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Report of WG Milk Recording in Goats

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Activity Milk Recording in Goats Working Group

- Third biennial survey
- Questionnaire (to 46 countries)
- Collections of answers from 18 members of ICAR (14 with data, 4 NO recording)
- Proposal of "Guidelines for milk recording in goats"



Goat in the World

- Goat are the fourth largest group domestic animal in the world
- **In the last 15 years:**
- Number of sheep -10 %
- Number of goat: from 520 ↗ 807 million head (+55 %),
- Goat milk: from 8,5 ↗ 13 mt, (+48 %) (=2% world production)
- Important sector in developing countries!
- In some countries goat milk play a part of total milk: Bangladesh (62 %) Somalia 51 %, Mali 40 %,
- Indonesia 33 %, Greece 26 %, Sudan 25 %, Spain 6 %, France 2 %, – (FAO, 2005).



Using of Milk Recording Method

Country	A4	AT4	B4	A5	AT5	A6	AC
Belgium		✓					
Canada	✓		✓				
Croatia		✓					
Czech R.	✓	✓					
France	✓	✓		✓	✓		
Germany	✓	✓	✓				
Greece	✓						
Italy		✓					
Norway			✓				
Slovenia		✓					
Slovak R.							✓
Spain	✓	✓				✓	
Switzerland	✓						
UK	✓						



Milk analysis in laboratory

Country	Fat	Protein	Lactose	SCC	Other
Belgium	✓	✓	✓		
Canada	✓	✓		✓	MUN
Croatia	✓	✓	✓	✓	
Czech R.	✓	✓	✓	✓	
France	✓	✓	✓	✓	
Germany	✓	✓	✓	✓	urea
Greece	✓				
Italy	✓	✓			
Norway	✓	✓	✓	✓	
Slovenia	✓	✓	✓		
Slovak R.	✓	✓	✓		
Spain	✓	✓	✓	✓	
Switzerland	✓				
UK	✓	✓	✓	✓	



Milk yield - results (avg./min-max)

Country	Milk yield, kg	Fat %	Protein %	Type of lact.
Belgium				
Canada	487 - 756	3.01 – 4.37	2.90 – 3.64	TMY
Croatia	518 - 724	3.35 – 3.55	3.05 – 3.23	TSMM
Czech R.	759 - 806	3.14 – 3.42	2.81 – 2.88	TSM, TMY
France	188-795	3.40 – 4.40	3.21 – 3.39	TMY
Germany	655 - 896	3.15 – 4.65	3.07 – 3.75	TSM, TMY
Greece	313	>5.0		TMM
Italy	140 - 514	3.08 – 4.88	2.74 – 3.72	TMY
Norway	617	3.73	2.97	TMY
Slovenia	358 - 585	3.30 – 4.50	2.90 – 3.50	TMM
Slovak R.	482	3.50	2.80	TMM
Spain	254 - 641	4.51 – 5.20	3.34 – 3.60	TMM, TMY
Switzerland				
UK	1201 – 1296*	2.99 – 3.20	2.49 – 2.74	TMY

* In 365 days



Type of lactation

- **TSMM:** total suckled and milked milk (case of milking after a suckling period)
- **TMM:** total milked milk (case of milking after a suckling period)
- **TMY:** total milk yield (case of milking from kidding, without a suckling period)



Recording of other (non-milking) traits

Country	Reproduc. traits	Weights & growth	Udder score	Longevity	Body score	Other
Belgium		✓	✓		✓	
Canada						
Croatia	✓	✓	✓	✓		
Czech R.	✓	✓				
France	✓		✓			✓
Germany	✓	✓	✓		✓	✓
Greece						
Italy			✓			✓
Norway			✓			✓
Slovenia	✓	✓				✓
Slovak R.	✓	✓	✓	✓		
Spain			✓			
Switzerland		✓				
UK						



Milk recording equipment used

Country	Tru-Test	Waikato	Westfalia	Alfa Laval	Miele	Other
Belgium						
Canada	✓	✓				
Croatia						Cartel
Czech R.	✓					
France						
Germany	✓		✓	✓	✓	
Greece						
Italy	✓		✓			Mibo
Norway	✓					
Slovenia	✓					
Slovak R.	✓					
Spain	✓	✓	✓			
Switzerland						Grupepar
UK						



Molecular information

Country	Type of genotyping	Number of analysis,	Use in experimental program	Use in selection program
CZECH REPUBLIC	Filiation tests PrP genotyping Protein			
FRANCE	Filiation tests PrP genotyping Protein		Yes	Yes Yes
SLOVENIA	Alfa-casein PrP genotyping		Yes	
SPAIN	Filiation test Alfa-casein	664 28		Yes



ICAR RULES, STANDARDS AND GUIDELINES FOR MILK RECORDING IN GOATS

- 2004 1st draft version on discussion on Board and WG
- 2005 some corrections are made
- 2006 1st version on the ICAR webpage is available
- 2006 WG corrections (KUOPIO) and NEW version (2) available on ICAR webpage



ICAR RULES, STANDARDS AND GUIDELINES FOR MILK RECORDING IN GOATS

Corrections in KUOPIO:

New method (E) was included in chapter 1.7

- The rule of recording all the animals of the flock may not be respected (only designated goats or designated lactations are recorded)



**ICAR RULES, STANDARDS AND GUIDELINES
FOR MILK RECORDING IN GOATS**

Corrections in KUOPIO:

In chapter 1.8.1 (First test-day for a doe)

More precise is defined first milk recording by doe in case:

- Milking from kidding
- Milking after suckling



Conclusions 1

- Increasing importance of simplification of milk recording
- The great diversity in lactation calculation
- Big differences in milk yield between breeds and countries
- The development of optional recordings: milk composition and non-milking traits
- Closely cooperation with other ICAR WG



Provided by Crystal D'Eon



Conclusions 2

WG Milk Recording in Goats propose that General Assembly approve:

ICAR RULES, STANDARDS AND GUIDELINES FOR MILK RECORDING IN GOATS

<http://www.ICAR.org>



Provided by Crystal D'Eon



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Thank you for your attention!