

## DESCRIPTION OF NATIONAL GENETIC EVALUATION SYSTEMS

<b>Country (or countries)</b>	SLOVENIJA
<b>Main trait group<sup>1</sup></b>	WORKABILITY
<b>NOTE!</b> Only one trait group per form!	
<b>Breed(s)</b>	HOL, BSW
<b>Trait definition(s) and unit(s) of measurement<sup>2</sup></b> Attach an appendix if needed	Milking Speed: linear score 1 – 5.
<b>Method of measuring and collecting data</b>	Only first lactation linear scoring is included in genetic evaluation.
<b>Time period for data inclusion</b>	Calving from 01.01.2004
<b>Age groups (e.g. parities) included</b>	1 <sup>st</sup> parity
<b>Other criteria (data edits) for inclusion of records</b>	Classifier*year >= 10 scores Classifier (total) >= 20 scores (calving date - birth date) <= 1200 days 5 <= (scoring date - calving date) <= 365
<b>Criteria for extension of records (if applicable)</b>	
<b>Sire categories</b>	AI
<b>Environmental effects<sup>3</sup>, pre-adjustments</b>	No
<b>Method (model) of genetic evaluation<sup>3</sup></b>	ST – AM – BLUP
<b>Environmental effects<sup>3</sup> in the genetic evaluation model</b>	F – classifier*year F – class(birth year)*class(scoring date - calving date) F – calving season*year R – herd*year
<b>Adjustment for heterogeneous variance in evaluation model</b>	
<b>Use of genetic groups and relationships</b>	
<b>Blending of foreign/Interbull information in evaluation</b>	No
<b>Genetic parameters in the evaluation</b>	Use Appendix GE for heritability/genetic variance estimates; for multiple-trait genetic evaluations, provide genetic correlation estimates between traits separately. Use <b>also</b> appendices PR, CO, BCO, SM, LO, CA, as applicable, if you participate in the international genetic evaluations of Interbull
<b>System validation</b>	Genetic trend validation – method 3
<b>Expression of genetic evaluations</b> 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

<b>Definition of genetic reference base</b>	Population average
<b>Next base change</b>	Next evaluation
<b>Calculation of reliability</b>	Yes
<b>Criteria for official publication of evaluations</b>	reliability $\geq 0.3$
<b>Number of evaluations / publications per year</b>	3
<b>Use in total merit index<sup>4</sup></b>	HOL: Milking Speed 2% BSW: Milking Speed 3%
<b>Anticipated changes in the near future</b>	
<b>Key reference on methodology applied</b>	Web site: <a href="http://rodica.bf.uni-lj.si/govedo">http://rodica.bf.uni-lj.si/govedo</a>
<b>Key organisation: name, address, phone, fax, e-mail, web site</b>	University of Ljubljana, Biotechnical Faculty, Department of Animal Science, Groblje 3, 1230 Domzale, Slovenija Tel. +386 1 3203 872 Fax: +386 1 7241 005 <a href="mailto:Jurij.Krsnik@bf.uni-lj.si">Jurij.Krsnik@bf.uni-lj.si</a> , <a href="mailto:Klemen.Potocnik@bf.uni-lj.si">Klemen.Potocnik@bf.uni-lj.si</a>

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](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 workability traits as provided to Interbull

**Country (or countries):** SLOVENIJA  
**Main trait group:** WORKABILITY  
**Breed (repeat as necessary):** HOL

Trait	Definition	ITB <sup>a</sup>	h <sup>2b</sup>	genetic variance <sup>b</sup>	official proof standardisation formula <sup>c</sup>
Milking Speed	Scale 1-5	X	0.088	0.040	a=0 b=0.0754 c=12 d=100
Temperament					

**Country (or countries):** SLOVENIJA  
**Main trait group:** WORKABILITY  
**Breed (repeat as necessary):** BSW

Trait	Definition	ITB <sup>a</sup>	h <sup>2b</sup>	genetic variance <sup>b</sup>	official proof standardisation formula <sup>c</sup>
Milking Speed	Scale 1-5	X	0.103	0.046	a=0 b=0.0852 c=12 d=100
Temperament					

<sup>a</sup> Indicate, with X, traits that are submitted to Interbull for international genetic evaluations.

<sup>b</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.

<sup>c</sup> 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.