Feed intake – state of art

Jan Lassen

Activities

- FUNC – Feed Utilisation in Nordic Cattle
- REMRUM – Reduced Methane from Rumen
- Global dry matter initiative
- REFFICO – Robust and Efficient dairy cows
- German collaboration
- Efficient Dairy Genome Project
- GenTORE
Genomic reliability - gDMI

<table>
<thead>
<tr>
<th>Data</th>
<th>Genomic reliability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreign data</td>
<td>0.06</td>
</tr>
<tr>
<td>Own data</td>
<td>0.11</td>
</tr>
<tr>
<td>Own + foreign</td>
<td>0.19</td>
</tr>
</tbody>
</table>

Other outcome

- Tricky trait biologically
- Efficiency expressions are problematic
- No super indicator so far
- Interest in sharing data and true collaboration
- We have a Nordic stand alone breed challenge
**REFFICO**

- 4 year project from 2015 to 2019 (will be expanded 1 year)
- Total budget of 4 million Euros
- Overall aim:
  - Implement an index for feed efficiency in Nordic dairy cattle breeds

**Status**

- Intensive work on collaborating on international data
- Methane data from ~10000 Holstein cows
- Blood metabolome data from research farm (historic data)
- Weight, activity, rumen activity, MIR from commercial farms
**Efficient Dairy Genome Project**

- Canadian initiative
- Collection of data worldwide (HOL)
- We are part of the project
  - Because we have good data
  - Because we are active
- CAN, US, AUS, CH, DNK, GB, (NL)
- Dialogue with D, SF, S, I, F, PL, E

**GOAL: an index**

- +10,000 genotyped cows with data (Own=759)
- Free access to data if you deliver
- Access February 2017
- Priority 1, 2 and 3 to make an index
- Based on data we do not already select for
- Generate more data as we come along
Intentions for this project

- Contribute with genotyped HOL data on feed intake, methane and MIR
- Contribute with man power on specific work tasks
- Have exchange of personnel
- Several visits with partners

Phone meeting 17th of January
GenTORE

- EU project will start summer 2017
- 21 partners
- Selection for resilience and efficiency
- Focus on genomic multibreed models
- Outcome to be use for RDC and Jersey breed

Other countries

- Index in NL, US, AUS.
- All countries are in Canadian project...
- From Nordic/NAV/Viking side we want to do it right
Sum up

- Collaboration

- Implementation

- Holstein 😊 - RDC/JER 😊