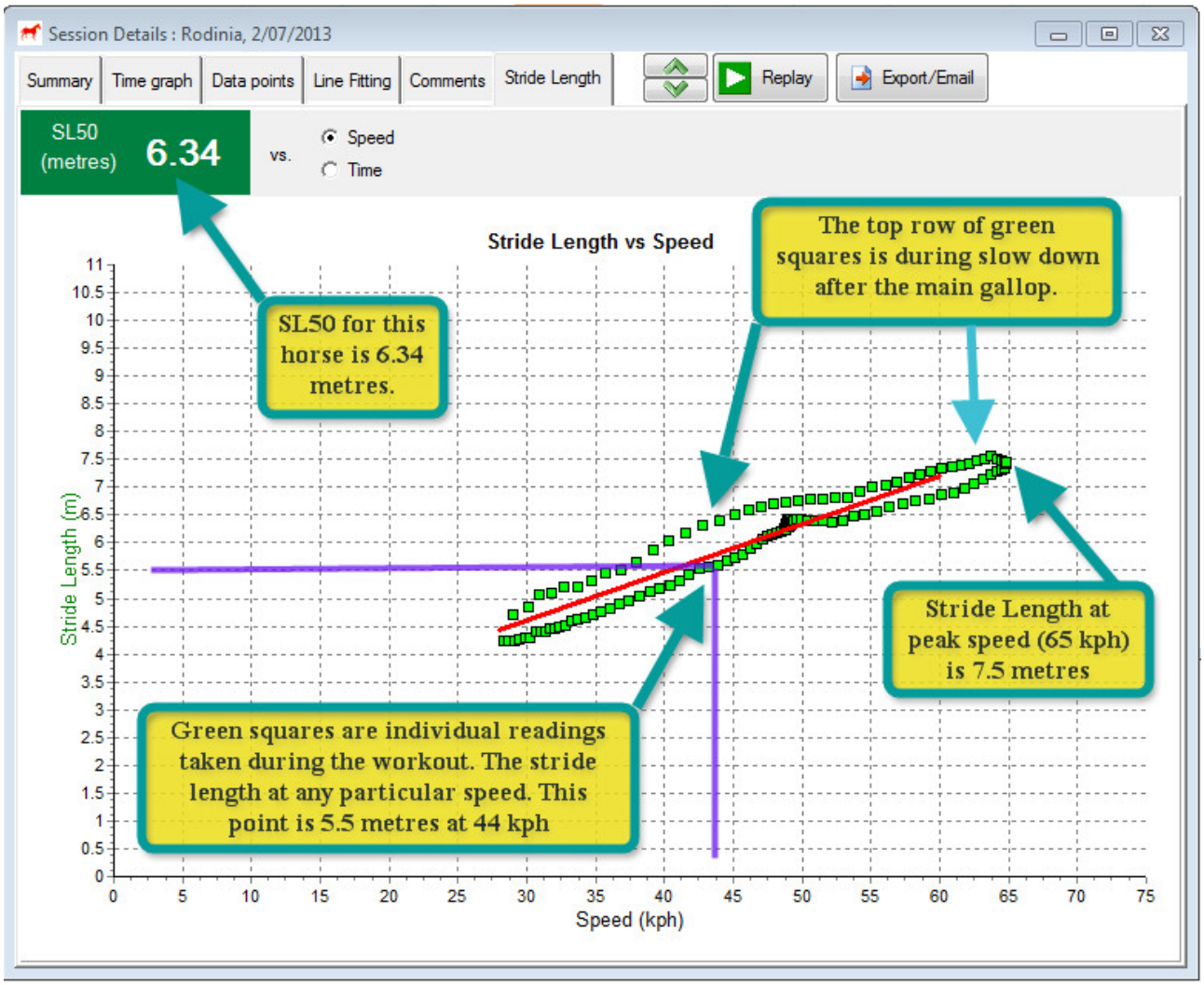
Stride Length Function

Developed after the recent upgrade of the E-Trakka GPS Receiver, we are proud to announce the addition of Stride Length measurement to the E-Trakka system. In a world first this unique and reliable method of measuring stride length, provides yet another important aspect to understanding your equine athlete's performance.

Stride Length 50 (SL50)

This new function of the E-Trakka Profiler software is designed to provide you with a simple number and a standard benchmark we have labelled **Stride Length 50 (SL50).** This number is the captured stride length at the time the horse travels at 50 kilometres per hour (31MPH) and is computed after analysis of hundreds of individual strides. The E-Trakka Profiler software also enables viewing of all stride length measurements recorded during the workout, including the stride length at peak speed.

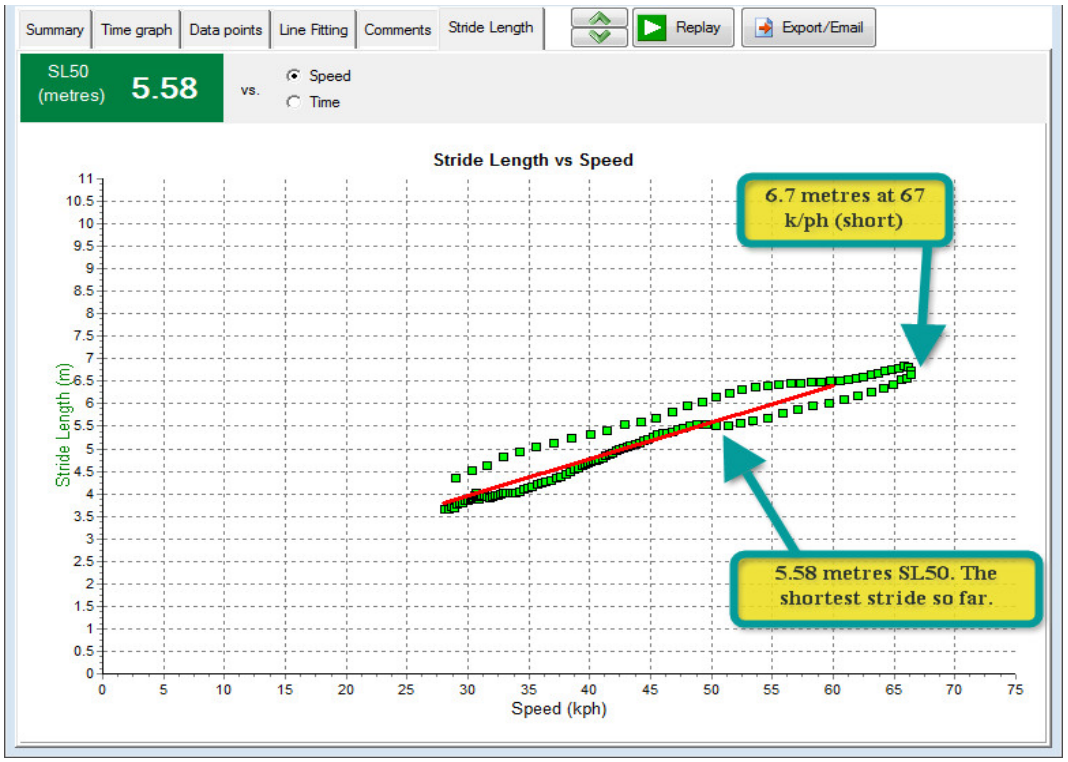
To date, an SL50 range of between 5.6 and 7 metres (18ft – 22ft, 11in) has been recorded with the average horse's SL50 at around 6.1 metres. As you would expect "most" of the graded horses tend to have a stride length better than SL50 6.3m. The chart below explains a typical E-Trakka stride length report.



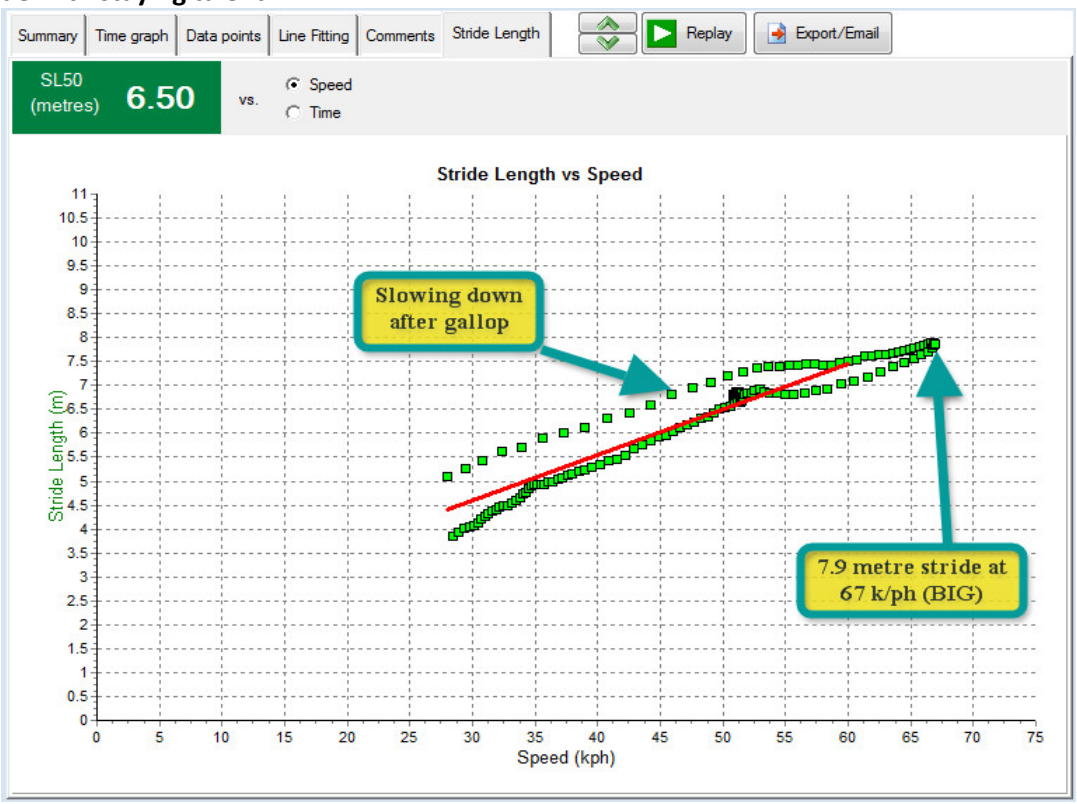
Short Stride VS Long Stride

Early in our research we arranged for two top class horses to gallop together during an exhibition gallop. Both horses had the same peak speed, sectional times and recovery profiles. One horse was a group one winner having won $2.6 million in stakes and the other 2nd in a listed race and a $290,000 stake earner. The $2.6 million winner had a SL50 of 6.8 metres and the $290k earner SL50 of 6.1 meters. The first horse was a high capacity long strider and the other horse a high capacity short strider, which had limited his career.

Short stride lower class sprinter



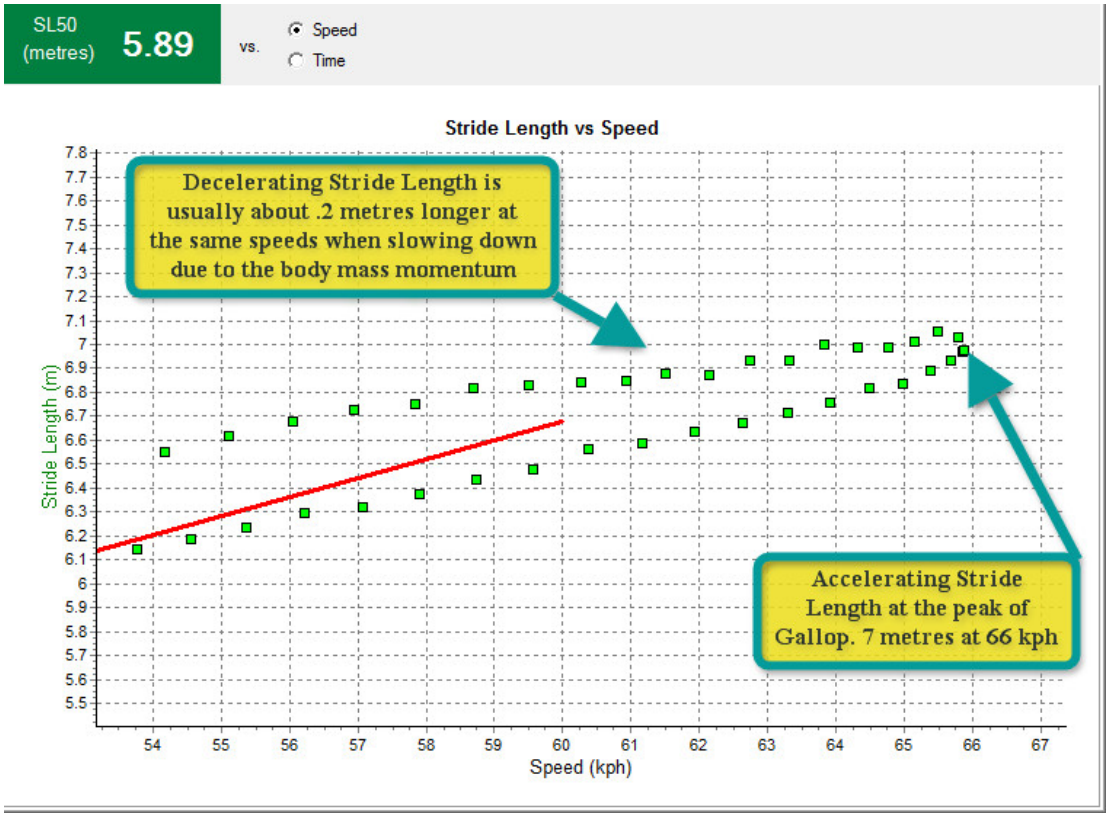
Long stride with staying talent



Additional features

The E-Trakka Stride Length function allows the ability to magnify or to zoom in on a chart (shown below) and also view Stride Length verses Speed verses Time as shown in the second chart below.

Zoom View



Stride Length vs. Speed vs. Time

Key notes and observations

- The SL50 Stride length measurement allows the trainer to quantify the measurement of the horses stride whether short, medium or long against standard readings. This helps with decisions such as the most suitable distance for a horse. Generally you would like a stayer to have a longer stride.

- A horse slows down about 2.5 - 3.5 KPH every stride. More strides require more energy to maintain motion.

- For a 1200m race, a horse travelling at 61 kph with an average stride of 6.6 metres would take 182 strides compared to 166 strides for a horse with an average stride of 7.2 metres. That's an extra 16 strides for the horse with the smaller stride length which is actually 10% more strides.

- Short striders have won races but usually lower class races over shorter distances. They have more chance of winning if they have other strong athletic attributes such as a good aerobic system.

- Not all long striders win races but generally are higher class and more suitable to distance races.

- Stride length is created automatically in the E-Trakka system and no set-up is required by the user.

- A young horse that went shin sore had a drop in SL50 of .4 of a metre.

In summary, the E-Trakka stride length is a revolutionary development within the racing industry and combined with the E-Trakka captured heart rates, GPS speed and sectional timing, enables racehorse trainers to train with more professionalism and confidence. Trainers will make better decisions regarding health and fitness based on facts as well as their subjective judgements. In the end this means MORE winners.

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