INTRODUCTION

The latest genomic routine international evaluation for calving traits took place as scheduled at the Interbull Centre. Data from 16 countries were included in this evaluation.

International genetic evaluations for calving traits of bulls from Australia, Austria-Germany, Belgium, Canada, Denmark-Finland-Sweden, France, Germany, Hungary, Ireland, Israel, Italy, Netherlands, Norway, Switzerland, the United Kingdom, and the United States of America were computed. Holstein data were included in this evaluation.

CAN, DEU, DFS, GBR, ITA, NLD submitted GEBVs.

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

CHANGES IN NATIONAL PROCEDURES

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

GBR (HOL) Some bulls are no longer published.

DFS (HOL) Adjusted their regression procedure.

INTERBULL CHANGES COMPARED TO THE DECEMBER ROUTINE RUN

No changes in Interbull procedures

DATA AND METHOD OF ANALYSIS

Eleven 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 eleven 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.

SCIENTIFIC LITERATURE

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

VanRaden, P.M. and Sullivan, P.G. 2010. International genomic evaluation methods for dairy cattle. Gen. Sel. Evol. 42:7

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 2013

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

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

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

NEXT ROUTINE INTERNATIONAL EVALUATION

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

NEXT TEST INTERNATIONAL EVALUATION

Dates for next routine 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.

National evaluation dates in GMACE run August 2015

	Table 1.	National	evaluation	dates	in	GMACE	run	August	201	
	Country	Date								
	CAN DFS ITA NLD GBR DEU	20150801 20150812 20150707 20150801 20150719 20150811			===:	-====	====	=====	==	
	Table 2.									
Number of bulls in reference population for dce										
	CAN 25436									

Number of bulls	s in reference	populati	LOII LOI	ace						
CAN 25436.0										
DFS 1384.0 244	447.0									
ITA 23280.0 9	989.0 23740.0									
NLD 1752.0 238	808.0 1240.0	25709.0								
GBR 23898.0 12	209.0 23090.0	1528.0 2	24012.0							
DEU 1497.0 240	053.0 1122.0	24073.0	1322.0	25768.0						
Number of bulls in reference population for mce										

CAN 19886.0

DFS 1373.0 24907.0

ITA 18395.0 982.0 18606.0

NLD 1693.0 24252.0 1203.0 25707.0 GBR 18776.0 1199.0 18261.0 1479.0 18858.0

DEU 1477.0 24504.0 1107.0 24528.0 1306.0 26228.0

Number of bulls in reference population for _____

CAN 23151.0

DFS 1380.0 24211.0

ITA 21090.0 985.0 21546.0

NLD 1733.0 23571.0 1222.0 24978.0 DEU 1492.0 23810.0 1118.0 23738.0 25405.0

Number of bulls in reference population for

CAN 18220.0

DFS 1366.0 24784.0

ITA 16822.0 978.0 17029.0

NLD 1666.0 24133.0 1181.0 25484.0 DEU 1470.0 24376.0 1103.0 24398.0 26076.0