Interbeef Technical Committee meeting - Report

Uppsala, Dec 6-7, 2012

Administrative matters

- Technical Committee ToR – end of Jan 2013
- Calendar of TC meetings
  - ICAR meetings, before WG
  - Technical sessions
- Research Infrastructure
  - Mix99
  - Virtual machine with same environment as in ITBC
  - Research agreements
    - Data usage & publication of results
    - Mix99

Calving traits pilot run

- Data format
  - Accommodate records from calves without ID
  - Guidelines updated – File 602
  - Research plan – CZE
- Other research plans

Expected participation in the calving traits pilot

Country	Breed	Calving ease	Stillbirth	Birth weight
France	CHA, LIM	X	-	X
Czech Republic	CHA, LIM	X	-	X
Ireland	CHA, LIM	X mostly on crossbreeds	Few observations	Few observations
Denmark	CHA, LIM	X	X	X
Sweden	CHA, LIM	X	?	X
Spain	LIM	-	-	x
Finland	?	?	?	?
Great Britain	LIM	X	-	X

Calendar of evaluations for 2013

- Proposal from TC
  - 2 runs: January & August
- Proposal from ITBC
  - End of January
  - Beginning of June

Adjusted Weaning Weight Test run results

- **Implementation flow**
  - Incoming data checks
  - Data editing/preparation
  - Correlations
  - Pedigrees
    - FRA
  - EBVs
  - Reliabilities

Phenotypic data editing (TC)

- Animals not in pedigree database: exclude

- No birth year editing

- Twins: specify in the parameter file if they include or not twins

- ET.:
  - File listing ETs without performance record
  - No ET performances but included in the pedigree

- Biological range:
  - No edits in the dependent variable
  - AWW distribution sent to the countries for verification

- Consistency of sire(dam)/breed
  - Sire missing and dam of the same breed as the calf: keep record
  - Dam missing: delete record

Phenotypic data editing (TC)

- Covariates: no edit, send distribution back to country

- Ireland: provide only non-adjusted weaning weight

- Contemporary group:
  - Check distribution
  - Records/CG: parameter file

- Number of progeny per sire: no edit

- Number of records per fixed effects: report distribution to country

Review

LIM – Correlation matrix

	cze(1)	dnk(2)	esp(3)	gbr (4)	irl (5)	swe (6)	fra (7)	fin (8)
cze(1)		0.58293	0.81182	0.73604	0.76561	0.48380	0.69901	0.30021
dnk(2)			0.50885	0.47934	0.85390	0.94272	0.88691	0.68058
esp(3)				0.71346	0.43524	0.32046	0.51272	0.52234
gbr (4)					0.51513	0.33164	0.50833	0.51480
irl (5)						0.88423	0.91491	0.37529
swe (6)							0.87650	0.57405
fra (7)								0.51536

CHA – Correlation matrix

	irl (1)	cze (2)	dnk(3)	swe(4)	fra (5)	fin (6)
irl (1)		0.63740	0.97609	0.86326	0.72341	0.61129
cze (2)			0.75286	0.32319	0.40179	0.65396
dnk(3)				0.75279	0.60264	0.64157
swe(4)					0.83931	0.49651
fra (5)						0.39921

Correlation matrix (TC)

- Re-estimate VCE using a smaller better-connected data set.

  1. **Common bulls**
  2. Ancestors
  3. Progeny
  4. Mates
  5. Contemporaries

Recommendations of Changes

- **Guidelines**
  - New agreed file formats
  - New parameter file
  - Specification on how to report calving traits

- **International genetic evaluation**
  - Re-estimate international EBV for AWW
    - New set of editing rules
    - New VARCOMP
    - Review estimation of reliabilities

Publication rules and use of Interbeef results

- Distribution of Pedigree:
  - No agreement
  - Different rules for distribution of males and females
- Two sets of files distributed:
  - File containing all animals only for checks
  - Publication file with only publishable animals
- Publication decided by each Service User based on public/transparent criteria

Summary of outcomes

- Calving data: mid-January 2013

- Research agreement:finalized at Stansted

- IRL: provide cross bred animals
  - Tracing back a pedigree to study heterosis/ recombintation

- João:report and recommendations to WG

Work plan (ITBC)

1. Re-extract pedigrees FRA
2. Adopt new editings (23/1)
3. Create data for VARCOMP (1/2)
4. Re-run VARCOMP (23/2)
5. Re-run EBV (1/3)
6. Re-run reliabilities (1/3)
7. Distribution

Work plan (Countries)

- Update pedigrees
- File with ET animals without performance
- New parameter files for AWW
- New data and parameters for calving traits
- Latvia and Germany?