

## The KING, SADLER's and SHIRLEY

Leo Tsatsaronis, April 2008

The emergence of Shuttle stallions and the ease of transporting horses across the world has seen the emergence of Global Super Crosses where a pedigree cross produces superior racehorses in multiple regions rather than the regional crosses that we have been accustomed to in the previous 20-30 years.

**KINGMAMBO** over mares with **SADLER'S WELLS** has produced 12 GSWs [Graded Stakes Winners] in 4 different countries with a **VGS of a whopping 14.7**. This means that this cross produces GSWs over 14 times faster than statistically expected. This is an emerging *Super Cross*. The diagram below shows the Geographical breakdown of this cross

The screenshot shows the G1 Goldmine software interface. On the left is a list of horses with columns for Name, Sex, Year of Birth (YOB), and Graded Stakes Wins (G1, G2, G3). The main window displays the 'Ventura GeoScore' for the cross between KINGMAMBO and SADLER'S WELLS. It shows 71 GSWs for KINGMAMBO and 139 for SADLER'S WELLS, with a VGS of 14.76. A table below provides a geographical breakdown of GSWs by country, including predicted and actual counts and regional scores.

Country	GSWs Born in Country	% of GSWS born with KINGMAMBO	% of GSWS born with SADLER'S WELLS	# of KINGMAMBO's GSWS in Country	# of SADLER'S WELLS's GSWS in Country	#GSWs Predicted	#GSWs Actual	Regional Score
USA	4564	1.0%	0.5%	46 (64.8%)	22 (15.8%)	0.2	5	22.55
Australia	1959	0.1%	0.5%	1 (1.4%)	9 (6.5%)	0.0	0	X
New Zealand	1302	0.0%	0.1%	0 (0.0%)	1 (0.7%)	0.0	0	X
Ireland	1137	0.7%	2.9%	8 (11.3%)	33 (23.7%)	0.2	3	12.92
Great Britain	961	0.5%	3.7%	5 (7.0%)	36 (25.9%)	0.2	3	16.02
South Africa	949	0.0%	0.7%	0 (0.0%)	7 (5.0%)	0.0	0	X
Japan	416	1.7%	1.9%	7 (9.9%)	8 (5.8%)	0.1	0	X
France	368	0.5%	1.6%	2 (2.8%)	6 (4.3%)	0.0	1	30.67
Argentina	323	0.0%	0.6%	0 (0.0%)	2 (1.4%)	0.0	0	X
Canada	277	0.7%	0.0%	2 (2.8%)	0 (0.0%)	0.0	0	X
Germany	274	0.0%	2.9%	0 (0.0%)	8 (5.8%)	0.0	0	X
Brazil	117	0.0%	0.0%	0 (0.0%)	0 (0.0%)	0.0	0	X
Chile	65	0.0%	10.8%	0 (0.0%)	7 (5.0%)	0.0	0	X
Zimbabwe	53	0.0%	0.0%	0 (0.0%)	0 (0.0%)	0.0	0	X
Dominican Re...	44	0.0%	0.0%	0 (0.0%)	0 (0.0%)	0.0	0	X
Unknown	22	0.0%	0.0%	0 (0.0%)	0 (0.0%)	0.0	0	X
Puerto Rico	19	0.0%	0.0%	0 (0.0%)	0 (0.0%)	0.0	0	X
Italy	14	0.0%	0.0%	0 (0.0%)	0 (0.0%)	0.0	0	X
United Arab ...	5	0.0%	0.0%	0 (0.0%)	0 (0.0%)	0.0	0	X
Uruguay	4	0.0%	0.0%	0 (0.0%)	0 (0.0%)	0.0	0	X
Venezuela	2	0.0%	0.0%	0 (0.0%)	0 (0.0%)	0.0	0	X

Summary statistics at the bottom of the window:  
 # of KINGMAMBO Sire Side GSWS: 71  
 # of SADLER'S WELLS Dam Side GSWS: 139  
 % with SADLER'S WELLS on the other side: 16.90  
 % with KINGMAMBO on the other side: 08.63  
 VGS: 14.76  
 Total Graded/Group Stakes Winners 12 (5xG1, 2xG2, 5xG3)

The diagram shows that KINGMAMBO over SADLER'S WELLS *should* have produced less than one GSW worldwide yet has *actually* produced 12 GSWs in 4 different countries.

A well known *Super Cross* is **SADLER'S WELLS** over mares with **SHIRLEY HEIGHTS**. This has produced 46 GSWs with a **VGS of 2.2** which is very high given the volume of GSWs produced.

So.....if SADLER'S has an affinity with SHIRLEY.....and KINGMAMBO has an affinity with SADLER'S.....would KINGMAMBO have an affinity with SHIRLEY ?

**KINGMAMBO** over mares with **SHIRLEY HEIGHTS** has produced 6 GSWs with a **VGS of 4.6**. Given that these two sirelines do not naturally exist in the same country, this is a very high result. To summarise

Kingmambo x Sadler's Wells    12 GSWs VGS 14.7  
Kingmambo x Shirley Heights    6 GSWs VGS 4.6

KINGMAMBO of course is a superior sire and one could argue that at US\$300k a serve, he only saw the very best SADLER'S and SHIRLEY mares. If a cross is indeed a Super Cross, then it should be extendable and apply to sons and grandsons.

**KING'S BEST** is KINGMAMBO's best sire son in Europe. It is fair to say he has been a solid stallion but has not achieved the heights expected of him when first retired, **but**, look at his results with mares carrying SADLER'S or SHIRLEY:

King's Best x Sadler's Wells    4 GSWs VGS 12  
King's Best x Shirley Heights    3 GSWs VGS 3.9

So KING'S BEST with both is showing the same success rate as his sire KINGMAMBO which tends to indicate that there **is** an extendable affinity that is being passed along. An important aspect of this analysis is that these crosses can be applied in most countries of the world so it's a practical Super Cross that can be planned for.

*Footnote: **DUBAI DESTINATION** produced his first G1 winner last year. What do think you'll find in the dam ?*

**Leo Tsatsaronis**

**Bio**

**Leo Tsatsaronis is the designer and architect of the G1 Goldmine pedigree software. Leo is a successful hobby breeder and uses G1 Goldmine to research suitable stallions for his own mares. Leo can be contacted on [Leo.Tsatsaronis@G1Goldmine.com](mailto:Leo.Tsatsaronis@G1Goldmine.com).**

## What is the VGS ?

VGS stands for Ventura Geo Score named after it's inventor Michael Ventura. The VGS measures the impact of crossing two ancestors (for instance Green Desert and Shirley Heights), by comparing how many Graded Stakes Winners (**GSWs**) the cross **should** have got compared to how many it **actually did** get.

But how do we determine how many GSWs a cross "should" have got?

G1 Goldmine reports that in GB there are 34 GSWs descended of GREEN DESERT.

G1 Goldmine also reports that in GB, SHIRLEY HEIGHTS is in 5.6% of all GSWs on the dam side i.e. 1 in 20 GSWs in GB have SHIRLEY HEIGHTS somewhere in the dams.

Therefore the number of GREEN DESERT descended GSWs that **should** have SHIRLEY HEIGHTS on the other side is 5.6% of GREEN DESERT's 34 GSWs is 1.9. In GB, this cross has **actually** produced 4 GSWs. Dividing the actual into the predicted (4 / 1.9) gives us a VGS for GB of **2.09**.

This means that the GREEN DESERT over SHIRLEY HEIGHTS cross is producing GSWs over 2 times faster than statistically predicted in GB. Applying this logic by geographic region provides a geographical analysis and using a weighted average formula, we can calculate an overall world-wide score.

When the number of GSWs predicted for a cross is equal to the number of GSWs it actually gets, the cross will get a score of **1.00**. A cross that outperforms how well it ought to have done has a score **over 1.00**, and if it underperforms how well it ought to have done it gets a score under **1.00**.