INTRODUCTION

DEU (HOL)

The latest genomic test international evaluation for calving traits took place as scheduled at the Interbull Centre. Data from 18 countries were included in this evaluation.

International genetic evaluations for calving traits of bulls were computed from: AUS BEL CAN CHE DEU DFS FRA GBR HUN IRL ISR ITA NLD NZL USA SVK ESP POL Holstein data were included in this evaluation.

CAN, DEU, DFS, GBR, ITA, NLD, HUN, ESP, POL submitted GEBVs.

dce:	CAN,	DEU,	DFS,	GBR,	ITA,	NLD,	HUN,	ESP,	POL
dsb:	CAN,	DEU,	DFS,	,	ITA,	NLD,			POL
mce:	CAN,	DEU,	DFS,	GBR,	ITA,	NLD,	HUN,		POL
msb:	CAN,	DEU,	DFS,	,	ITA,	NLD,			POL

CHANGES IN NATIONAL PROCEDURES

Changes in the national genetic evaluation of calving traits are as follows:

FRA (HOL) Changes in information due to pedigree verification

Data from 2404r used due to the mismatch between MACE and GMACE parameter file GBR (HOL)

INTERBULL CHANGES COMPARED TO THE DECEMBER ROUTINE RUN

No changes in Interbull procedures

Base change

DATA AND METHOD OF ANALYSIS

Thirteen Holstein populations sent GEBV data for up to 38 traits, while classical EBVs for the same traits were used in the analyses. Young bull GEBVs from the GEBV providers have been converted to the scales of all

countries participating in classical MACE. A bull will get a MACE EBV or a GMACE EBV but not both.

From those thirteen countries, National GEBVs of bulls less than seven years of age and with no classical MACE proofs were included for the breeding value prediction

with a further requirement of either a MACE-PA or a GMACE-PA (for young genomic bulls with young genomic sires) being available.

The parameter-space approach is used for the GMACE genetic evaluations (Sullivan, 2016)

SCIENTIFIC LITERATURE

The international genetic evaluation procedure is based on international work described in the following scientific publications:

Sullivan, P.G. 2016. Defining a Parameter Space for GMACE. Interbull Bulletin 50, p 85-93.

VanRaden, P.M. and Sullivan, P.G. 2010. International genomic evaluation methods for dairy cattle. Gen. Sel. Evol.

Sullivan, P.G. and Jakobsen, J.H. 2012. Robust GMACE for young bulls methodology. Interbull Bulletin 45, Article 1.

Sullivan, P.G. 2012a. GMACE reliability approximation. Report to the GMACE working group of Interbull. GMACE_rels 20

Sullivan, P.G. 2012b. GMACE variance estimation. Report to the GMACE working group of Interbull. GMACE_vce 2013

Sullivan, P.G. 2012c. GMACE Weighting Factors. Report to the GMACE working group of Interbull. GMACE_gedcs 2013

Jakobsen, J.H. and Sullivan, P.G. 2013. Trait specific computation of shared reference population. Reference sharin

NEXT ROUTINE INTERNATIONAL EVALUATION

42:7		
2013		
ng Nov 2013		

Dates for next routine run can be found on http://www.interbull.org/ib/servicecalendar

NEXT TEST INTERNATIONAL EVALUATION

Dates for next test run can be found on http://www.interbull.org/ib/servicecalendar

PUBLICATION OF INTERBULL ROUTINE RUN

Results were distributed by the Interbull Centre to designated representatives in each country. The international evaluation file comprised international proofs expressed on the base and unit of each country included in the analysis. Such records readily provide more information on bull performance in various countries, thereby minimising the need to resort to conversions.

At the same time, all recipients of Interbull results are expected to honour the agreed code of practice, decided by the Interbull Steering Committee, and only publish international evaluations on their own country scale. Evaluations expressed on another country scale are confidential and may only be used internally for research and review purposes.

Table 1. National evaluation dates in GMACE run December 2024

Country Date

CAN	2024120	 L							
DFS	2024110	5							
ITA	2024110								
NLD	2024120								
GBR	20240312	2							
HUN	2024111	5							
DEU	20241203	3							
BEL	2020120	L							
ESP	2024111)							
POL	20201203 20241113 20241013	L							
Table	 2.					=====			
Number	of bulls	n referenc		 tion for					
CAN 42									
	602.0 3726								
		0.0 40315.0							
		3.0 3461.0							
		7.0 38061.0			0001 0				
		7.0 2257.0 5.0 12168.0				44000			
		1.0 681.0 1.0 7417.0							
								31335.0 32253	
						31297.0	824.0	31335.0 32253	. 0
Number	of bulls	n referenc	e popula	tion for		 mce			
CAN 35	290.0								
	238.0 3804								
		3.0 32608.0							
		2.0 3316.0							
		2.0 30649.0							
		1.0 2213.0							
		0.0 10722.0							
ESP 7	174.0 36820	7049.0	33436.0	8129.0	8038.0	38403.0	39232.0		

POL 5030.0 31664.0 4900.0 28876.0 5875.0 7598.0 31736.0 31809.0 32718.0

NLD 3750.0 32048.0 3217.0 33411.0

DEU 10438.0 36053.0 10429.0 32534.0 42458.0

POL 4888.0 30256.0 4739.0 27611.0 30342.0 31263.0