Country   **Ireland**

Trait category: _Individual trait(s):_

Growth & beef   **Carcass gain**
                         Carcass conformation
                         Carcass fat
                         Muscularity

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Growth & beef traits	a) b) c) d)	Carcass gain Carcass conformation Carcass fat Muscularity

Breed(s)	a-d)	Holstein Friesian
Trait definition and unit(s) of measuring	a) b,c) d)	Carcass gain (in kilograms) considering carcass weight between 18 and 24 months Scored on Euro scale Scored on a linear 1-9 point scale
Type of recording and evaluation	a-c) d)	Progeny test (steer animals) Progeny conformation score (female)
Time period for data inclusion	a-c) d)	Since 1976 Since 1984
Genetic parameters	a) b) c) d)	$h^2_{carcass\ gain} = 0.4$ $h^2_{carcass\ conformation} = 0.3$ $h^2_{carcass\ fat} = 0.3$ $h^2_{muscularity} = 0.25$
Sire categories evaluated	a-c) d)	AI test bulls All AI bulls
Environmental effect 　pre-adjustment 　evaluation model	 a-c) d) a-c) d)	 None Age at calving, date of calving, stage of lactation Year x test centre, breed, age Herd x year x AI-station
Base for age adjustment	a-c) d)	None 26 months
Method (model) of genetic evaluation	a-d)	ST BLUP SM
Evaluation system validation	a-d)	None
Expression of proof	a) b) c) d)	RBV with M = 100 and SD = 3.5 RBV with M = 100 and SD = 10 RBV with M = 100 and SD = 5.0 ETA with M = 0 and SD = 1.0
Genetic (reference) base	a-d)	Based on mean from full data set (20 years)
Criteria for official publication of sire proofs	a-d)	REL ≥ 0.5
Number of evaluations/ publications per year	a-d)	One; March
Use in total merit index	a-d)	BMI (beef merit index):100 + 3.77 (daily gain - 100) + 1.0 x (carcass fat - 100) + 0.805 x (carcass conformation - 100) + 0.805 x (muscularity) NB: expected transmitting abilities from muscularity are converted to EBV and rescaled to have equal variance with carcass conformation
Key reference	a-d)	Annual report (beef cattle)