



Milk recording in small herds

Croatian case

Zdenko Ivkić & Dalibor Janda

Croatian Agricultural Agency

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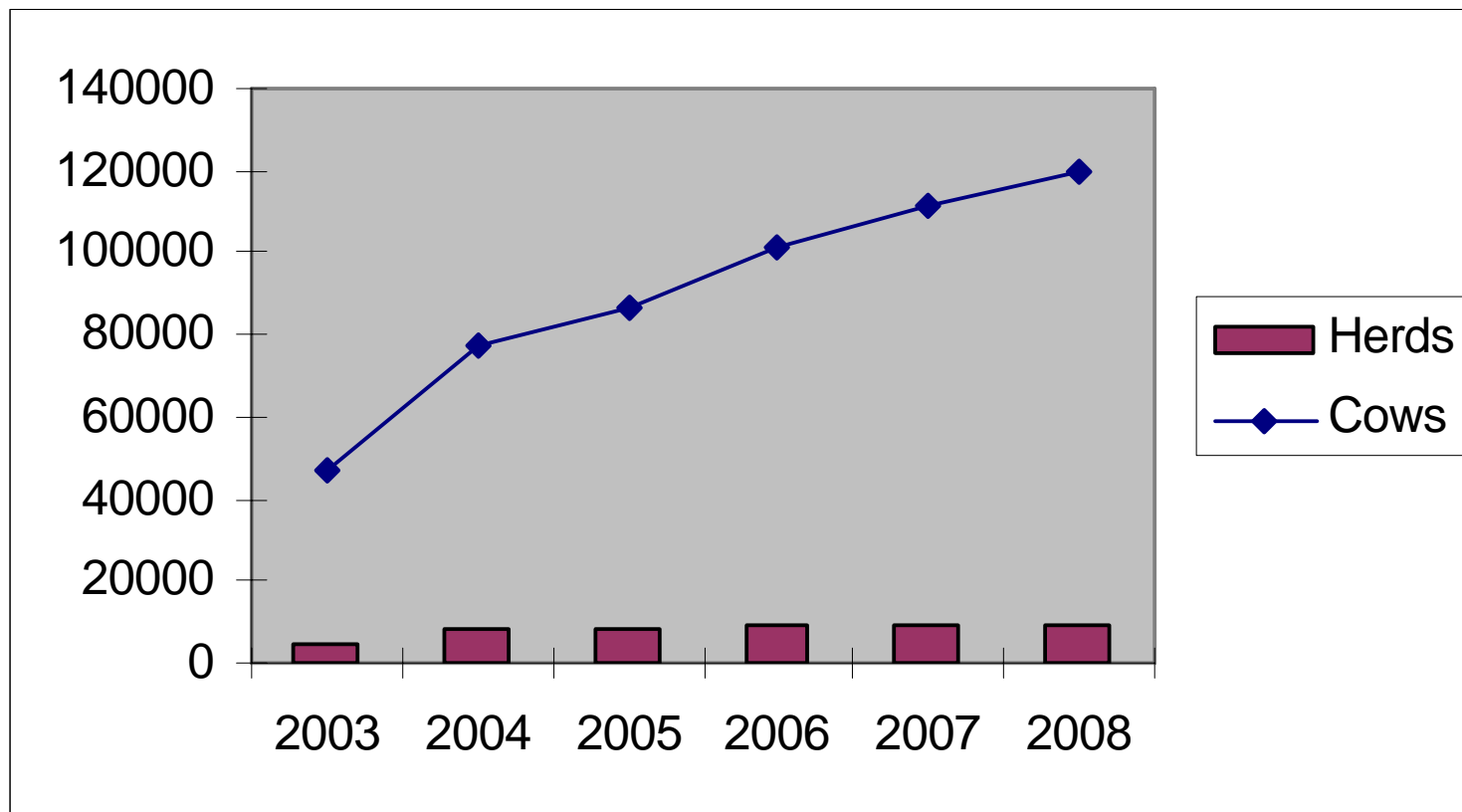


General data

- Total 226.000 cows (2008)
- 120.001 recorded cows (53.1%)
- 9.122 recorded herds (ø 13.3 cows per herd)
- Breed structure in recorded herds:
 - Simmental (62.6%)
 - Holstein (34.9%)
 - Brown (2.3%)
 - Others (0.2%)



Milk recording development





Milking systems

- Milking in milking buckets (small herds)
 - 93.5 % recorded herds
 - 66.6 % recorded cows
- Milking pipeline (small herds)
 - 2.2 % recorded herds
 - 4.3 % recorded cows
- Milking parlour (large herds)
 - 4.3 % recorded herds
 - 29.1 % recorded cows

Measurement devices in small herds

- Electronic scale

- 93.5 % recorded herds
- 66.6 % recorded cows

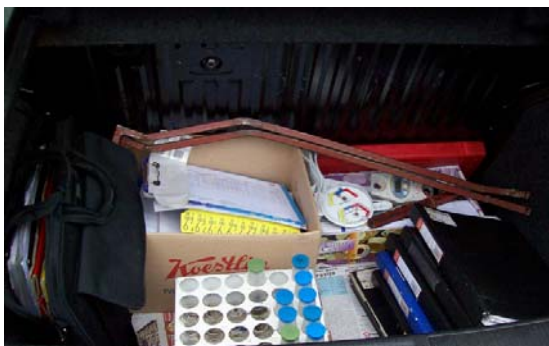


- Waikato Milk Meter

- 2.2 % recorded herds
- 4.3 % recorded cows



Electronic scale & Waikato



- Arrival of control assistant to farm
- Preparation of control assistant for work



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Workshop, Croatia

Electronic scala



■ Preparation of measure equipment

- setting of a mobile rack for stability and precision of scale measuring
- weighing of empty jar
- Tare weight taking of empty jar
- scale is ready for work

Waikato



- Mk V Milk Meter
- Regularly appliance control (two times per year - control assistant)
- Annual appliance control (ones a year)
- The test procedure – approved by ICAR

Electronic scale & Waikato



- Identification of cows by number of ear tags through PDA
- Check identification in Central database
- Check the status of cow before the implementation of recording



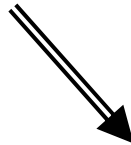
Electronic scale & Waikato



■ Preparing of bottle for sampling

- preparation of bar code label
- paste of bar code label on the bottle
- verification of preservative (azidiol)
- bottle is ready for sampling

Electronic scale & Waikato



■ Milk recording

- preparation for milking and placing the milking equipment
- checking the start time of milking
- milking



Elektronska vaga



■ Milk recording

- checking the finish time of milking (duration of milking ↔ average flow of milk)
- preparation for weighing
- weighing and determining the produced quantity of milk

Electronic scale



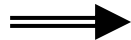
- Milk sample preparation

Waikato Milk Meter



- Correct installation of measuring devices
- Placing of milking devices
- Measuring the quantity of milk
- Sampling of milk

Electronic scale & Waikato



■ Enter data

- data entry on produced amount of milk and reading bar code
- data sending in Central database



Electronic scale & Waikato



- Placing of milk recording samples in the case
- Transport of samples to the Central laboratory for the control of milk



Heat stress



- Measuring air temperature in the stable
- Measuring relative humidity in stable
- Temperature – humid index (THI)

Data recording (1)



- Handheld computer to enter data of milk recording



Data recording (2)

- Software for data recording

Glavna

Marko Nemet 662
VRBOVEC

REGISTRACIJA TELADI

IZGUBLJENE MARKICE

KONTROLA MLJJEKA

ISPISI - PREGLEDI

IZLAZ

Kontrola mužnje 10:42 ok

ID: 17030390 Pretrazi

Ime: SLAVKO

Prezime: KOLENČIĆ

Post/MJ: 10346 SLATINA

Adresa: SLATINA 57

TIP: ☒ AT ☐ A4

POJEDINAČNO IZMUZIŠTE

IZLAZ

Popis krava 11:03 ok

Temp. zraka 0 °C Rel. vlaga zraka 0 %

Zivotni broj	Naziv grla
HR 0017023652	
HR 0017004790	
HR 0017074070	SVILKA
HR 0017034903	
HR 0017018899	
HR 0017027625	
HR 1100660354	
HR 0072035411	
HR 0017007199	

IZLAZ OBRIŠI ULAZ

Mužnja 12:35 ok

HR 0017008445

JLB:

Ranija Trenutna mužnja

Sat	Min	Sat	Min	Količina

Protok: 0 l / min

Trajanje mužnje: 00 min 00 sec

START RESET

IZLAZ SPREMI

Other dairy systems (1)



■ Milking Parlour Types

- Tandem
- Parallel
- Herringbone
- Rotary



Other dairy systems (2)

■ Robotic Milking

□ 1 Farm, 6 Milking Robots





***THANK YOU FOR YOUR
ATTENTION !***