Form GE Status as of: 2014-08-25

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## DESCRIPTION OF NATIONAL GENETIC EVALUATION SYSTEMS

Country (or countries)	SLOVENIJA	
Main trait group <sup>1</sup> NOTE! Only one trait group per	HEALTH	
form!	NOT ON DOM	
Breed(s)	HOL, SIM, BSW	
Trait definition(s) and unit(s) of measurement <sup>2</sup>	Somatic cell score (SCS) = $log_2(SCC)$ , where SCC is somatic cells in ml.	
Attach an appendix if needed	ICAR Milk recording method	
Method of measuring and collecting data	to 29.2.2004 A4 method	
	from 1.3.2004 AT4 method	
Time period for data inclusion	Calving from 01.01.2004	
Age groups (e.g. parities) included	1-5 parity	
Other criteria (data edits) for	Days in milk >= 5	
inclusion of records	Number of herds >=3	
Criteria for extension of records (if applicable)		
Sire categories	AI	
Environmental effects <sup>3</sup> , pre- adjustments	No	
Method (model) of genetic evaluation <sup>3</sup>	ST Repeatability TD	
Environmental effects <sup>3</sup> in the genetic evaluation model	F – calving season, parity R – herd*year, permanent environment FR – Ali, Schaeffer	
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.	
Cranadon	Use <b>also</b> 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	
<b>Expression of genetic evaluations</b>	BV12=((BV-a)/b)*12+100	
If standardised (e.g. RBV), give	a – mean of BV	
standardisation formula in the appendix	b – standard deviation of BV	
Definition of genetic reference base	Mean of cows born in 2010	
Next base change	2016	
Calculation of reliability	Yes	
Interbull Code of Practice	Appendix II: Forms	

Criteria for official publication of evaluations	reliability(sire) >= 0.5, reliability(dam) >= 0.4	
Number of evaluations / publications per year	3	
Use in total merit index <sup>4</sup>	HOL: SCS 6%	
	BSW: SCS 8%	
	SIM: SCS 2%	
Anticipated changes in the near future	Change of genetic base	
Key reference on methodology applied	Web site: <a href="http://www.bf.uni-lj.si/zootehnika/struktura/katedre-in-enote/center-za-strokovno-delo-v-zivinoreji/govedo/">http://www.bf.uni-lj.si/zootehnika/struktura/katedre-in-enote/center-za-strokovno-delo-v-zivinoreji/govedo/</a>	
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	

<sup>1)</sup> 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.

<sup>2)</sup> 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://wwwinterbull.slu.se/service\_documentation/General/list\_of\_abbreviations.rtf) and indicate random (R) or fixed (F).

<sup>4)</sup> Please give economic weights and indicate how they are expressed (preferably in genetic standard deviation units).

Form GE Appendix SM

## Parameters for national genetic evaluations for udder health traits as provided to Interbull

Country (or countries):

Main trait group:

Breed(s):

Health
HOL

Trait	$h^{2a}$	genetic variance <sup>a</sup>	official proof standardisation formula <sup>b</sup>
Milk Somatic Cell	0.29	1.15204	BV12=((BV-(0.0949))/ 0.6555)*-12+100
Clinical Mastitis			·

Country (or countries): SLOVENIA

Main trait group: Health

Breed(s): SIM

Trait	$h^{2a}$	genetic variance <sup>a</sup>	official proof standardisation formula <sup>b</sup>
Milk Somatic Cell	0.34	1.17619	BV12=((BV-(0.0992))/ 0.7138)*-12+100
Clinical Mastitis			

Country (or countries): SLOVENIA

Main trait group: Health

Breed(s): BSW

Trait	$h^{2a}$	genetic variance <sup>a</sup>	official proof standardisation formula <sup>b</sup>
Milk Somatic Cell	0.35	1.15204	BV12=((BV-(0.0288))/ 0.7004)*-12+100
Clinical Mastitis			

<sup>&</sup>lt;sup>a</sup> If repeated records are treated as separate traits, provide heritability estimates and genetic variances separately for each trait, as well as for all traits pooled, i.e. for the trait submitted to Interbull.

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.

b Expressed as follows: