



National Use of Interbull GMACE Results - Questionnaire Summary

V. Palucci

Wednesday February 25, 2015, Industry Meeting , Niedersachsenhof, Verden

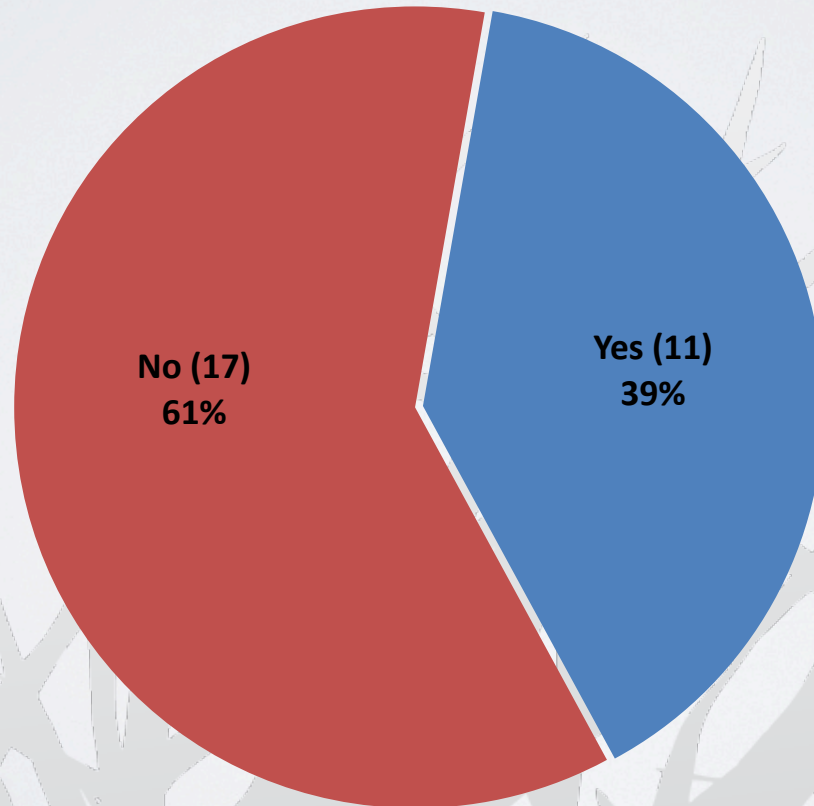


Questionnaire: General information

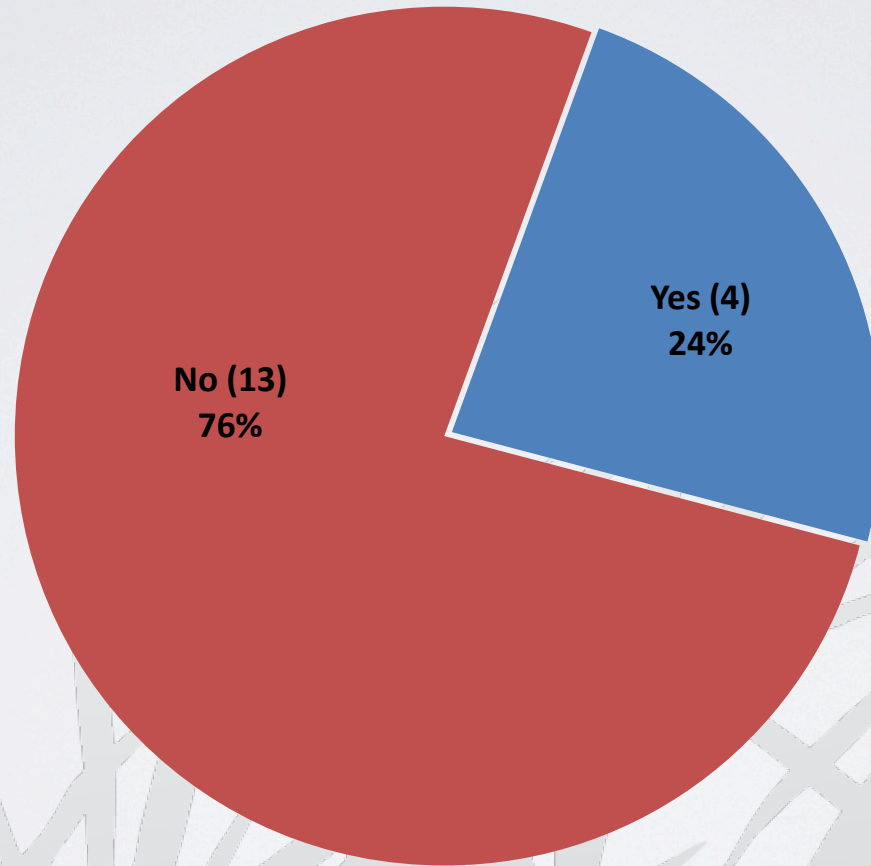
- A questionnaire was sent out to each country's representative for the Holstein breed
 - **31** invitations sent, **27** responses received
- The questionnaire contained two different sets of questions depending on the answer provided on the very first question.



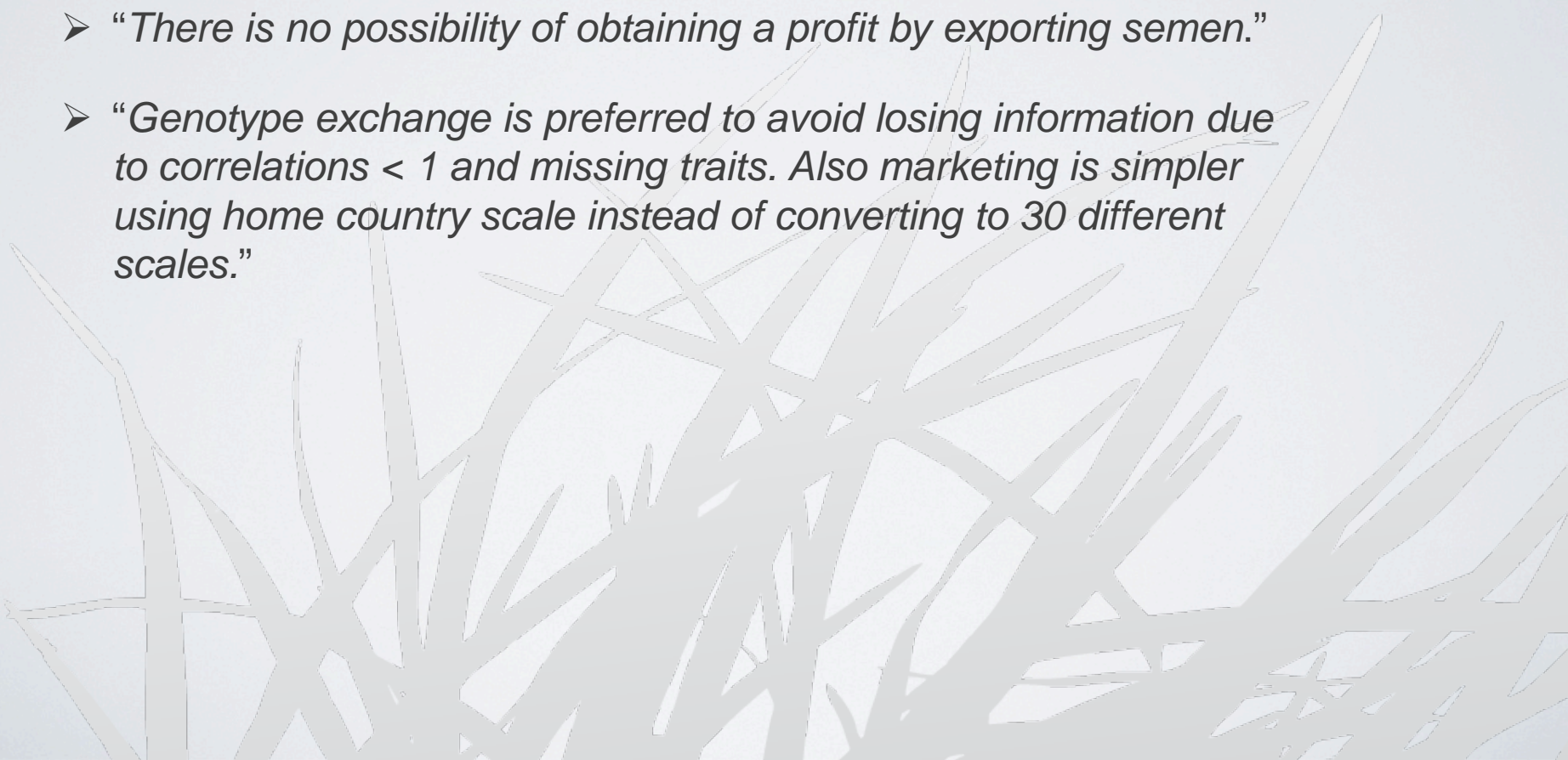
Does your country provide genomic breeding values to GMACE?



Do you validate your genomic national system via GEBV test?

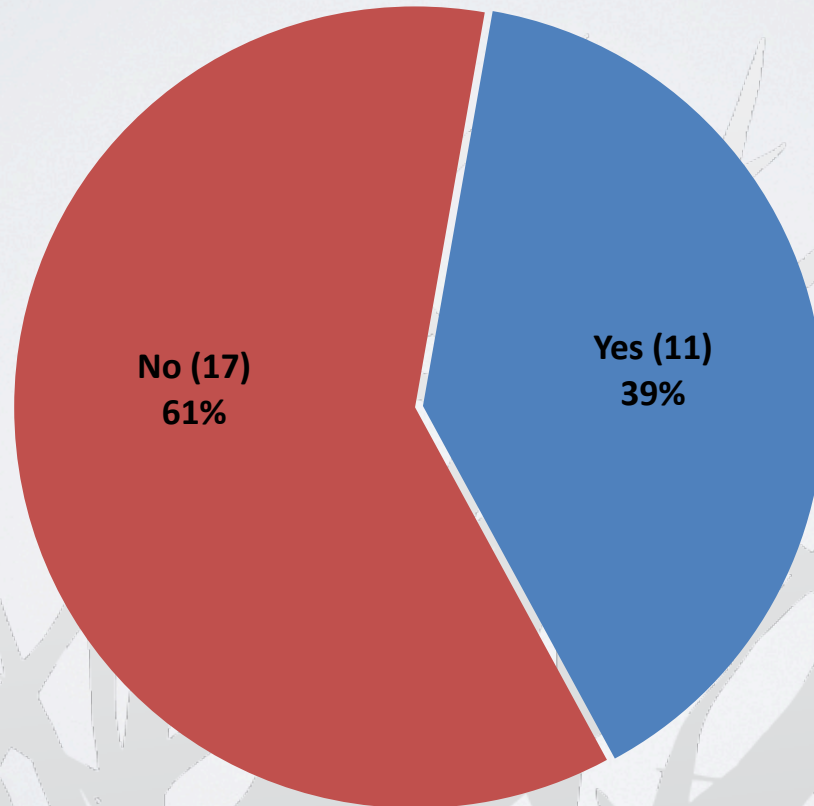


What is the reason for not providing genomic breeding values to GMACE?

- *“We just started computing GEBV within the last year, and they are computed in the Netherlands”*
 - *“There is no possibility of obtaining a profit by exporting semen.”*
 - *“Genotype exchange is preferred to avoid losing information due to correlations < 1 and missing traits. Also marketing is simpler using home country scale instead of converting to 30 different scales.”*
- 



Does your country provide genomic breeding values to GMACE?

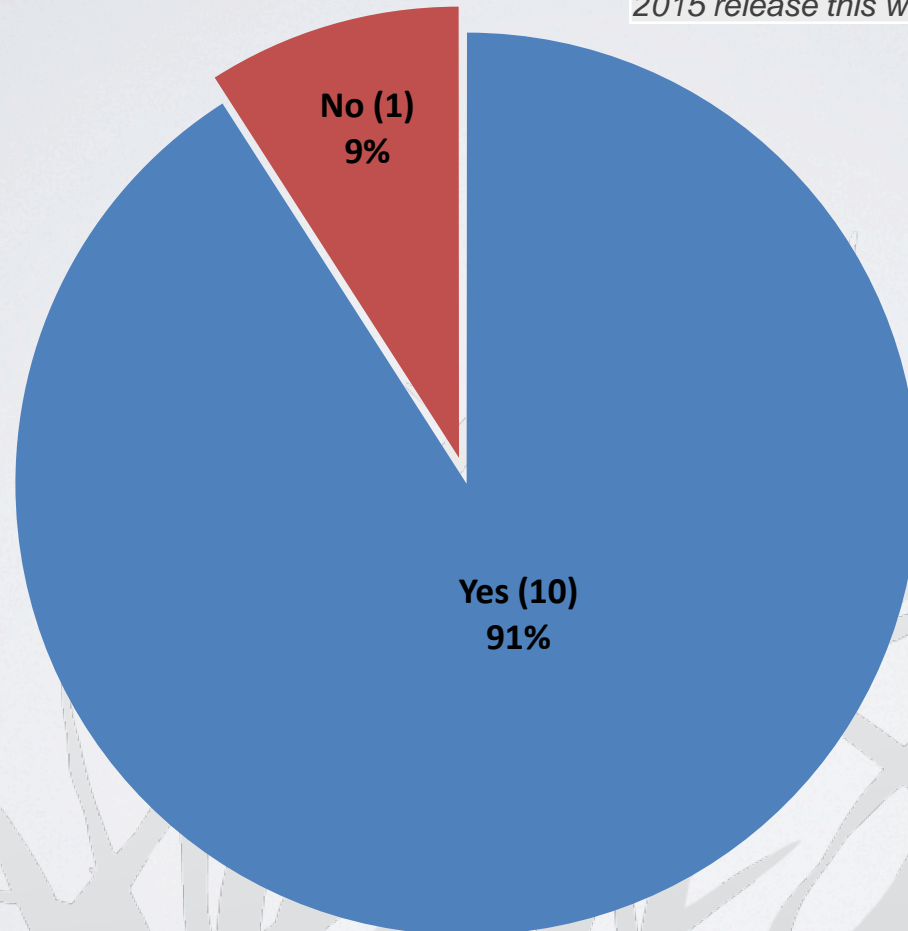


Who are the responsible persons/institutions to contact?

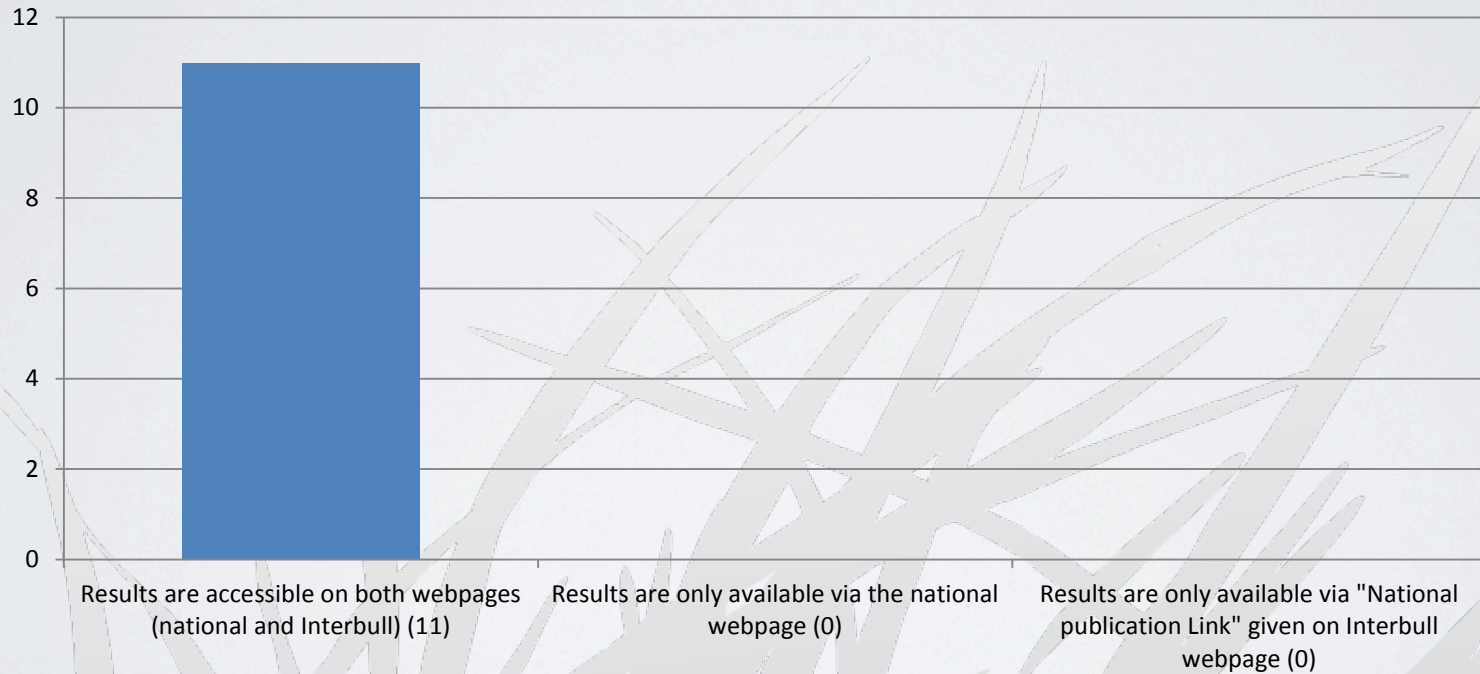
COUNTRY	ORGANIZATION	CONTACT PERSON	EMAIL
AUSTRALIA	ADHIS - Australian Dairy Herd Improvement Scheme	Gert Nieuwhof	gnieuwhof@adhis.com.au
BELGIUM	ULg-GxABT - Animal Breeding and Genetics group	Nicolas Gengler	nicolas.gengler@ulg.ac.be
CANADA	CDN – Canadian Dairy Network	Brain VanDoormal	Brian@cdn.ca
DENMARK SWEDEN FINLAND	NAV - Nordic Cattle Genetic Evaluation	Gert Pedersen Aamand & Ulrik Sander Nielsen	GAP@seges.dk USN@seges.dk
FRANCE	INRA - INSTITUTE DE L'ELEVAGE	Julie Promp & Sophie Mattalia	julie.promp@idele.fr sophie.mattalia@idele.fr
GERMANY	VIT - United Data Systems	Stefan Rensing & Friedrich Reinhardt	zws@vit.de
GREAT BRITAIN	DAIRYCO -	Marco Winters	Marco.Winters@dairyco.ahdb.org.uk
ITALY	ANAFI – Italian's Breeders Association for Holstein	Raffaella Finocchiaro	ricercasvil@anafi.it
NETHERLANDS	CRV	Gerben de Jong	AEU@crv4all.com
POLAND	NIAP - National Institute of Animal Production	Andrzej Zarnecki	rzzarnec@cyf-edu.kr.p
SPAIN	CONAFE - Confederation of Spanish Holstein Associations	Juan Pena	Juan.pena@gmail.com

Are GMACE breeding values publicly available via Internet? If not, why?

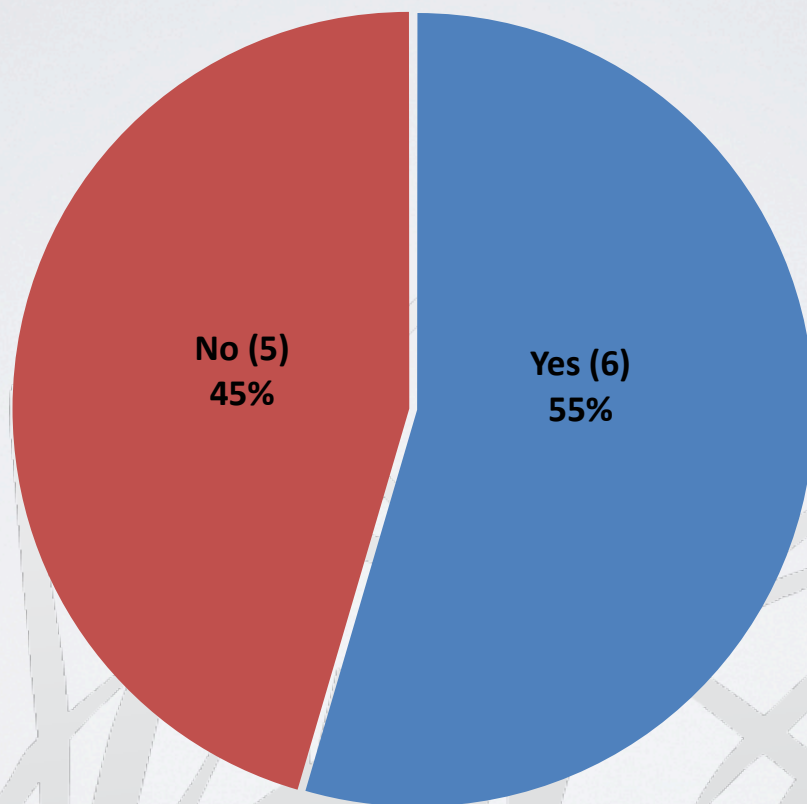
Not yet directly (has to be requested), with the April 2015 release this will be the case.



Can GMACE breeding values also be found directly visiting the national web pages for publication of bulls or only by using the "National publication link" from the Interbull webpage?



Do you publish GEBV of all bulls distributed with routine GMACE evaluation?

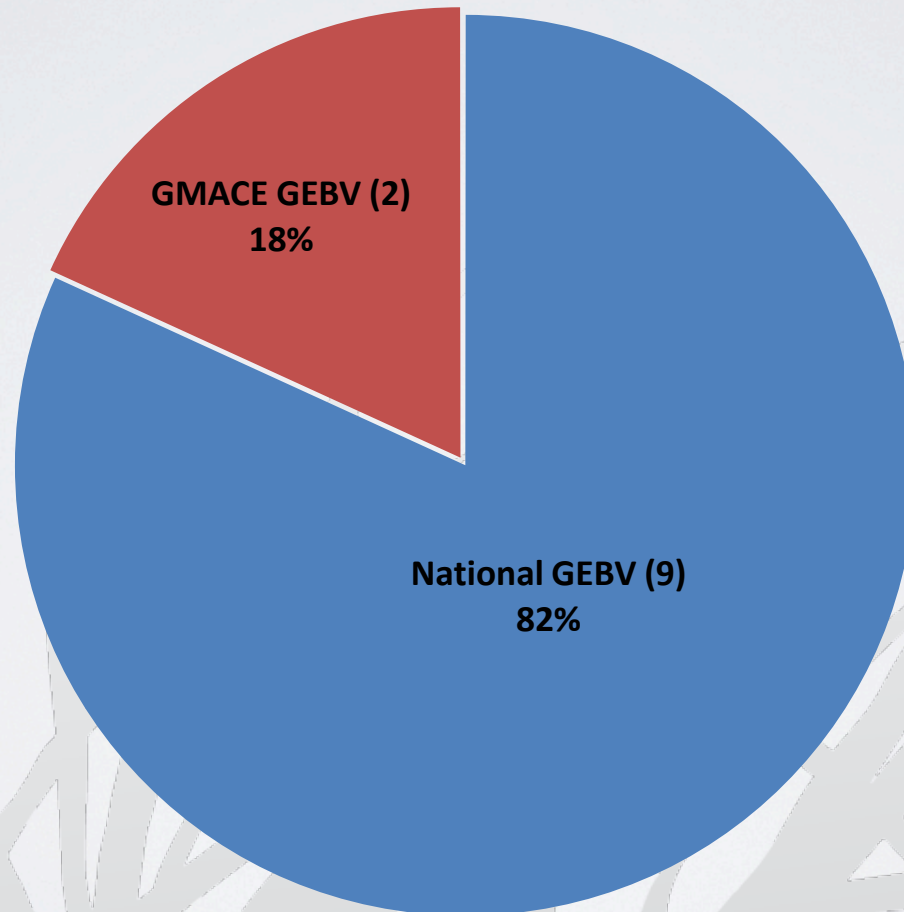


Comment to:

“Do you publish GEBV of all bulls distributed with routine GMACE evaluation? If not, why?”

- *Not yet, in April 2015*
- *Bulls that have national (non-genomic) BVs are excluded from the GMACE publication*
- *Only published if we have not got an official UK GPTA already*
- *GMACE evaluations are not published for young bulls with an official national genomic evaluation based on its own genotype*
- *If we have genotype of the bull and the AI center pays the fee we directly calculate national GEBV*

In case there are national GEBV and GMACE breeding values, which GEBV do you publish?

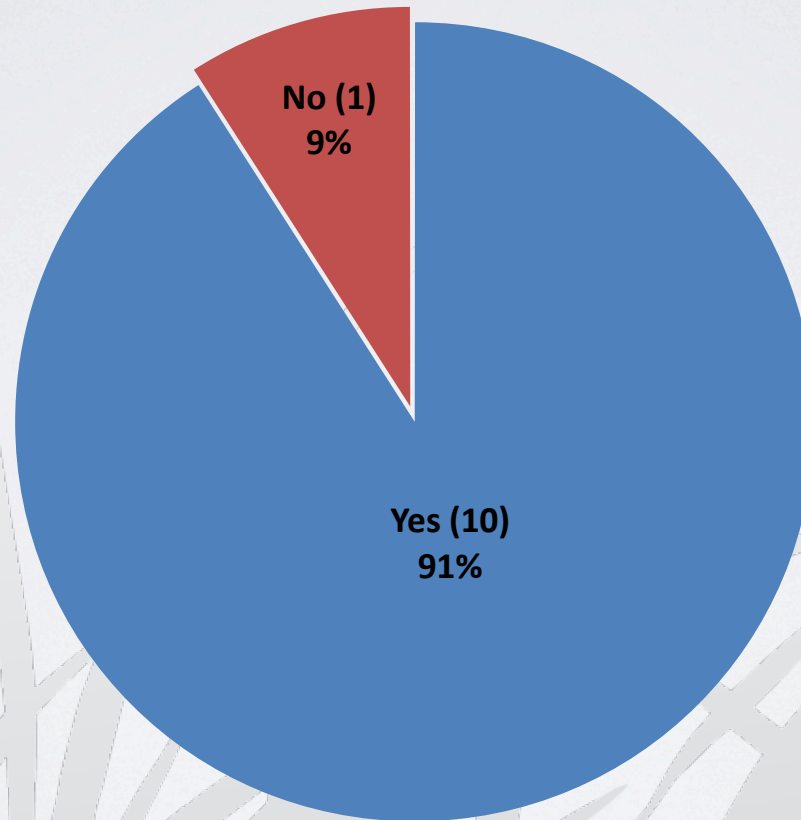


Comment to:

“In case there are national GEBV and GMACE breeding values, which GEBV do you publish? ?”

- *“GMACE result is published if the reliability of the GMACE proof is at least 10% higher than the reliability of the national GEBV.”*
- *“National GEBV for bulls with a national AI-code”*
- *“Some use is made of such data, but only on very few (less than 1% of active genomic sires)”*
- *“National GEBV if the AI center pays the fee”*
- *“National GEBV is published for bulls belonging to French or Eurogenomics AI companies while GMACE is published for other bulls.”*

Are summarizing indices up to total merit index published for foreign GMACE bulls?



Comment to

“Are summarizing indices up to total merit index published for foreign GMACE bulls? ”

- *“We do not publish the total merit index £PLI. To obtain an official £PLI we request that the genotype is supplied to us in order to publish the official UK GPTA and PLI.”*
- *“GMACE evaluations are labelled specifically to be differentiated from genomic evaluations based directly on the animals genotype”*
- *“For all bulls that have the majority of GEBV included in our total merit index available”*
- *“Only if GEBVs for all the traits used to compute total merit are available.”*

How is acceptance of GMACE breeding values? Do, for example, importers/distributors use GMACE breeding values in promoting (e.g. catalogues, advertisement, ...)?

- **AUS** *“GMACE figures are not actively used”*
- **BEL** *“Efforts are made to explain GMACE to stakeholders and maximize its acceptance. High demand for genomic bulls”*
- **CAN** *“Acceptance of the published results has been good for identifying superior foreign genomic young bulls.”*
- **DEU** *“For most Young Import bulls national GEBV are in used. No GEBVs are published for North American bulls so few foreign bulls with only GMACE results are left. ”*
- **DFS** : *“To some degree”*

How is acceptance of GMACE breeding values? (cnt'd)

- **ESP** *“We have started publishing GMACE only very recently.”*
- **FRA** *“Not much use of GMACE results for import/export”*
- **GBR** *“Very low level of acceptance. Some use is made of the data, but only on very few (less than 1% of active genomic sires)”*
- **ITA** *“GMACE GEBV is reported in all official ANAFI documents. Importers and distributors use those info in their catalogues.”*
- **NLD** *“GMACE proofs are official proofs and are used by importers (although not for 100%)”*
- **POL** *“GMACE breeding values are extensively used for promotion”*



**Thank You All For Your
Collaboration!!!**