Country

Austria

Trait category:

Individual trait(s):

Reproduction-calving

Calving performance (direct, maternal)

Reproduction-fertility

Non-return rate 90 (female, male)

Longevity

Productive live

Zentrale Arbeitsgemeinschaft Österreichischer Rinderzüchter (ZAR)

Universumstraße 33/8

A-1200 Wien, Austria

Telephone

+43 1 334 17 21

Facsimile

+43 1 334 17 13

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Reproduction calving traits	Calving performance (direct, maternal)	
Breed(s)	Fleckvieh (= Simmental), Braunvieh (crossed with Brown Swiss), Pinzgauer (crossed with Red Friesian), Schwarzbunte (crossed with Holstein Friesian), Grauvieh	
Trait definition and unit(s) of measuring	Scored in 5 categories; easy/no help necessary (1), normal/help of one person necessary (2), difficult/help of more than one person necessary (3), caesarean (4), embryotomy (5). Transformed to a standard normal distribution	
Method of measuring and collecting data	Scored by farmer and collected by milk recording system	
Time period for data inclusion	Since 1992	
Age groups	All	
Genetic parameters	$h^2_{\text{calving performance (direct)}} = 0.05$ $h^2_{\text{calving performance (maternal)}} = 0.05$ $r_{\text{g(calving performance (direct, maternal))}} = -0.10$	
Sire categories	All sires with offspring	
Environmental effects pre-adjustment evaluation model	None Permanent environment, herd x year of calving, month of calving, number of calving (x age of calving for first and second parity), sex of calf	
Base for age adjustment	None	
Use of genetic groups and/or relationships	Depending on birth year	
Method (model) of genetic evaluation	Maternal effects ST BLUP AM for repeated records	
System validation	Detailed data quality control, genetic trend estimation	
Expression of proof	Combined RBV with $M = 100$ and $SD = 12$, higher values indicate easier calving	
Genetic (reference) base	Rolling reference base, e.g. in 1995 bulls born between 1986 and 1988 with minimum accuracy for publication	
Criteria for official publication of sire proofs	REL ≥ 0.30	
Number of evaluations/ publications per year	One; June	
Use in total merit index	No	
Key reference on methodology applied	Gierdziewicz et al., 1994 (EAAP)	

Reproduction fertility traits	Non-return rate 90 (female, male) Fleckvieh (= Simmental), Braunvieh (crossed with Brown Swiss), Pinzgauer (crossed with Red Friesian), Schwarzbunte (crossed with Holstein Friesian), Grauvieh			
Breed(s)				
Trait definition and unit(s) of measuring	Not re-inseminated (0) or re-inseminated (1) within 90 days after first insemination			
Method of measuring and collecting data	Calculated from milk recording records			
Time period for data inclusion	Since 1990			
Age groups	All			
Genetic parameters	$h^2_{\text{non-return rate 90 (female)}} = 0.02, t = 0.03$ $h^2_{\text{non-return rate 90 (male)}} = 0.02, t = 0.03$ $r_{\text{g(non-return rate 90 (female, male)}} = 0.00$			
Sire categories	All sires with offspring			
Environmental effects pre-adjustment evaluation model	None Permanent environment, herd x year of insemination, month of insemination, parity of cow x age at first insemination (heifers only) x service period (cows only)			
Base for age adjustment	None			
Use of genetic groups and/or relationships	Depending on birth year			
Method (model) of genetic evaluation	ST BLUP AM, for repeated records, including paternal and the maternal effects			
System validation	Detailed data quality control, genetic trend estimation			
Expression of proof	Combined RBV with $M = 100$ and $SD = 12$, higher values are more desirable			
Genetic (reference) base	Rolling reference base, e.g. in 1995 bulls born between 1986 and 1988 and minimum accuracy for publication			
Criteria for official publication of sire proofs	REL ≥ 0.30 for paternal and/or maternal EBV			
Number of evaluations/ oublications per year	One; June			
Use in total merit index	No			
Key reference on nethodology applied	Thaller et al., 1994 (EAAP)			

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Longevity traits	Productive life	
Breed(s)	Fleckvieh (= Simmental), Braunvieh (crossed with Brown Swiss), Pinzgauer (crossed with Red Friesian), Schwarzbunte (crossed with Holstein Friesian), Grauvieh	
Trait definition and unit(s) of measuring	Time between first parturition and culling (in days), adjusted for yield	
Method of measuring and collecting data	Calculated form milk recording records	
Time period for data inclusion	Since 1979	
Age groups	All	
Genetic parameters	$h^2_{\text{productive life}} = 0.10$	
Sire categories	All sires with offspring	
Environmental effects pre-adjustment evaluation model	None Average length of productive life of herd mates (classes), relative milk yield of cow in herd (linear and quadratic, as covariable), relative fat and protein percentage of cow in herd (linear and quadratic, as covariable)	
Base for age adjustment	None	
Use of genetic groups and/or relationships	No genetic groups	
Method (model) of genetic evaluation	ST ML Cox-regression model (survival analysis) AM (for Schwarzbunte, Pinzgauer and Grauvieh) ST ML Cox regression model (survival analysis) sire-MGS model (for Fleckvieh and Braunvieh)	
System validation	Detailed data quality control, genetic trend estimation	
Expression of proof	RBV with M = 100 and SD = 12, higher values indicate longer productive life	
Genetic (reference) base	All bulls	
Criteria for official publication of sire proofs	Born after 1975 and REL ≥ 0.30	
Number of evaluations/ publications per year	One; June	
Use in total merit index	No	
Key reference on methodology applied	Egger-Danner et al., 1993 (EAAP); Egger-Danner, 1993 (Diss Univ. für Bodenkultur, Vienna	

Country

Belgium

Trait category:

Individual trait(s):

Workability

Milking speed **Temperament**

Conformation

Udder

Locomotion

Other

Genetic Committee Ministry of Agriculture Manhattan Office Tower Bolwerklaan 21, 6th floor B-1210 Brussels, Belgium

Department of Genetics Faculty of Veterinary Medicine University of Liege B-4000 Liege, Belgium Telephone +32 41 66 41 50

Facsimile

+32 41 66 41 22

E-mail

leroy@stat.fmv.ulg.ac.be

BELGIUM

Workability traits	Milking speed Temperament		
Breed(s)	Holstein, Red, Red & White, East Flemish, Red Flanders, MRY, Black & White		
Trait definition and unit(s) of measuring	Workability traits are scored on a linear 1-5 point scale		
Method of measuring and collecting data	Scored by farmer and collected by classifier		
Time period for data inclusion	Since 1991		
Age groups	22 to 38 months		
Genetic parameters	$h_{\text{milking speed}}^2 = 0.20$ $h_{\text{temperament}}^2 = 0.11$		
Sire categories	AI-bulls		
Environmental effects pre-adjustment evaluation model	None Standard x herd x date of classification x classifier, month in milk, age at classification		
Base for age adjustment	None		
Use of genetic groups and/or relationships	All known relationships are used and unknown parents are grouped in genetic groups according to breed, sex and birth year		
Method (model) of genetic evaluation	ST BLUP AM		
System validation			
Expression of proof	Standardized EBV from -3 to +3		
Genetic (reference) base	Average EBV of cows born in 1990		
Criteria for official publication of sire proofs	RPT ≥ 0.50 if sampled in Belgium		
Number of evaluations/ publications per year	Two; January, July		
Use in total merit index	No		
Key reference on methodology applied	Detilleux et al., 1995. Interbull report (Prague)		

Conformation traits	Udder: Locomotion: Other:	fore udder attachment, udder depth, rear udder height, rear udder width, suspensory ligament, teat placement, teat length, udder overall rear leg set, claw diagonal stature, forehand, middlehand, loin & chine, rump angle, rump width, muscularity, size overall, type overall, muscularity overall, final score	
Breed(s)	Holstein, Red, Red & White, East Flemish, Red Flanders, MRY, Black & White		
Trait definition and unit(s) of measuring	Individual traits are scored on a linear 1-9 point scale, following recommendation of the European and World-wide group for harmonization of linear type classification Overall traits are scored on a 65-99 scale		
Method of measuring and collecting data	Scored by classifier		
Time period for data inclusion	Since 1991		
Age groups	22 to 38 months		
Genetic parameters	$h^2_{\text{udder traits}} = 0.22 \text{ to } 0.38$ $h^2_{\text{locomotion traits}} = 0.14 \text{ to } 0.19$ $h^2_{\text{other traits}} = 0.23 \text{ to } 0.59$		
Sire categories	AI-bulls		
Environmental effects pre-adjustment evaluation model	None Standard x herd x date of classification x classifier, month in milk, age at classification		
Base for age adjustment	None		
Use of genetic groups and/or relationships	All known relationships are used and unknown parents are grouped in genetic groups according to breed, sex and birth year		
Method (model) of genetic evaluation	ST BLUP AM		
System validation	•		
Expression of proof	Standardized EF	3V from -3 to +3	
Genetic (reference) base	Average EBV o	f cows born in 1990	
Criteria for official publication of sire proofs	RPT ≥ 0.50 if sampled in Belgium		
Number of evaluations/ publications per year	Two; January, July		
Use in total merit index	No	No	
Key reference on methodology applied	Detilleux et al., 1995. Interbull report (Prague)		