INTRODUCTION
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The latest genomic routine international evaluation for workability traits took place as scheduled at the Interbull Centre. Data from 6 countries were included in this evaluation.

International genetic evaluations for workability traits of bulls from Austria-Germany, Canada, Denmark-Finland-Sweden, France, Italy, Netherlands, Norway and Switzerland were computed.

Holstein data were included in this evaluation.

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

msp: CAN, DEU, FRA, DFS, GBR, NLD
tem: , , , DFS, GBR, NLD

CHANGES IN NATIONAL PROCEDURES
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Changes in the national genetic evaluation of workability traits are as follows:

DFS (HOL) New method of calculating reliabilities

INTERBULL CHANGES COMPARED TO THE DECEMBER ROUTINE RUN
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No changes in Interbull procedures

DATA AND METHOD OF ANALYSIS
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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
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The international genetic evaluation procedure is based on international work described in the following scientific publications:


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_gwdf 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 December 2015

<table>
<thead>
<tr>
<th>Country</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAN</td>
<td>20151201</td>
</tr>
<tr>
<td>DEU</td>
<td>20151201</td>
</tr>
<tr>
<td>DFS</td>
<td>20151103</td>
</tr>
<tr>
<td>FRA</td>
<td>20151204</td>
</tr>
<tr>
<td>NLD</td>
<td>20151201</td>
</tr>
<tr>
<td>GBR</td>
<td>20151201</td>
</tr>
</tbody>
</table>

Table 2.

Number of bulls in reference population for msp

- CAN 10859.0
- DEU 1243.0 25408.0
- DFS 1298.0 23960.0 24977.0
- FRA 1467.0 21265.0 21666.0 23077.0
- NLD 1422.0 24169.0 24543.0 21946.0 25655.0
- GBR 9829.0 1102.0 1161.0 1316.0 1273.0 9949.0

Number of bulls in reference population for tem

- DFS 22735.0
- NLD 22430.0 23506.0
- GBR 1119.0 1231.0 9628.0