WERK NICK RATING[™] A

(based on the STAR WITNESS - FASTNET ROCK cross)

Generated on 01/12/20 NUREYEV SOVIET STAR VERUSCHKA **STARCRAFT** POMPEII COURT **FLYING FLOOZIE** LUCKY HEIRESS **STAR WITNESS** DANEHILL LION HUNTER PURE OF HEART LEONE CHIARA LAST TYCOON CHIARA ETOILE D'OR STAR TURN SHECKY GREENE (2013) **GREEN FOREST** TELL MENO LIES MADE OF GOLD **ROI DAGOBERT** VINDARIA HEAVENLY BODY **GOLDEN DELICIOUS BLUSHING GROOM** PRE EMPTIVE STRIKE QUEEN MAUD **BAROSSA GOURMET** MY HFART MARRY MF MARIA REGAL WATERS Prospective foal NORTHERN DANCER 1 DANZIG (I/C) PAS DE NOM DANEHILL (Q) **HIS MAJESTY** RAZYANA 1 SPRING ADIEU FASTNET ROCK NIJINSKY II ROYAL ACADEMY (B/I) CRIMSON SAINT **PICCADILLY CIRCUS** MARAUDING GATANA TWIGALAE COUNTY CORK SPEAK JOHN (2012) HOLD YOUR PEACE (Q) **BLUE MOON** SUCCESS EXPRESS DANCING CHAMP AU PRINTEMPS LORGNETTE II SAVANNAH SUCCESS NODOUBLE SEMIPALATINSK SCHOOL BOARD ALMA MATER WITHOUT FFAR SWEETIE VIRGINIA Sibling Identifier: odd numbers = same dam only; even numbers = same sire and dam

(+19465%)

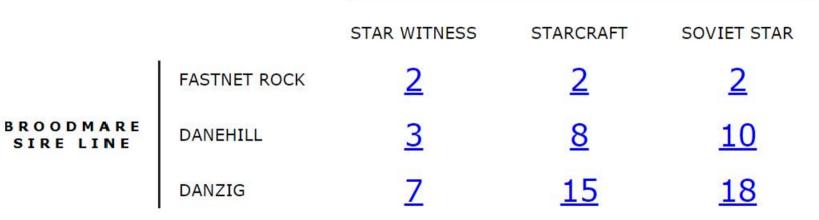
Roman Dosage Profile: (1-2-1-0-0) D.I.: 7.00 C.D.: 1.00								
Dosage Points: 4	Werk Quality Rating: + Quality Points: 6	Q 3 =	Total Points:	10				

5-Generation Inbreeding: DANEHILL - 5m x 3m

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SIRE LINE





Stakes Winners

Stakes winners bred from the STAR WITNESS--FASTNET ROCK cross

Stakes Winner	Yob	Sex	Best	Dirt	AWS	Turf	Pedigree
OUR CROWN MISTRESS	2014	F				Y	STAR WITNESS ex BARANGAROO (FASTNET ROCK)
PEARL STAR	2012	F				Y	STAR WITNESS ex PEARL OF THE SEA (FASTNET ROCK)



Stakes Winners

Stakes winners bred from the STARCRAFT--DANEHILL cross

Stakes Winner	Yob	Sex	Best	Dirt	AWS	Turf	Pedigree
AIN'TNOFALLENSTAR	2007	F				Y	STARCRAFT ex AIN'T SEEN NOTHIN' (NOTHIN' LEICA DANE)
BLIZZARD	2011	С	G3			Y	STARCRAFT ex STORMY CHOICE (REDOUTE'S CHOICE)
CONTE	2013	С	G3			Y	STARCRAFT ex MISS MIDAS (FLYING SPUR)
COSMIC ALERT	2015	F				Y	STAR WITNESS ex COSMIC ROCK (ROCK OF GIBRALTAR)
DO YOU THINK	2008	С	G3			Y	STARCRAFT ex CHICKENS (DANEHILL)
OUR CROWN MISTRESS	2014	F				Y	STAR WITNESS ex BARANGAROO (FASTNET ROCK)
PEARL STAR	2012	F				Y	STAR WITNESS ex PEARL OF THE SEA (FASTNET ROCK)
STAR WITNESS	2007	С	G1			Y	STARCRAFT ex LEONE CHIARA (LION HUNTER)



HYPOTHETICAL: =Star Witness (AUS) -- =County Cork (AUS) Based on the cross of Star Witness (AUS)/Fastnet Rock (AUS)



				N	Northern Dancer, 61 b
*				Nureyev, 77 b	Special, 69 b
			Soviet Star, 84 b	W/ 11 071	=Venture (GB), 57 b
				*Veruschka, 67 b	=Marie d'Anjou, 54 ch
		Starcraft (NZ), 00 ch		Demosti Osunti 77 h	Tell, 66 b
				Pompeii Court, 77 b	Port Damascus, 71 b
			Flying Floozie (NZ), 93 ch	=Lucky Heiress, 76 b	=Battle-Waggon (GB), 62 ch
	=Star Witness (AUS), 07				=Entrancing Bell, 65 br
	ch				Danzig, 77 b
				Danehill, 86 b	Razyana, 81 b
			=Lion Hunter (AUS), 92 gr		Godswalk, 74 gr
				=Pure of Heart (IRE), 78 b	=Audrey Joan, 63 ch
		=Leone Chiara (AUS), 99 ch	=Chiara (AUS), 94 b	Last Tycoon (IRE), 83 dk b/	Try My Best, 75 b
					=Mill Princess (IRE), 77 b
				=Etoile D'Or, 83 ch	Diplomatic Star, 77 ch
Hypothetical Foal					=Marchwill, 76 ch
			Danehill, 86 b	Danzig, 77 b	Northern Dancer, 61 b
					Pas de Nom, 68 dk b/
				Razyana, 81 b	His Majesty, 68 b
					Spring Adieu, 74 b
		=Fastnet Rock (AUS), 01 b		Royal Academy, 87 b	Nijinsky II, 67 b
					Crimson Saint, 69 ch
			Piccadilly Circus (AUS), 95 b		=Marauding (NZ), 84 b
				=Gatana (AUS), 89 b	=Twigalae (AUS), 79 b
	=County Cork (AUS), 12 b/br			Hald Your David Coll	Speak John, 58 b
				Hold Your Peace, 69 b	Blue Moon, 48 b
			Success Express, 85 b	Au Drinteman 70 h	Dancing Champ, 72 b
		-Cauanah Cuasaa		Au Printemps, 79 b	*Lorgnette II, 64 ch
		=Savannah Success (AUS), 95 br		Cominglatingly 70 h	Nodouble, 65 ch
				Semipalatinsk, 78 b	School Board, 68 b
			=Alma Mater (AUS), 88 br	=Sweetia (ALIS), 91 km	=Without Fear (FR), 67 b
				=Sweetie (AUS), 81 br	=Virginia (AUS), 72 br

Pedigree	Statistics	Dosage	Information	
Coefficient of Relatedness: 5.14%	Pedigree Completeness: 100.00%	Dosage Profile: 1 2 3 0 0		
Inbreeding Coefficient: 3.10%	Unique Ancestors: 960/2046	Dosage Index: 3.00	Center of Distribution: +0.67	

Notes on terminology in this report: **Coefficient of Relatedness** measures the degree of relatedness between sire and dam to ten generations; **Inbreeding Coefficient** measures the mating's degree of inbreeding to ten generations using Wrights F; **Pedigree Completeness** is the portion of the pedigree that is on file to ten generations; **Unique Ancestors** is the number of unique names in the pedigree through to ten generations; **Dosage Information**: visit www.chef-de-race.com/dosage.htm **Direct Cross** refers to the exact sire over exact broodmare sire; **Rated Cross** is the cross used to base the TrueNicks rating and may differ from the direct cross to maintain statistical significance; **AEI:** Average Earnings Index; **AWD:** Average Winning Distance (in furlongs). All currency figures are converted to U.S. dollars at the time of race or sale.

Pedigree and racing information provided by:

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HYPOTHETICAL: =Star Witness (AUS) -- =County Cork (AUS) Based on the cross of Star Witness (AUS)/Fastnet Rock (AUS)



Starters Considered in Rated Cross		Auction Re rect Sire/B	Surface Performance for Rated Cross						
Direct Sire/	18	Туре	#Sold	Avg	Med	Туре	Dirt	Turf	AW
Broodmare Sire Cross		Weanlings	5	\$12,620	\$10,780	Starters	4	18	3
Additional Starters on Rated Cross	-	Yearlings	22	\$86,156	\$48,120	Winners	1	13	-
Total Starters	18	2YOs	3	\$248,716	\$32,736	SW	-	2	-

	Sire	Broodmare Sire			
Sire Name	=Star Witness (AUS)	Broodmare Sire Name	=Fastnet Rock (AUS)		
Sire AEI	1.10	Broodmare Sire AEI	1.34		
Progeny AWD	6.29 f	Progeny AWD as BM Sire	6.58 f		
Chief Earner	Global Glamour (AUS) (\$1,190,261)	Chief Earner	Santa Ana Lane (AUS) (\$5,370,880)		

All Foa	By Sire Line with Other Mares	Out of BM Sire Line with Other Sires			
	All Foals	Colts	Fillies	All Foals	All Foals
Foals of Racing Age	31	17	14	739	1,258
Starters (% Foals of Racing Age)	18 (58%)	10 (59%)	8 (57%)	435 (59%)	583 (46%)
Winners (% Starters)	13 (72%)	7 (70%)	6 (75%)	282 (65%)	346 (59%)
SW (% Starters)	2 (11%)	-	2 (25%)	13 (3%)	21 (4%)
Earnings	\$1,147,352	\$692,091	\$455,261	\$23,249,034	\$28,504,700
Avg Distance Raced	6.09 f	6.15 f	5.99 f	6.36 f	6.65 f
Avg Winning Distance	6.21 f	6.29 f	6.11 f	6.29 f	6.59 f

Top 15 Foals Bred on Rated Cross								
Name	Sex	Foaled	Sire/Broodmare Sire	Best Race				
OUR CROWN MISTRESS (AUS)	Mare	2014	Star Witness (AUS)/Fastnet Rock (AUS)	SW				
PEARL STAR (AUS)	Mare	2012	Star Witness (AUS)/Fastnet Rock (AUS)	SW				
Eden Roc (AUS)	Gelding	2014	Star Witness (AUS)/Fastnet Rock (AUS)	SP				
Starlot (AUS)	Gelding	2013	Star Witness (AUS)/Fastnet Rock (AUS)	Wnr				
<u>Judge Judi (AUS)</u>	Mare	2014	Star Witness (AUS)/Fastnet Rock (AUS)	Wnr				
Star Silk (AUS)	Gelding	2014	Star Witness (AUS)/Fastnet Rock (AUS)	Wnr				
<u>Diarist (AUS)</u>	Mare	2015	Star Witness (AUS)/Fastnet Rock (AUS)	Wnr				
No Parole (AUS)	Gelding	2014	Star Witness (AUS)/Fastnet Rock (AUS)	Wnr				
Teyssier (AUS)	Gelding	2014	Star Witness (AUS)/Fastnet Rock (AUS)	Wnr				
<u>Mujaafy (AUS)</u>	Gelding	2014	Star Witness (AUS)/Fastnet Rock (AUS)	Wnr				
Knockoura (AUS)	Gelding	2013	Star Witness (AUS)/Fastnet Rock (AUS)	Wnr				
Jerry's Witness (AUS)	Mare	2012	Star Witness (AUS)/Fastnet Rock (AUS)	Wnr				
Italian Witness (AUS)	Filly	2016	Star Witness (AUS)/Fastnet Rock (AUS)	Wnr				
<u>Abraxos (AUS)</u>	Horse	2015	Star Witness (AUS)/Fastnet Rock (AUS)	PI				
Reus (AUS)	Gelding	2016	Star Witness (AUS)/Fastnet Rock (AUS)	PI				

Pedigree and racing information provided by:

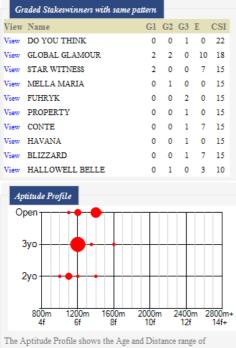
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Stallion Match : STAR TURN X COUNTY CORK



The Aptitude Profile shows the Age and Distance range of Stakeswinners bred with this pattern. The larger the Red Dot, the more winners in that category. Place your mouse over a Red Dot to see a list of horses that won in that category.

				NUREYEV
			SOVIET STAR	VERUSCHKA
		STARCRAFT		POMPEII COURT
			FLYING FLOOZIE	LUCKY HEIRESS
	STAR WITNESS			DANEHILL
			LION HUNTER	PURE OF HEART
		LEONE CHIARA		LAST TYCOON
			CHIARA	ETOILE D'OR
TAR TURN				SHECKY GREENE
			GREEN FOREST	TELL MENO LIES
		MADE OF GOLD		ROI DAGOBERT
			VINDARIA	HEAVENLY BODY
	GOLDEN DELICIOUS			
			PRE EMPTIVE STRIKE	BLUSHING GROOM
-		BAROSSA GOUR	MET	QUEEN MAUD
	INERY		MARRY ME MARIA	MY HEART REGAL WATERS
AVA 🕹				REGAL WATERS
	STUD		DANZIG	NORTHERN DANCER
		DANEHILL	Diffelo	PAS DE NOM
		DANEHILL	RAZYANA	HIS MAJESTY
	FASTNET ROCK		RAZTANA	SPRING ADIEU
			ROYAL ACADEMY	NIJINSKY
		DISCURPTURY OF		CRIMSON SAINT
		PICCADILLY CIR		MARAUDING
OUNTY COR	c		GATANA	TWIGALAE
	•			SPEAK JOHN
			HOLD YOUR PEACE	BLUE MOON
		SUCCESS EXPR		DANCING CHAMP
	SAVANNAH SUCCESS		AU PRINTEMPS	LORGNETTE
	SAVANINAL SOCCESS			NODOUBLE
			SEMIPALATINSK	SCHOOL BOARD
		ALMA MATER		WITHOUT FEAR
			SWEETIE	VIRGINIA

PEDIGREE RATING SCORES - "NICKS"

It's a simple formula – It's all about risk reduction.

Nicks have become an integral part of the decision-making process in the mating and purchasing of thoroughbreds. Most breeders recognise that an affinity or compatibility can exist between two thoroughbred sire lines, such that, when crossed, those lines yielded a greater proportion of superior runners than when either one of them are crossed with any other sire lines. Great breeders, from Federico Tesio to present-day breeders around the world have relied on observed nicks to help guide their breeding plans and buying decisions.

Over 70% of ALL Stakes Winners are "A" Rated Nicks

In order to identify nicks in a systematic way, the software database we use developed an evaluation method based on sire-line analysis. Ongoing studies by researchers show that approximately 25% of the Thoroughbred population is the product of highly successful nicks ("A" rated nicks) while over 70% of stakes winners come from these "A" rated nicks!

Statistics:

There are approximately 20,000 live foals born each year – 25% (5,000) are A Rated whilst 75% (15,000) are rated below. There are 541 Stakes Races in Australia this racing season. 70% (379) will be won from the 5,000 A rated foals born (7.6%) 30% (162) will be won from the 15,000 foals in the lower rated group (1.08%).

For a practical businessperson seeking a return on money invested, it makes no sense to ignore statistically unfavorable odds. Buying a superior racehorse is already a difficult enough proposition. The Rating systems we use allow us to see into the future by looking into the past and thereby to avoid those mating patterns that have failed. The Nick Rating enables us to avoid crosses that have had little or no success in the past. At the same time, it enables us to identify and thus duplicate successful sire-line crosses, dramatically increasing the chances of success.

Over the years evaluating Nicks have proven to be an invaluable tool in the stallion selection process when identifying yearlings for purchase. Dean Watt, Managing Director of Dynamic Syndications has enjoyed great success as a result of utilising such information. For example:

SAVABEEL, POLAR SUCCESS, HE'S NO PIE EATER, ATOMIC FORCE, ECONSUL, DE BEERS, BRADBURY'S LUCK, TENANT'S TIARA and REWARD FOR EFFORT were all superior racehorses who had superior pedigree ratings.

ECONSUL	A+ +	13,862%
SAVABEEL	A+ +	9,325%
DEBEERS	A+ +	4,270%
POLAR SUCCESS	A+ +	2,240%
REWARD FOR EFFORT	A+	1,175%
ATOMIC FORCE	\mathbf{A} +	988%
BRADBURY'S LUCK	Α	485%
TENANT'S TIARA	Α	238%
HE'S NO PIE EATER	Α	161%

Further afield, in 2008 the Top 5 Racehorses in the world had the following ratings:

1 CURLIN	A+	1,375%
2 NEW APPROACH	A+	1,472%
3 RAVEN'S PASS	A+ +	5,961%
4 DUKE OF MARMALADE	Α	409%
5 HENRYTHENAVIGATOR	A++	1,531%

Then to further support the theories, in 2008 there was 67 Group 1 races run in Australia. These races were won by 48 individual horses. When these 48 individuals' pedigrees were analysed it showed:

35 / 48 Rated A or above = 73% of Individual Group 1 Winners Rates A or above

Affinity between sire lines was long ago observed by the world's best thoroughbred breeders. Today through modern technologies we are able to quantify what was once only a subjective judgment based on the observations of a relatively small equine population.

Ratings are essentially the objective measurement of success, or lack therefore, of sireline crosses. Success is quantified by being the winners of stakes races with a prizemoney of at least \$50,000. Through software databases, containing the pedigrees of all such winners since 1977 (over 30,000 winners), we are able to more easily identify what sireline crosses have succeeded in producing stakes winners and compare those numbers with the stakes winning population on the whole.

Often a sire line may appear to be successful with a particular broodmare sire line. However, if the level of success is no better than that sire line's success with the entire population, then there is not a true nick.

In order to understand the ratings for easy use, a letter-grade scale was developed. As in the scholastic setting, the scales ranges from F (Fail) through to A with A+ also A++ and now since 2011 the software system now identifies A+++ as possible to be achieved in some select instances. The Variants (percentages) shown in the table below are the deviation from the norm that has been observed by that sire line cross in question. On this

scale -15% to +15% (C) is considered average, meaning that the sire-line cross has yielded results that are statistically no better and no worse than what would be expected with the entire population.

An "A" rated nick indicates that a far greater percentage of stakes winners have resulted from that cross than expected. An "F" rated nick indicates that the number of stakes winners resulting from a cross is at least 50% below expectations. This does not mean that there cannot be success or will not be success from such a mating in the future. It does mean that in all the experience of the last 20 + years of winners of stakes races, that type of mating has had a significant lack of success as measured by stakes winner production.

It must be stressed that a below "Average" rating does not guarantee or even predict failure. It means only that, to date, the particular sire-line cross has fallen at least 16% short of what would be expected. Nicks can and do change over time.

Consequently, an above Average Rating must be kept in proper perspective as there are other factors that must be considered when selecting a horse for purchase. Specifically, conformation evaluation is critical. A thoroughbred may have a brilliant pedigree on paper that rates as either Excellent, Superior, Superb or Outstanding on our Ratings Score however if the skeletal structure and/or the overall constitution of the individual is lacking then the horse is rejected as a candidate for purchase.

Nick	Horse	Variant %
A+++	Excellent	+20,000 and above
A++	Superior	+1,501 to + 19,999
A+	Superb	+500 to +1,500
А	Outstanding	+150 to +499
B+	Very Good	+100 to +149
В	Good	+50 to +99
C+	Acceptable	+16 to +49
С	Average	-15 to +15
D+	Weak	-16 to -34
D	Poor	-35 to -49
F	Unsuccessful	-50
0 SW	Zero Stakes Winners	0 SW

The Rating Scale is shown below:

Dynamic Syndications uses these rating tools along with additional pedigree analysis systems from other software databases which skewer the data to local environmental factors and we have introduced a ranking on the class of Stakes Races which are won to establish what we consider is an inherent opportunity of greater racetrack success. Often a horse can have a very high Nick rating and yet score lowly on the variant and visa versa. We use this information to assist us in pedigree selections after the physical inspections have also been considered. Also we cannot blindly accept a rating score. For example Australia has only 2.9% of our races listed as Stakes Races whilst New Zealand has 9.7% and Ireland has 13.1%. Obviously the data will be weighted in certain directions if we did not counter this information with a ranking on the Stakes Races based upon country and class of race, racing region within the country and climatic conditions in the region. After adjustments the rating scale is presented below.

Quality Rating Summary

It is undeniable that racing class is in great part a function of the *quality* of ancestors contributing to new individual. It follows that certain quality stallions tend to contribute more favorably than other sires. When Quality points contributed by such deserving sires are combined with dosage points, the total points more accurately reflect the overall class of a pedigree.

The *Quality sires* in a pedigree contribute quality points (QP) to the new individual in exactly the same way as ancestral sires contribute dosage points (DP). The total number of *Quality points* is added to the *Dosage points* to get *Total Points* (TP).

The Quality Rating, which ranges from zero, as the low, to ten, as the high, is scaled to the number of total points in the pedigree:

Total Points	Quality Rating
0	Q0
1 to 4	Q1
5 to 9	Q2
10 to 14	Q3
15 to 19	Q4
20 to 24	Q5
25 to 29	Q6
30 to 39	Q7
40 to 44	Q8
45 to 54	Q9
55 +	Q10