

# 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 have run 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.

# Thoro-Graph

## The Basics

The lower the number the faster the race. On our scale 1 point = ~1 length at 5 furlongs increasingly to 2 lengths at 1 1/4 miles. Each sheet has 4 calendar years going back from right to left. The last race a horse ran would be the uppermost number in the rightmost column corresponding to the horse's age.

5 pounds in weight = 1 point at all distances. The figures are adjusted for weight carried in previous races. If 2 horses run a TG figure of 10 today, a horse in at 115 will beat a horse in at 120 by 1 point, or 1 length at 5f.

Each path out from the rail (1 path) = 1 length of ground loss. Considering all else equal, in a 1 turn race a horse in the 3 path runs 2 lengths better than a horse on the rail.

Our figures are not adjusted for horses that are off poorly or stumbled from the gate. Appropriate notations are made next to the figure.

Dirt figures  $25^1 = 25 \frac{1}{4}$   $25^2 = 25 \frac{1}{2}$   $25^3 = 25 \frac{3}{4}$  Turf races are denoted by "-" e.g. -25 is 25 on the turf.

### Typeface key

Races 5 1/2 furlongs and less are in *italic light face* e.g.  $25^2$

Races 6 furlongs to less than 1 mile are in light face e.g.  $25^2$

Races 1 mile to 1 1/8 miles are in **bold face** e.g.  $25^2$

Races more than 1 1/8 miles are in **italic bold face** e.g.  $25^2$

### 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		

### Graph code key

st Stumbled start or during race  
 gate Fractious gate or ran off  
 op- Off poorly less than 2 lengths  
 op Off poorly ~2 lengths  
 op+ Off poorly 4 or more  
 rank Erratic, buck jumped, jumped shadow  
 bled Bled during race  
 bi bo Bore in bore out  
 quit Stopped - final figure not representative

T Big trouble during race  
 tu Taken up, steadied, or checked  
 X Ran on a dead rail  
 \$ Heavily bet for no obvious reason  
 ! Buried race faster than appears to public  
 h? Horse may not have been extended  
 h\_pace Unusually fast pace  
 s\_pace Unusually slow pace

time? Time of race is in question  
 ● Change of equipment, trainer, medication, etc. See 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 2004 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.

### Sire Averages

<u>Category</u>	<u>Win%</u>	<u>ITM%</u>	<u>TGI</u>
Overall	12.1	36.2	18 <sup>1</sup>
2-y-o	11.7	35.1	23
3-y-o	12.3	36.2	19 <sup>2</sup>
4-y-o	12.2	36.4	17 <sup>1</sup>
5-y-o+	11.9	36.3	16 <sup>1</sup>
Dirt	12.1	36.3	19
Off tracks	12.4	37.1	20
Turf	11.1	33.2	17 <sup>2</sup>
1st time turf	7.8	24.3	20 <sup>2</sup>
Sprints	12.0	35.9	19 <sup>2</sup>
Routes	12.3	36.7	19
1st time out	8.5	25.5	27
Fillies/Mares	12.1	36.3	19 <sup>3</sup>
Colts/Geldings	12.1	36.1	16 <sup>3</sup>

### Trainer Averages (Through 2004)

<u>Category</u>	<u>Win%</u>	<u>ITM%</u>	<u>ROI</u>
Overall	12.2	36.5	1.52
4-1 or less	26.5	62.2	1.62
over 4-1 to 10-1	11.1	39.8	1.61
over 10-1	3.4	17.2	1.39
Sprints	12.1	36.3	1.51
Routes	12.3	36.9	1.55
Dirt (inc off tracks)	12.3	36.9	1.52
Turf	11.1	33.2	1.53
Off tracks (Dirt)	12.4	37.3	1.54
Fillies/Mares	12.2	36.8	1.51
Colts/Geldings	12.1	36.3	1.53
MSW	11.3	34.0	1.41
MCL	11.3	33.9	1.49
CLM	12.3	36.8	1.57
ALW	12.9	38.6	1.48
STK	13.0	39.0	1.48
2-y-o	11.9	35.8	1.45
3-y-o	12.6	36.8	1.54
4-y-o	12.5	37.4	1.54
5-y-o+	11.8	36.2	1.51
Last race 7 days and under	12.7	38.9	1.57
Last race 8-29 days	12.6	38.1	1.52
Last race 30-89 days	12.3	36.3	1.56
Last race 90+ days	9.5	28.9	1.34
2nd race off layoff	10.9	33.9	1.33
3rd race off layoff	12.3	37.1	1.50
1st time out 2-y-o (MSW)	9.1	28.5	1.34
1st time out 2-y-o (MCL)	8.9	27.7	1.63
1st time out 3-y-o+ (MSW)	8.2	23.5	1.41
1st time out 3-y-o+ (MCL)	7.0	21.6	1.32
1st time out mdn 4-1 or less	23.8	54.1	1.57
1st time out over 4-1 to 10-1	10.6	34.3	1.58
1st time out over 10-1	3.1	13.4	1.27
2nd time out mdn 2-y-o	12.8	35.9	1.55
2nd time out mdn 3-y-o+	9.1	27.4	1.25
2nd time out mdn 4-1 or less	27.7	61.4	1.64
2nd time out mdn > 4-1 to 10-1	10.4	36.5	1.51
2nd time out mdn over 10-1	2.6	13.0	1.15
1st race after trainer change	12.6	35.4	1.57
Dirt to Turf	8.7	27.4	1.60
Turf to Dirt	12.2	37.2	1.42
In claimers, down in class	13.7	38.8	1.54
In claimers, up in class	9.9	32.5	1.51
Sprint to Route	10.8	33.0	1.44
Route to Sprint	10.4	33.8	1.49
1st time route	10.3	30.8	1.40
1st time turf	7.9	24.8	1.61
1st time Lasix	11.6	33.3	1.45
2nd time Lasix (in a row)	11.9	35.1	1.57
1st time blinkers	10.5	31.3	1.34
Blinkers on	10.6	32.9	1.37
Blinkers off	11.8	35.8	1.73
Adding bandages	11.2	34.3	1.65
Removing bandages	11.3	34.5	1.34

## **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.