

Thoro-Graph

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The two most important questions in assessing a race are:

How fast has each horse run in the past?

How fast is it going to run today?

Thoro-Graph answers the first question by creating accurate performance figures. By placing the life history in figures on a graph, we allow you the opportunity to attack the second question with confidence.

Each number on a sheet represents a performance rating arrived at by using time of the race, beaten lengths, ground lost or saved on the turns, weight carried, and any effects wind conditions had on the time of the race.

All this information is refined with a carefully crafted track variant down to one number for each horse in every race. **The lower the number, the better the race.** With few exceptions there will be a figure for every race a horse has run for the last four years.

Thoro-Graph figures are represented numerically and in a clear graphical format that is easy to read and understand. The format makes it possible to compare horses which haverun under different conditions, at different distances over different tracks, and on different days. Any handicapper or horseman can examine each horse's history, form cycle, and relative ability in looking at today's race.

With a little practice, you'll be able to identify form cycles. Some run consistent patterns, varying from a simple good race/bad race pattern, bad race after an exceptionally good effort (the "bounce"), or more complex "circling" patterns where a horse gradually loses its form then slowly comes around toward its original level. Using our data it is possible to anticipate these moves and select horses which are not obvious to the general public. We also provide very sophisticated data that enables the handicapper to evaluate trainers and pedigrees when deciding how a horse will perform under different circumstances.

Of course there are infinite variations in how horses run and no two are alike. There are no hard and fast rules on how to interpret patterns and form cycles. Every handicapper will come up with his or her patterns they like or dislike. Some people will only bet long shots. Others just want to have fun and cash a race no matter what the return. Whatever your style, Thoro-Graph provides all you need to make you a better, more informed player.

It may take a little while to get the hang of reading our format, but if you stick with it, you'll realize Thoro-Graph is everything you need to win.

Race summary key

Up to 8 running lines are provided for each horse. From left to right, the running line denotes race date, track, race#, track condition, distance, race condition, finish position, beaten lengths, weight, odds, Thoro-Graph figure, path, and equipment/medication information. All trainer changes, not just claims, are listed.

<u>Summary code key</u>		<u>Track condition key</u>	
BAR	Barshoe or aluminum pad worn	gd	Good (dirt or turf)
bl	Blinkers	my	Muddy
f	Front bandages	sy	Sloppy
FC	Front caulks	wf	Wet fast
BC	Back caulks	sf	Soft
FBC	Front and back caulks	yl	Yielding
L	Lasix	❖	Polytrack
B	Bute		
N	Nasal Strip		

<u>Graph code key</u>			
st	Stumbled start or during race	T	Big trouble during race
gate	Fractious gate or ran off	tu	Taken up, steadied, or checked
op-	Off poorly less than 2 lengths	X	Ran on a dead rail
op	Off poorly ~2 lengths	\$	Heavily bet for no obvious reason
op+	Off poorly 4 or more	!	Buried race faster than appears to public
rank	Erratic, buck jumped, jumped shadow	h?	Horse may not have been extended
bled	Bled during race	h_pace	Unusually fast pace
bi bo	Bore in bore out	s_pace	Unusually slow pace
quit	Stopped - final figure not representative		
		time?	Time of race is in question
		•	Change of equipment, trainer, medication, etc.
			See details in race summaries
		▲	Lasix on (incl 1st Lasix)
		▼	Lasix off
		■	Trainer Change
		♦	bute on or off

Auction Prices

The sale price for all thoroughbreds sold at public auction through Summer 2007 as a (W)eanling, (Y)earling, or (2)-year-old are shown at the bottom of a horse's 2-year-old column.

Trainer and sire profiles

Trainer profiles with unusually good ROI (Return on Investment based on a \$2 wager) will be shown on the sheets in **bold**. A poor ROI will be in *italic*. The TGI (Thoro-Graph index) for sires is the average figure achieved by all their offspring. Statistics are based solely on North American starts.

Figure-Based Trainer Profiles - Chart on following page

1- The studies are based on the "effective top" of each horse at the time of the race being measured. Effective top is defined here as the horse's best figure from his last six starts, or last 12 months if he ran less than 6 times during that period. This means, for example, that when we look at an instance of a trainer running a horse second off a layoff, that effort is compared to his previous six runs at that time.

2- The efforts being measured are broken out into 4 categories--

- "new top", defined as more than one point better than the previous "top",
- "pair", defined as one point better or worse inclusive than the previous top,
- "off race", defined as more than a point worse but less than 4 points worse than the previous top,
- "x", defined as 4 or more points worse than the previous top.

3- For the categories measuring how a trainer's horses do following a top, a pair of tops etc., we only used horses that have run at least 6 times for the trainer.

4- We did not use a sequence where there was a trainer change in the last 3 starts (except for the "trainer change" studies). We are going to take a look at this and decide whether that is the right way to go or not.

5- The bold face and italics indicate significantly higher or lower than average, respectively, not better or worse. Meaning, a trainer with a bold face "x" group in a category is getting more BAD performances than most.

6- We are comparing efforts to tops on the same surface only-- if a horse raced on dirt we compared his effort to his best dirt number within his last 6 starts on any surface.

Trainer Averages**RUNS-BASED**

Win%	ITM%	ROI
12.2	36.5	1.51
26.7	62.4	1.61
11.0	40.0	1.60
3.4	17.2	1.38
12.4	38.2	1.53
12.5	38.1	1.51
12.6	36.8	1.55
9.6	29.2	1.37
10.7	33.2	1.29
12.2	36.8	1.49
12.2	36.4	1.51
12.2	36.8	1.50
11.4	34.2	1.42
11.4	34.1	1.49
12.3	36.8	1.54
12.8	38.5	1.49
13.0	38.8	1.48
11.9	35.8	1.47
12.6	36.8	1.52
12.7	37.6	1.55
11.5	35.7	1.48
9.6	29.3	1.42
9.1	28.5	1.60
7.7	23.5	1.31
6.9	21.7	1.32
23.6	54.8	1.55
10.7	34.8	1.59
3.0	13.4	1.26
12.1	35.7	1.46
9.6	28.0	1.32
27.3	61.1	1.60
10.2	37.2	1.49
2.7	13.3	1.20
12.4	37.0	1.50
12.4	37.4	1.46
12.5	37.4	1.50
11.1	33.1	1.53
7.8	24.6	1.58
8.9	27.9	1.60
12.1	36.3	1.49
10.2	33.6	1.47
12.3	36.9	1.54
10.4	31.0	1.42
10.9	33.1	1.47
13.8	39.1	1.53
9.8	32.3	1.48
12.9	35.8	1.55
10.4	31.1	1.38
11.5	33.7	1.48
12.3	35.7	1.46
10.8	33.5	1.42
11.3	33.6	1.62
11.1	34.1	1.30
11.1	33.5	1.59

TG FIGURE-BASED

Category	Top%	Pair%	Off%	X%
Overall	13.3	22.6	25.2	38.9
4-1 or less	13.3	28.7	26.8	31.2
over 4-1 to 10-1	13.0	23.4	26.0	37.6
over 10-1	13.5	17.9	23.7	44.9
Last race under 11 days	13.3	22.9	25.5	38.3
Last race 11-29 days	13.1	23.2	25.7	38.0
Last race 30-89 days	14.0	22.2	24.7	39.1
Last race 90+ days days	13.0	17.2	22.1	47.7
2nd race off lay-off	13.7	20.1	23.5	42.8
3rd race off lay-off	14.4	22.3	24.5	38.8
Colts and geldings	12.9	22.7	25.8	38.6
Fillies and mares	13.9	22.4	24.5	39.2
MSW	23.1	25.3	21.0	30.7
MCL	20.4	23.1	21.1	35.5
CLM	10.3	20.7	25.8	43.2
ALW	14.0	24.8	26.6	34.7
STK	13.2	27.4	28.4	31.0
2-y-o	25.0	25.6	19.4	29.9
2-y-o 2nd time out	51.3	19.7	11.8	17.2
2-y-o 3rd time out	35.3	24.0	15.6	25.1
3-y-o	19.1	24.9	22.9	33.1
3-y-o 2nd out lifetime	49.7	18.2	13.1	19.0
3-y-o 3rd out lifetime	35.3	24.0	15.6	25.1
4-y-o	13.3	23.5	25.4	37.7
5-y-o and up	8.6	20.1	27.1	44.1
1st time out 2-y-o (MSW)				
1st time out 2-y-o (MCL)				
1st time out 3-y-o+ (MSW)				
1st time out 3-y-o+ (MCL)				
1st time out mdn 4-1 or less				
1st time out mdn over 4-1 to 10-1				
1st time out mdn over 10-1				
2nd out mdn 2-y-o				
2nd out mdn 3-y-o+				
2nd time out mdn 4-1 or less				
2nd time out mdn over 4-1 to 10-1				
2nd time out mdn over 10-1				
Dirt	12.7	21.7	24.8	40.8
Turf to Dirt	23.4	20.4	21.6	34.6
Off tracks	12.6	20.8	23.6	43.0
Turf	17.5	30.1	30.3	22.1
First time Turf	17.6	19.3	24.3	38.8
Dirt to Turf	24.7	23.7	24.6	26.9
Sprints	13.2	21.8	24.7	40.3
Route to Sprint	14.7	21.5	24.9	38.9
Routes	13.4	23.8	26.1	36.7
First Route	17.0	19.9	20.3	42.7
Sprint to Route	13.2	20.0	23.1	43.7
Claimers, down in class	13.9	21.4	23.9	40.8
Claimers, up in class	13.1	21.2	24.9	40.9
1st after trainer change	14.3	18.3	22.1	45.4
2nd after trainer change	13.4	19.6	23.0	43.9
1st time Lasix	25.5	23.0	19.9	31.6
2nd time Lasix (in a row)	27.1	22.7	19.2	31.0
1st time blinkers	18.9	21.9	21.5	37.7
Blinkers On	16.9	21.4	22.3	39.4
Blinkers Off	19.9	23.0	23.2	34.0
Adding bandages	12.0	19.5	23.8	44.6
Removing bandages	13.1	20.4	24.3	42.3
After new top (by at least 1pt)	15.3	25.5	25.9	33.3
After race within 1pt of top	18.4	31.1	24.9	25.6
After race 1-4pts off top	11.6	23.4	29.9	35.2
After race 4pts or more off top	6.9	15.0	22.6	55.5

Sire Averages

Category	Win%	ITM%	TGI
Overall	12.1	36.2	17 ²
2-y-o	11.7	35.2	22 ²
3-y-o	12.4	36.3	18 ³
4-y-o	12.3	36.6	16 ²
5-y-o+	11.8	36.1	15 ²
Dirt	12.2	36.5	18 ¹
Synth	11.5	34.3	14 ²
Off tracks	12.4	37.3	19 ²
Turf	11.1	33.1	17
1st time turf	7.8	24.3	19 ³
Sprints	12.0	36.0	18 ³
Routes	12.3	36.8	18 ²
1st time out	8.5	25.6	26 ²
Fillies/Mares	12.1	36.4	19
Colts/Geldings	12.1	36.2	16

Dam-Side Data

Sheets for all horses less than 5-years old will include the race records (North American from 1992 on) for each dam and her other foals and their best Thoro-Graph figure broken down by year, sprint, route, surface and track condition.

An asterisk, *, besides the dam or foal's name indicates that the horse may have raced before 1992 and those races are not included. A dash, --, in the data category means the horse did not race, so no figure. A question mark, ?, means we don't have figures for those races.

Thoro-Graph figures are calculated from data compiled from several sources including Equibase Company LLC. Data provided or compiled by Equibase Company LLC (which includes data from The Jockey Club) and/or Thoro-Graph Inc. generally is accurate but occasional errors and omissions may occur as a result of incorrect data received by others, mistakes in processing, and other causes. Thoro-Graph Inc., Equibase Company LLC, and The Jockey Club disclaim responsibility for the consequences, if any, of such errors but would appreciate their being called to their attention.