



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



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.*

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IRISH CATTLE BREEDING FEDERATION

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.*

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On-Farm Test-day Recommended Procedures

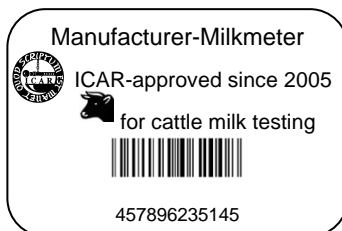
4 Step Test Day Process

- 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



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