

Pedigree Deep Dive - DANZIG

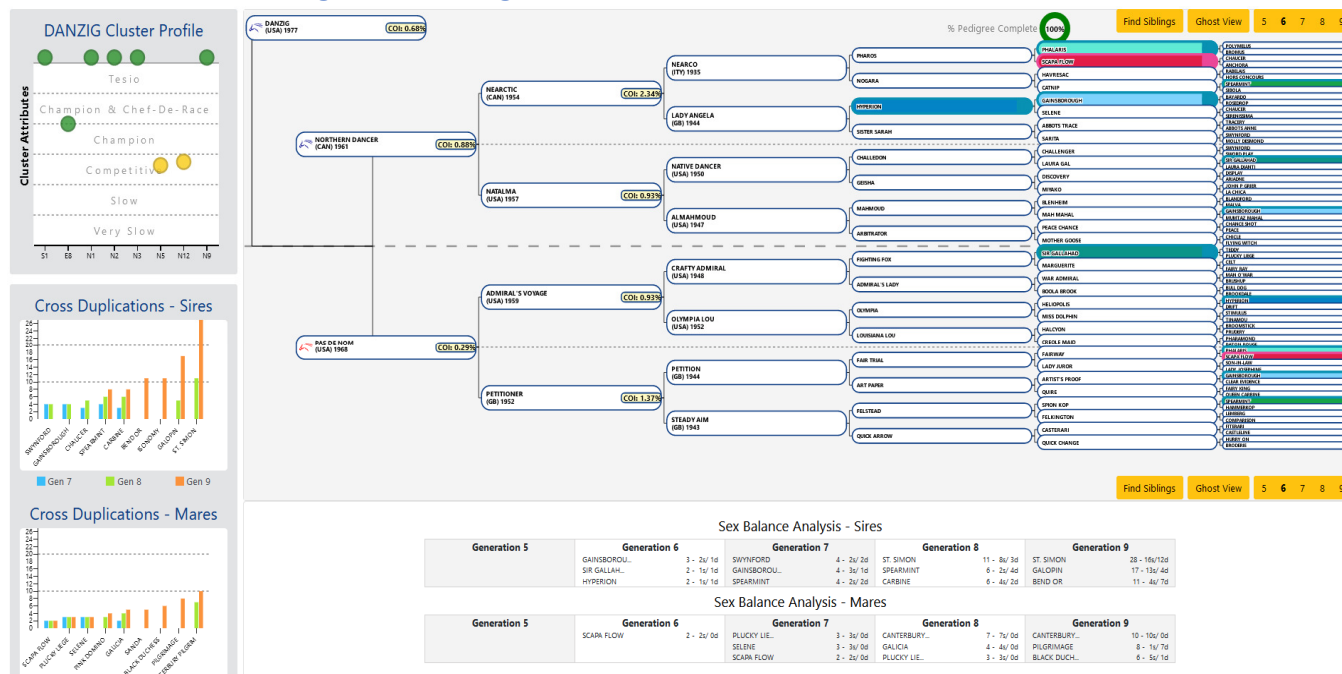
DANZIG Is one of the few global Breed Shapers in the world today, dominant for precocious Speed. He is the sireline of champion stallions in every continent including Danehill, in Australia, War Front In America, Invincible Spirit In Europe



This Pedigree Deep Dive breaks out the components of DANZIG's pedigree and analyses it from 4 angles:-

- ✓ Inbreeding (6 Gen) {good}
- ✓ Linebreeding (9 Gen) {extraordinary}
- ✓ Sex-Balancing {amazing}
- ✓ Full and 3/4 Siblings {excellent}

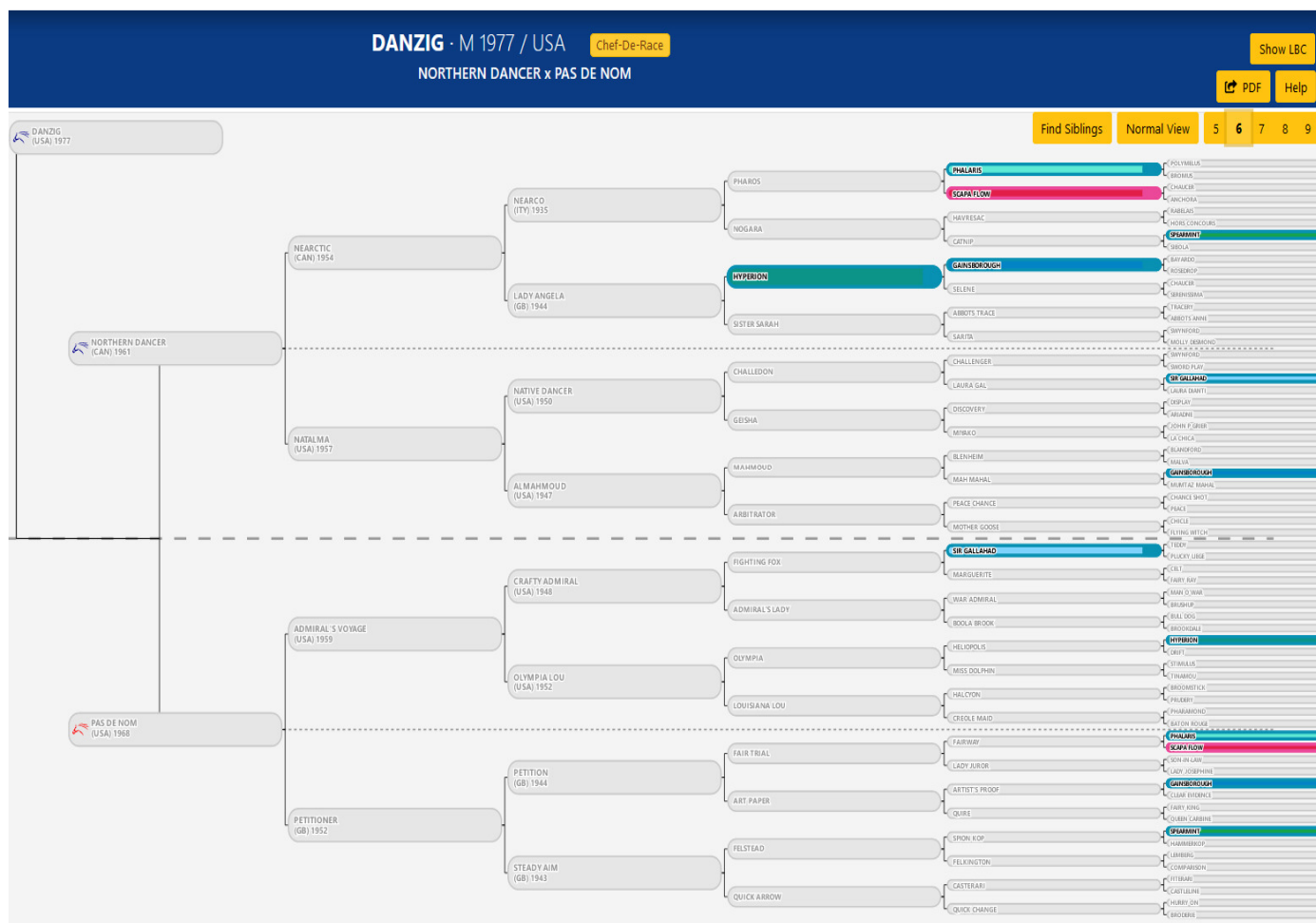
This is DANZIG's Pedigree Profile Page



Inbreeding (6 gen)

Inbreeding is defined as duplicating ancestors within 'close' generations. 'Close' is a nebulous term and can mean 4, 5 or 6 generations. The principle is that Inbreeding up close locks in desirable traits of the ancestor. It can also lock in *undesirable* traits such as unsoundness, temper, and wind Issues.

Pedigrees360's innovative *Ghost View* provides a highlighted view of inbreeding within 6 generations, with all the ancestors ghosted out but still visible



Danzig has 6 generation Inbreeding as follows-

Sire Duplications:	HYPERION	4d x 6s
	PHALARIS	5s x 6s
	GAINSBOROUGH	5s, 6d x 6s
	SIR GALLAHAD	6d x 5s
	SPEARMINT	6d x 6s

Mare Duplications : **SCAPA FLOW** **5s x 6s**

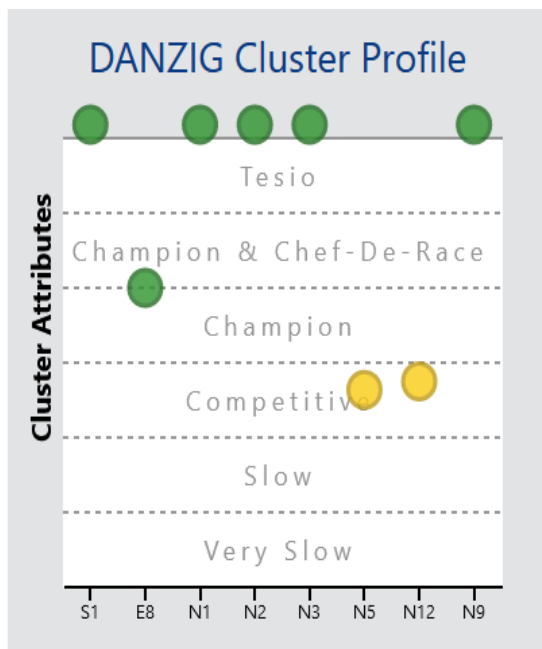
Rasmussen Factor is a term coined by Leon Rasmussen (an American journalist) and is defined as a duplication of significant mare through different progeny.

DANZIG has a Rasmussen Factor through **SCAPA FLOW**

This set of inbreeding ancestors present in DANZIG is good, but not particularly special, these duplications are common in elite and slow racehorses

Linebreeding (9 gen)

Linebreeding is defined as duplicating ancestors further back in the 7th, 8th and 9th generations. The principle is reinforcement of dominant ancestors multiple times so the accumulations will increase the chances of key traits being passed to the foal



A 9 generation pedigree has 1,024 ancestors in the 9th generation.

Reading, counting, and understanding, 1,024 ancestor duplications is not possible (unless you are Federico Tesio of course)

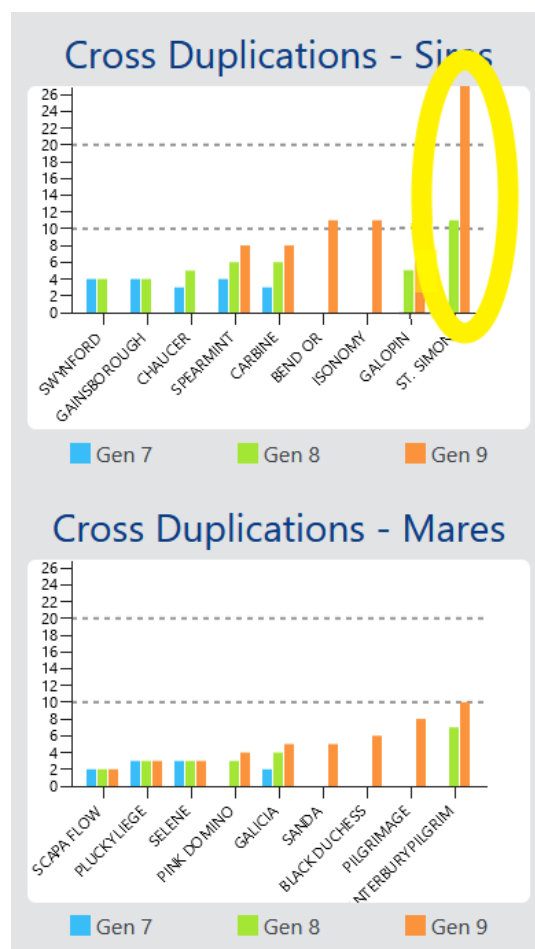
This cluster profile summarises 8 key clusters through 7-8-9 generations.

Most elite horses have 3+ green dots (ie high values) In the Champion and Above ranges.

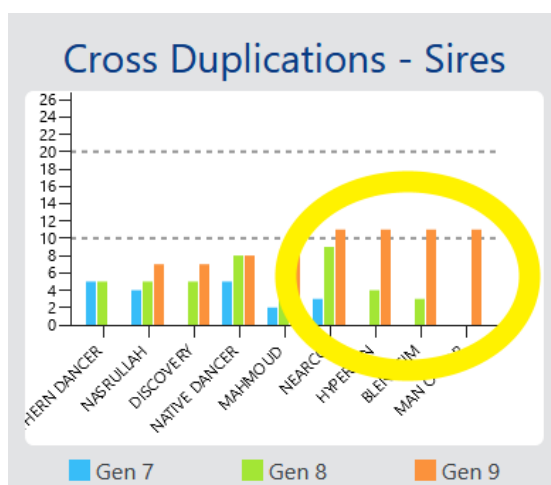
DANZIG has **5** green dots "Off The Charts" (OTC) ie above the highest range. Usually, a champion can have 1 or 2 OTC, to have 5 is **extraordinary**. This usually indicates the pedigree is very focused.

Most horses have one dominant sire ancestor in the 9th generation.

DANZIG has **28 x ST. SIMON** which is also Off The Charts



DANZIG has 10 x CANTERBURY PILGRIM as his dominant mare ancestor



Many champions do not have one dominant duplication like DANZIG has with ST. SIMON.

Rather than a single dominant, many champions have multiple ancestors with high duplications.

An excellent example of this is **KNICKS GO** the current American HOTY (Horse Of The Year)

You can see he has 11 duplications of 4 dominant ancestors NEARCO, HYPERION, BLENHEIM and MAN O'WAR, dominant Breed Shapers of their own generation

Sex Balancing

Sex Balancing is when duplicated ancestors are duplicated through both sons and daughters. The principle is including both sexes increases the chances of inheriting that ancestor's positive traits (eg accumulating ALL the X & Y chromosomes from both sexes)

Sex Balance Analysis - Sires

Generation 5	Generation 6	Generation 7	Generation 8	Generation 9
	GAINSBOROU... 3 - 2s/ 1d SIR GALLAH... 2 - 1s/ 1d HYPERION 2 - 1s/ 1d	SWYNFORD 4 - 2s/ 2d GAINSBOROU... 4 - 3s/ 1d SPEARMINT 4 - 2s/ 2d	ST. SIMON 11 - 8s/ 3d SPEARMINT 6 - 2s/ 4d CARBINE 6 - 4s/ 2d	ST. SIMON 28 - 16s/12d GALOPIN 17 - 13s/ 4d BEND OR 11 - 4s/ 7d

Sex Balance Analysis - Mares

Generation 5	Generation 6	Generation 7	Generation 8	Generation 9
	SCAPA FLOW 2 - 2s/ 0d	PLUCKY LIE... 3 - 3s/ 0d SELENE 3 - 3s/ 0d SCAPA FLOW 2 - 2s/ 0d	CANTERBURY... 7 - 7s/ 0d GALICIA 4 - 4s/ 0d PLUCKY LIE... 3 - 3s/ 0d	CANTERBURY... 10 - 10s/ 0d PILGRIMAGE 8 - 1s/ 7d BLACK DUCH... 6 - 5s/ 1d

DANZIG's Sex Balance profile is extraordinary.

The above chart shows the top 3 ancestors for each generation. You can see in the above chart that in his sire duplications, DANZIG has sons and daughters not only in his top ancestor in every generation (5-6-7-8-9) but also in the top 3 of each ancestor in each generation.

This is a **Masterclass of Sex Balance Perfection**.

Also, in many elite horses, the sex balancing is often mainly sons and a few daughters but here you can see that in the 9th generation he has 28 x St. Simon - 16 sons, and 12 daughters, and he has 11 x BEND OR, with more daughters (7) than sons (4), quite amazing, and very rare.

Generation 8	Generation 9
ST. SIMON 11 - 8s/ 3d SPEARMINT 6 - 2s/ 4d CARBINE 6 - 4s/ 2d	ST. SIMON 28 - 16s/12d GALOPIN 17 - 13s/ 4d BEND OR 11 - 4s/ 7d

DANZIG's sex balancing of mare duplications is not as sex balanced, but mares, with limited foals, are usually duplicated through either sons or daughters, rarely both. **PLUCKY LIEGE** for example is only usually seen through her 4 breed shaper sons.

Full & 3/4 Siblings

Sibling (full or 3/4) combinations are similar to Sex Balancing where including full or 3/4 siblings increases the chances of inheriting that key ancestor's positive traits (eg accumulating ALL the X & Y chromosomes from brothers/sisters)

DANZIG has 2 sets of siblings:

- I. Full brothers PHAROS & FAIRWAY 4 x 5
- II. Full brothers SIR GALLAHAD & BULL DOG 6 x 5,6

