



Reporting breed composition

Interbull Centre

Aim

- Accommodate in the existing system of pedigrees the possibility to consider additional information about breed composition existing at the national databases
- Find an operational solution that preserves the authority of the national centers over pedigrees and keeps data consistency on the multiuser database

Proposal

- Add "fake" parent IDs to the founder animals according to the national recorded breed composition in the Interbeef pedigree database
- Fake ancestors would solely be used to estimate breed composition of the founder animals

How to build a fake ID:

BRD | CNT | S | FAKE | 00000000

- BRD – breed
- CNT – country providing information
- S – sex (M, F)
- FAKE – mandatory flag indicating this is not a real animal
- 00000000000000 – 8 digits numeric ID

Example 1 – Founder known to be 50% CHA and 50% HOL

- Current pedigree record:

```
601 XXXIRLM123456789012 UUUUUUUUUUUUUUUUUUUUUU  UUUUUUUUUUUUUUUUUUUU  
UUU
```

- Including fake parents to the pedigree record:

601 XXXIRLM123456789012 CHAIRLMFAKE00000001 HOLIRLFFAKE00000001

Example 2 – Founder known to be 25% LIM, 25% CHA and 50% SIM

- Current pedigree record:

```
601 XXXIRLM123456789013 UUUUUUUUUUUUUUUUUUUUUU UUUUUUUUUUUUUUUUUUUU
UUU
```

- Including fake parents to the pedigree record:

601 XXXIRLM123456789013 SIMIRLMFAKE00000001 XXXIRLFFAKE00000001

601 XXXIRLFAKE00000001 CHAIRLMFAKE00000002 LIMIRLFAKE00000001

Rules for adding fake parents into the Interbeef pedigree

1. Only founder animals (unknown parents) can be assigned fake parents
2. Founders with a reported breed and without fake parents will be treated as purebred
3. The same 8 digits numerical part of the fake parent ID cannot be used for more than one founder animal (same fake parent cannot have more than 1 progeny)
4. National centers can only create fake IDs with their own country code
5. National centers can only add fake parents to founder animals over which they are the authoritative organization

Rules for using fake parents IDs

1. Fake parents will be used for
 - a. Determining breed composition
 - b. Additional criteria for phantom groups
2. Fake parents will be excluded from pedigree extraction prior to genetic evaluations
3. Fake parents will show up in the animal query with a warning message
4. Even animals that do not have breed code=XXX will have their breed composition determined from the pedigree