



## Introduction

- The ICAR Lactation Working Group completed a survey in 2000 . among ICAR member countries (Miglior et al., 2000) assess daily yield and lactation calculation methods worldwide
- New guidelines on calculation of daily yield, when data collected with flexible recording or automated milking systems (AMS)
- Research projects carried out by lactation WG members
  - updated existing guidelines on milk recording
  - developed new guidelines for lactation calculation methods, alternate milk recording and milk recording in AMS herds
- Missing in the 2000 survey was information on milk recording in farms with electronic milk meters (EMM)



- Electronic milk meters (EMM) more widely used than AMS
- ÷ No guidelines for milk recording in farms with EMM, especially for data updated directly from farm computers to DHI
- A new survey was prepared in order to obtain relevant information from ICAR members on milk recording with EMM
- Questions were also included on labeling and milk recording strategies, as requested by the ICAR Executive Board
- Survey distributed in January 2006 to 44 ICAR member organizations from 39 countries
- Thirty-six organizations from 30 countries replied, for a response rate of 82%

## **Survey results** Electronic milk meters (EMM)

- Many farmers now have EMM, which record milk weights for every animal, every day, every milking
- Meters are linked to a PC which stores and processes data
- Processed data is then available to producers in real time to make appropriate management decisions
- Stored data can also be transferred electronically to DHI
  - further processing in order to provide data back to the farmer input data for genetic evaluation units
- Easier now to access more milk weight data than was available previously with traditional milk recording 8 to 10 times per year











# Survey results Labeling and milk recording strategies

- All countries except Canada and US use ICAR standard labeling for various types of milk recording
  - A, B and C represent supervised, unsupervised, and combination of supervised and unsupervised tests, respectively
  - 2, 4, 6, or 8 represent the number of weeks between tests
  - T is an additional label for alternate testing between morning and evening milkings (am/pm recording)

# Survey results Labeling and milk recording strategies France and Germany use additional labels due to increased flexibility of milk recordings offered to their customers

- France is adopting a new labeling system called CZ
  - milk weights are on both milkings (1 by the technician, the other by the farmer)
  - samples on 1 milking on an alternate basis (by the technician)
- Germany uses an extensive labeling system in addition to ICAR labels already in place (see report)

	Labeling in Germany
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	Milk recording schemes
s	Use all milkings collected using all milkings and sample collected on test day in proportion of milk yield from milkings
L	As above using all milkings and sample collected with equal amount of milk from each milking
м	As above using 1 milking and sample collected from alternating milking
Ν	As above using 1 milking and sample collected from the same milking with adjustment for milking time
т	Using 1 milking collected on using 1 milking and sample collected test day, but alternating from alternating milking
U	Using 1 milking collected on using 1 milking and sample collected test day, no alternating from the same milking with adjustment for milking t
Е	Daily*, using all milkings and sample collected in proportion of milk yield from milkings
F	As above using all milkings and sample collected with equal amount of milk from each milking
G	As above using 1 milking and sample collected from alternating milking
н	As above using 1 milking and sample collected from the same milking with adjustment for milking time
	Milk test intervals
D	Daily
1-9	Every 1, 2,, 9 weeks
	Milking frequency
1-4	1, 2, 3 or 4 milking per day
R	Robotic milking
<b>C</b> TP	<b>3</b>





### Survey results Discussion

- Day to day variation of milk weights exists for each cow
- Many farmers believe that data stored in their computers (multiple day averages) more accurate than 24-hour weights collected monthly by DHI
- DHI need to increase efficiency in their service
  Must be capable of offering value added service when data is processed and sent back to farmers, in order to help them in the daily management of their herds

# Survey results Milk recording strategies

- Most DHI organizations worldwide have not adapted to the changing needs of farmers
- Too many countries are still offering the standard 4-6 weeks, supervised milk recording
- Generally, those countries still receive public funding
  - They are not preparing for when the full cost may fall on the shoulders of the dairy industry and producers

## Survey results Milk recording strategies

- There may also be a perception that any type of flexible milk recordings brings inaccuracy to collected data
- The success of the dairy industry in those countries that have fully embraced flexible milk recordings should serve to confirm that flexibility
  - primarily benefits the heterogeneous pool of farmers
  - ultimately maintains or increases the membership base to DHI programs





