6	74.1	66.6	49	4	
5 Caram 4 Stormir 1 Furrfiel 7 David's	n City d Storm	3 25 12	21 20	1 2 3	Top Contender Average Average	NPT	62.0 63.0	71.3 73.3	61.6 w64.1	74.1 72.8	66.6 67.7	49 2	4	0
5 Caram 4 Stormir 1 Furrfiel 7 David's	n City d Storm Prince s Reward	3 25 12 6	21 20 19	1 2 3 4	Top Contender Average Average Breakout	NPT	62.0 63.0 58.9	71.3 73.3 73.2	61.6 w64.1 62.6	74.1 72.8 71.3	66.6 67.7 68.6	49 2 8	4	0
5 Caram 4 Stormir 1 Furrfiel 7 David's 2 Copiou	n City d Storm Prince s Reward	3 25 12 6 13	21 20 19 19	1 2 3 4 5	Top Contender Average Average Breakout Average	NPT	62.0 63.0 58.9 60.0	71.3 73.3 73.2 70.5	61.6 w64.1 62.6 58.6	74.1 72.8 71.3 68.2	66.6 67.7 68.6 67.1	49 2 8 7	4 1 7 2	0
5 Carami 4 Stormir 1 Furfiel 7 David's 2 Copiou 10 Escarte 8 Puccini	n City d Storm Prince s Reward	3 25 12 6 13 23	21 20 19 19 39	1 2 3 4 5 6	Top Contender Average Average Breakout Average Too Slow	NPT	62.0 63.0 58.9 60.0 59.4	71.3 73.3 73.2 70.5 64.9	61.6 w64.1 62.6 58.6 57.2	74.1 72.8 71.3 68.2 64.7	66.6 67.7 68.6 67.1 66.4	49 2 8 7 15	4 1 7 2 10	0 0 0
5 Carami 4 Stormir 1 Furfiel 7 David's 2 Copiou 10 Escarte 8 Puccini	e City d Storm Prince s Reward n i e V I Mass	3 25 12 6 13 23 5	21 20 19 19 39 33	1 2 3 4 5 6 7	Top Contender Average Average Breakout Average Too Slow Too Slow	NPT	62.0 63.0 58.9 60.0 59.4 56.3	71.3 73.3 73.2 70.5 64.9 70.2	61.6 w64.1 62.6 58.6 57.2 w63.0	74.1 72.8 71.3 68.2 64.7 73.4	66.6 67.7 68.6 67.1 66.4 63.0	49 2 8 7 15 10	4 1 7 2 10 8	
5 Carami 4 Stormir 1 Furrfiel 7 David's 2 Copiou 10 Escarto 8 Puccin 9 Kiss Th 3 Colone	e City d Storm Prince s Reward n i e V I Mass	3 25 12 6 13 23 5 9	21 20 19 19 39 33 21	1 2 3 4 5 6 7 8	Top Contender Average Average Breakout Average Too Slow Too Slow Too Slow	NPT	62.0 63.0 58.9 60.0 59.4 56.3 57.3	71.3 73.3 73.2 70.5 64.9 70.2 68.7	61.6 w64.1 62.6 58.6 57.2 w63.0 52.0	74.1 72.8 71.3 68.2 64.7 73.4 71.9	66.6 67.7 68.6 67.1 66.4 63.0 62.5	49 2 8 7 15 10 28	4 1 7 2 10 8 9	
5 Carami 4 Stormir 1 Furrfiel 7 David's 2 Copiou 10 Escarto 8 Puccin 9 Kiss Th 3 Colone	e City d Storm Prince s Reward i i i i i i i i i i i i i i i i i i i	3 25 12 6 13 23 5 9 18	21 20 19 39 33 21 147	1 2 3 4 5 6 7 8 9	Top Contender Average Breakout Average Too Słow Too Słow Too Słow Too Słow	NPT	62.0 63.0 58.9 60.0 59.4 56.3 57.3 61.0	71.3 73.3 73.2 70.5 64.9 70.2 68.7 67.6	61.6 w64.1 62.6 58.6 57.2 w63.0 52.0 63.1	74.1 72.8 71.3 68.2 64.7 73.4 71.9 71.6	66.6 67.7 68.6 67.1 66.4 63.0 62.5 68.1	49 2 8 7 15 10 28 11	4 1 7 2 10 8 9 3	
5 Carami 4 Stormir 1 Furrfiel 7 David's 2 Copiou 10 Escarto 8 Puccini 9 Kiss Th 3 Colone 6 Unlock	e City d Storm Prince s Reward o ni e V I Mass I Avara The Glory n	3 25 12 6 13 23 5 9 18	21 20 19 39 33 21 147	1 2 3 4 5 6 7 8 9	Top Contender Average Breakout Average Too Slow Too Slow Too Slow Too Slow	NPT	62.0 63.0 58.9 60.0 59.4 56.3 57.3 61.0	71.3 73.3 73.2 70.5 64.9 70.2 68.7 67.6	61.6 w64.1 62.6 58.6 57.2 w63.0 52.0 63.1	74.1 72.8 71.3 68.2 64.7 73.4 71.9 71.6	66.6 67.7 68.6 67.1 66.4 63.0 62.5 68.1	49 2 8 7 15 10 28 11 8/5	4 1 7 2 10 8 9 3	
5 Carami 4 Stormir 1 Furrfiel 7 David's 2 Coplou 10 Escarto 8 Puccini 9 Kiss Th 3 Colone 6 Unlock 11 Lord G	e City d Storm Prince s Reward o ni e V I Mass I Avara The Glory n n	3 25 12 6 13 23 5 9 18	21 20 19 39 33 21 147	1 2 3 4 5 6 7 8 9	Top Contender Average Breakout Breakout Average Too Slow Too Slow Too Slow Too Slow Too Slow Scratched	NPT	62.0 63.0 58.9 60.0 59.4 56.3 57.3 61.0	71.3 73.3 73.2 70.5 64.9 70.2 68.7 67.6	61.6 w64.1 62.6 58.6 57.2 w63.0 52.0 63.1	74.1 72.8 71.3 68.2 64.7 73.4 71.9 71.6	66.6 67.7 68.6 67.1 66.4 63.0 62.5 68.1	49 2 8 7 15 10 28 11 8/5 20	4 1 7 2 10 8 9 3	

Evaluate Rac

PREDICTEFORM.....

Race Finder

- Culmination of Big Data Looks backward to project forward
- Data engine allows users to find results and upcoming races that match selected criteria
 - Searches are extremely quick takes a few clicks to setup
 - Search by track, distance, odds, dates, conditions and more
- Win and ITM ROI% for each Value Play classification
- Upcoming races that match criteria are accessible for user



Race Finder Examples

Finally, you can "Save" your search by labeling it in the Save Search section below Upcoming Races, and clicking on "Save Search". Your saved searches are available on the Race Finder Saved Searches page.

D OR		Add rule Add gmu
Distance	▼ >= ▼ 8 Furlongs ▼	Doink
Form Cycle Pattern?	• = • PLOW ("Turf Pace Low") •	Datats
Is Maiden Race?	▼ [= ▼ ◎ Yes ♥ No	Delet
Purse	▼ >= ▼ 250000 ▼	Delet
Surface	• In • III Dirt 🗟 Turf 🗐 All Weather	Deich

Contract of Contract

			Fan	d Races				
Results - since	e 4/20/15							
Class	Total Entries	Avg. Odds	Wins	Win %	Win ROI	In Money	In Money %	Show ROI
Top Contender	25	9.5	5	20.0	113.2	10	40.0	-14.4
Fringe Contender	15	10.6	2	13.3	-45.3	6	40.0	3.7
Too Slow	44	36.9	0	0.0	-100.0	6	13.6	-71.0
Breakout	25	25.7	2	8.0	-32.4	8	32.0	-26.0
Regressor	20	9.1	5	25.0	77.8	7	35.0	-22.3
Average	135	17.5	14	10.4	-3.7	46	34.1	-14.0
Top Value	24	14.0	4	16.7	115,0	8	33.3	-20.6
Upcoming Rac	tes							
Track Re	ace Date F	lace Number		View Pace			Analyze Race	
Del Mar	11/29/2015	8		Pace Fig	nuer		Analyze	

Save Search

Share Search:

Finally, you can "Save" your search by labeling it in the Save Search section below Upcoming Races, and clicking on "Save Search". Your saved searches are available on the Race Finder Saved Searches page.



Results - since 4/20/15									
Class	Total Entries	Avg. Odds	Wins	Win %	Win ROI	In Money	In Money %	Show ROI	
Top Contender	51	3.5	17	33.3	32.7	35	68.6	24,1	
Fringe Contender	14	7.1	2	14.3	-67:9	5	35.7	-58.4	
Too Slow	282	28.6	16	5.7	-48.8	65	23.0	-28.3	
Breakout	82	10.3	11	13,4	-52.6	39	47.8	-4.4	
Regressor	6	6.5	1	16.7	-1.7	4	66.7	11.7	
Average	74	12.8	14	18.9	38.2	35	47.3	10.1	
Top Value	51	3.5	17	33.3	32.7	34	66.7	21,6	

Upcoming Races	\$			
Track	Race Date	Race Number	View Pace Figures	Analyze Race
Charles Town	12/3/2015	5	Ease Figures	8malyza
Charles Tow	12/4/2015	6	Pace Figures	0.080/08
Charles Town	12/4/2015	8	Pace.Elouree	Analyze -
Charles Town	12/5/2015	8	Pace Floures	Analyza
Save Search				
Search Name:		12 11		



Future Application & Opportunities

- Race Finder Live Odds Feed with Exact Play Value Recommendations
- Individual Horse Search
- Harness Racing expansion
- International racing expansion
- Breeding analysis

