

INTRODUCTION

This GMACE run includes GEBV data from the following countries:
CAN DEU DFS FRA GBR NLD

Changes in national procedures

Changes in the national genetic/genomic evaluation of workability traits are as follows:

tem First GMACE run for tem, with CAN, GBR and NLD submitting GEBVs
FRA Submitting ofl GEBVs for the first time

DEU There is no longer a distinction nationally between 1st and 2nd crop of daughters (as consequences of genomically proven bulls), thus type of proof is either 11 (German bull) or 21 (foreign bull), there are quite a number of bulls mentioned as "missing", however most of these appear now with another (correct) ID, these are mostly danish bulls

INTERBULL CHANGES COMPARED TO THE MARCH ROUTINE RUN

No changes in Interbull procedures

SCIENTIFIC LITERATURE

The GMACE procedure is based on the following scientific publications:

GMACE implementation:

- Sullivan, P.G. and VanRaden, P.M. 2010. Interbull Bulletin 41:3-7
- Sullivan, P.G. et al., 2011. Interbull Bulletin 44: 87-94
- Sullivan, P.G. and Jakobsen, J.H. 2012. Interbull Bulletin 45: 3-7.
- VanRaden, P.M. and Sullivan, P.G. 2010. Gen. Sel. Evol. 42: 7
- Sullivan, P.G. 2013. GMACE reliability approximation. Interbull Bulletin 47: 1-4
- Sullivan, P.G. 2013. GMACE variance estimation. Interbull Bulletin 47: 5-9
- Sullivan, P.G. 2013. GMACE weighting factors. Interbull Bulletin 47: 10-14.

International genetic evaluation computation:

- Schaeffer. 1994. J. Dairy Sci. 77:2671-2678
- Klei, 1998. Interbull Bulletin 17:3-7

Verification and Genetic trend validation:

- Klei et al., 2002. Interbull Bulletin 29:178-182.
- Boichard et al., 1995. J. Dairy Sci. 78:431-437

Weighting factors:

- Fikse and Banos, 2001. J. Dairy Sci. 84:1759-1767

De-regression:

- Sigurdsson and G. Banos. 1995. Acta Agric. Scand. 45:207-219
- Jairath et al. 1998. J. Dairy Sci. Vol. 81:550-562

Genetic parameter estimation:

- Klei and Weigel, 1998, Interbull Bulletin 17:8-14
- Sullivan, 1999. Interbull Bulletin 22:146-148

Post-processing of estimated genetic correlations:

- Mark et al., 2003, Interbull Bulletin 30:126-135
- Jorjani et al., 2003. J. Dairy Sci. 86:677-679
- <https://wiki.interbull.org/public/rG%20procedure?action=print&rev=17>

Time edits

- Weigel and Banos. 1997. J. Dairy Sci. 80:3425-3430

International reliability estimation

- Harris and Johnson. 1998. Interbull Bulletin 17:31-36

NEXT ROUTINE INTERNATIONAL EVALUATION

According to time schedule in <http://www.interbull.org/ib/servicecalendar>

NEXT TEST INTERNATIONAL EVALUATION

According to the time schedule on <http://www.interbull.org/ib/servicecalendar>

PUBLICATION OF INTERBULL GMACE RUN

Rules regarding publication of test evaluations should be observed.

Table 1. National evaluation dates in GMACE run August 2014

Country	Date
CAN	20140801
DEU	20140812
DFS	20140812
FRA	20140814
NLD	20140801
GBR	20140801

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Table 2.

Number of bulls in reference population for	msp
CAN	9873.0
DEU	1009.0 24291.0
DFS	924.0 22392.0 22660.0
FRA	1157.0 19657.0 19305.0 20936.0
NLD	1043.0 22324.0 21917.0 19497.0 22734.0
GBR	8658.0 865.0 790.0 1003.0 897.0 8741.0

Number of bulls in reference population for	tem
CAN	9566.0
NLD	1027.0 20948.0
GBR	8482.0 885.0 8563.0