Data Recording and New Developments

#ISGC18

Kevin Downing
Introduction

• HerdPlus Overview

• Data Recording

• HerdPlus & LambPlus Apps

• Data in the database

• New Sensor Technologies

• New Developments
HerdPlus Overview

• HerdPlus: ICBF’s subscription service.
• Membership: ~8,800 Dairy & ~16,800 Beef
• Web Site: 753k logins YTD (+12%)
  • Online Applications e.g. Catalogue, ePM, KT, etc.
  • Sire Advice: ~3.5k herds; C.O.W.: ~13,000 runs
• Aim to increased number of farmers actively engaged.
• Data Ownership Policy: Data is owned and controlled by the farmer for the benefit of farmers & national good.
Data Recording

• Data is the lifeblood of ICBF.

• Think of the ICBF database as a huge jigsaw puzzle.

• The more pieces of the “puzzle” we have (data), the more complete the “picture” (genetic indexes) will be.

• Recording sires, calving ease, milk recording, liveweights, inseminations, etc. all feed into genetic evaluations.

Rubbish In = Rubbish Out
Increase in Data Recording (2013 - 2017)

**Milk**
- Milk Recorded: 689,721 (up 22%)
- Dry offs: 518,469 (up 29%)

**Fertility**
- AI Serves: 1,176,106 (up 32%)
- Natural Serves: 121,818 (up 12%)

**Calving**
- Sire Recorded: 1,610,110 (up 14%)
- Calving Ease: 1,818,906 (up 12%)

**Beef**
- Carcass Wgts: 1,653,292 (up 18%)

**Dairy EBI**

**Health**
- Mastitis records: 20,876 (up 56%)
- Lameness records: 5,374 (up 29%)

**Management**
- Docility/Temp: 556,459 (up 45%)

**Maintenance**
- Cow Live Wgts: 205,870 (up 24%)

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HerdPlus App

Welcome
Use the "Menu" button in the top right corner to access animal profiles, record events, BDGP application, etc.

Latest Reports
Weight Recording Report - 29-NOV-18
Suckler Cow Report - 20-NOV-18
Eligibility Report - 31-OCT-18
Eligibility Report - 30-OCT-18
Dairy Commercial Catalogue - 18-OCT-18
Euro-Star Listing Catalogue - 18-OCT-18

Similar dropdown menu’s to desktop version.
HerdPlus App – Record Events

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**HerdPlus App – Herd Profiles**

### Dairy EBI

<table>
<thead>
<tr>
<th>Animal</th>
<th>EBI €</th>
<th>Milk</th>
<th>Fat</th>
<th>Protein</th>
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<tr>
<td>1259</td>
<td>112</td>
<td>44</td>
<td>334</td>
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</tr>
</tbody>
</table>

**EBI and Sub-Indexes**

- Milk: 90 (43), Fertility: 90 (43), Calving: 39 (51), Beef: -7 (48), Maintenance: 7 (42), Health: -3 (44)
HerdPlus App – Animal Search

HerdPlus Apps Download for FREE today!

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LambPlus App

• Free to LambPlus members
• Works on & offline
• Bluetooth technology – connects to an EID reader
• Ability to record:
  • Lambing info
  • Weight info
  • Health info
  • Mating info
• What’s next?
  • Pregnancy recording
  • Animal movements
Data in the ICBF Database

- Herds: 106k
- Live Animals: 6.2m
- Calving Records: 2.3m/yr
- Milk Recording: 2.8m/yr
- Farm Movements: 7m/yr
- Slaughter Data: 2m/yr
- BVD records: 2.3m/y

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Data in the ICBF Database

- 77.7 Billion Genotype SNP - Sep 2018
- 62.7 Billion Genotype SNP - Mar 2018
- 18.3 Billion Genotype SNP - Mar 2016
- 8.6 Billion Genotype SNP - Jan 2015
- 1.8 Billion Breeding Value Records

Genotypes in 2018 = 353,580
New Sensor Technologies

- Sensors are helping farmers fill the data gap

Lameness detection

Heat Detection

Metabolic disorders

Milk Composition
New Development – 5 Year Trend Report

- Snapshot table of progress over 5-years.
- Graph the progress of herds top six genetic and calving KPI’s.
- Compare your herd with the National Avg. and Top 10%.
New Development – 5 Year Trend Report

• Snapshot table of progress over 5-years.

Available from January
New Development – Dairy Genomic Results

Dairy Genomic Evaluation Profile - Dairy animals in the herd with genomic evaluation are only displayed.

Available from December

AgTech – it’s in our DNA
New Apps Under Development

Pilot DNA project

Linear Type Scoring

Available from January
Summary

• Data is the lifeblood of ICBF.
• Integrated cattle breeding databases.
• Collaboration - key aspect of success in cattle breeding.
• Aim to increased number of farmers actively engaged.
• New sensor technologies will continuously enter the market and demand will continuously grow.
• Apps - important part of development in 2019.
• Big Data isn’t just about the technical tools used to collect the data but connecting the tools with people.