

NEW FOAL INDICES FOR SELLE FRANÇAIS: BETTER UNDERSTANDING INHERITANCE OF STALLIONS

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Summary

1. A substantial database

- a. Horses judged for years
- b. Well-represented parentage
- c. But constantly evolving scoring systems

2. Two types of assessments providing two different morphological indices:

- a. Indices for 2 and 3 years old horses since 2019
- b. Indices for foals in 2024.

3. And in practical terms?

- a. Profiles available on etalonsf.fr
- b. 385 stallions available
- c. Comparison of the two indices: the case of DIAMANT DE SEMILLY
- d. Comparison of the two indices: the case of MYLORD CARTHAGO

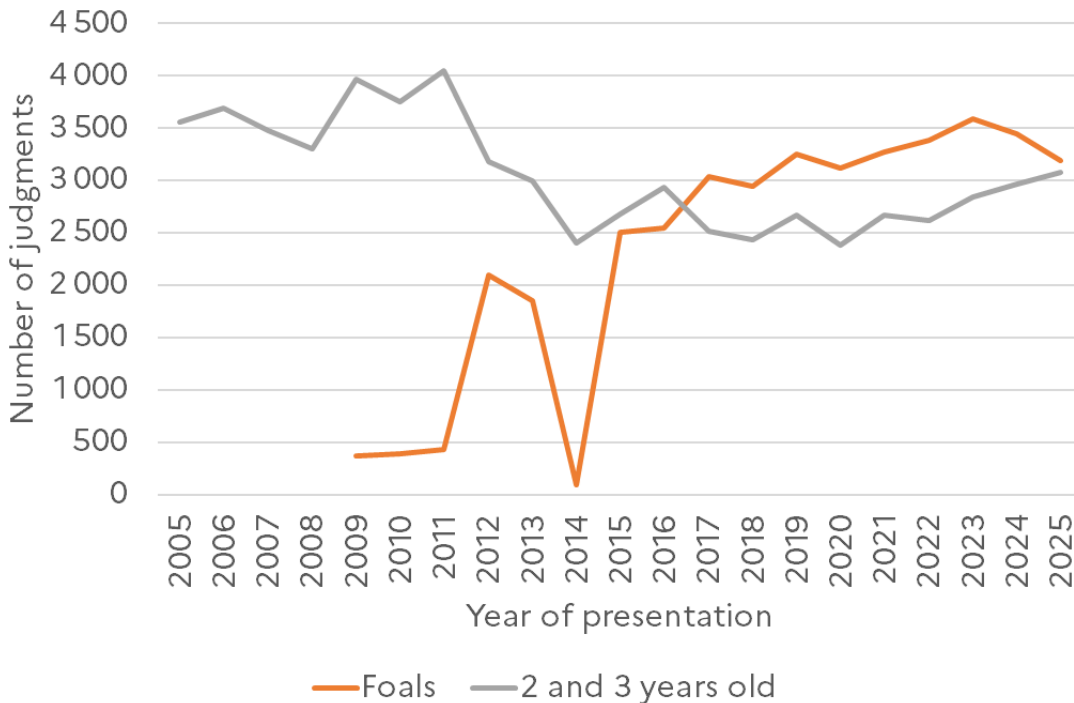
1. A substantial database

Horses judged for years

Judgments taken into account since:

- 2005 for 2 and 3 years old
- 2009 for foals

Studies of the two groups of horses independently



Horses judged for years

Included in the database:

- **39 451 judgments on foals**

➔ **34 032 different foals**

- **63 934 judgments on 2 and 3 years old**

➔ **38 428 different horses of 2 and 3 years old**

Well-represented parentage

Among the mares:

- 50% of females have 2 or more offspring that were judged as foals.
- 47% of females have 2 or more offspring that were judged at 2 or 3 years of age

Among the stallions:

- 43% of stallions have 6 or more offspring that were judged as foals.
- 40% of stallions have 6 or more offspring that were judged at 2 or 3 years of age

But constantly evolving scoring systems

For foals:

6 grid modifications

➔ 22 criteria

For 2 and 3 years old:

7 grid modifications

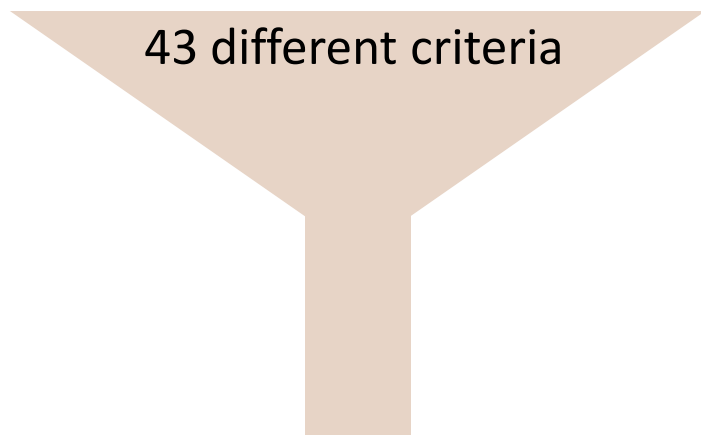
➔ 43 criteria

| | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Grid detail | /10 | /10 | /10 | /10 | /10 | /10 | /20 | /20 | /20 | /20 | /20 | /20 | /20 | /20 | /20 | /20 |
| 1 HEAD | X | X | | | | | | | | | | | | | | |
| 2 FOREHAND - SHOULDER, FOREARM | | | | | | | X | X | X | X | X | X | X | | | |
| 3 FOREQUARTERS (HEAD | | | | | | | | | | | | | | X | X | X |
| 4 HEAD - TOPLINE | | | X | | | | | | | | | | | | | |
| 5 TOPLINE (HEAD ATTACHMENT, NECK, | | | | X | | | | | | | | | | | | |
| 6 NECK, HEAD ATTACHMENT, | | | | | X | | | | | | | | | | | |
| 7 TOPLINE, SPIDS (HEAD ATTACHMENT, NECK, TOPLINE: WITHERS, BACK, LOIN, LEVER POINT, GOOD | | | | | | X | | | | | | | | | | |
| 8 TOPLINE (TOP LINE: WITHERS, BACK, | | | | | | | X | X | X | X | X | X | | | | |
| 9 RAYS (OBLIC, LEVER POINTS, GOOD SKIN, GOOD BUTTOCK, GOOD HOCKS) | | | | X | | | | | | | | | | | | |
| 10 BODY (GOURD, BACK, KIDNEY) | | | | | | | | | | | | | X | X | X | X |



2. Two types of assessments providing two different morphological indices

Indices for 2 and 3 years old horses since 2019



16 criteria studied

| | Criteria | Heritability | error |
|---------------|-----------------------------------|--------------|-------|
| Conformation | Head – Neck coupling | 0,41 | 0,016 |
| | Forehand – Shoulder, Forearm | 0,21 | 0,015 |
| | Withers – Back - Loin | 0,29 | 0,015 |
| | Hindquarter – Croups, Hips, Thigh | 0,27 | 0,015 |
| | Joints | 0,13 | 0,020 |
| | Forelegs conformation | 0,12 | 0,012 |
| | Hindlegs conformation | 0,19 | 0,014 |
| | Overall impression | 0,38 | 0,016 |
| | Chic | 0,41 | 0,018 |
| | Paces | Trot | 0,30 |
| Canter | | 0,21 | 0,013 |
| Walk | | 0,20 | 0,013 |
| Loose Jumping | Balance | 0,22 | 0,013 |
| | Moyens | 0,30 | 0,016 |
| | Style | 0,22 | 0,015 |
| | Behaviour | 0,20 | 0,014 |

In 2024: Indices for foals



22 different criteria

6 criteria studied

| Criteria | Heritability | error |
|---|--------------|-------|
| Forehand | 0,44 | 0,021 |
| Body | 0,31 | 0,018 |
| Hindquarters | 0,39 | 0,032 |
| Limb conformation and correctness of gaits | 0,16 | 0,015 |
| Overall impression | 0,41 | 0,190 |
| Paces | 0,19 | 0,015 |

3. And in practical terms?

Profiles available on etalonsf.fr

- Free access for members
- In French or in English
- Downloadable as a PDF
- Accompanied by a detailed reading guide

Statistiques étalons



Les **Fiches Statistiques Étalons** ont été créées par le Stud Book Selle Français et l'IFCE. Elles apportent aux éleveurs deux informations inédites sur les étalons :

- Les performances sportives de la production de l'étalon pour le CSO et CCE.
- Les caractéristiques du modèle, des allures et du saut en liberté transmissibles par l'étalon.

Fonds Éperon

INRAE

ifce | H | t
Institut français
du cheval
et de l'équitation

385 stallions available

Different information is available depending on the age of the offspring:

- Summaries of sporting performances

- Summaries of offspring competing in 2 and 3 years old competitions

➔ Morphological indices

- Summaries of offspring competing in foal competitions

➔ Morphological indices

Search for a stallion

NAME SIRE SIRE

UENL BREED DAM'S SIRE

COLOR YEAR OF BIRTH

DAMLINE: 10/10 9/10 8/10 7/10 6/10 ET <

DISCIPLINES: JUMPING EVENTING DRESSAGE

OFFSPRING STATISTICS: OFFSPRING PERFORMANCE FOAL BREEDING VALUES CONFORMATION/PACES/LOOSE JUMPING BREEDING VALUES

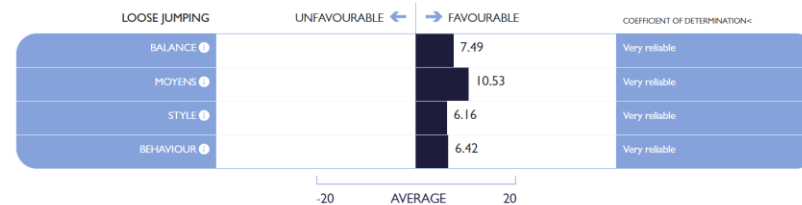
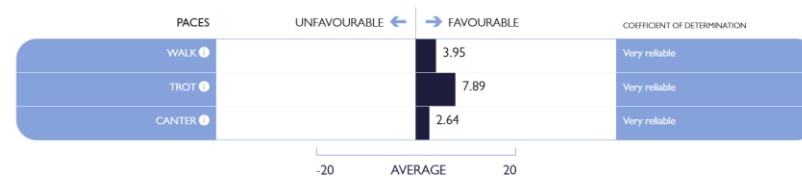
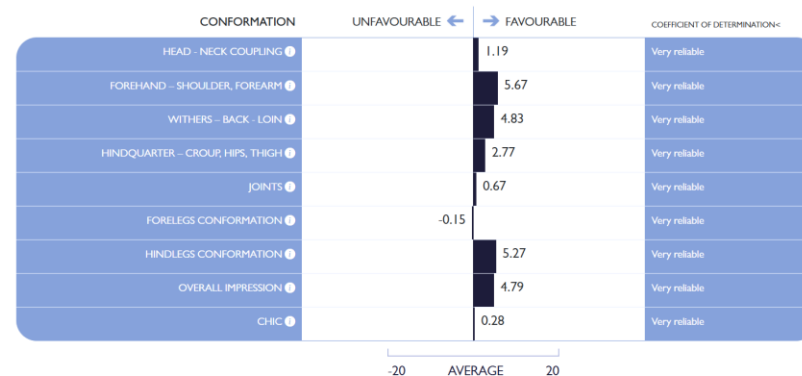
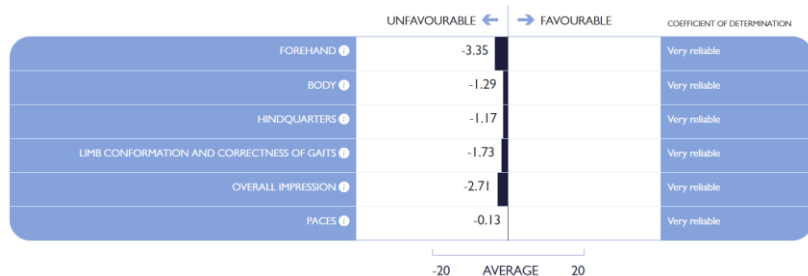
OTHER CRITERIA: BREED IN SELLE FRANÇAIS ORIGINAL 16YO STALLION OR LESS ACTIVE

FILTER

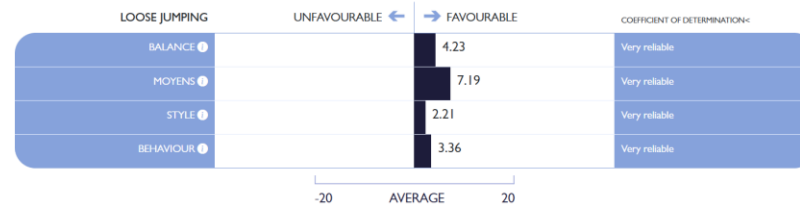
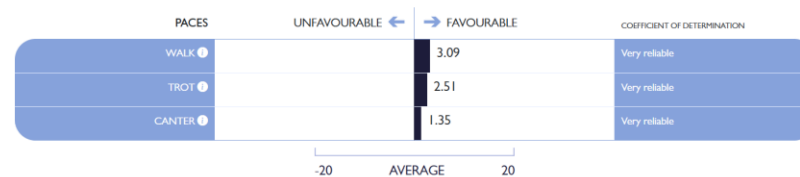
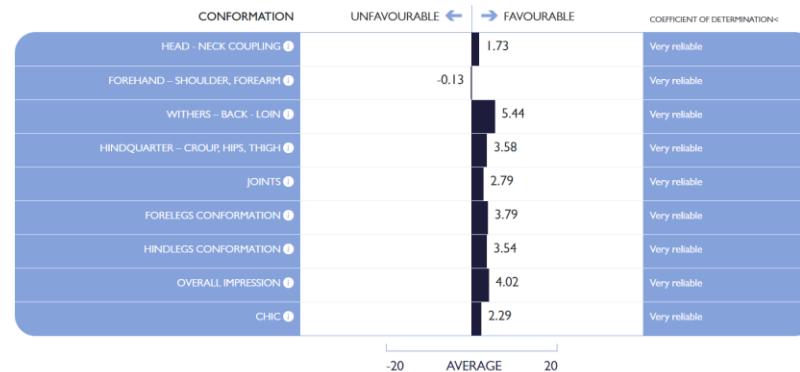
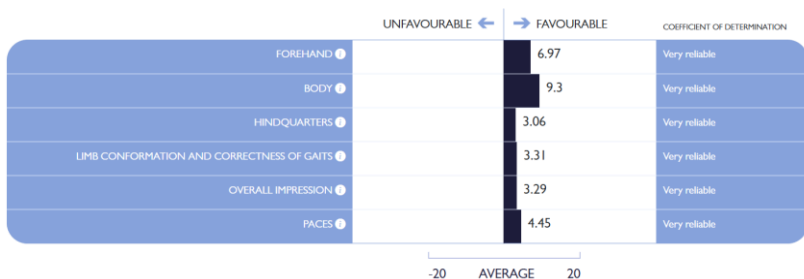
Afficher 100 chevaux

| NAME | BREED | YEAR | COLOR | SIRE | DAM | DAM'S SIRE | BSO | BCC | BDR | ACTIVE |
|-------------------------------------|-------|------|--------|------------------------|--------------------|--------------------|-----|-----|-----|--------|
| COMME IL FAUT | WESTF | 2005 | BAI | WINDOWS VH COSTERSVELD | RATINA Z | RAMIRO | 31 | -3 | -1 | ☑ |
| EMERALD (EMERALD VAN'T RUYTHERSHOF) | BWP | 2004 | ALEZAN | DIAMANT DE SEMILLY | CARTHINA Z | CARTHAGO | 25 | 5 | -7 | ☑ |
| CANDY DE NANTUEL | SF | 2012 | ALEZAN | LUIDAM | THARA NANTUEL | DIAMANT DE SEMILLY | 24 | 12 | -3 | ☑ |
| CICAVE DU TALUS | SF | 2012 | BAI | UNTOUCHABLE M | NEIKA DU TALUS | VOLTAIRE | 24 | 9 | -3 | ☑ |
| FAHRENHEIT DE VAINS | SF | 2015 | GRIS | WINDOWS VH COSTERSVELD | ISMENE DU THOT | QREDO DE PAULSTRA | 24 | 1 | -4 | ☑ |
| QUAMIKASE DES FORETS (ZIROCCO BLUE) | SFA | 2004 | GRIS | MR. BLUE | LICORNE DES FORETS | VOLTAIRE | 24 | -4 | -6 | ☑ |

Comparison of the two indices: DIAMANT DE SEMILLY



Comparison of the two indices: MYLORD CARTHAGO



To conclude

- A database created by the Selle Français through its breeders, providing valuable feedback to breeders
- Two simple, visual, and easily accessible tools
- Tools adaptable to all types of production: selling foals or sport horses
- Analysis of linear scoring data: towards a more readily available tool for breeders

