International Review of Best Recording Practices/Routines

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Presented by;
ICAR Sub-Committee on Recording Devices
Milk Recording in Germany

About DLQ

As the umbrella organisation of organised milk recording organisations in Germany, Deutscher Verband für Leistungs- und Qualitätsprüfungen e.V. (DLQ) comprises all milk recording organisations (16) and the data center in Verden.

Certification
DIN EN ISO 9001:2008-12

Akkreditation
DIN EN ISO 17025
General Rules for Milk Recording
Preparation of Milk Recording
Testing Procedures
Data acquisition and data provision in Herd
Sample Transport
Sample accepting and analysis
Processing Data and Inform the Farmer
General Rules for Milk Recording

- Inform the farmer just before start MR
- All cows of a herd will be tested (also if sick or in heat)
- All cows are marked with official eartag
- Changes of the working procedure, the time of milking and feeding before milk recording are not accepted
- Any insets of hormones or active agents to promote the milk performance are prohibited
- The MR is realized evenhanded, conscientious, sanitarily and punctual
- Farms with two times milking start MR in the evening
- Farms with three times milking start MR at noontime
Preparation of Milk Recording

- Check if the farmer information of the last MR is completed
- **Boxes with vials and if necessary RD (ICAR-approved) have to be ordered in necessary number**
- Check for new and left cows as well as calving dates for the time period after the last MR, the data have to be listed
- Status Dry and Colostrums of the respective cows have to be listed
- conservation of needed vials
- **Open “MR” in the Herd-PC/Palm (enter date and group order and box number, milking frequency and so on, vial number of the respective cow will automatically given)**
- If use Herd-PC: print worksheet (number cow, box, number vial)
- if necessary the mobile RD have to be build in (only annually approved RD) (ICAR-approved)
/testing Procedures

- Identification of the cows ID (automatic Systems or visual)
- Note the milk weight on worksheet or type into Palm (read proper off on display or scale, when mobile RD)
- Mix the entire milk thoroughly and transfuse it into a measuring beaker
- Samplings have to be done immediately after the mixing with scaled pipette
- Fill the milk sample into the correct vial, close and shake the bottle, to have a good conservation
- Each cow has one bottle in which the samples of all the milkings (two or three) are collected
- Empty measuring beaker after each milking
- After milking clean equipment
Data acquisition and data provision in Herd

- If use Palm: Milk weight will be stored in the Palm-Program for every cow during the milking (data record per animal: farm number, date, box number, vial number, milk weight, milking frequency)

- If Use Farm-PC: Milk yield has to be typed in PC from the worksheet for every cow (data record per animal: farm number, date, box number, vial number, milk weight, milking frequency)
Data acquisition and data provision in Herd

- Validity check, whether all of the data are listed (Herd-PC and Palm)
- Fill in accompanying documents (farm, date, technician, box number)
- Transfer the MR-Data via dial-up, mail-box, email or electronic volume to the Milkrecording Organisation (MRO)
Sample Transport

- Provision of the samples and documents in the farm or in collecting points and transport with reefer
- Collection of the samples through own courier service according to schedule

Sample accepting and analysis

- Incoming inspection
  - (farm, box number, sample number, conservation, fill level, completeness of the documents)
- Analysis: fat, protein, lactose, somatic cell, urea
Processing Data and Inform the Farmer

- Merging: cow number and milk weight with ingredients of milk (milk composition)
- Performance Calculation (day of MR, milking average, herd average, sliding annual performance, 100-days-performance, 305-days-performance, annual performance, 305-daily output, life-performance, and so on)
- Data storage

Inform the Farmer
- The MRO and the Data Center inform the farmer via:
  - Internet
  - Fax
  - Mail
Thank you for your attention!

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