

Review of the Interbeef proof publication proposal

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INTERBEEF publication rules



Proposal

To have its ITB EBV published, a bull must :

- have INTERBEEF reliability $\geq 0,50$ in at least one scale
- have at least 25 progenies with records taken into account in INTERBEEF evaluation
- be published in at least one country or have progenies in more than one country

▶ To be publishable in that country or all the countries?

New file (official bulls in the country)

Table 5: 605 file format (total length = 31) Official file

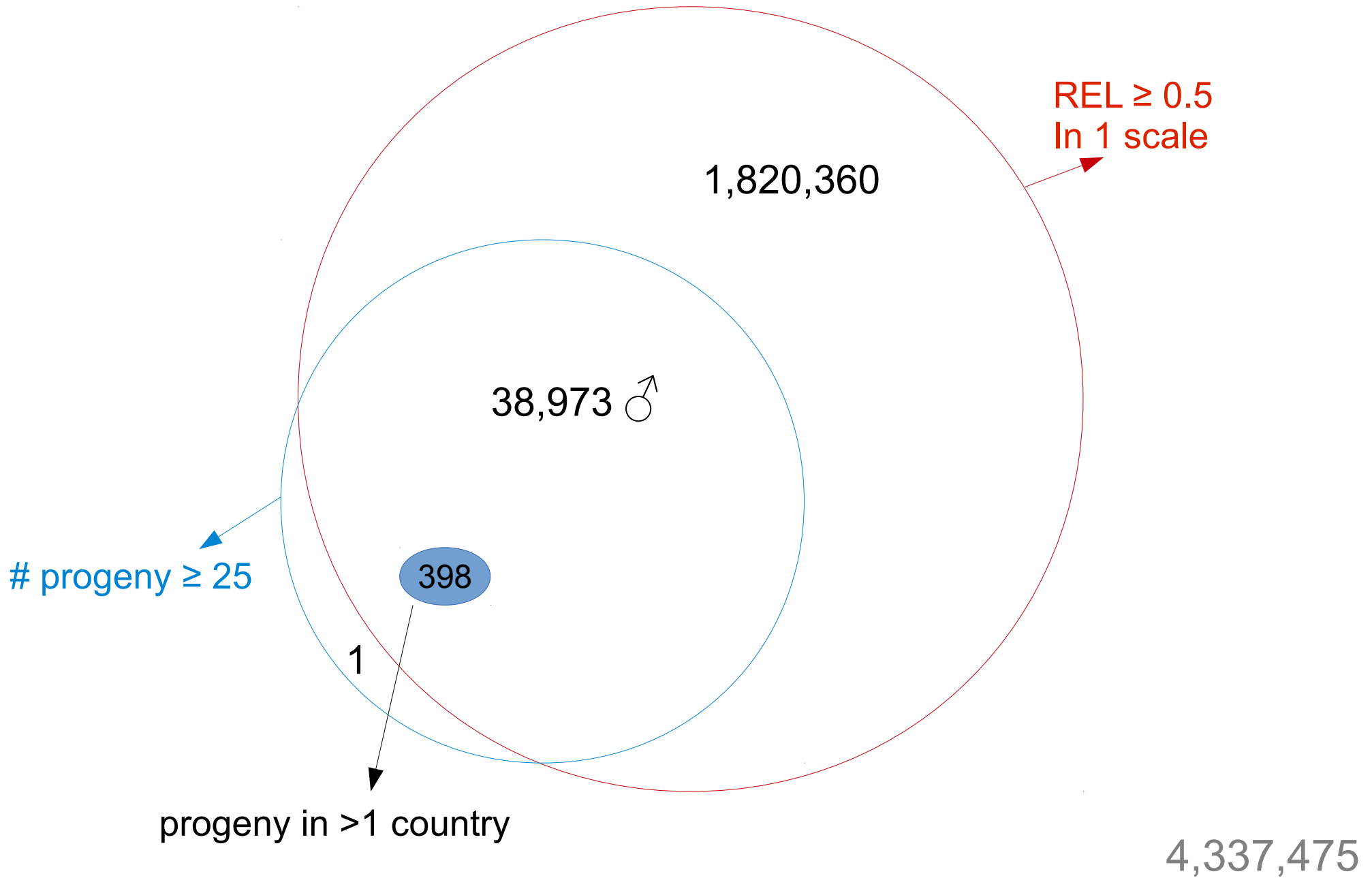
Field description	Label	Format	Start	Length	Status ^a	Note	Example
Record type	RTYPE	Char	1	3	M		605
<i>International ID of ANIMAL</i>							
Breed of the animal	ABREED	Char	5	3	M	I	LIM
Country of birth	AIDC	Char	8	3	M	II	FRA
Sex	ASEX	Char	11	1	M	III	F
ID code of the animal	AID	Char	12	12	M	IV	8795005065
<i>National reliability</i>							
Reliability	REL	Int	25	2			65
<i>Country sending information</i>							
Country	COU	Char	28	3	M	II	FRA

^a**Status:** M = Mandatory, O = Optional

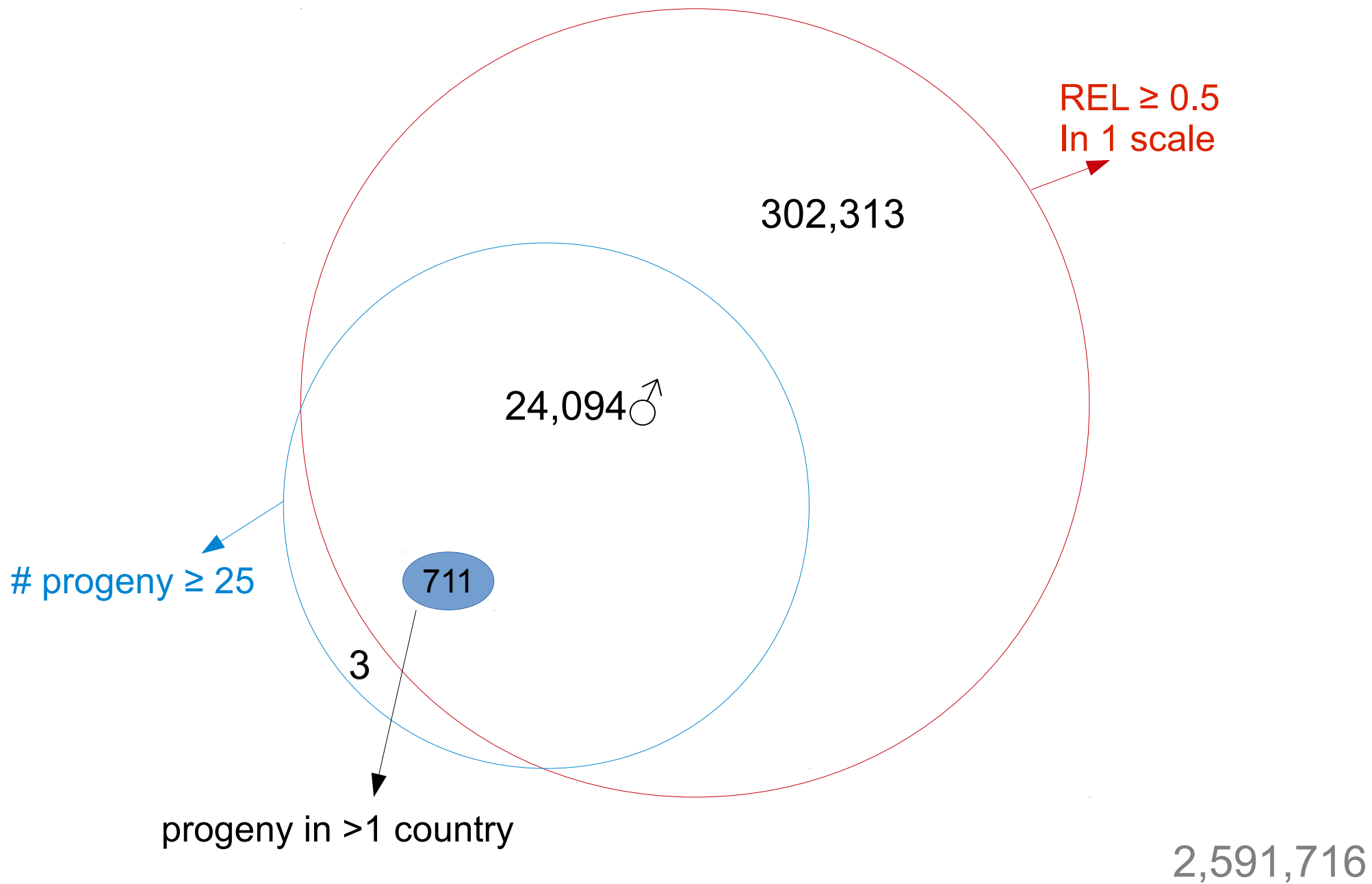
Note

I	See Reference section for Breed codes
II	See Reference Section for Country codes – ISO 3166 Alpha-3
III	Sex : M for Male, F for Female only
IV	Identification Number in Interbull Format : Right justified, Leading blanks filled with Zero ("0")

Charolais



Limousin

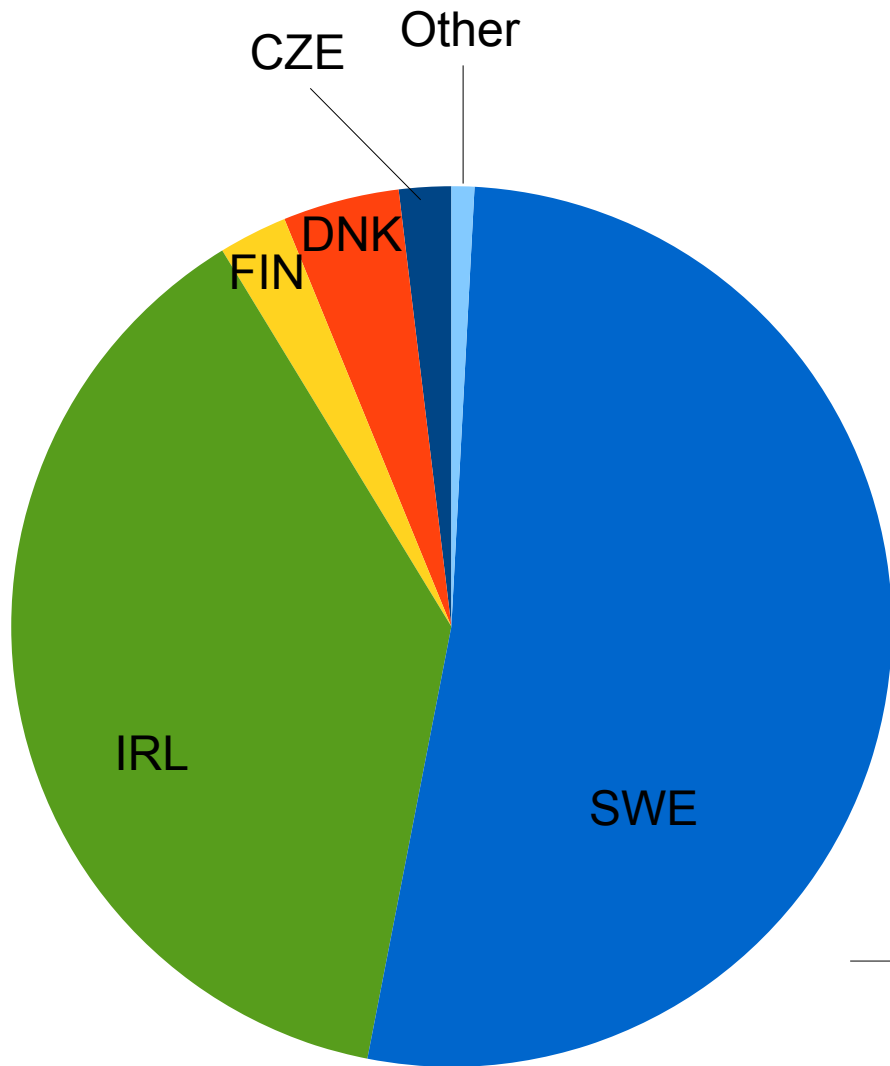


Remarks

- $REL \geq 0.5$ in 1 scale has no influence on publication, because animals with # progeny ≥ 25 already have it.
- Animals with # progeny ≥ 25 have $REL \geq 0.5$ in >1 scale (95.4% for CHA and 98.6% for LIM; result not shown)
- Publishable proofs are from males.
- Progeny in >1 country is a very strict condition!

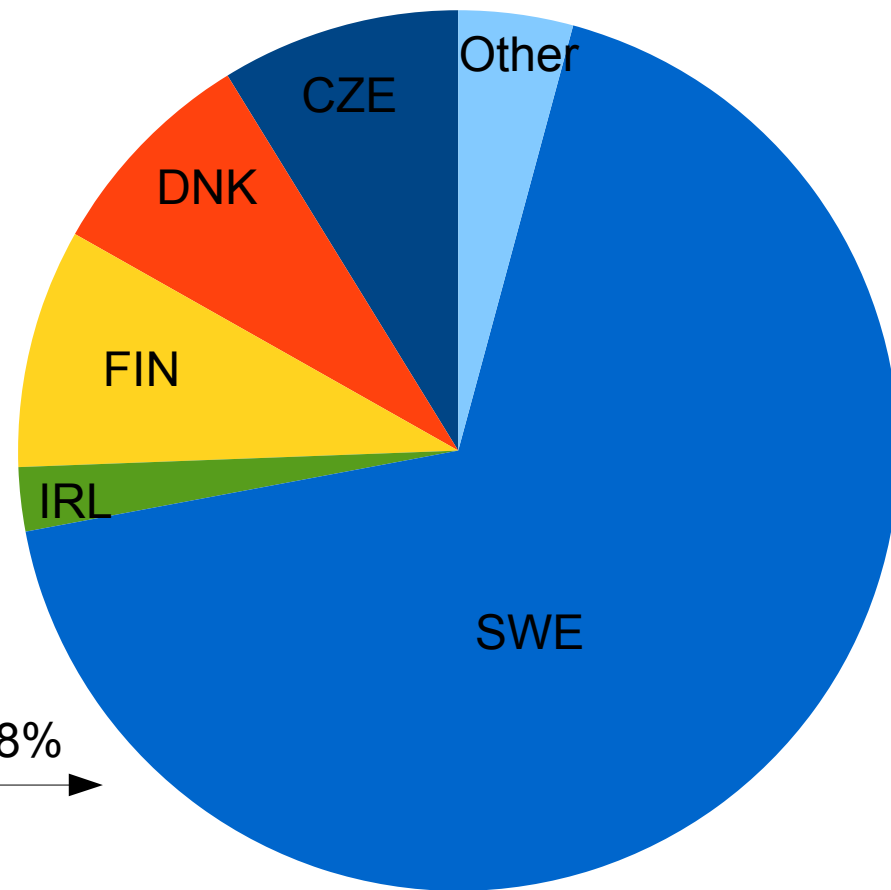
Charolais

REL ≥ 0.5 in 1 scale



12621+1846713 (FRA)

REL ≥ 0.5 in 1 scale & # progeny ≥ 25

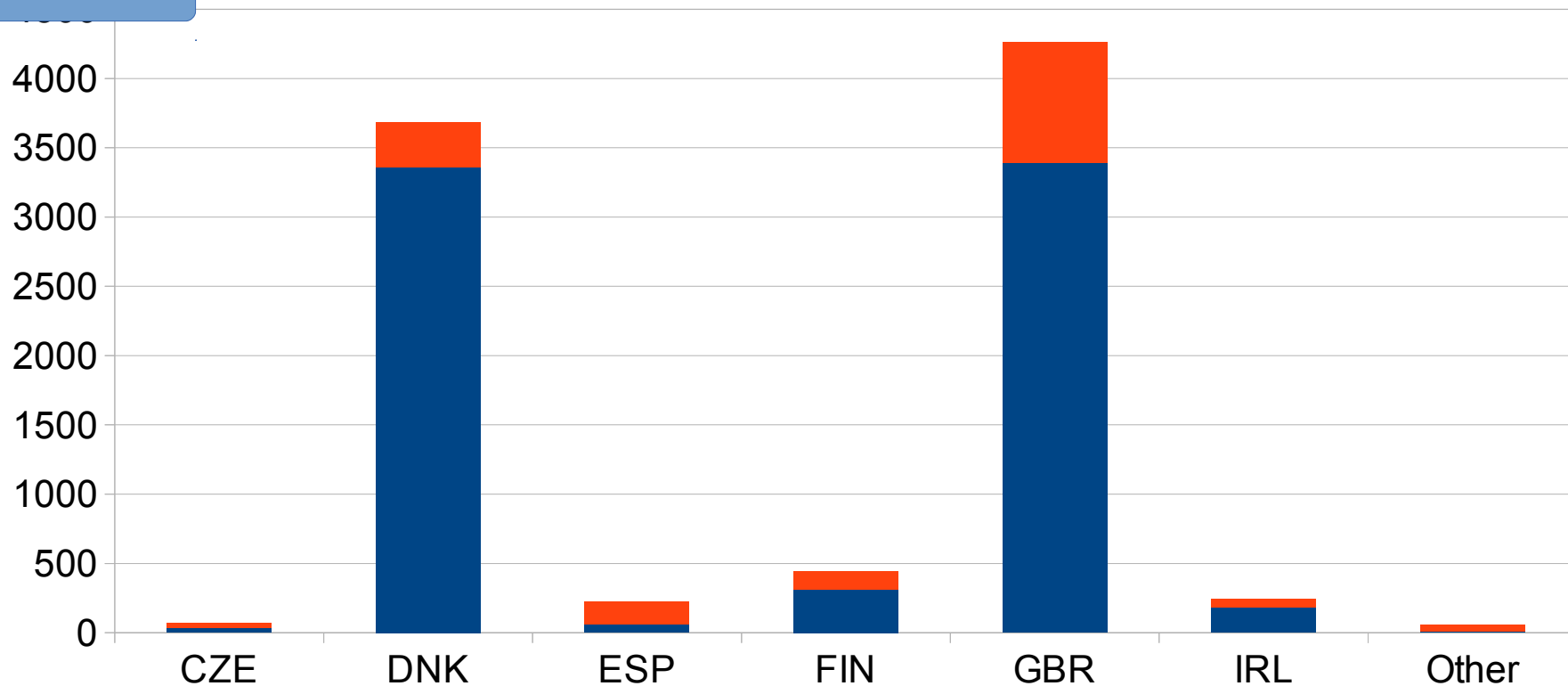


1617+37356 (FRA)

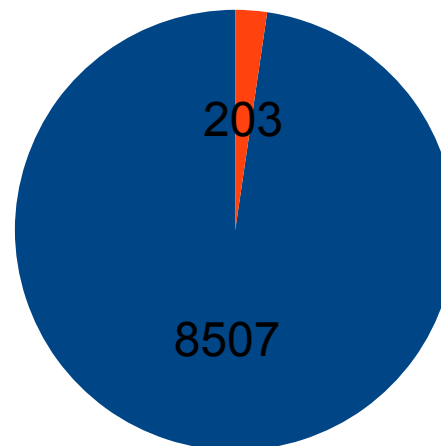
12.8%

2%

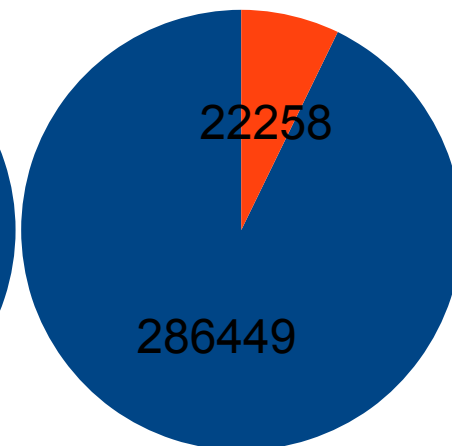
Limousin



REL ≥ 0.5 in 1 scale & # progeny ≥ 25



SWE



FRA

Remarks

- Most of the publishable animals have French or Swedish origin (both breeds).
- The proportion of animals with # progeny ≥ 25 is different among countries.

REL ≥ 0.5 in 1 scale

Reliability	MIN	MEAN	STD	MAX
CZE	0.050	0.125	0.064	0.940
DNK	0.177	0.222	0.050	0.956
FIN	0.077	0.109	0.043	0.875
FRA	0.077	0.542	0.063	0.999
IRL	0.185	0.300	0.045	0.986
SWE	0.050	0.386	0.046	0.978

REL ≥ 0.5 in 1 scale & # progeny ≥ 25

Reliability	MIN	MEAN	STD	MAX
CZE	0.057	0.254	0.105	0.940
DNK	0.212	0.373	0.094	0.956
FIN	0.108	0.242	0.093	0.875
FRA	0.080	0.645	0.102	0.999
IRL	0.192	0.449	0.098	0.986
SWE	0.053	0.502	0.113	0.978

Limousin

REL \geq 0.5 in 1 scale

Reliability	MIN	MEAN	STD	MAX
CZE	0.037	0.294	0.060	0.931
DNK	0.110	0.445	0.071	0.979
ESP	0.043	0.191	0.063	0.965
FIN	0.041	0.162	0.050	0.897
FRA	0.115	0.572	0.095	0.999
GBR	0.046	0.189	0.073	0.984
IRL	0.052	0.472	0.074	0.978
SWE	0.040	0.431	0.072	0.963

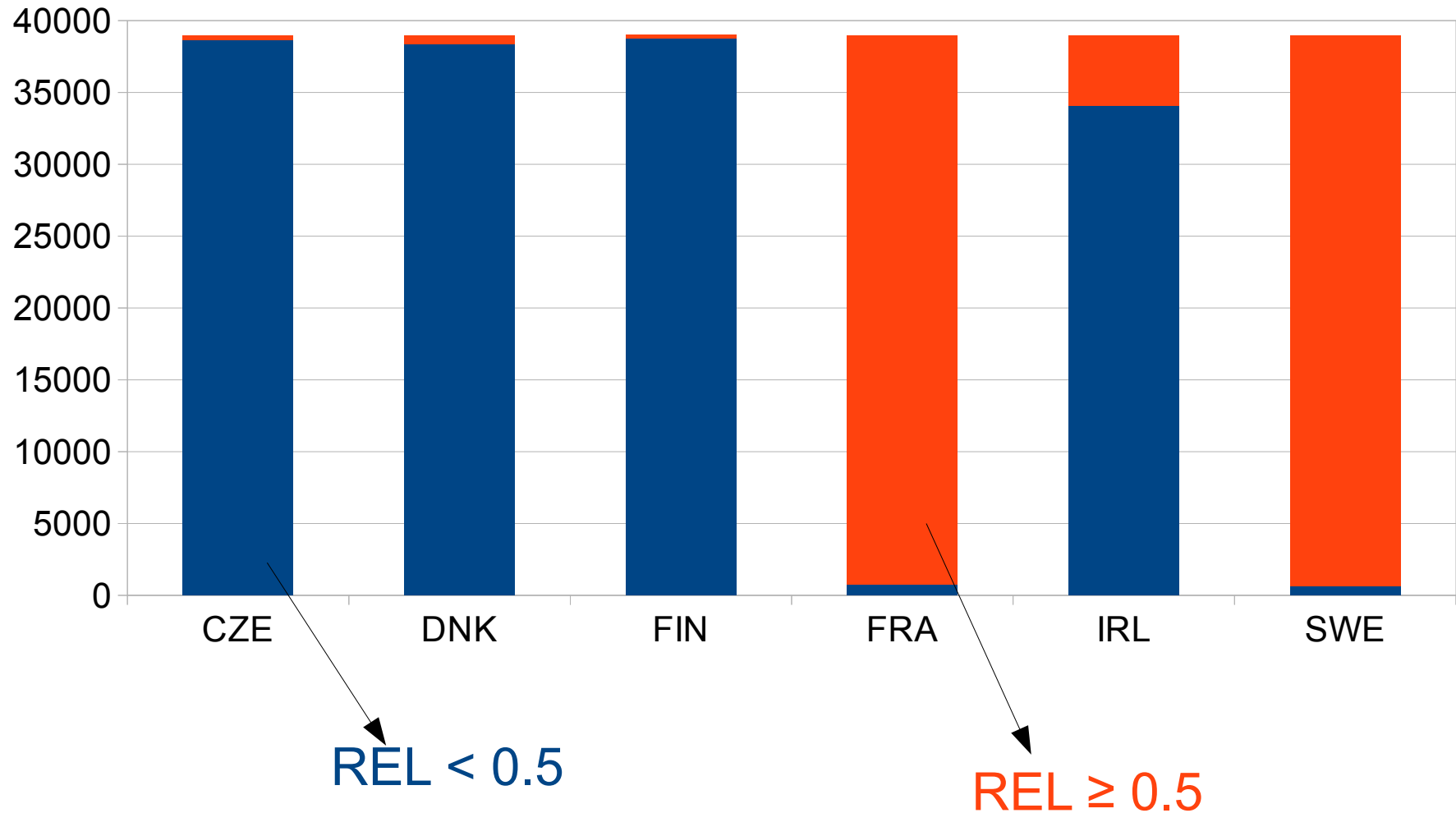
REL \geq 0.5 in 1 scale &
progeny \geq 25

Reliability	MIN	MEAN	STD	MAX
CZE	0.042	0.369	0.115	0.931
DNK	0.126	0.584	0.181	0.979
ESP	0.060	0.317	0.145	0.965
FIN	0.041	0.308	0.131	0.897
FRA	0.132	0.628	0.169	0.999
GBR	0.063	0.273	0.112	0.984
IRL	0.060	0.527	0.156	0.978
SWE	0.044	0.525	0.191	0.963

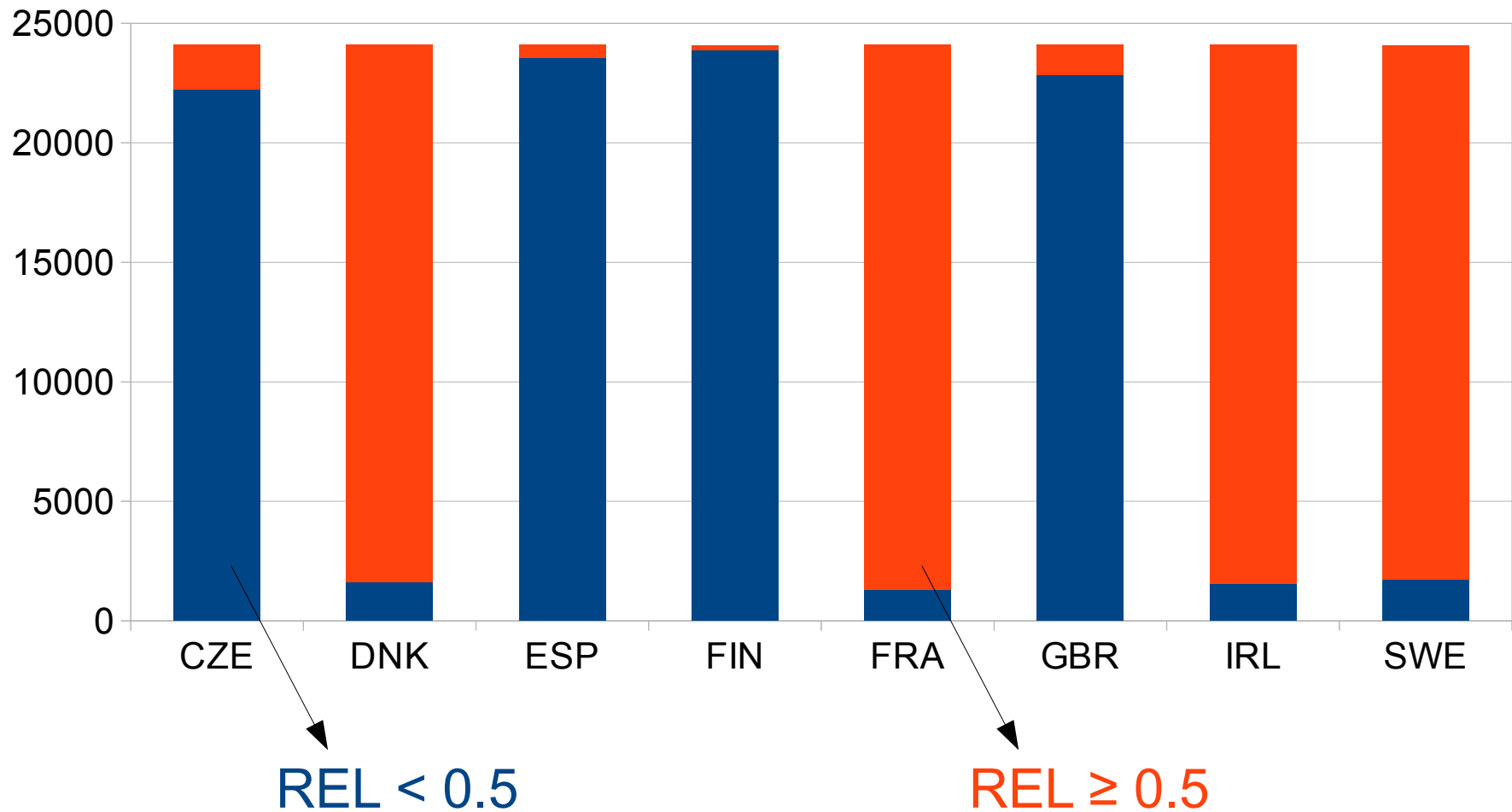
Remarks

- Adding the condition of # progeny ≥ 25 to REL ≥ 0.5 in 1 scale, brings reliabilities and their SD higher in all scales.

REL ≥ 0.5 in 1 scale & # progeny ≥ 25 Reliability on different scales



REL ≥ 0.5 in 1 scale & # progeny ≥ 25 Reliability on different scales



Remarks

- $REL \geq 0.5$ in 1 scale does not guarantee a good publication quality in other scales.
- **For CHA:** $REL \geq 0.5$ comes from FRA and SWE scales (i.e., # progeny ≥ 25 in these countries).
- **For LIM:** $REL \geq 0.5$ comes from FRA, SWE, IRL and DNK scales (i.e., # progeny ≥ 25 in these countries).
- With stronger genetic correlations, more bulls in more countries will get $REL \geq 0.5$ (+heritability)

Final remarks/suggestions

- # progeny ≥ 25 serves as # progeny ≥ 25 & REL ≥ 0.5 in at least 1 scale
- Even with stronger genetic correlations, many low reliable proofs will get published. REL $\geq ?(0.3)$ in the importer country!
- Proofs from official animals in each country is publishable in that country (as it was suggested).
- No requirement for progeny in >1 country

Thanks for your attention