

EVOLUTION
EXCLUSIVITY!

4 INNOVATIONS SUPPORTING GENETIC EFFICIENCY

#4

FEED EFFICIENCY (FE)



GULIETTA

MILK : 10 829 KG

CONCENTRATE : 9.5KG/100L MILK

EVOLUTION FE : +1.0

ISATIS

MILK : 10 759 KG

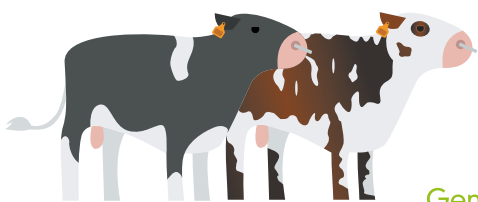
CONCENTRATE : 11.4KG/100L MILK

EVOLUTION FE : -0.9

MANAGE THE 1ST OPERATIONAL COST OF YOUR HERD

WE GIVE YOU TOOLS TO MOVE
FORWARD RIGHT NOW :

< Our bulls are evaluated
with FE proof



Genimprove

Your females are evaluated
by the EVOLUTION genotyping >



PRODUCT SHEET: UNDERSTAND AND USE THIS INNOVATION IN YOUR HERD


EVOLUTION
International



THE FEED EFFICIENCY CHALLENGES

Feed : first operational cost in herds

- > 62% of the operational costs in dairy herds
- > 1st improvement tool of the economic result (2nd: herd turnover rate)
- > Herds with the best EBE/1000L have on average 25€/1000L less feed costs

Dairy cows feed efficiency : a universal subject

Whatever the breeding system, from the most extensive to the most intensive, the system valorisation depends on the dairy cow efficiency, its capacity to valorise the available feed.

Étude XPERTIA 2019 dans 529 élevages



WHAT IS THE FEED EFFICIENCY?

> Difficult subject to tackle

- Important expectations but limits to collect reliable and mass data. Complex subject that will require time and several steps to be treated integrally.
- 1st step: meta-analysis based on international knowledge from basic scientific work.
- This first step is the beginning of a long process of enrichment by applied research.

> EVOLUTION provides to breeders a 1st feed efficiency synthesis that values this first stage of work

> Concept : select the individuals who best value the feeding over their dairy career:

1. Produce more from my available feeding
2. Eat less feed
3. Being healthy

> Product synthesis : available for EVOLUTION bulls and for all genotyped females with EVOLUTION

Focus on 0 with a standard deviation of +/- 1 : as for Functional or Morphological- proofs. Relies on elementary proofs (Rel: from 0.5 to 0.95)

Feed efficiency formula

$$FE = \frac{\text{Production}}{\text{maintenance needs}} + \text{Health}$$

Holstein

(Milk+PROT+FAT)-BDC+Health



Normande

(Milk+PROT+FAT)+SYBO-FT+Health



WHAT BENEFITS FOR BREEDERS ? A CHALLENGE OF 10% PERFORMANCE IMPROVEMENT

1- Identify the quality of the animals, sort and advance your herd

FE synthesis is available for EVOLUTION bulls and females genotyped with EVOLUTION.

2- Example : 120kg of concentrates of difference between the best and worst cow, therefore 10%

- Sample of 71 Holstein cows with at least 3 lactations registered
- Measurement of the daily production performance and the concentrates consumption
 - The top 1/3 consumed on average 10.4kg of concentrate /100L of milk produced
 - The lower 1/3 consumed on average 11.5kg of concentrate / 100L of milk produced
- **These herds challenges are 5,000€ / year / 100 dairy cows (50€/cow/year)**

link between feed efficiency & consumed concentrates /100L of milk



Mesures terrain EVOLUTION - 2019