Form GE

Status as of: 2014-08-25

DESCRIPTION OF NATIONAL GENETIC EVALUATION SYSTEMS

Country (or countries)	SLOVENIJA
Main trait group[1] **NOTE!** Only one trait group per form!	LONGEVITY
Breed(s)	HOL, SIM, BSW
Trait definition(s) and unit(s) of measurement[2] Attach an appendix if needed	Direct longevity: length of productive life (number of days from 1st calving to the culling or to the moment of data collection or till the end of sixth lactation). At the end of sixth lactation we marked records as censored.
Method of measuring and collecting data	from milk recording data
Time period for data inclusion	from 01.01.2000 (truncation date)
Age groups (e.g. parities) included	Parities 1 to 6.
Other criteria (data edits) for inclusion of records	
Criteria for extension of records (if applicable)	
Sire categories	AI
Environmental effects[3]**, pre-adjustments**	No
Method (model) of genetic evaluation[3]	Direct longevity : ST S-MGS survival analysis model, applying a proportional hazard model with Weibull baseline hazard distribution.
Environmental effects[3] **in the genetic evaluation model**	F – age at first calving, stage of lactation within parity, yearly herd size deviation, season R – herd, sire
Adjustment for heterogeneous variance in evaluation model	
Use of genetic groups and relationships	
Blending of foreign/Interbull information in evaluation	No
Genetic parameters in the evaluation	Use Appendix GE for heritability/genetic variance estimates; for multiple-trait genetic evaluations, provide genetic correlation estimates between traits separately. Use **also** appendices PR, CO, BCO, SM, LO, CA, as applicable, if you participate in the international genetic evaluations of Interbull
System validation	Genetic trend validation – method 3
Expression of genetic evaluations If standardised (e.g. RBV), give standardisation formula in the appendix	BV12=((BV-a)/b)*12+100 a – mean of BV b – standard deviation of BV
Definition of genetic reference base	Mean of bulls born between 2008.
Next base change	2016

Calculation of reliability	Yes
Criteria for official publication of evaluations	20 daughters
Number of evaluations / publications per year	3
Use in total merit index[4]	HOL: Direct longevity 6% BSW: Direct longevity 5% SIM: Direct longevity 10%
Anticipated changes in the near future	Change of genetic base
Key reference on methodology applied	Web site: http://www.bf.uni-lj.si/zootehnika/struktura/katedre-in-enote/center-za-strokovno-delo-v-zivinoreji/govedo/
Key organisation: name, address, phone, fax, e-mail, web site	University of Ljubljana, Biotechnical Faculty, Department of Animal Science, Groblje 3, 1230 Domzale, Slovenija Tel. +386 1 3203 872 Fax: +386 1 7241 005 Jurij.Krsnik@bf.uni-lj.si, Klemen.Potocnik@bf.uni-lj.si

1) Either: Production (e.g. milk, fat, protein), Conformation, Health (e.g. mastitis resistance, milk somatic cell, resistance to diseases other than mastitis), Longevity, Calving (e.g. stillbirth, calving ease), Female fertility (e.g. non-return rate, interval between reproductive events, number of AI's, heat strength), Workability (e.g. milking speed, temperament), Beef production, Efficiency (e.g. body weight, energy balance, body conditioning score), or Other traits.
2) Indicate frequencies per category if the trait is categorical and specify transformation of data if practiced.
3) Use abbreviations for most common effects (see document with list of abbreviations at http://www-interbull.slu.se/service_documentation/General/list_of_abbreviations.rtf) and indicate random (R) or fixed (F).
4) Please give economic weights and indicate how they are expressed (preferably in genetic standard deviation units).

Parameters for national genetic evaluations for longevity traits as provided to Interbull

Country (or countries): SLOVENIJA
Main trait group: Longevity
Breed(s): HOL

Trait	h^2	genetic variance	official proof standardisation formula[a]
Direct longevity	0.137	0.04	BV12=((BV-(-0.0045))/0.0882)*12+100
Combined longevity			

Country (or countries): SLOVENIJA
Main trait group: Longevity
Breed(s): SIM

Trait	h^2	genetic variance	official proof standardisation formula[a]
Direct longevity	0.097	0.03	BV12=((BV-(-0.0521))/0.0864)*12+100
Combined longevity			

Country (or countries): SLOVENIJA
Main trait group: Longevity
Breed(s): BSW

Trait	h^2	genetic variance	official proof standardisation formula[a]
Direct longevity	0.068	0.02	BV12=((BV-(-0.0396))/0.0787)*12+100
Combined longevity			

[a] Expressed as follows:
StandEval=((eval-a)/b)*c+d where a=mean of the base adjustment, b=standard deviation of the base, c=standard deviation of expression (include sign if scale is reversed), and d=base of expression.