

## INTRODUCTION

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The international genetic evaluation for beef, Limousin (LIM), adjusted weaning weight trait took place in winter 2022 at Interbull Centre.

Data from 12 countries were included in the evaluation:  
CZE, DFS\*, GBR, IRL, FRA, DEU, CHE, AUS, SVN, LVA, EST and ITA  
\*) DFS => Populations code for Denmark, Finland and Sweden

## INTERBULL CHANGES COMPARED TO THE PREVIOUS ROUTINE RUN

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\* No changes.

## DATA AND METHOD OF ANALYSIS

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### Pedigree data

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\* Pedigree data were updated by the national evaluation centers on the IDEA interbull database.

### Phenotypic data

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\* Phenotypic data were uploaded by the national evaluation centers on the IDEA interbull database.

### Variance components

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\* Parameters from the previous run were used.

### Publication file

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\* No updates.

### Software

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\* Prediction of genetic merits were performed using Mix99.  
\* Prediction of reliabilities were performed using MTEDC5.

## PUBLICATION OF INTERBEEF ROUTINE RUN

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### DIRECT PUBLICATION RULES

- 1- The proof from any animal with a national official status in a country was considered as official in that respective country.
- 2- Any animal with  $\geq 25$  recorded progeny and reliability  $\geq 0.5$  in at least one scale and with an official status in a country was considered as internationally official in all the countries participating in the analysis.

3- Any animal with  $\geq 25$  recorded progeny and reliability  $\geq 0.5$  in at least one scale and with recorded progeny in more than one country was considered as internationally official in all the countries participating in the analysis.

#### MATERNAL PUBLICATION RULES

- 1-Maternal EBV publishable if direct EBV publishable
  - a) and reliability  $\geq 0.3$ .
  - b) and number of daughters with performance  $\geq 15$ .
  - c) and number of progeny with performance  $\geq 25$ .
- 2-If an animal is publishable /national publication rules in country A, this animal is publishable in country A.
- 3-If an animal fulfills Interbeef publication rules, this animals is publishable in all scales.

#### Variances component

##### Direct additive variances:

CZE_aww	693	(0.37)
DFS_aww	187	(0.17)
ESP_aww	138	(0.26)
GBR_aww	278	(0.34)
IRL_aww	455	(0.35)
FRA_aww	246	(0.35)
DEU_aww	391	(0.25)
CHE_aww	382	(0.27)
AUS_aww	125	(0.15)
SVN_aww	923	(0.36)
LVA_aww	195	(0.14)
EST_aww	322	(0.51)
ITA_aww	171	(0.24)

##### Maternal genetic variances:

CZE_aww	209	(0.11)
DFS_aww	140	(0.13)
ESP_aww	69.9	(0.13)
GBR_aww	60	(0.07)
IRL_aww	199	(0.15)
FRA_aww	70.2	(0.1)
DEU_aww	334	(0.21)
CHE_aww	97.7	(0.07)
AUS_aww	70.6	(0.09)
SVN_aww	508	(0.2)
LVA_aww	39	(0.03)

##### MPE variances

CZE_aww	208	(0.11)
DFS_aww	105	(0.1)
ESP_aww	43	(0.08)
GBR_aww	63	(0.08)
IRL_aww	45	(0.03)
FRA_aww	63	(0.09)

CHE\_aww 76 (0.05)  
 AUS\_aww 81 (0.1)

Random comtemporany group variances:

CHE\_aww 294 (0.21)  
 CZE\_aww 477 (0.26)  
 DEU\_aww 203 (0.13)  
 LVA\_aww 599 (0.43)  
 SVN\_aww 775 (0.3)

Residual variances:

CZE\_aww 377 (0.2)  
 DFS\_aww 662 (0.62)  
 ESP\_aww 294 (0.56)  
 GBR\_aww 421 (0.52)  
 IRL\_aww 647 (0.5)  
 FRA\_aww 354 (0.5)  
 DEU\_aww 719 (0.46)  
 CHE\_aww 587 (0.42)  
 AUS\_aww 546 (0.67)  
 SVN\_aww 626 (0.24)  
 LVA\_aww 590 (0.42)  
 EST\_aww 309 (0.49)  
 ITA\_aww 547 (0.76)

Direct & Maternal genetic correlations:

	CZE_aww	DFS_aww	ESP_aww	GBR_aww	IRL_aww	FRA_aww	DEU_aww	AUS_aww	SVN_aww	LVA_aww	EST_aww	ITA_aww	
CHE_aww	1												
DFS_aww	0.82	1											
ESP_aww	0.78	0.8	1										
GBR_aww	0.77	0.8	0.87	1									
IRL_aww	0.8	0.79	0.84	0.86	1								
FRA_aww	0.77	0.84	0.79	0.82	0.78	1							
DEU_aww	0.75	0.82	0.75	0.77	0.75	0.79	1						
CHE_aww	0.82	0.81	0.77	0.76	0.77	0.76	0.75	1					
AUS_aww	0.76	0.78	0.77	0.77	0.76	0.77	0.75	0.76	1				
SVN_aww	0.69	0.68	0.69	0.76	0.69	0.72	0.69	0.69	0.69	1			
LVA_aww	0.74	0.73	0.74	0.74	0.74	0.74	0.73	0.74	0.74	0.69	1		
EST_aww	0.7	0.68	0.7	0.69	0.7	0.7	0.74	0.7	0.7	0.7	0.7	1	
ITA_aww	0.77	0.69	0.7	0.69	0.7	0.7	0.7	0.7	0.7	0.69	0.7	0.7	1

