ICAR Subcommittee for Recording Devices

“Milk Recording Systems & Services in the 21st Century”

Challenges / Opportunities

1st June 2010 Riga
Work Session Purpose

1. Share the SC’s current tasks and future direction with ICAR members and stakeholders (manufacturers and assoc. members)

2. Provide a forum by which the Manufacturers knowledge and technical expertise is integrated into the works and tasks of the SC without compromising the SC’s independence and integrity.

3. Provide a forum by which the farmers’/breeders’ voice is integrated into the works and tasks of the SC

Under the auspices of the ICAR Sub-Committee on Recording Devices

© Irish Cattle Breeding Federation Soc. Ltd 2010
Work Session Agenda

1. New Technologies and their impact on Milk Recording (including “Guidelines Update”) Kees de Konig NL

2. Latest on Robotic Samplings systems and Carry over Uffe Lauritsen, DK.

3. International Review of Best Recording Practices Martin Burke, IRL.

Under the auspices of the ICAR Sub-Committee on Recording Devices
Work Session Agenda

1. New Technologies and their impact on Milk Recording (including “Guidelines Update)  Kees de Konig NL

Under the auspices of the ICAR Sub-Committee on Recording Devices
Work Session Agenda

2. Latest on Robotic Samplings systems and Carry over
   Uffe Lauritsen, DK.

Under the auspices of the ICAR Sub-Committee on Recording Devices
Work Session Agenda

3. International Review of Best Recording Practices

   Martin Burke, IRL.

Under the auspices of the ICAR Sub-Committee on Recording Devices
International Review of Best Recording Practices & Future Challenges

(Contributions from USA, Netherlands, New Zealand, Ireland, Germany, Denmark)

Martin Burke, 1st June 2010 Riga
ICAR Sub-Committee on Recording Devices
On- Farm Test- day
Recommended Procedures

Contributions from:

- **Denmark** - Uffe Lauritsen, RYK.
- **Germany** - Manfred Hammel, DLQ.
- **Ireland** - Martin Burke, ICBF.
- **Netherlands** - Gerard van Logtestijn, CRV.
- **New Zealand** - Andrew Fear, LIC.
- **USA** - Mark Adams, NorthStar Cooperative.

*Under the auspices of the ICAR Sub- Committee on Recording Devices*
On- Farm Test- day
Recommended Procedures

4 Step Test Day Process

1. Pre- milking Preparation/ set- up
2. Milking - Test day cow- side procedures
3. End of milking procedures
4. Clean- up & completion of herd test day process
On- Farm Test- day
Recommended Procedures

1. Pre-milking set-up
   ✓ Ensure herd data is updated
     Dry cows, bought/sold, PDAs updated
     Extra health tests requested ?? eg Johne’s

   ✓ Arrival Time - prep time

   ✓ Bio- Security - self & equip

   ✓ Equipment Set-up
     - ICAR Certified Meters
     - Install as spec’d
     - Sampling Area defined
     - F1pitstop approach esp Lge herds

Manufacturer-Milkmeter
ICAR-approved since 2005
for cattle milk testing

© Irish Cattle Breeding Federation Soc. Ltd 2010
On- Farm Test- day
Recommended Procedures

2. Milking - Test day cow- side procedures

✓ Record Animal ID

✓ Watch Meters for Problems

✓ Record Milk Weights

✓ Taking Samples
  • Proper ID on sample vials
  • Automated Systems - know the routine
  • Manually - Proper agitation etc
  • Double check clarity of ID on sample
  • Shake & Rack samples in orderly fashion
On-Farm Test-day
Recommended Procedures

3. End of Milking Procedures

- Download files from on-farm computer or hand-held units
- Check sample numbers & racking lists
- Verify milking times
- Record bulk tank weights
- Scan for animal ID errors
- Verify bulk tank deviations
- Print out herd owner reports
- Upload test day information to Database for Records Processing
On- Farm Test- day
Recommended Procedures

4. Clean- up & completion of test day process

✓ Clean meters, hoses & equipment
✓ Sanitize all equipment with approved disinfectant before loading
✓ Shake & then send samples to approved ICAR Certified Laboratory

Note: In NZ, sample flasks, transported to central weigh stations Sth & Nth islands, datalogged & subsampled, then sent on to the lab
Common International Test-day Challenges / Opportunities

✓ Large Herd Sizes - Logistics - “F1 Pitstop” approach

✓ Cow ID to Sample - Accuracy
  Sample is the center of the process, not the meter!

✓ Data analysis - more from sample, health, PCR etc - carry over issues?

✓ Electronic Meter - efficiencies, data imports for weights? - models?

✓ Equipment validation - installation & routine tests, annual checks meters/jars, Overhead of inspectorate, replace these with software E files checks?
On- Farm Test- day

Challenges / Opportunities

AMS / VMS Robotics

✓ Trained personnel
  (Farmer / Technician)

✓ Carry Over - Health tests, PCR

✓ ICAR SC & Manufacturers Project
to tackle standardisation 2010- 11
Focus for Milk Recording SC

- Guidelines to reflect latest On-Farm Technologies
  - Challenges/opportunities - Robotics, AMS / VMS, In Line,

- Test Centre Excellence - recording device test centres
  - Challenges/opportunities - continue & retain best in class test labs, Netherlands, France and Germany

- Equipment validation/routines - Installation tests, Annual checks meters/jars
  - Challenges/opportunities - Overhead of inspectorate, E files checks

- Data analysis - more from sample
  - Challenges/opportunities as well as Fat, Protein, SCC, etc- Health, PCR, Genomics? - carry over etc to be addressed
ICAR 2012
CONFERENCE
CORK IRELAND
Mon 28th May - Fri 1st June 2012
www.icar2012.ie