INTRODUCTION

The latest genomic routine international evaluation for udder traits took place as scheduled at the Interbull Centre. Data from 26 countries were included in this evaluation.

International genetic evaluations for udder health traits of bulls from Australia, Austria-Germany, Belgium, Canada, Czech Republic, Denmark-Finland-Sweden, Estonia, France, Hungary, Ireland, Israel, Italy, Japan, Netherlands, New Zealand, Norway, South Africa, Slovak Republic, Spain, Switzerland, the United Kingdom, the United States of America, Poland, Lithuania, Latvia and Portugal were computed.
Holstein data were included in this evaluation.

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

mas: BEL, CAN, DEU, ESP, FRA, DFS, GBR, ITA, NLD, POL scs: BEL, CAN, DEU, ESP, FRA, DFS, GBR, ITA, NLD, POL

CHANGES IN NATIONAL PROCEDURES

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

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. 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 sharing Nov 2013

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 DEU DFS 20150812 FRA 20150814 GBR 20150719 NLD 20150801 20150707 ITA 20150401 BET. 20150723 ESP POT. 20150701 ______

Table 2.

Number of bulls in reference population for scs ______ CAN 26294.0 DEU 1506.0 31400.0 DFS 1391.0 26959.0 27460.0 FRA 1751.0 26243.0 23404.0 28448.0 GBR 24606.0 1326.0 1210.0 1481.0 24713.0 NLD 1769.0 27003.0 26774.0 24263.0 1533.0 28927.0 ITA 23799.0 1125.0 990.0 1211.0 23610.0 1243.0 24265.0 745.0 791.0 626.0 835.0 627.0 2040.0 BEL 672.0 820.0 ESP 1400.0 28553.0 25805.0 26392.0 1221.0 26357.0 992.0 775.0 29391.0 137.0 180.0 2627.0 2747.0 136.0 2499.0 206.0 2565.0 132.0 215.0 POL

Number of bulls in reference population for mas

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CAN 23391.0

DEU 1500.0 30272.0

DFS 1384.0 25855.0 26349.0

FRA 1714.0 25133.0 22305.0 27008.0

GBR 22153.0 1322.0 1205.0 1473.0 22241.0

NLD 1737.0 25917.0 25694.0 23089.0 1523.0 27737.0

ITA 21338.0 1122.0 987.0 1203.0 21154.0 1234.0 21791.0

BEL 670.0 820.0 745.0 791.0 624.0 835.0 625.0 2037.0

ESP 1393.0 27472.0 24729.0 25316.0 1217.0 25300.0 989.0 775.0 28293.0

POL 136.0 2499.0 206.0 2565.0 132.0 215.0 137.0 180.0 2627.0 2747.0
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