



## Crossbreeding PAX program

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- Many Sires on the market
- Difficulties for breeders to select the most suitable for their mares
- Miss of informations on the mares' characterization
- Breeders want transparency about the Sires

Solution:



Help the breeder to find the most compatible/ reliable sire with his mare and according his breeding target.



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# The PAX Graphic

- Objective characterization of the mares and of our sires:
  - 11 Morphology criteria
  - 3 Gaits criteria
  - 4 Jumping technic criteria
  - 3 Behavioural criteria
- Definition of the breeding targets
- Graphic restitution of the compatibility



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## 21 Criteria



- |                        |                     |
|------------------------|---------------------|
| ➤ Geometry shape       | ➤ Walk              |
| ➤ Geometry orientation | ➤ Canter            |
| ➤ Head                 | ➤ Stride            |
| ➤ Neck Length          | ➤ Foreleg technique |
| ➤ Shoulder             | ➤ Hindleg technique |
| ➤ Withers              | ➤ Elasticity        |
| ➤ Top line form        | ➤ Strength          |
| ➤ Croup Length         | ➤ Blood             |
| ➤ Croup Orientation    | ➤ Carefulness       |
| ➤ Bones                | ➤ Willingness       |
| ➤ Size                 |                     |



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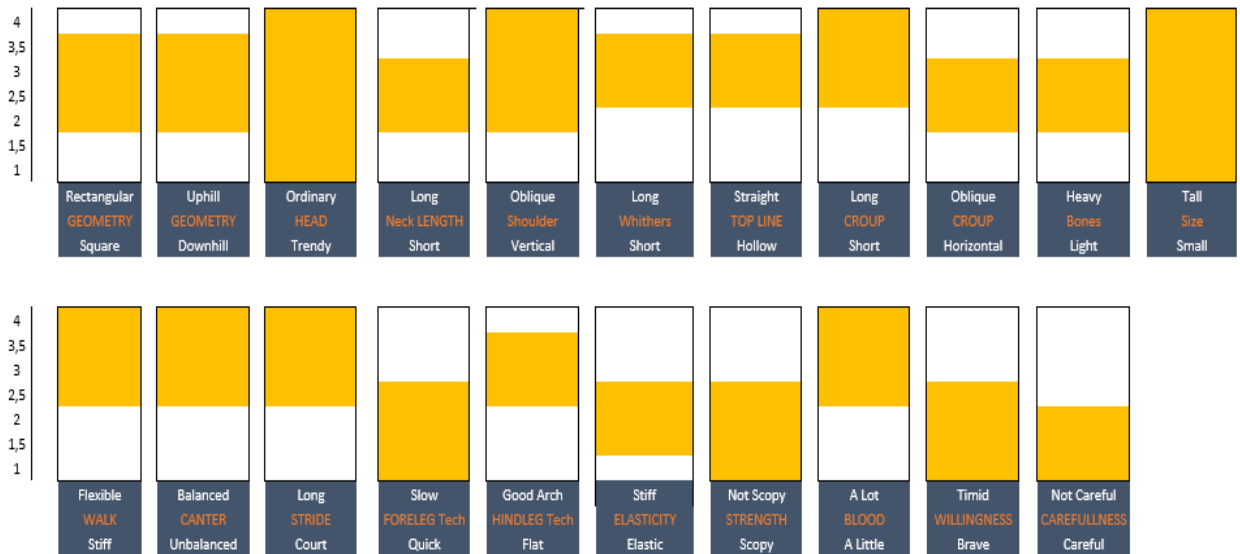
# Objective measurements



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## Comfort Zones/ The optimal area



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# Fill the marks board

MARE 02/11/2018 16:30:56

Geometry Shape: 1 Square, 3.5, 4 Rectangular

Geometry orientation: 1 Downhill, 3.5, 4 Uphill

Head: 1 Trendy, 1, 4 Ordinary

Neck length: 1 Short, 3.5, 4 Long

Shoulder: 1 Vertical, 2, 4 Oblique

Withers: 1 Short, 3, 4 Long

Top line form: 1 Hollow, 3.5, 4 Straight

Croup length: 1 Short, 3.5, 4 Long

Croup orientation: 1 Horizontal, 3, 4 Oblique

Bones: 1 Light, 2.5, 4 Heavy

Size: 1 Small, 3, 4 Tall

Walk: 1 Short, 3.5, 4 Facile

Canter: 1 Unbalanced, 3.5, 4 Balanced

Stride: 1 Short, 3.5, 4 Long

Foreleg Technique: 1 Quick, 1.5, 4 Slow

Hindleg Technique: 1 Flat, 3.5, 4 Good arch

Elasticity: 1 Elastic, 1.5, 4 Stiff

Strength: 1 Bony, 2.5, 4 Not bony

Blood: 1 A little, 4, 4 Not

Willingness: 1 Bored, 1, 4 Timid

Carefulness: 1 Careful, 2.5, 4 Not careful

CHOOSE A STALLION

CHOICE SUGGESTED BY THE PAX

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# 2 Way of Use

CHOOSE A STALLION

CHOICE SUGGESTED BY THE PAX

The program helps you to find the most compatible and reliable Sire with your mare

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## The results presentation

### The 20 most reliable stallions

KRAQUE BOOM	Reliability : 0.82
ORLANDO	Reliability : 0.81
REBOZO LA SILLA	Reliability : 0.81
CICAVE DU TALUS*GFE	Reliability : 0.8
AIR JORDAN*GFE	Reliability : 0.79
AMANT DU CHATEAU*GFE	Reliability : 0.79
PRESIDENT	Reliability : 0.79
ULHAN DU TEMPLE*GFE	Reliability : 0.78
POPSTAR LOZONNAIS	Reliability : 0.78
CONSUL DL VIE Z*GFE	Reliability : 0.77
NORMAN PRE NOIR	Reliability : 0.77
QUARTZ DU CHANU*GFE	Reliability : 0.77
UNTOUCHABLE 27*GFE	Reliability : 0.77
DIABEAU VAN DE HEFFINCK	Reliability : 0.77
UP TO YOU*GFE	Reliability : 0.77
VLEUT*GFE	Reliability : 0.77
HERALD III*GFE	Reliability : 0.76
KANNAN*GFE	Reliability : 0.76
QUINTUS*GFE	Reliability : 0.76
ZIROCCO BLUE	Reliability : 0.76

### The 20 most compatible stallions

CONTENDRO I*GFE	Compatibility : 71.16
LUX Z	Compatibility : 71.13
UNTOUCHABLE 27*GFE	Compatibility : 70.89
LAUTERBACH	Compatibility : 70.74
KANNAN*GFE	Compatibility : 70.46
UP TO YOU*GFE	Compatibility : 69.74
GEMINI CL	Compatibility : 69.48
QUARTZ DU CHANU*GFE	Compatibility : 68.77
NUMERO UNO	Compatibility : 68.63
VLEUT*GFE	Compatibility : 68.44
BALDU DU ROUET	Compatibility : 68.29
CONSUL DL VIE Z*GFE	Compatibility : 68.27
CORNET OBOLENSKY	Compatibility : 68.24
CALVARO*GFE	Compatibility : 68.21
ULHAN DU TEMPLE*GFE	Compatibility : 67.91
POPSTAR LOZONNAIS	Compatibility : 67.39
CANDY DE NANTUEL*GFE	Compatibility : 67.03
PRESIDENT	Compatibility : 67.02
DIARADO	Compatibility : 66.50
KRAQUE BOOM	Compatibility : 66.21

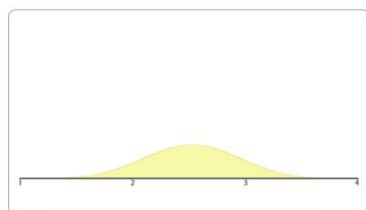
➤ SHOW COMPATIBILITY



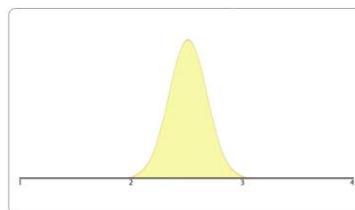
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## The Superposition Graphics

### Repartition of progeny's scores



Distant criteria



Close criteria



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# Digital Restitution

BISQUET BALOU C VD MISPEL \*GFE

Morphology 74.95 (0.82)

Gaits and jumping technique 74.04 (0.68)

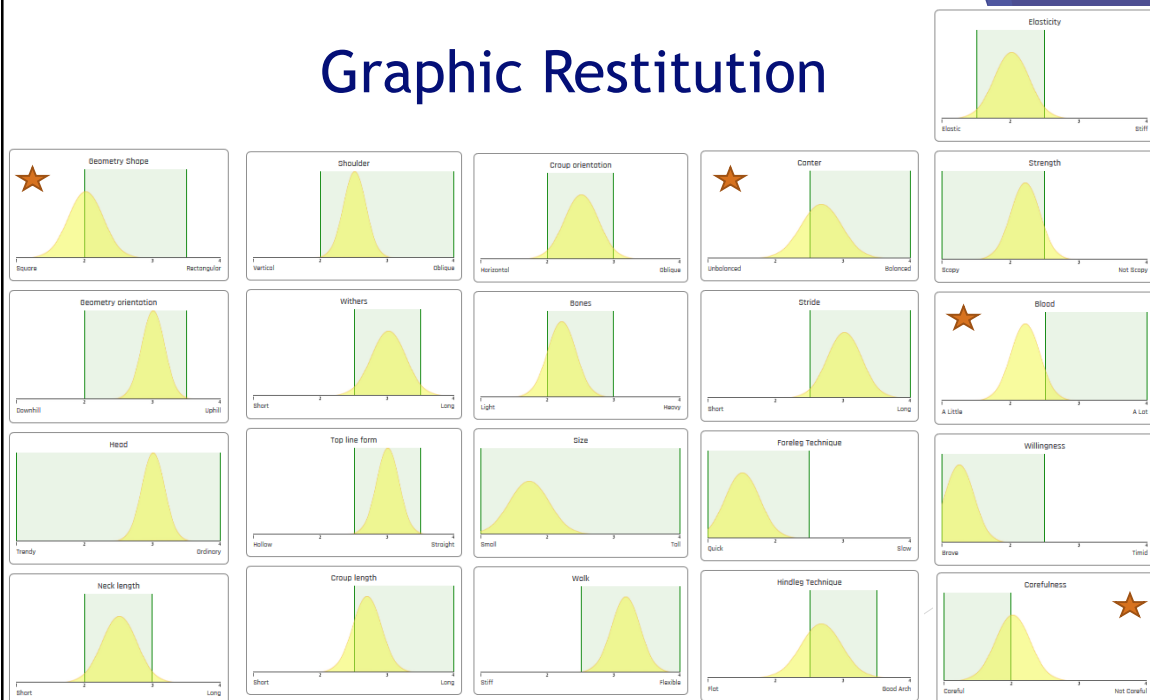
Others 62.60 (0.83)

Either a total compatibility of 72.34 (0.78)



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# Graphic Restitution



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You have many mares entered in the system

You want to use a specified Sire, and see with which mare he would be the most suitable

## Reversed PAX: 1 Sire + My mares

Compatibility with BALOU DU ROUET -

To compare 2 mares, select them and click on Show Compatibility

➤ SHOW COMPATIBILITY

	Name of the mare	Father	Total		Morphology		Gaits and jumping technique		Others		Détail
			C	F	C	F	C	F	C	F	
<input type="checkbox"/>	absolument special	dollar dela pierre	73.24	0.81	70.25	0.80	71.44	0.81	83.69	0.85	Détail
<input type="checkbox"/>	dasha des natimes	sable	69.24	0.75	70.19	0.77	65.68	0.75	71.95	0.68	Détail



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## Warnings

- The PAX system doesn't take into consideration: Pedigrees, Coat colors, Results in competition




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## Conclusion


*The PAX system do not help to predict the ability to jump of a horse,  
But increases the chance that this horse would have the  
conformation, gaits, jumping technique and temperament that will  
help him to express his predisposition comfortably!*



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## Thanks for your attention



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