

Introduction

- Marc and Marie-Agnès VANHOVE
- Settled on their farm in 1991
- Holstein herd 10 000 kg
- Member of economic group







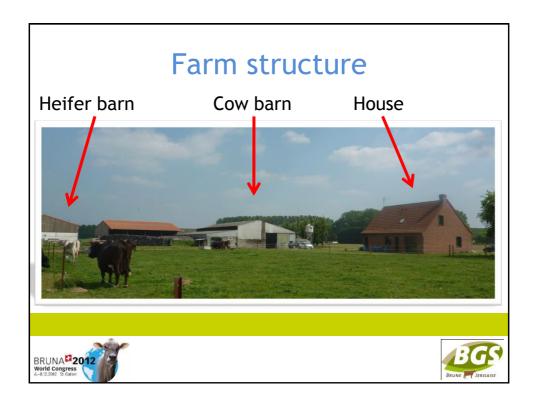
Farm structure

- Near Lille (North of France)
- Eco-intensive farming
- 45 ha with 500 000 Liters
- ⊙ 65 cows at 7823 kg
- main forage : corn silage









A « low cost » diet for cows

- ⊙ Corn silage 15.0 kg DM
- Chicory roots2.7 kg DM
- Rapeseed meal 3.5 kg
- Urea 150 g
- Minerals







Why I chose Brown Swiss

- Improve health traits
 - ✓ Fertility
 - ✓ Cell counts
 - √ Feet and legs
- Improve components
- Maintain production level







Introduction of Brown Swiss

• 2002 : Start of crossbreeding BS on Holstein

10 units resulted in 5 heifers F1

Gain in confidence to expand « pure cross »





Crossbreeding with Brown Swiss

- Used on good longevity Holstein cows
- BS sires selected for their complete package
- Used at each generation
- First heifer with 5 gen. BS: Gipsie (born 07/2011)

5th 96,875% Juleng (Jublend)

4th 93,75% x Sagittaire (Hussli) 3rd 87.5% x Prince (70

87,5% x Prince (Zoldo)

2nd 75% x Ortega (Patcho) 1st 50% x Mosaio

x Mosaique (Videv)





Main sires used

- Paradis (Denmark)
- Mosaique (Videv)
- Prince (Zoldo)
- Richelieu (Playboy)
- Sagittaire (Hussli)
- Thibault (Dominate)
- Traction (President)







Introduction of Brown Swiss

DESIREE: 75% BS

2nd generation

Richelieu x Mosaique







Introduction of Brown Swiss

#3613:75% BS 2^{nd} generation Paradis x Mosaique







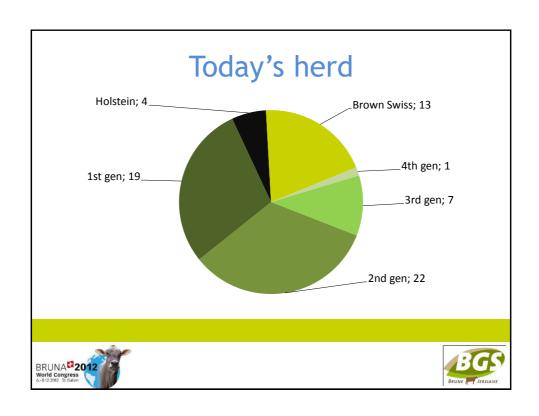
Introduction of Brown Swiss

View of the herd

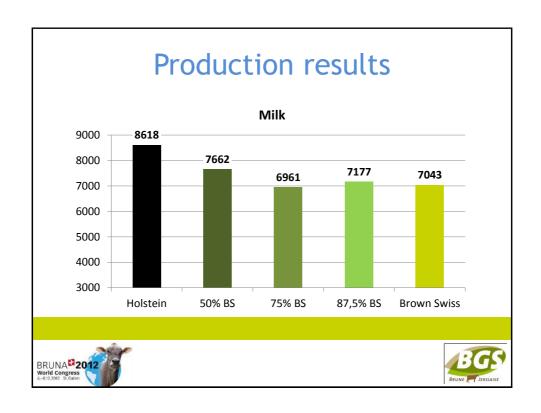


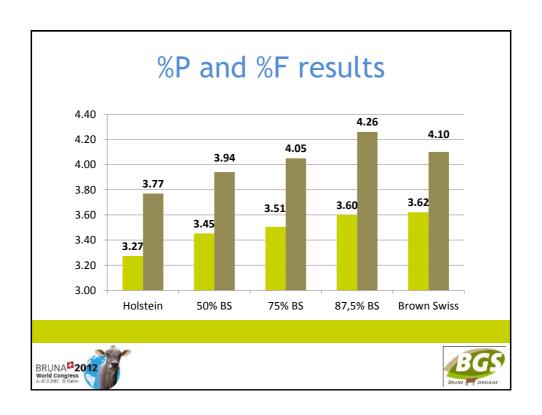






Hea	2001 100% Holstein	2012 60% Crossbred 32% Brown Swiss 8% Holstein	Difference
Calving Interval	405 days	394 days	-11 days
Al/pregnancy	1,91	1,66	-0,25 unit
Cell counts	214 000	134 000	- 80 000





« pure cross » technical results

- Production of 75% and 87,5% is not lower than BS
- Milk potential is lower in 1st lactation, like BS
- Components raise to BS level gradually
- Fertility and udder health are improved





« pure cross » technical results

- WRONG idea: 2nd generations are bad
- Gradient move from Holstein to Brown Swiss
- More variance of type with intermediate crosses





Economical results

- Member of Comparison group :
 - √ 80 dairy farms
 - √ Similar feeding systems
 - ✓ Mainly Holstein breed
- Before crossbreeding, Gross Margin in the average
- After crossbreeding, best of the group!





Economical results

	2001	2011	Group average
Milk / cow	7244	7823	8720
Milk price - cts/L (€)	34,1	36,2	34,7
Feeding costs - cts/L (€)	9,1	7,1	11,2
Breeding costs - cts/L (€)	2,4	3,2	4,0
Gross Margin - cts/L (€)	24,8	29,6	22,1





Economical results

- Gain with Brow Swiss introduction:
 - ✓+1,5 cts/L on milk price
 - ✓-2,0 cts/L on feeding costs
 - ✓-0,6 cts/L on veterinary costs
 - √+2,0 cts/L on Gross Margin due to breed change





Overall opinion

- Main goal is to maximize Gross Margin
- Feeding system based on reduced inputs
- Brown Swiss and crosses adapt better than Holstein
 - √ flat lactation curve
 - ✓ better fertility
 - √ less health problems
 - √ better use of diet





Overall opinion on « pure cross »



- ✓ Lower production of 75% BS
- ✓ Lower production of 1st Lact.
- √ Some variance on type results
- ✓ Better INCOME!
- ✓ Rapid change on F1
- ✓ Improved Fertility
- ✓ Better udder health
- √ Higher components
- ✓ Gradual change





Conclusion

- Successfull introduction of BS on the farm
- BS Well adapted to their « simple » system
- Crossbreeding can lead to higher Gross Margin!



