INTRODUCTION

The latest genomic international evaluation for dairy production traits took place as scheduled at the Interbull Centre. Data 32 countries were included in this evaluation.

International genetic evaluations for milk, fat and protein yields of bulls from Australia, Austria-Germany, Belgium, Canada, Czech Republic, Denmark-Finland-Sweden, Estonia, France, Hungary, Ireland, Israel, Italy, Japan, Latvia, Lithuania, Netherlands, New Zealand, Norway, Poland, Republic of South Africa, Slovak Republic, Slovenia, Spain, Switzerland, the United Kingdom, the United States of America, Portugal, Korea, Argentina and Urugay were computed.

Holstein breed data were included in this evaluation.

BEL, CAN, DEU, ESP, FRA, AUS, DFS, GBR, ITA, NLD, POL submitted GEBVs.

fat: BEL, CAN, DEU, ESP, FRA, AUS, DFS, GBR, ITA, NLD, POL
mil: BEL, CAN, DEU, ESP, FRA, AUS, DFS, GBR, ITA, NLD, POL
pro: BEL, CAN, DEU, ESP, FRA, AUS, DFS, GBR, ITA, NLD, POL

CHANGES IN NATIONAL PROCEDURES

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

DEU (HOL) Base change for production traits.

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 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.

Table 1. National evaluation dates in GMACE run August 2015

```
Country Date
______
CAN
        20150801
        20150811
DEII
        20150812
DFS
        20150814
FRA
TTA
       20150707
NLD
       20150801
GBR
       20150719
AUS
       20080407
       20150401
BEL
     20150723
20150701
ESP
POL
______
Number of bulls in reference population for mil
_____
CAN 26331.0
DEU 1506.0 31403.0
DFS 1391.0 26959.0 27460.0
FRA 1751.0 26244.0 23404.0 28452.0
ITA 23824.0 1125.0 990.0 1211.0 24290.0
NLD 1769.0 27004.0 26774.0 24266.0 1243.0 28931.0
GBR 24636.0 1326.0 1210.0 1481.0 23634.0 1533.0 24765.0
AUS 508.0 381.0 365.0 374.0 303.0 477.0 478.0 3369.0 BEL 672.0 820.0 745.0 791.0 627.0 835.0 626.0 226.0 2040.0
ESP 1400.0 28554.0 25805.0 26393.0 992.0 26357.0 1221.0 373.0 775.0 29392.0 POL 136.0 2500.0 206.0 2566.0 137.0 215.0 132.0 107.0 180.0 2628.0 2748.0
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_____
CAN 26331.0
DEU 1506.0 31403.0
DFS 1391.0 26959.0 27460.0
FRA 1751.0 26244.0 23404.0 28452.0
ITA 23824.0 1125.0 990.0 1211.0 24290.0
NLD 1769.0 27004.0 26774.0 24266.0 1243.0 28931.0
GBR 24636.0 1326.0 1210.0 1481.0 23634.0 1533.0 24765.0
AUS 508.0 381.0 365.0 374.0 303.0 477.0 478.0 3369.0 BEL 672.0 820.0 745.0 791.0 627.0 835.0 626.0 226.0
                                                  626.0 226.0 2040.0
ESP 1400.0 28554.0 25805.0 26393.0 992.0 26357.0 1221.0 373.0 775.0 29392.0 POL 136.0 2500.0 206.0 2566.0 137.0 215.0 132.0 107.0 180.0 2628.0 2748.0
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Number of bulls in reference population for pro											
CAN	26331.0										
DEU	1506.0	31403.0									
DFS	1391.0	26959.0	27460.0								
FRA	1751.0	26244.0	23404.0	28452.0							
ITA	23824.0	1125.0	990.0	1211.0	24290.0						
NLD	1769.0	27004.0	26774.0	24266.0	1243.0	28931.0					
GBR	24636.0	1326.0	1210.0	1481.0	23634.0	1533.0	24765.0				
AUS	508.0	381.0	365.0	374.0	303.0	477.0	478.0	3369.0			
BEL	672.0	820.0	745.0	791.0	627.0	835.0	626.0	226.0	2040.0		
ESP	1400.0	28554.0	25805.0	26393.0	992.0	26357.0	1221.0	373.0	775.0	29392.0	
POL	136.0	2500.0	206.0	2566.0	137.0	215.0	132.0	107.0	180.0	2628.0	2748.0