INTRODUCTION

The international genetic evaluation for beef, Charolais (CHA), adjusted weaning weight

trait took place on October 2021 at Interbull Centre.

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

INTERBULL CHANGES COMPARED TO THE PREVIOUS ROUTINE RUN

- * New countries: EST, ITA;
- * New model and parameters: DFS;
- * New variance components parameters estimated by ICBF;
- * Implementation of the new evaluation workflow.

DATA AND METHOD OF ANALYSIS

Pedigree data

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

Phenotypic data

- * DEU data from the last routine run (2101r)
- * Other countries:

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

Variance components _____

* New parameters estimated by ICBF.

Publication file

* No updates.

Software

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

PUBLICATION OF INTERBEEF ROUTINE RUN

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 >=25 recorded progeny and reliability >=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 >=25 recorded progeny and reliability >=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 PUBBLICATION RULES

- 1-Maternal EBV publishable if direct EBV publishable
 - a) and reliability ≥ 0.3 .
 - b) and number or daughters with performance >= 15.
 - c) and number of progeny with performance >= 25.
- 2-If an animal is publishable /national publication rules in country ${\tt A}$, this animal is

publishable in country A.

3-If an animal fulfilles Interbeef publication rules, this animals is publishable in all scales.

Variances component

```
Direct additive variances:
IRL aww 451
             (0.35)
CZE aww 699
                (0.37)
DFS aww 178
               (0.17)
FRA aww 244
                (0.25)
DEU aww 396
                (0.25)
CHE aww 381
                (0.27)
ZAF_aww 94.3
AUS aww 189
                (0.07)
                (0.18)
SVN aww 918
                (0.38)
LVA aww 252
                (0.22)
EST aww 342
                (0.52)
ITA aww 172
                (0.24)
Maternal genetic variances:
             (0.15)
IRL aww 196
             (0.1)
CZE aww 183
DFS aww 138
                (0.13)
FRA aww 99.5
                (0.1)
DEU aww 332
                (0.21)
CHE aww 96.5
                (0.07)
ZAF aww 59.8
                (0.04)
AUS aww 105
                (0.1)
SVN aww 486
                (0.2)
LVA aww 45.7
                (0.04)
MPE variances
                (0.04)
IRL aww 45
CZE aww 208
                (0.11)
DFS aww 105
                (0.1)
FRA aww 103
                (0.1)
CHE aww 76
                (0.05)
ZAF_aww 12
AUS aww 100
                (0.01)
                (0.1)
Random comtemporary group variances:
CHE aww 294 (0.21)
CZE aww 477
                (0.25)
DEU aww 203
                (0.13)
LVA aww 20
                (0.02)
SVN aww 599
                (0.24)
ZAF aww 790
                (0.59)
```

Residual variances:

```
IRL_aww 647 (0.5)
CZE_aww 377 (0.2)
DFS_aww 662 (0.63)
FRA_aww 586 (0.59)
DEU_aww 719 (0.46)
CHE_aww 587 (0.42)
ZAF_aww 389 (0.29)
AUS_aww 664 (0.65)
SVN_aww 626 (0.26)
LVA_aww 806 (0.72)
EST_aww 309 (0.48)
ITA_aww 547 (0.76)
```

Direct & Maternal genetic correlations:

IRL aww	1	AUS_aww	CZE_aww SVN_aww FRA_aww	LVA_aww	EST_aww	ITA_aww	IRL_aww	CZE_aww	
CZE_aww DFS_aww FRA_aww DEU_aww CHE aww ZAF_aww AUS_aww SVN_aww LVA_aww 1	0.78 0.8 0.77 0.77 0.79 0.77 0.75	1 0.82 0.81 0.75 0.77 0.76 0.75 0.8 0.76	1 0.79 0.78 0.75 0.79 0.76 0.72 0.75	1 0.74 0.76 0.75 0.75 0.75	1 0.77 0.75 0.74 0.71 0.75	1 0.78 0.75 0.72 0.76	1 0.75 0.72 0.75	1 0.72 0.75	1 0.72
EST_aww 0.71	0.71	0.7	0.71	0.71	0.81	0.71	0.71	0.71	0.85
ITA_aww 0.73		0.72 1	0.73	0.73	0.72	0.73	0.73	0.72	0.76
IRL_aww		0	0	0	0	0	0	0	0
0 CZE_aww	0	-0.19	0	0	0	0	0	0	0
0 DFS_aww		0	0.65	1	0	0	0	0	0
0 FRA_aww		0	0.74	0.65	1	0	0	0	0
0 DEU_aww		0	0.67 0	0.6	0.67 -0.22	1	0	0	0
0 CHE_aww	0	0	0.7	0.63	0.71	0.66 -0.19	0	0	0
0 ZAF_aww 0	0 0 0	0 0 0	0.79 0 0.76	0.65 0 0.65	0.73 0 0.77	0.67 0 0.67	0.71 -0.17 0.7	1 0 0.74	0
AUS_aww 0	0	0	0	0	0	0 0.65	0 0.65	-0.27 0.67	0 0.67
SVN_aww	0	0 0	0 0.57	0 0.53	0 0.57	0 0.54	0 0.56	0 0.56	-0.27 0.57
0.54 LVA_aww -0.03 0.67	1 0 0 0.55	0 0 1	0	0 0.65	0 0.67	0	0 0.67	0	0 0.67