

Country

France

Trait category:

Growth & beef

Individual trait(s):

Feed conversion efficiency

Liveweight

Muscularity

Computing and methodology:

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FRANCE

Growth & beef traits	Feed conversion efficiency Liveweight Muscularity
Breed(s)	Normande, Montbélairde
Trait definition and unit(s) of measuring	Feed conversion efficiency is measured between 140 and 310 days of age (in grams) Liveweight at 300 days (in kilograms) Muscularity is scored on a linear 1-15 scale
Type of recording and evaluation	Own performance test
Time period for data inclusion	Since 1969 (for Normande) Since 1982 (for Montbélairde)
Genetic parameters	$h^2_{\text{feed conversion efficiency}} = 0.40$ $h^2_{\text{300 days weight}} = 0.40$ $h^2_{\text{muscularity}} = 0.40$
Sire categories evaluated	AI bulls
Environmental effect pre-adjustment evaluation model	None Two models are applied separately for evaluation of all traits: Mobile average: contemporary groups with station and time period ST BLUP AM: Station x year x season
Base for age adjustment	None
Method (model) of genetic evaluation	Two models are applied separately for evaluation of all traits: Mobile average ST BLUP AM
Evaluation system validation	Data quality control
Expression of proof	RBV with $M = 100$ and phenotypic $SD = 20$, higher values more desirable
Genetic (reference) base	Mobile average: 3 months station average ST BLUP AM: fixed, average RBV of bulls born from 1982 to 1990
Criteria for official publication of sire proofs	Mobile average: only 1 proof per bull is published (at end of his test period) ST BLUP AM: All bulls with completed test
Number of evaluations/publications per year	Mobile average: every month. The mobile average is calculated only once for each bull, at the end of the control ST BLUP AM: once per year
Use in total merit index	$0.5 \times (\text{feed conversion efficiency} + \text{muscularity score})$
Key reference on methodology applied	-