

French (quick) feed back on first calving implementation run



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Comparison between ITB and FRA Calving Ease Evaluation results

- Results received February 24th from ITBC
 - CHA and LIM results based on October 2015 data call.
- => Comparison between French national evaluation (Summer 2015) and Interbeef evaluation on the same data.
- => Possible result difference explanations beforehand:
- French national evaluation includes foreign data from different countries (Spain, Italy, Luxemburg...) – data taken as French ones without any distinction.
 - French model on Calving: **BI-TRAIT Model Birth Weight x Calving Ease**

French CAE – BW model

- No genetic parameter difference for France but no BW in Interbeef evaluation

CHA		CAE		BW	
		DIR	MAT	DIR	MAT
CAE	DIR	0.1	- 0.4	0.83	-0.47
	MAT		0.06	- 0.3	0.69
BW	DIR			0.41	-0.48
	MAT				0.1

LIM		CAE		BW	
		DIR	MAT	DIR	MAT
CAE	DIR	0.05	- 0.56	0.69	-0.19
	MAT		0.02	- 0.45	0.28
BW	DIR			0.48	- 0.61
	MAT				0.05

Comparison of the number of French animals available on the French scale

Breed	Specific to FRA	Common	Specific to Interbeef
CHA	875 566	8 837 282	591 620
LIM	431 843	4 693 093	735 758



Animals from other countries participating to French National evaluation => OK



Animals from other countries than France participating to Interbeef

Comparison of the number of French animals available on the French scale

Breed	Specific to FRA	Common	Specific to Interbeef
CHA	875 566	8 837 282 (94%)	591 620 (6%)
LIM	431 843	4 693 093 (86 %)	735 758 (14 %)



Animals from other countries participating to French National evaluation => OK



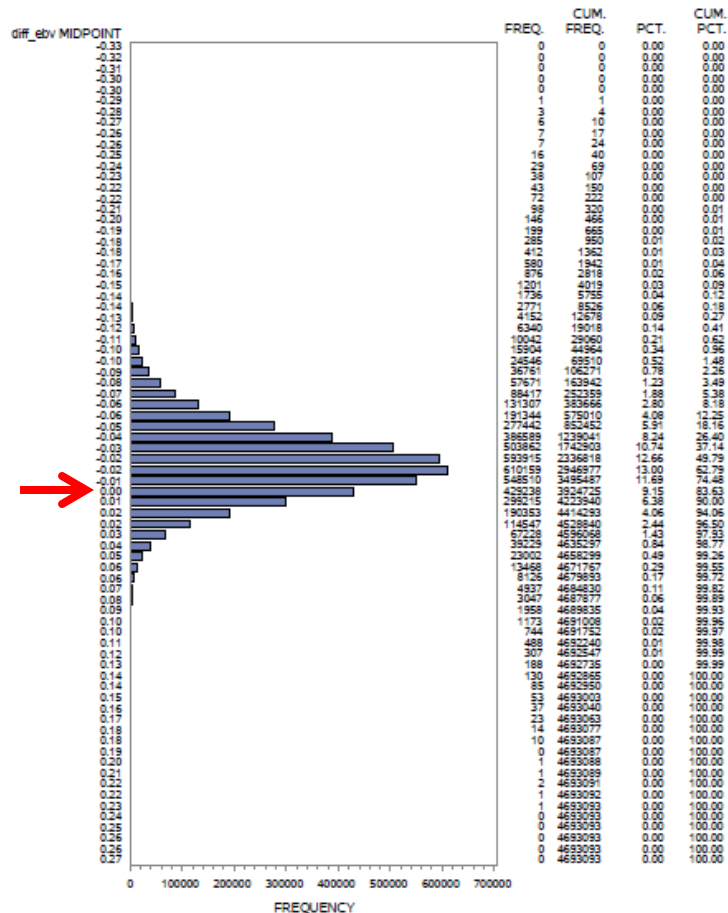
Animals from other countries than France participating to Interbeef

Comparison for different subpopulations for LIM

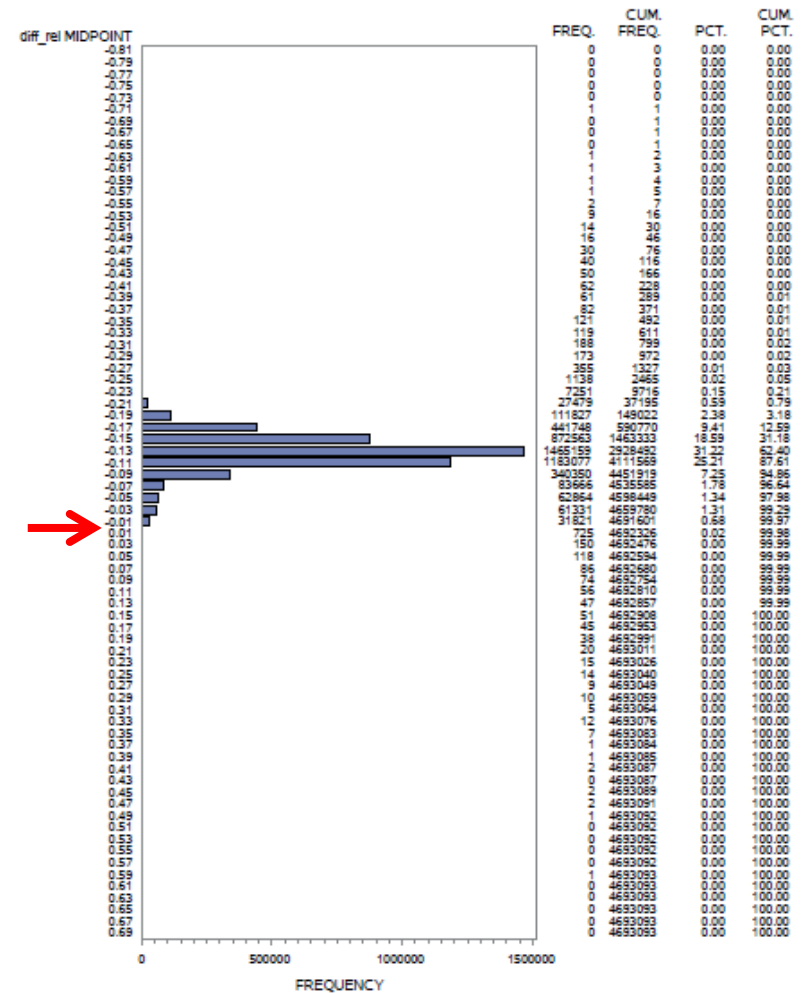
Pop	NB	Type	EBV DIR	EBV MAT	REL DIR	REL MAT
Common animals	4 693 093	r^2	0.69	0.95	0.82	0.98
		difference	-0.02	0.003	- 0.13	- 0.05
FRA sires with only FRA prog	51 226	r^2	0.82	0.89	0.97	0.99
		difference	- 0.02	0.002	- 0.14	- 0.07
FRA sires with REL > 0.5	20 264	r^2	0.90	0.94	0.96	0.99
		difference	-0.02	0.01	-0.10	-0.05
Published bulls in FRA	1743	r^2	0.89	0.94	0.92	0.97
		difference	-0.02	0.002	-0.11	-0.06
Females with > 1 prog	2 155 859	r^2	0.71	0.85	0.95	0.99
		Difference	- 0.02	0.002	-0.14	-0.05

In pictures for common animals – Direct effect

Distribution of EBV differences (EBV_ITB - EBV_FRA) - common animals

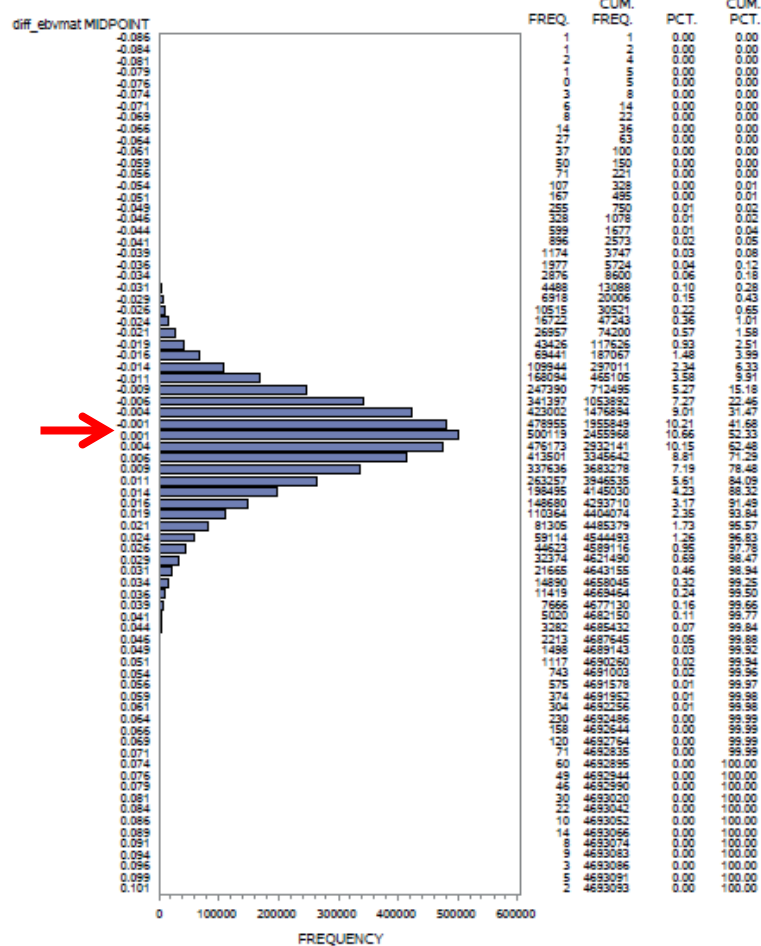


Distribution of rel differences (rel_ITB_FRA - rel_FRA) - common animals

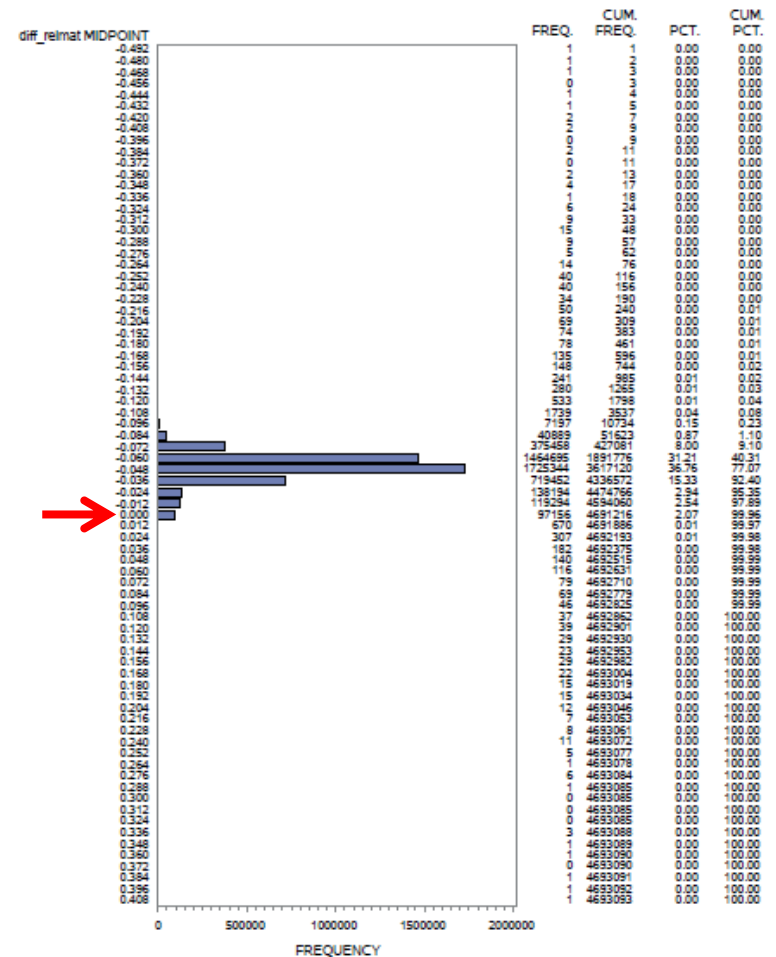


In pictures for common animals – Maternal effect

Distribution of EBVMAT differences (EBVMAT_ITB - EBVMAT_FRA) - common animals

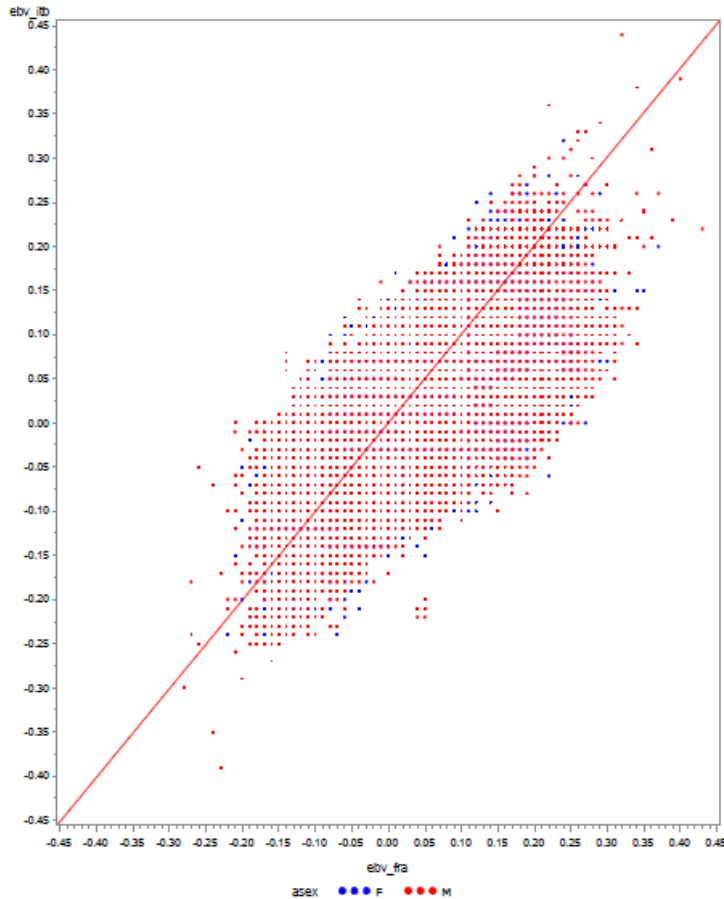


Distribution of relMAT differences (relmat_itb_FRA - relmat_FRA) - common animals

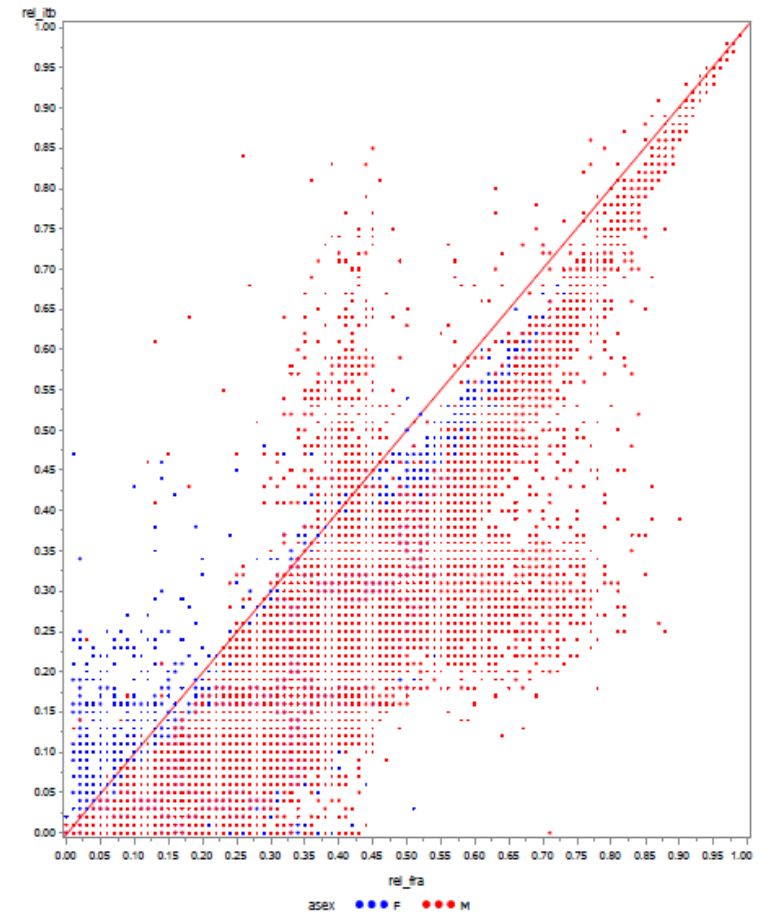


In pictures for common animals – Direct effect

Comparison between ITB EBV and FRA EBV - common animals

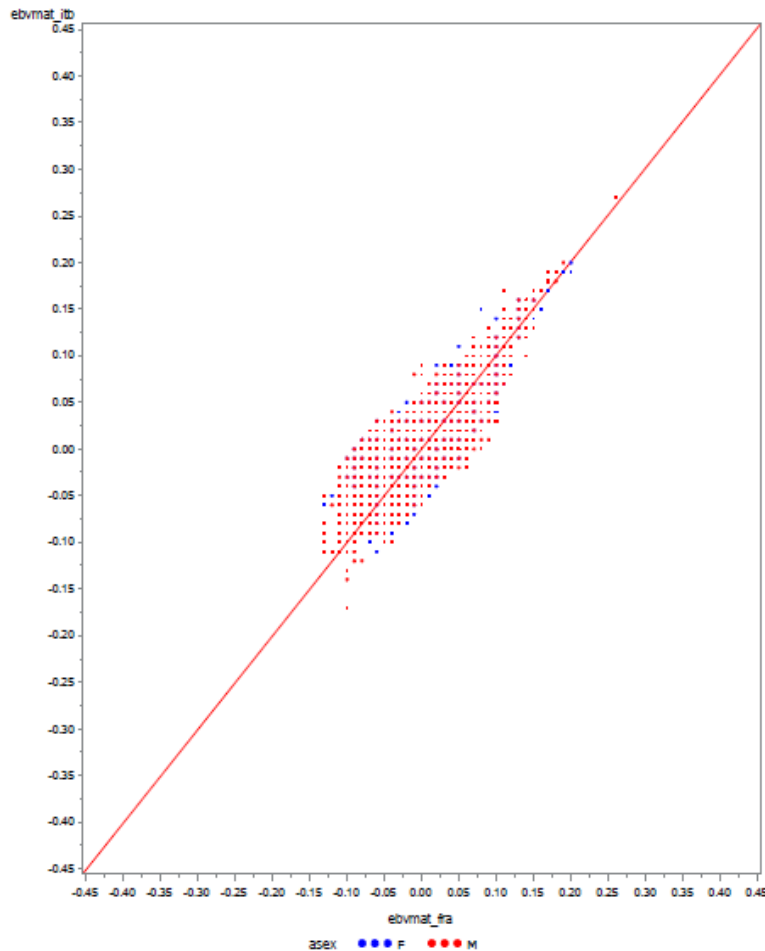


Comparison between ITB rel and FRA rel - common animals

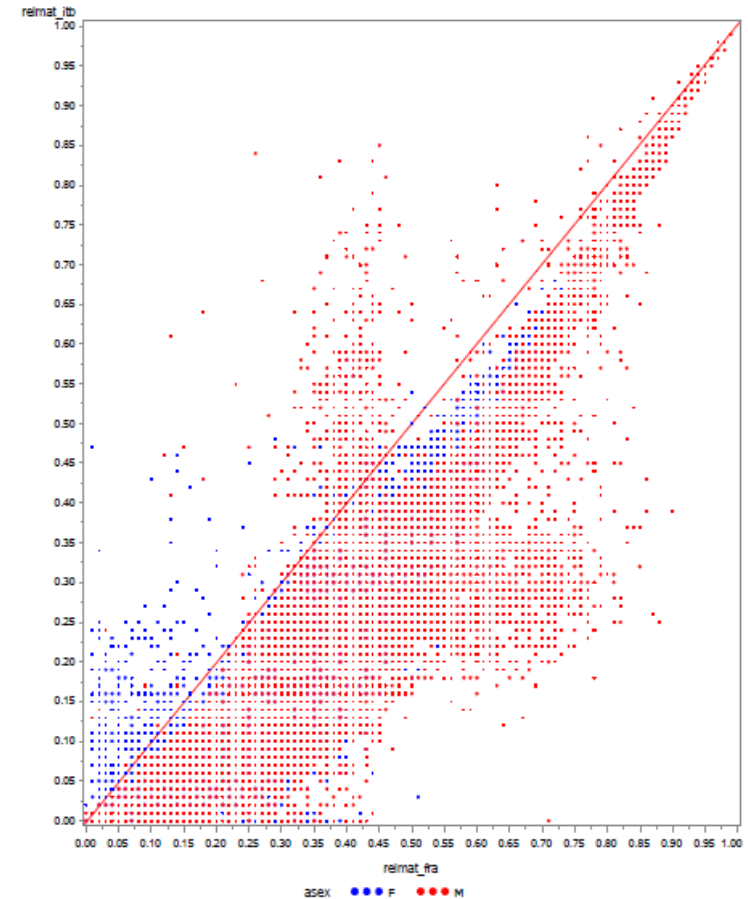


In pictures for common animals – Maternal effect

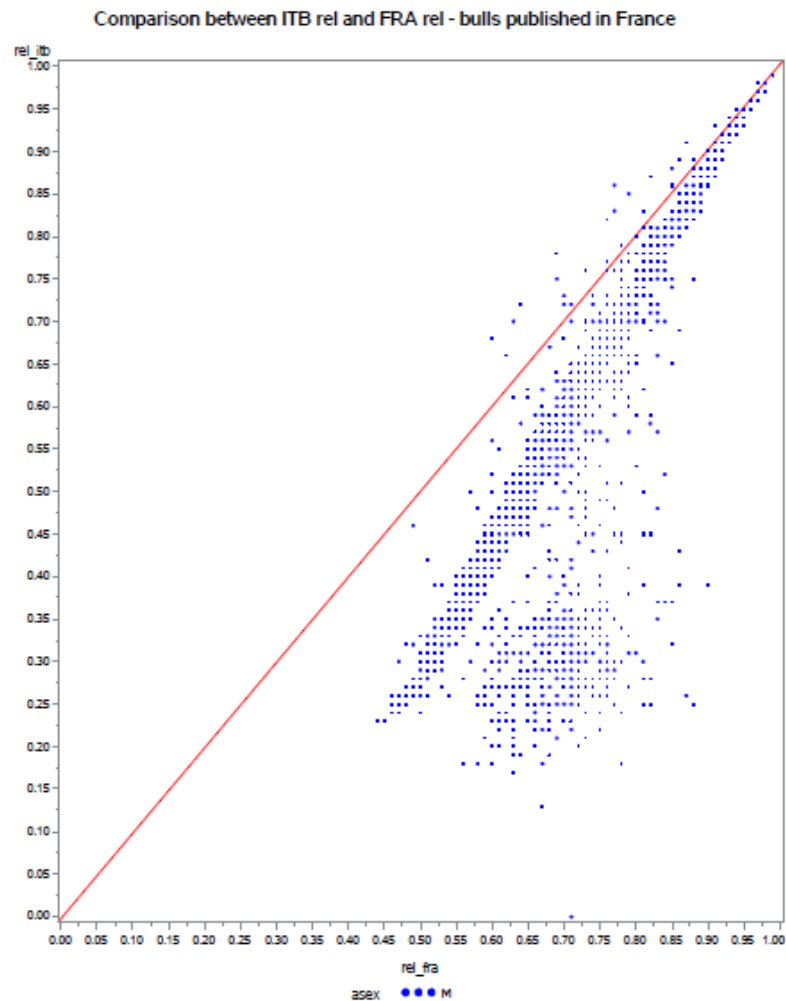
Comparison between ITB EBVMAT and FRA EBVMAT - common animals



Comparison between ITB reIMAT and FRA reIMAT - common animals



REL – Direct effect for bulls published in France LIM

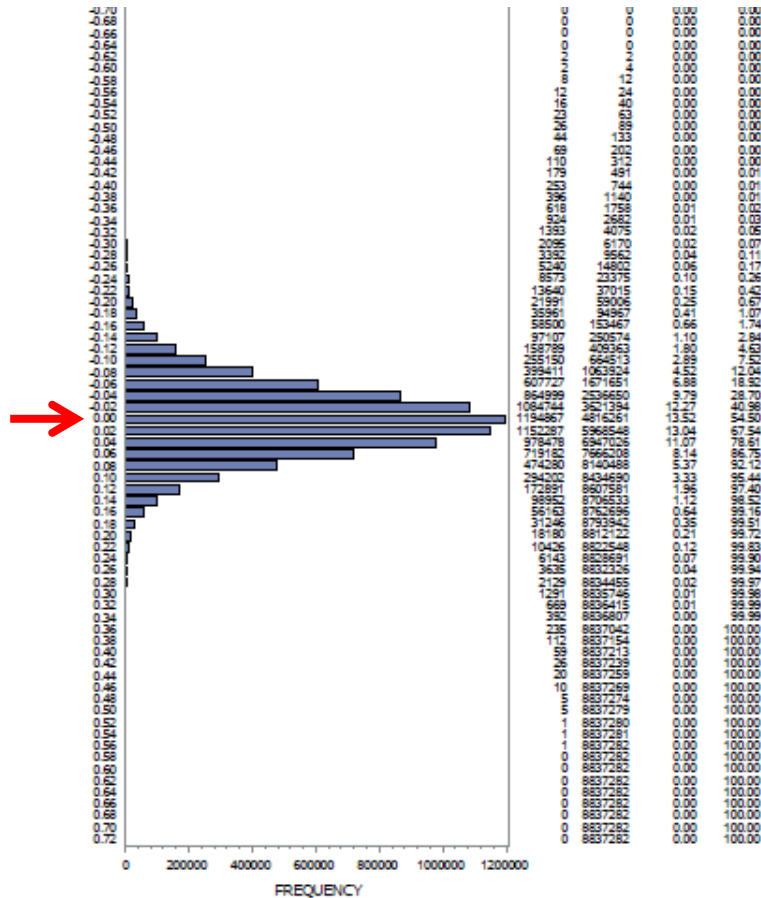


Comparison for different subpopulations for **CHA**

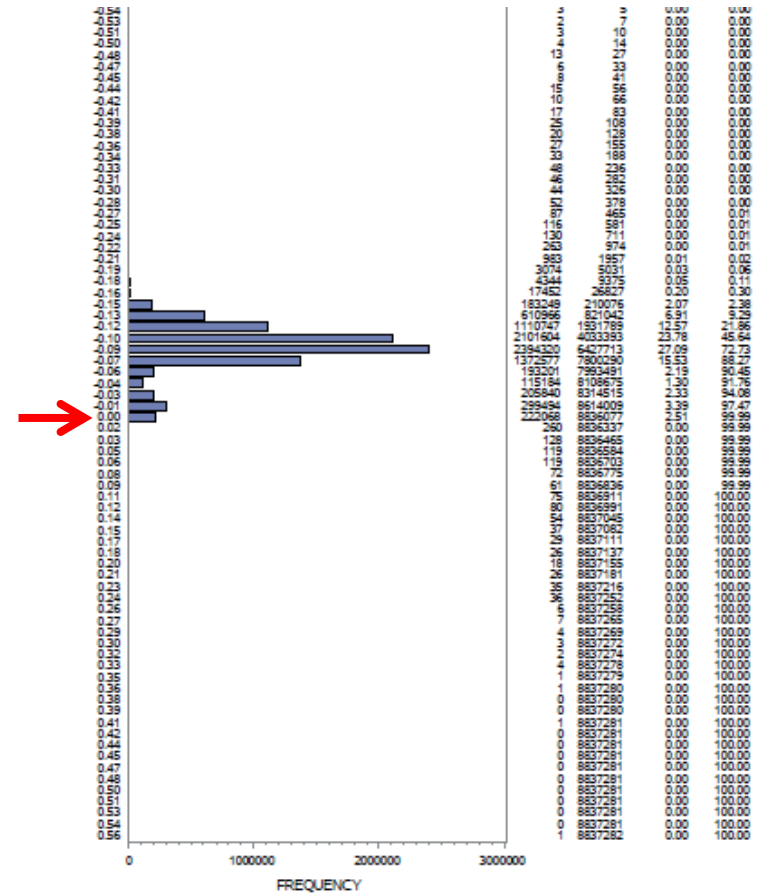
Pop	NB	Type	EBV DIR	EBV MAT	REL DIR	REL MAT
Common animals	8 837 282	r^2	0.84	0.96	0.96	0.997
		difference	0.002	0.005	-0.09	-0.01
FRA sires with REL > 0.5	72 146	r^2	0.92	0.97	0.99	0.997
		difference	0.004	0.003	-0.10	-0.03
Published bulls in FRA	24 486	r^2	0.94	0.98	0.99	0.995
		difference	- 0.004	0.006	-0.08	-0.05
Females with > 1 prog	3 905 012	r^2	0.84	0.97	0.97	0.996
		Difference	0.003	0.005	-0.10	-0.01

In pictures for common animals – Direct effect

Distribution of EBV differences (EBV_ITB - EBV_FRA) - common animals

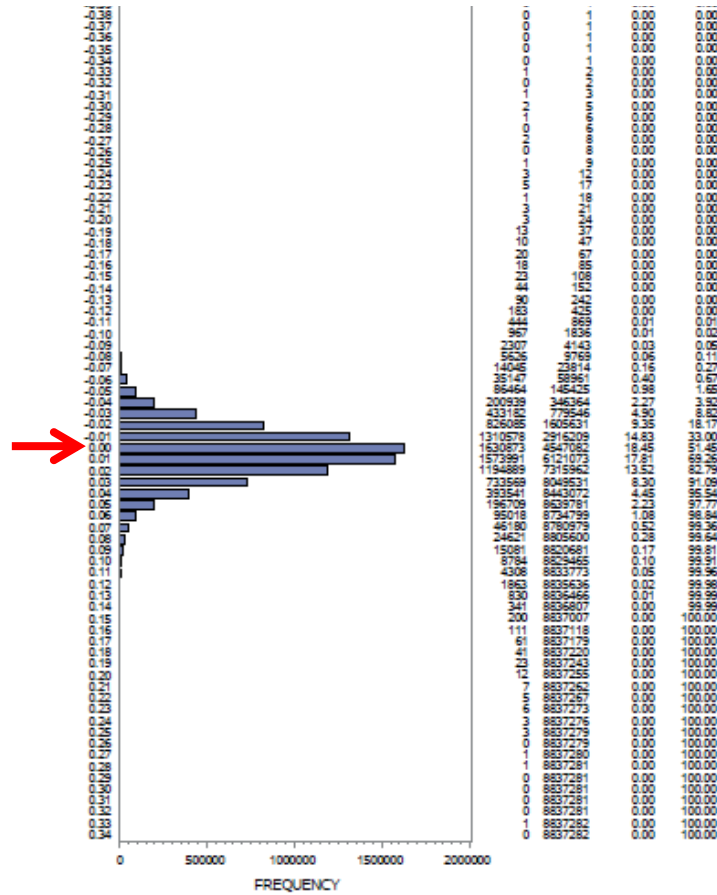


Distribution of rel differences (rel_ITB_FRA - rel_FRA) - common animals

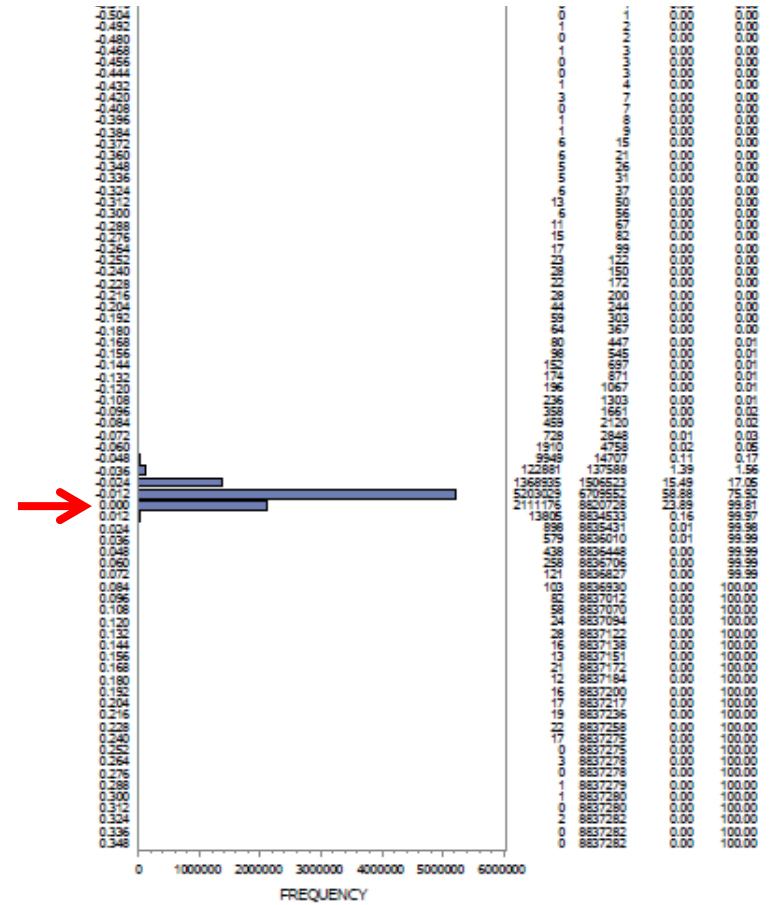


In pictures for common animals – Maternal effect

Distribution of EBVMAT differences (EBVMAT_ITB - EBVMAT_FRA) - common animals



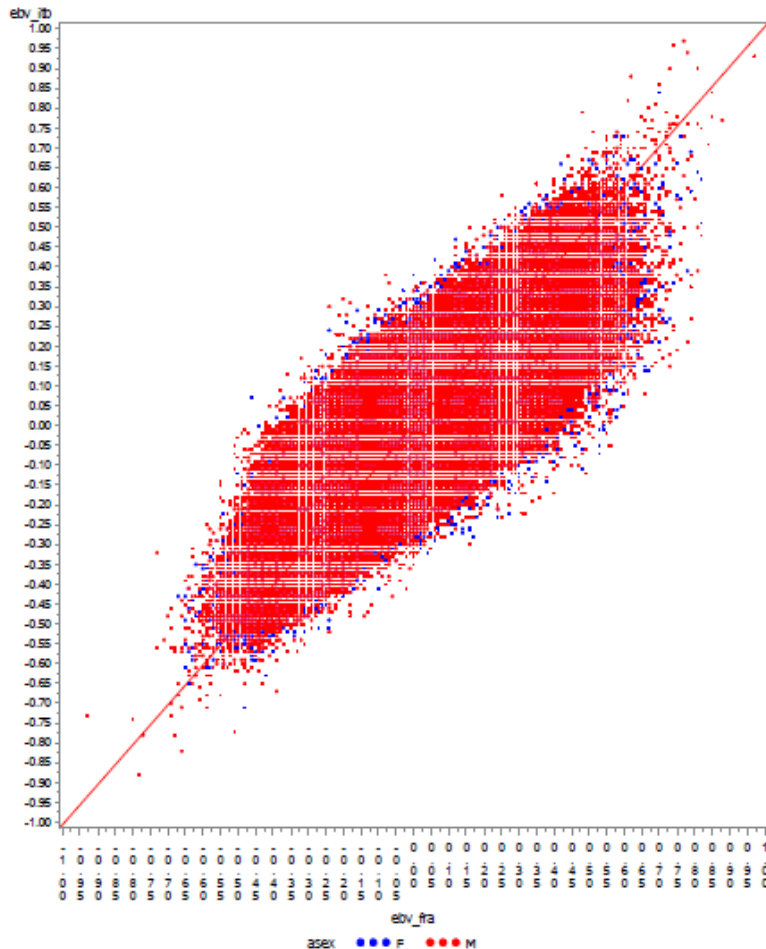
Distribution of relMAT differences (relmat_itb_FRA - relmat_FRA) - common animals



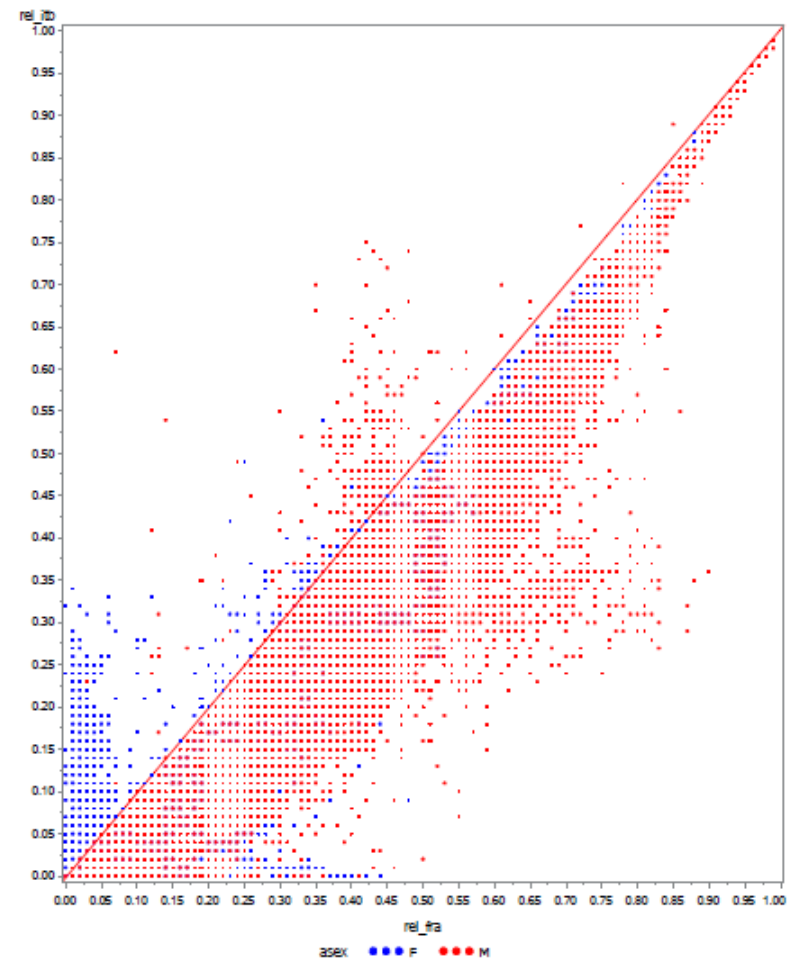
In pictures for common animals – Direct effect

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Comparison between ITB EBV and FRA EBV - common animals

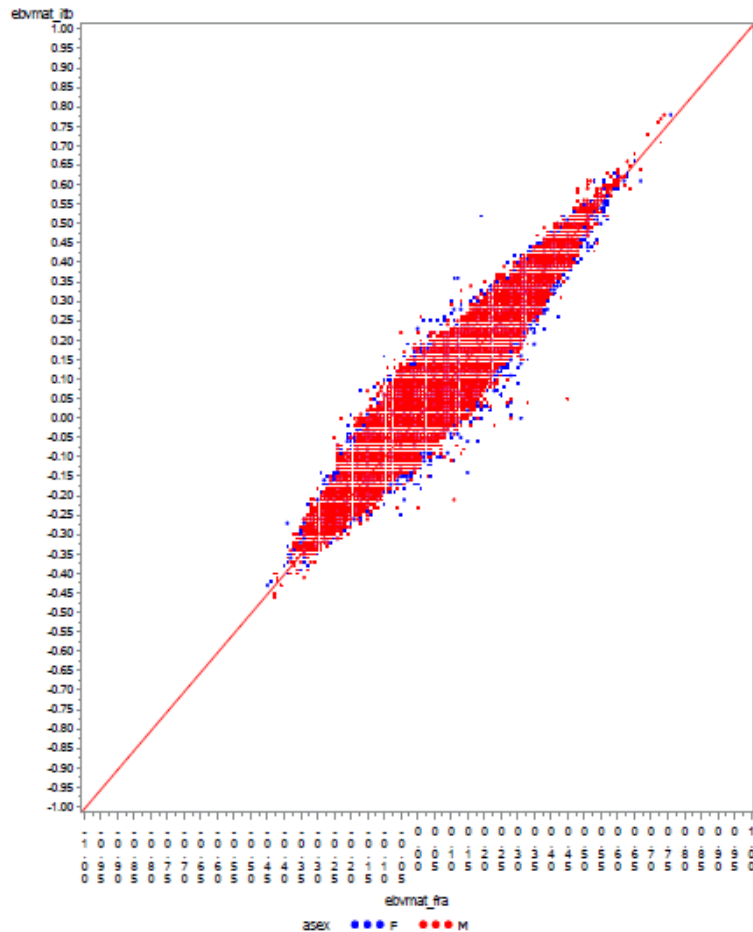


Comparison between ITB rel and FRA rel - common animals

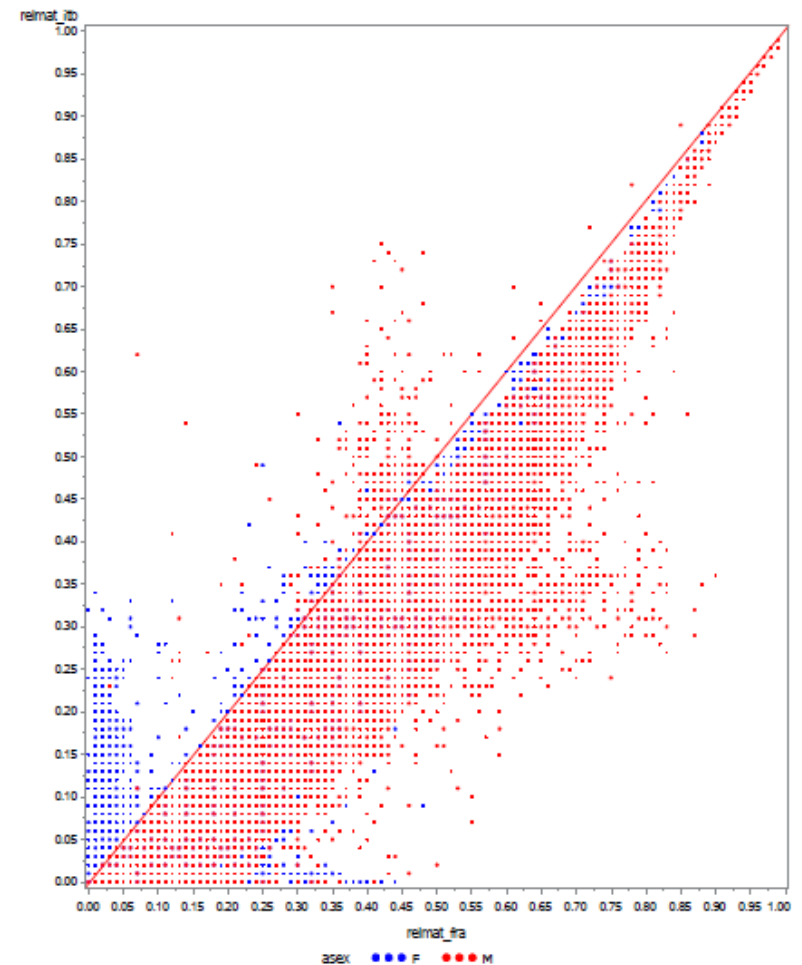


In pictures for common animals – Maternal effect

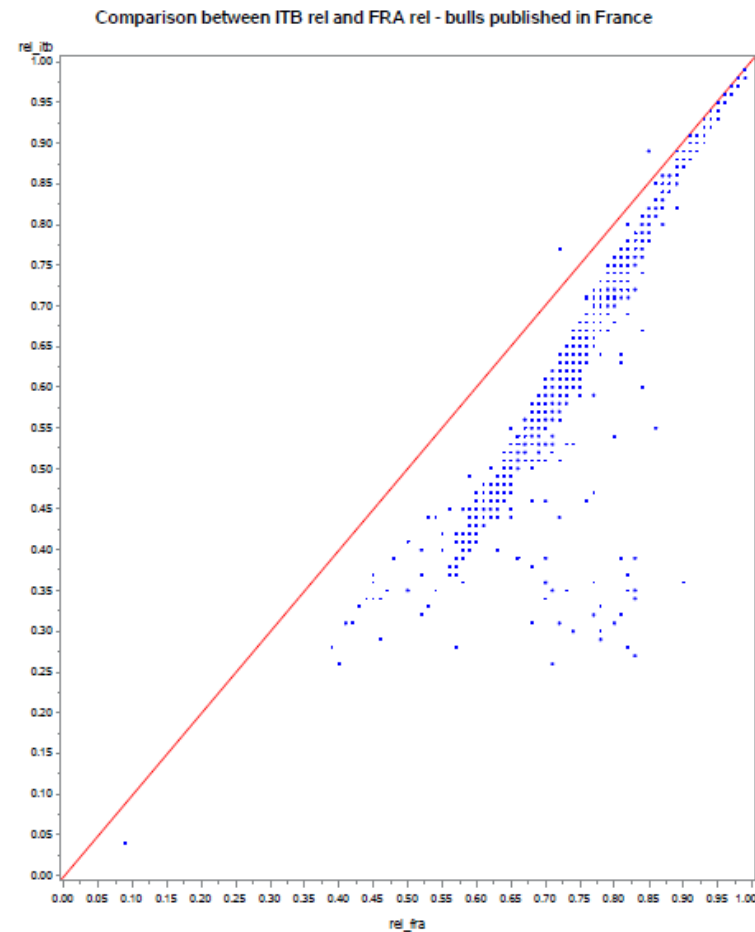
Comparison between ITB EBVMAT and FRA EBVMAT - common animals



Comparison between ITB relMAT and FRA relMAT - common animals



REL – Direct effect for bulls published in France CHA



French feed back conclusion

- Very first check results
- Correlations between EBV's high but high enough with regards to French data amount or for example of subpopulation of bulls with only perf in France
- Correlations between REL too low for all subpopulations.

=> Need to take Birth Weight into account in Interbeef evaluation for France.

Thanks to CZE team for these results.

