

Country

Denmark

Trait category:

Growth & beef

Individual trait(s):

Daily gain

Longissimus Dorsi-area

Feed intake capacity

National committee on Danish Cattle Husbandry

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DENMARK

Growth & beef traits	a) b) c)	Daily gain Longissimus Dorsi-area Feed intake capacity
Breed(s)	a-c) a,c)	Danish Black & White, Danish Red, Danish Red & White Danish Jersey
Trait definition and unit(s) of measuring	a) b) c)	Average daily gain considering liveweight between 42 and 336 days (in grams) The area of M. Longissimus Dorsi (LD-area) measured with ultrasonic equipment (in cm ²) Fill units for young bulls, estimated on the basis of the energy concentration, differentiation among concentrates, long straw and chopped straw
Type of recording and evaluation	a-c)	Own performance at test station
Time period for data inclusion	a-c)	Since 1972
Genetic parameters	a) b) c) a,c)	Different heritabilities for different breeds $h^2_{\text{daily gain}} = 0.39 \text{ to } 0.41$ $h^2_{\text{LD-area}} = 0.45$ $h^2_{\text{feed intake capacity}} = 0.27 \text{ to } 0.35$ $r_{g(\text{daily gain, feed intake capacity})} = -0.07 \text{ to } 0.37$
Sire categories evaluated	a-c)	Test bulls and their ancestors
Environmental effect pre-adjustment evaluation model	a-c) a,c) b)	None Station x year x month of birth, age at entering the station, heterosis Station x day of measuring, weight at measuring, heterosis
Base for age adjustment	a) b) c)	None Weight of 400 kg Weight of 400 kg (for Danish Black & White, Danish Red, Danish Red & White) Weight of 300 kg (for Danish Jersey)
Method (model) of genetic evaluation	a,c) b)	MT BLUP AM ST BLUP AM for repeated records, all breeds evaluated simultaneously
Evaluation system validation	a-c)	None
Expression of proof	a-c)	RBV with M = 100 and SD = 1.7 to 5.5, higher values are more desirable Beef & growth index (I-index), RBV with M = 100 and SD = 5, higher values are more desirable
Genetic (reference) base	a-c)	Last year of tested bulls

Growth & beef traits <i>continued</i>	a) b) c)	Daily gain M. Longissimus Dorsi-area Feed intake capacity
Criteria for official publication of sire proofs	a-c)	All tested bulls until 336 days are published The information of sire of sons will be published when ≥ 8 sons in progeny test
Number of evaluations/ publications per year	a-c)	52
Use in total merit index	a-c)	Included, see page 35
Key reference on methodology applied	a-c)	Pedersen, G. Aa., P. Madsen, H.R. Andersen, L. Jensen & E. Oversen, 1995. Annual report on performance and combined genotype and nutrition experiments with dairy, dual purpose and beef bulls. Rep. No. 727 Nat. Inst. Anim. Foulum, Denmark.