



Interbull Centre Activity Report 2013-2014

Berlin, Germany – May 20-21, 2014



Interbull Centre

- ❖ Section of the Department of Animal Breeding and Genetics of the Swedish University of Agricultural Sciences (SLU)
- ❖ Operational unit of the ICAR permanent sub-committee Interbull
- ❖ European Union Reference Laboratory (EURL) for Zootechnics (Bovine Breeding).



Swedish University of
Agricultural Sciences





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PERSONNEL



Interbull Centre

- ❖ Erling Strandberg
- ❖ João Dürr
- ❖ Hossein Jorjani
- ❖ Eva Hjerpe
- ❖ Valentina Palucci
- ❖ Carl Wasserman
- ❖ Mohammad A. Nilforooshan
- ❖ **Petri Pennanen**
- ❖ Dan Englund
- ❖ Gerald Jansen (consultant)
- ❖ Jette Jakobsen
- ❖ Anne Loberg (PhD student)



SERVICE AND OPERATIONS



Evaluation runs in the period

❖ Test runs

- September 2013
- January 2014

❖ Routine runs

- December 2013
- April 2014



Validation of National EBVs and GEBVs

- ❖ Methods I, II and III
 - Follow the official test evaluations calendar
- ❖ The GEBV test
 - Any time
- ❖ Validation software
 - GEBV test: 2013
 - Methods I, II, III: 2014 - *Valentina Palucci*
- ❖ Mendelian sampling trend validation - *Valentina Palucci*



Populations joining services

Breed Group	Production	Conformation	Udder Health	Longevity	Calving	Female Fertility	Workability	TOTAL
Brown Swiss		GBR						1
Guernsey								0
Holstein				ZAF, POL	NZL			3
Jersey				IRL		IRL		2
Red Dairy Cattle				IRL	IRL, NZL	USA		4
Simmental	GBR							1
TOTAL	1	1	0	4	3	2	0	11



Populations in MACE (April 2014)

Breed Group	Production (3)	Conformation (23)	Udder Health (2)	Longevity (1)	Calving (4)	Female Fertility (5)	Workability (2)	TOTAL (40)	Number of publishable proofs (production)
Brown Swiss	10	9	10	10	5	9	6	60	9 885
Guernsey	6	4	6	6	0	6	0	28	1 060
Holstein	31	25	29	21	16	20	9	151	135 646
Jersey	11	9	8	9	0	9	4	50	11 055
Red Dairy Cattle	14	9	13	10	7	11	5	69	14 388
Simmental	12	0	10	4	0	0	0	26	28 251
TOTAL	84	56	76	60	28	55	24	383	200 285



GMACE

- ❖ Pilot study – Dec 2013
 - No genomic variance estimation step
 - Genomic reliabilities as a combination of predicted reliabilities and national reliabilities
- ❖ Bull controlling country list

Populations in April 2014	Production (3)	Conformation (23)	Udder Health (2)	Longevity (1)	Calving (4)	Female Fertility (5)	Workability (2)	TOTAL (40)	Number of publishable proofs (production)
Holstein	10	10	9	7	6	3	5	50	7149



Intergenomics

- ❖ *New validation run*
- ❖ *New service user: CAN*
- ❖ *New cooperation agreement (2.0)*
 - Sharing of all male genotypes available among the participating organizations, including young bulls
 - Adoption of the genomic evaluations run at the national centers as "Intergenomics results"
 - Establishment of quality control procedures to assure same standards for all participating scales

Services and Operations



- ❖ Streamlining of operations – *Eva Hjerpe*
- ❖ Quality assurance
- ❖ Interbull Bulletin
- ❖ New Interbull webpage
 - New discussion forum



Meetings

- ❖ 2013 Interbull Meeting
 - Nantes, France
 - August 23-25, 2013
 - 30 years of Interbull



RESEARCH & DEVELOPMENT

- ❖ MACE robust to bias in trends
 - INRA & Institute de l'Elevage
- ❖ World Guernsey Cattle Federation



WORK PLANS



Services

Routine Runs	
Year	Release date
2014	August 12
	December 2
2015	April 7
	August 11
	December 1

Test Runs	
2014	September
2015	January
	September



Future Meetings

- ❖ The 2015 Interbull meeting will precede the 2015 ADSA[®]-ASAS Joint Annual Meeting
 - Orlando, Florida, USA, July 9 to 12, 2015.
- ❖ The 2016 ICAR/Interbull meeting
 - Puerto Varas, Chile, October 24 to 28, 2016



Thanks to all our collaborators!

The Interbull Centre Team