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TRUST THE DATA

Biomechanical & Cardio Score Results—Fasig-Tipton July 2007-2013

Here are the results of a comprehensive study on how yearlings which were analyzed by DataTrack's Biomechanical and/or Cardio Score programs at the Fasig-Tipton July sale from 2007 through 2013 **have fared as racehorses**.

The purpose of the study was to determine how close to actual racing performance DataTrack's criteria for racing success (rankings A to D) for either program projected.

For background purposes, please see our website links under NOTES at the end of the study.

Criteria

Although some of these horses were selected on pedigree by clients, advisors, or DataTrack, **all of these horses passed each selector's conformation criteria**. Thus, this is a fairly select group.

The results displayed in these charts are separated by Ratings, A through D. There are two findings for each section—percent of horses in each Rating Group which got to the races; percent of horses in each group which got to the races and won.

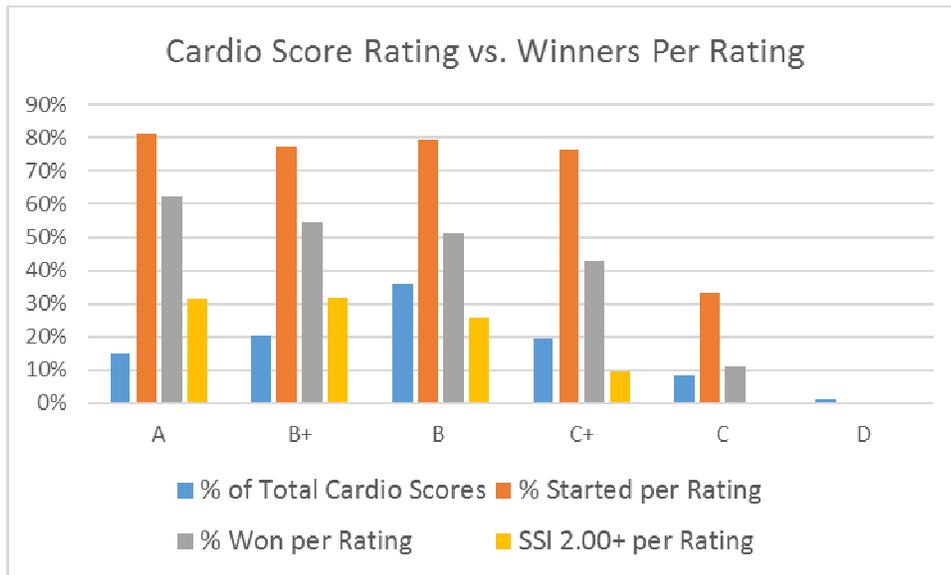
The SSI is the percent of horses in each Rating Group which earned at least **twice the average earnings per North American starter during its career**, per Bloodstock Research's figures, updated through May 31, 2015. While we considered including black-type winners and placed horses some of those horses actually did not meet the SSI criteria, which means they did not exactly race in the best company. As such, we are more interested in ROI, *Return on Investment*, rather than glory.

Cardio Scores

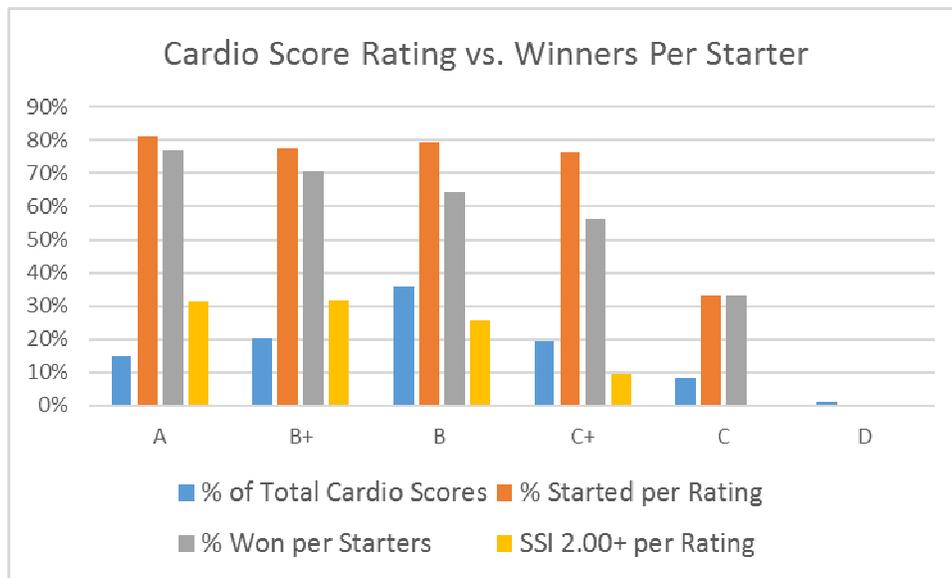
The two charts on the next page are based on data gathered on all Cardio Scores obtained, whether stand-alone or in combination with Biomechanical Analysis. The top chart shows:

- Bell Curve exists for distribution of Cardio Scores across Ratings (**Blue**).
- A relatively high percentage of A through C+ Ratings getting to the races but fewer than half the C and D Ratings (**Orange**);
- A steady drop in the percentage of winners from each group as the Ratings decline
- A precipitous drop in the acceptable 2.00 SSI (**Yellow**).

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A similar pattern exists in the chart below which shows the starters who actually won a race.



Return on Investment

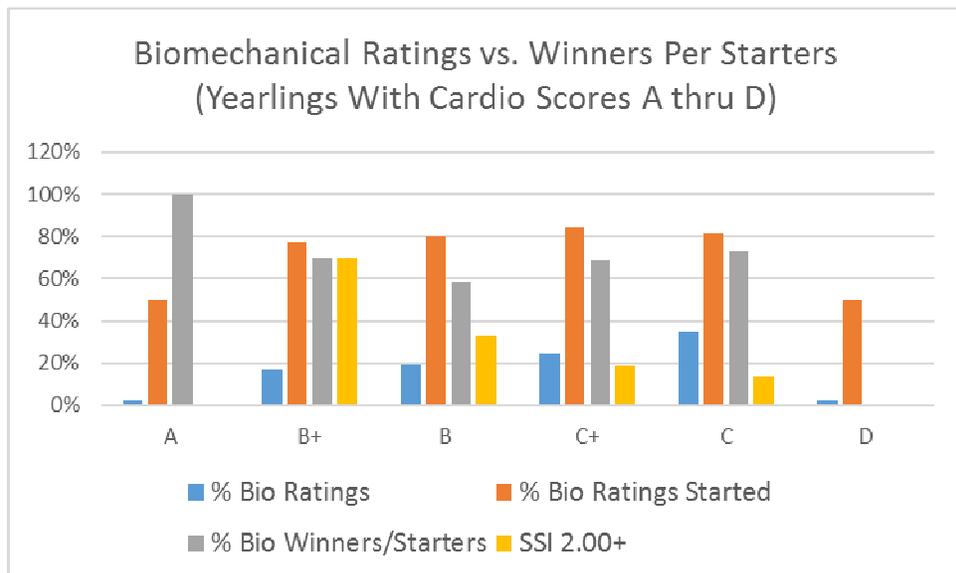
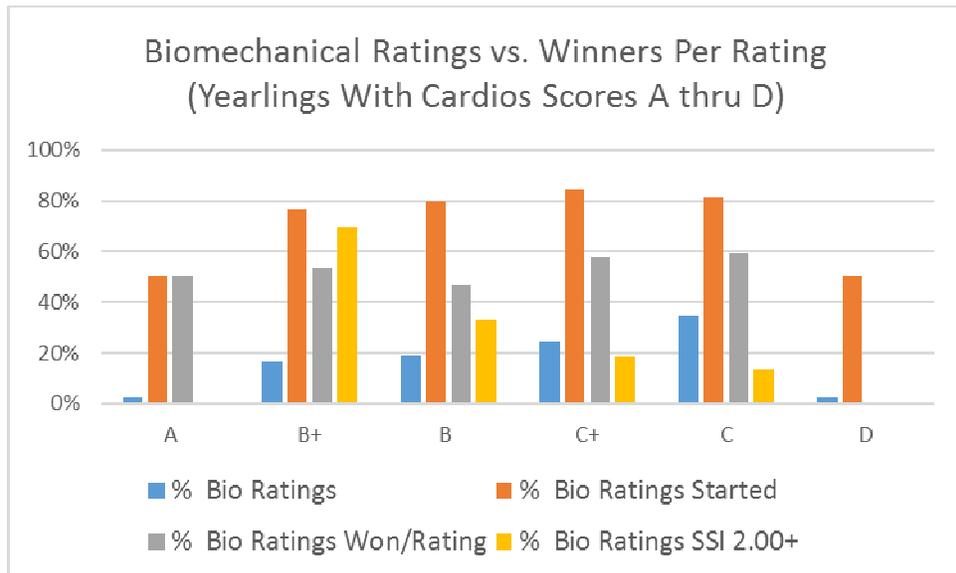
This data obviously does not need a chart:

Average Price of C+, C, D Cardio Scores	All	\$ 88,885
Average Price of C+, C, D Cardio Scores	Won	\$ 74,666
Average Price of C+, C, D Cardio Scores	Non-Winners	\$103,889
Average Price of C+, C, D Cardio Scores	Unraced	\$107,885

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Biomechanics + Cardio Scores: Part 1

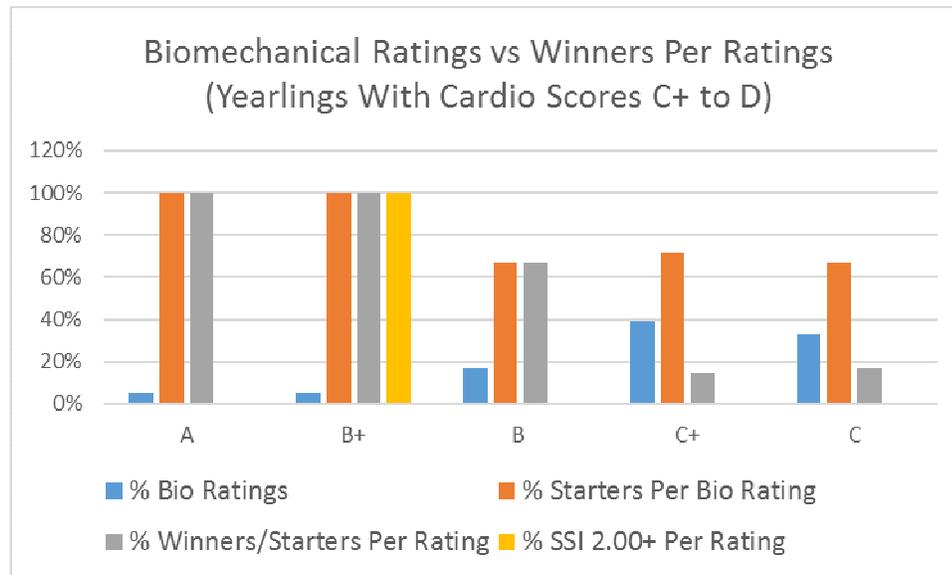
The charts below are based on **Biomechanical Ratings** (A through D) for **ALL** yearlings that also had Cardio Scores. These charts are based on the same criteria and color schemes as the ones for Cardio Scores alone. You will note that very few yearlings are graded A, and the majority are graded C+ or C; yet the vast majority of runners that earned a 2.00 SSI or better were A, B+ and B.



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Biomechanics + Cardio Sores: Part 2

Here is the range of Biomechanical Ratings for yearlings which failed the Cardio Score test. Note that the success is tilted strongly to the A, B+ and C+ Biomechanical Ratings—but the level of SSI success is zero except for the B+ ratings. Most of these horses were efficient but low-earning sprinters.



Conclusion

While Cardio Scores alone are useful for some purchasers, we have seen that *very good Cardio Scores but modest to poor Biomechanics does not a good racehorse make. But solid data does.*

NOTES

Why Only One Sale

The sample size for this sale is more manageable than Keeneland's, but the statistical analysis for both that sale and all others that DataTrack has studied over the past several years indicates that if the results play out in a Bell Curve, the findings are valid.

These results give a very good endorsement to that axiom.

Background Information

Please refer to our website, www.biodatatrack.com where you will find a complete description of these programs which include the results of studies for horses analyzed as 2-year-olds.

The details on what our rating system for Cardio Scores are here:

<http://biodatatrack.com/cardio-scores.html>

The details for Biomechanical Analysis here:

<http://biodatatrack.com/biomechanical-analysis.html>

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