Meeting of the ICAR Working Group on Milk Recording of Sheep Riga, Latvia, 1st June 2010

Draft agenda

- Changes in the constitution of the group
- Main activities of the WG over the last 2 years
- Presentation of the results of the on-line enquiry
- How to handle situations where meeting the guidelines is difficult?
- Including udder morphology in the guidelines
- Relaxing or not relaxing the requirements for recording devices?
- Glossary
- Miscellaneous

Agenda 1

Members of the Working Group in Niagara Falls

Jean-Michel ASTRUC	France	Institut de l'Elevage
Francis BARILLET	France	INRA
Antonello CARTA	Italy	AGRIS Sardinia
Mauro FIORETTI	Italy	AIA
Elisha GOOTWINE	Israel	Volcani Center
Drago KOMPAN	Slovenia	University of Ljubljana
Franz-Josef ROMBERG	Germany	Dienstleistungszentrum Ländlicher Raum Westpfalz
Eva UGARTE	Spain	NEIKER

In red: new members

Members of the Working Group in Riga

Jean-Michel ASTRUC	France	Institut de l'Elevage
Zdravko BARAC	Croatia	Croatian Agricultural Agency
Francis BARILLET	France	INRA
Antonello CARTA	Italy	AGRIS Sardinia
Mauro FIORETTI	Italy	AIA—
Elisha GOOTWINE	Israel	Volcani Center
Drago KOMPAN	Slovenia	University of Ljubljana
Franz-Josef ROMBERG	Germany	Dienstleistungszentrum Ländlicher Raum Westpfalz
Alessia TONDO	Italy	AIA
Eva UGARTE	Spain	NEIKER

In red: new members

In green : old members

Greek member?

Agenda 2

Main activities of the WG over the last 2 years (1/2)

Few activities ...

No emendations of the guidelines

Last emendations in 2005

Report of the activities, communication

Synthesis of the situation of the WG for the Porec (Croatia) session in May 2009. Nobody present.

On-line enquiry

Preparation of the Riga session: tables, slides

Main activities of the WG over the last 2 years (2/2)

Co-operation with other bodies of ICAR

Recording devices Sub-Committee: meeting on 21 March 2009 about the requirements for sheep

WG on Milk Recording of Goats: none

Preparation of the Riga session

PRESENTATION

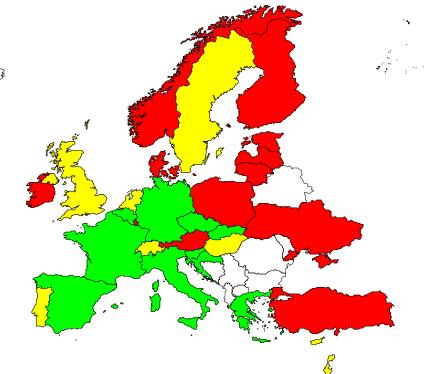
OF THE RESULTS

OF THE ON-LINE ENQUIRY

Yearly enquiry on-line

Green: ICAR countries having submitted data to the database since 2008

Yellow: ICAR countries having sawering the survey at least once between 1988 and 2008



ONLY 10 submissions in 2008-2010

Remind regularly the countries

Survey on milk recording of sheep

■10 answers

Belgium Germany Slovak Rep.

Croatia Greece Slovenia

Czech Rep. Italy Spain

France

Hungary, Tunisia,

Israel? Turkey, Portugal, Cyprus?

Recorded population - countries (ICAR 2010)

Countries	Size of population		Recorde	ed population	% recorded population
	#flocks	# ewes	#flocks	# ewes	
Italy (2009)		5,617,000 1	3,075	479,897	8.5%
Spain (2008)	>11,139	3,064,000	543	305,402 🗷	10.0%
France (2009) ²	4,913	1,445,000	781	301,823	20.9%
Greece (2007)	150,000	7,034,000 1	581	90,834 🗷	1.3%
Israel (2007)	64	35,000	22	18,600 🗷	53.1%
Slovak Rep (2009)		220,000 1	119	17,883	8.1%

¹ figures from STATFAO

Recorded population - countries (ICAR 2010)

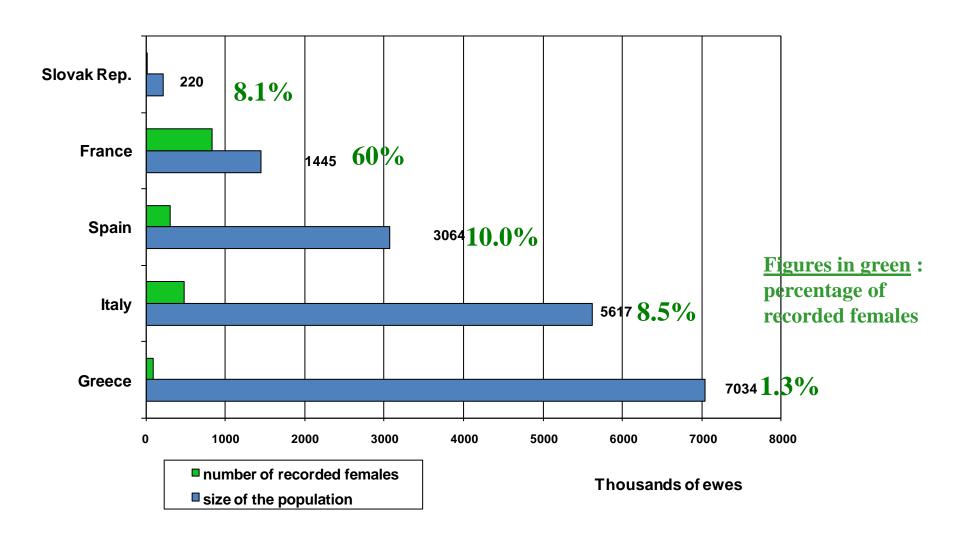
Countries	Size of population			orded ılation	% recorded population
	#flocks	# ewes	#flocks	# ewes	
Spain (2008)	>11,139	3,064,000	543	305,402	10.0%
Spain local breeds (2008)	11,139	11,139 1,491,785		229,402	15.4%
Spain foreign breeds (2008)		930,000 ³	135	76,000	8.2%

³ deduced from STATFAO

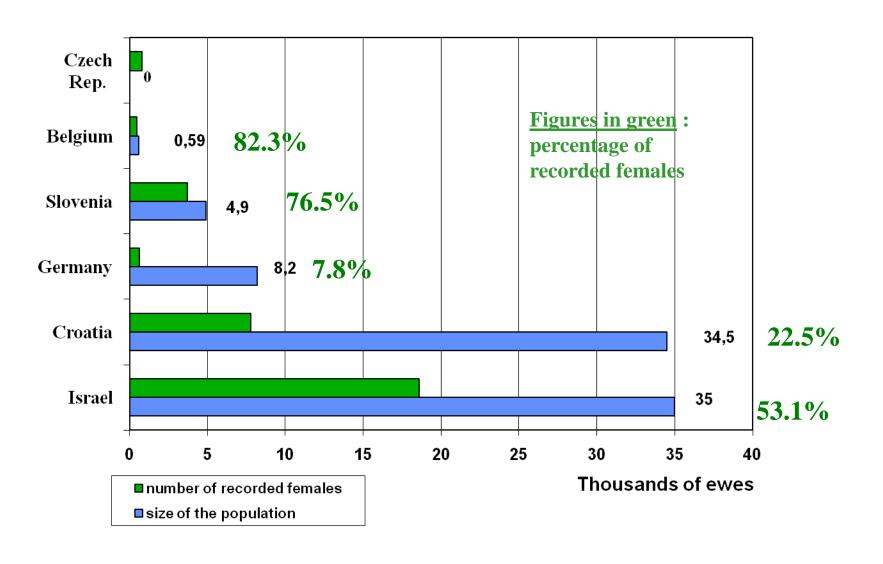
Recorded population - countries (ICAR 2010)

Countries	Size of population		Recorded populatio		% recorded population
	#flocks	# ewes	#flocks	# ewes	
Croatia (2009)	690	34,500	126	7,770	22.5%
Slovenia (2009)	115	4,900	41	3,749	76.5%
Czech Rep (2009)			23	821	
Germany (2009)	511	8,204	54	638	7.8%
Belgium (2008- 2009)	21	593	19	488	82.3%
TOTAL			4,862	1,227,905	

Sheep milk recording in countries with more than 100,000 ewes (ICAR 2010)



Sheep milk recording in countries with less than 50,000 ewes (ICAR 2010)



Countries	Breeds	Size of population		Recorded population		% recorded population
		#flocks	# ewes	#flocks	# ewes	
Belgium (2008-2009)	Mouton Laitier Belge	21	593	19	488	82.3%
Israel (2007)	Assaf			21	17,100	
	Improved Awassi			1	1,500	

Countries	Breeds	Size of population		Recorded populatio		% recorded population
		#flocks	# ewes	#flocks	# ewes	
Czech Rep. (2009)	Lacaune			3	402	
(2009)	East Friesian			18	350	
	Bohemian Forest Sheep			1	68	
	Improved Valachian			1	1	

Countries	Breeds	Size of population		Recorded populatio		% recorded population
		#flocks	# ewes	#flocks	# ewes	
Germany (2009)	Ostfriesisches Milchschaf	510	8,100	53	601	7.4 %
	Lacaune	1	104	1	36	34.6%
Slovak Rep. (2009)	Improved Valachian		91,000 (*)	46	8,497	9.3 %
	Tsigai		72,000 (*)	36	5,920	8.2 %
	Hybrids			19	2,676	
	Lacaune			13	714	
	East Friesian			5	76	

Countries	Breeds	Size of population		Recorded populatio		% recorded population
		#flocks	# ewes	#flocks	# ewes	
Croatia	Paska	600	30,000	55	4,253	14.2 %
(2009)	Istrian	40	2,500	39	2,142	85.7 %
	East Friesian	50	2,000	32	1,375	68.8 %
Slovenia	Bovec	75	2,700	26	2,292	84.9 %
(2009)	Istrian Pramenka	15	1,100	5	901	81.9 %
	Improved Bovec	25	1,100	10	556	50.5 %

Countries	Breeds	ds Size of populat			orded ılation	% recorded	Ewes in D
		#flocks	# ewes	#flocks	# ewes	population	method
France	Lacaune	2,600	900,000	376	173,568	75.3 %	504,081
(2009)	Manech Tête Rousse	1,150	270,000	203	70,712	33.2 %	18,928
	Corse	420	95,000	72	21,050	24.2 %	1,982
	Basco- Béarnaise	420	80,000	78	21,984	34.3 %	5,427
	Manech Tête Noire	510	100,000	52	14,509	15.4 %	881

Countries	Breeds	Size of population		Recorded population		% recorded population
		#flocks	# ewes	#flocks	# ewes	
Greece	Xios	189	49,430	96	24,135	48.8 %
(2007)	Lesvou	1,650	254,000	131	23,280	9,2 %.
	Frisarta	635	54,500	83	10,510	19.3 %
	Sfakion	480	58,000	69	8,687	15.0 %
	Karagouniki	2,850	190,800	77	8,021	4.2 %
	Serron	68	7,500	62	6,862	91.5 %
	Kefallinias	300	32,000	14	2,450	7.7 %
	Karistou	450	60,000	17	2,100	3.5 %
	Katsika	6	1,880	6	1,880	100%

Countries	Breeds		Size of population		orded llation	% recorded population
		#flocks	# ewes	#flocks	# ewes	
Greece	Zakynthou	10	845	10	845	100 %
(2007)	Kimis	11	703	11	703	100 %
	Kalaritiki	22	6,589	1	680	10.3%
	Agriniou	3	653	3	653	100 %
	Sarakatsaniko	4	1,166	1	28	2.4%
	Pilioritiki	28	2,906			0
	Glossas Skopelous	20	2,815			0
	Florina- Pelagonias	2	200			0
	Thrakis	1	190			0

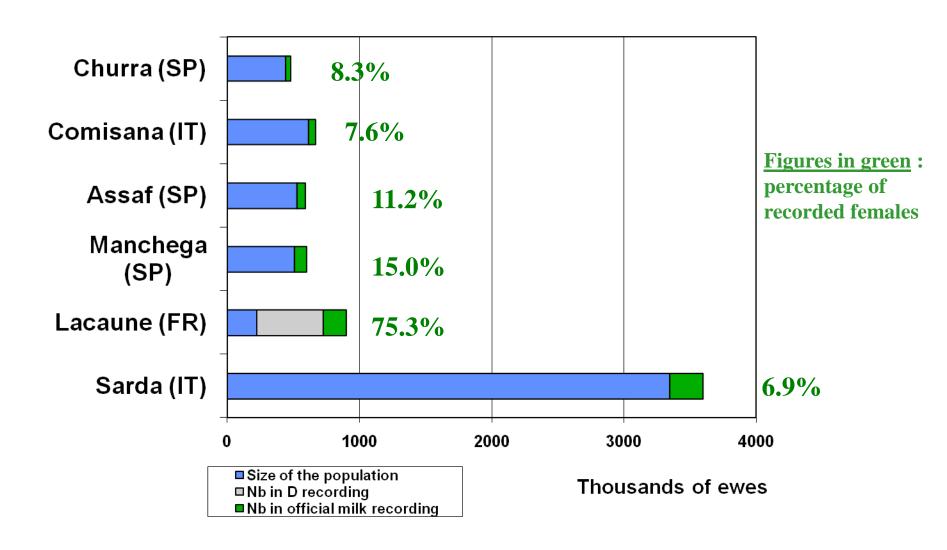
724,177 purebred sheep (out of 7,034,000 dairy sheep on the whole

Countries	Breeds	Size of population		Recorded population		% recorded population
		#flocks	# ewes	#flocks	# ewes	
Italy (2009)	Sarda	13,000	3,600,000	1,095	249,072	6.9 %
	Valle del Belice		?	970	138,123	
	Comisana		666,000	581	50,505	7.6 %
	Pinzirita		?	234	30,051	
	Massese			59	4,764	
	Delle Langhe			86	2,661	
	Brigasca			8	1,421	
	Lacaune			10	1,365	

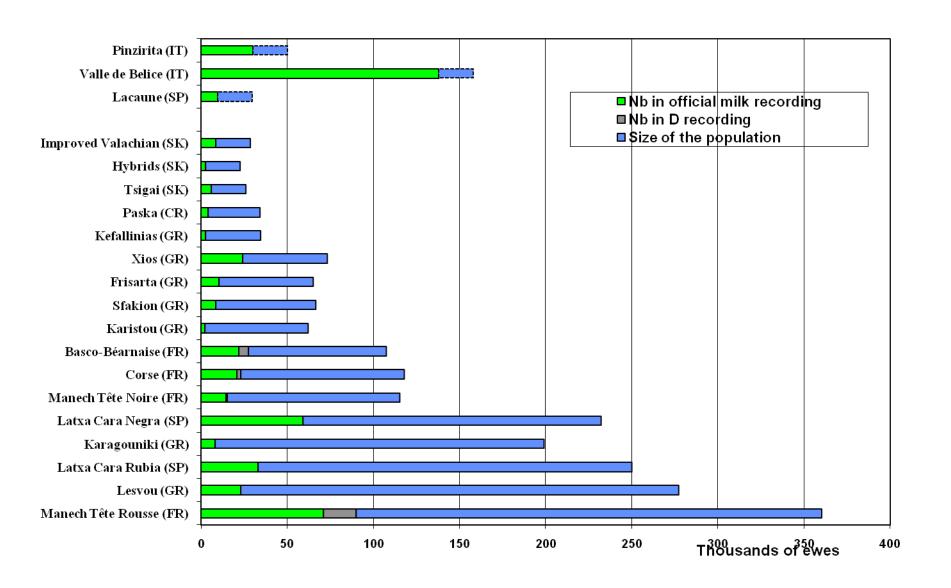
Countries	Breeds	Size of population		Recorded population		% recorded population
		#flocks	# ewes	#flocks	# ewes	
Italy (2009)	Barbaresca			16	1,162	
	Moscia Leccese			8	618	
	Altamurana			2	92	
	Frisona			4	41	
	Nera di Arbus			2	22	

Countries	Breeds	Size of population		Recorded population		% recorded population
		#flocks	# ewes	#flocks	# ewes	
Spain	Manchega	1,025	600,000	111	90,000	15.0%
(2008	Assaf		592,949	126	66,500	11.2%
/2009)	Latxa CN	4,146	173,237	123	59,279	34.2%
	Churra	950	480,000	85	40,010	8.3%
	Latxa CR	4,266	217,165	67	32,964	15.2%
	Lacaune	52	46,751	9	9,500	20.3%
	Karranzana	696	12,401	7	3,424	27.6%
	Colmenarena	11	3,039	4	2,231	73.4%
	Merina de Grazalema	34	4,676	8	983	21.0%
	Rubia del Molar	11	1,267	3	511	40.3%

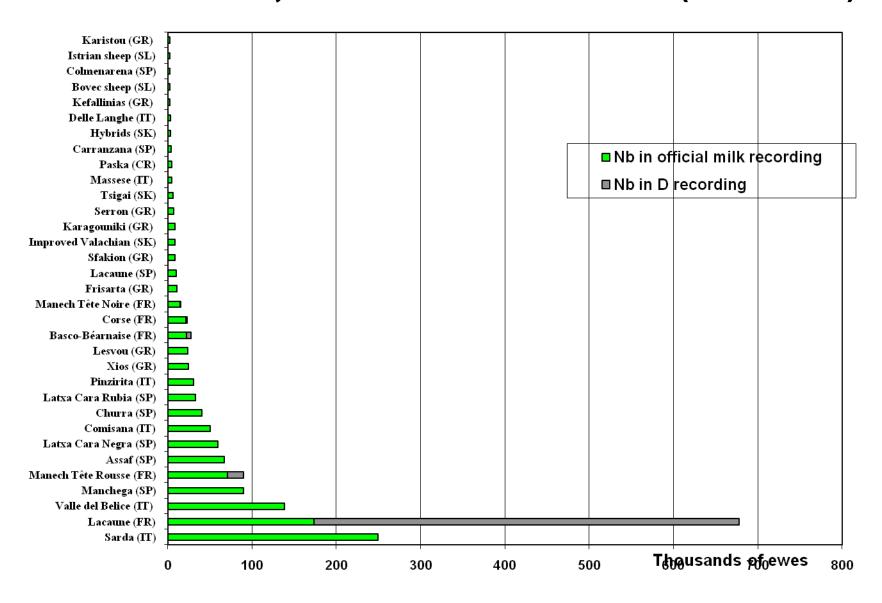
Sheep milk recording in breeds with more than 400,000 ewes (ICAR 2010)



Sheep milk recording in breeds with more than 20,000 ewes (ICAR 2010)



Sheep milk recording in breeds with more than 2,000 recorded ewes (ICAR 2010)



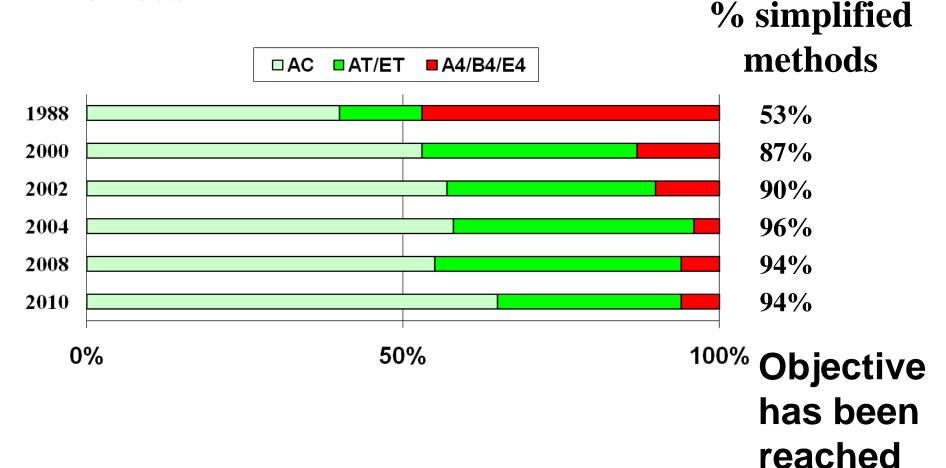
Methods and recording intervals

Countries	A4	AT	AC	Е
Belgium		100		
Slovenia		100		
Germany	34	29		37
France			100	
Czech Rep.		Part		Part (ET)
Spain				
Churra & Manchega & Assaf		100		
Latxa & Karranz.		Part (50)	Part (50)	
Lacaune	100			
Greece	100			
Croatia		100		
Slovak Rep.			100	
Italy		Part	Part	

Simplification of Milk recording

Milk yield: increasing use of simplified (AT or AC)

methods



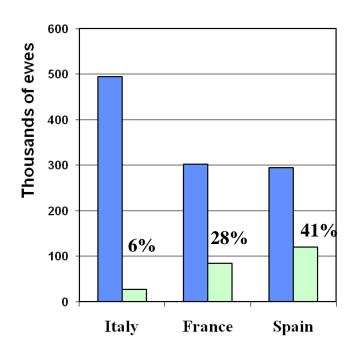
Methods and recording intervals

Simplified methods: 8/10 countries

AT	Belgium, Slovenia, Croatia, Czech (part), Germany (<1/3)
AC	France, Slovak
AT & AC	Italy, Spain
A4	Greece, Germany (1/3),Spain(3%)
E	Germany (>1/3), Czech (part)

Simplification of Milk quality recording

Italy, France & Spain represent 90% of all the recorded dairy sheep in ICAR member countries



■ Ewes in official milk recording

□ Ewes with samplings/analysis

HIGH COST OF RECORDING IN SHEEP

. . .

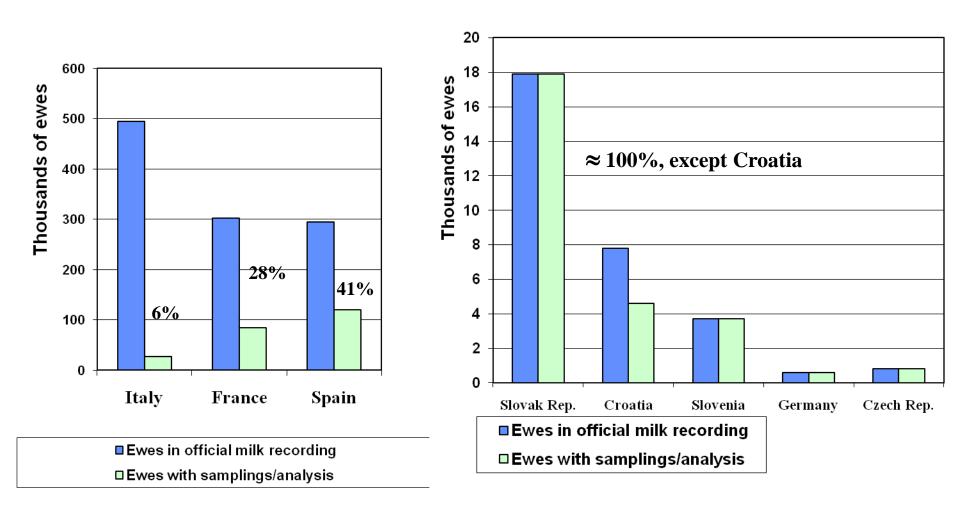
... SIMPLIFIED STRATEGIES OF RECORDING

→ Only 21% of the recorded ewes are submitted to qualitative recording

→ In France, only half the test-days are sampled (3/6 per ewe)

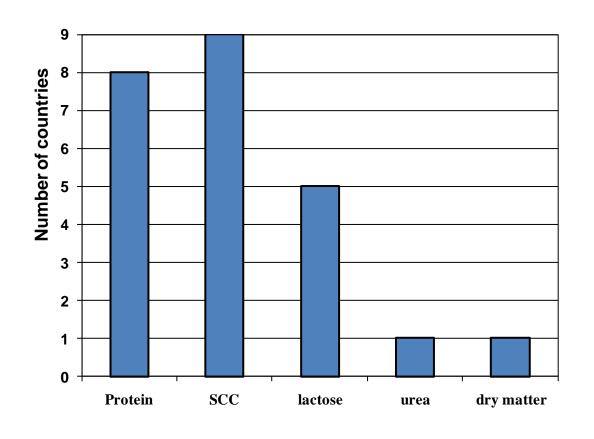
- Relevant for genetic purposes
- But not compatible with a too low accuracy of measures

Part of the ewes in official milk recording submitted to qualitative recording



Part-lactation sampling: France, Italy, Slovak Rep.

Type of analysis done by countries



SCC: all

Lactose: Croatia, Czech, Germany, Slovenia, Spain

<u>Urea</u>: Germany

Dry matter: Spain

Fat & SCC: Greece

Type of analysis done by countries

	F	P	Lactose	SCC	Urea	Dry matter
Slovenia	X	X	X	X		
Slovak	X	X		X		
Germany	X	X	X	X	X	
France	X	X		X		
Czech	X	X	X	X		
Croatia	X	X	X	X		
Greece	X			X		
Italy (Sarda)	X	X		X		
Spain Latxa Manchega Churra Assaf	X X X X	X X X X	X X X	X X X X		X X

Method used and number of ewes sampled

	Categories of ewes	Number of ewes	Method
Slovenia	All ewes		AT
Slovak	Parity 1 to 3	17,883	AC
Germany		602	A4,B4,AT4,E4
Greece			A4
France Pyrenean breeds Lacaune breed	Parity 1 Parity 1 & 2	19,269 64,897	Part-lactation sampling
Czech			АТ,Е
Croatia		4,619	AT
Italy (Sarda)	Parity 1	25,108	Part-lactation sampling
Spain Latxa Manchega Churra Assaf			AC AT AT AT

Breeding schemes and selection criteria

FRANCE - 2009

	Number of AI progeny- tested rams (2009)	AI (2008) fresh	Year of starting	Selection criteria
Lacaune	445	395,812	1968	(FY+PY+1/16F%+1/8P%) + 0.5 SCC + 0.5 Udder
Manech tête rousse	151	56,760	1977	FY+PY+F%+P%
Manech tête noire	36	7,869	1977	FY+PY+F%+P%
Basco- Béarnaise	52	14,128	1977	FY+PY+F%+P%
Corse	31	6,336	1992	MY

+ PrP: selection on scrapie resistance

Breeding schemes and selection criteria

SPAIN - 2008

	Number of AI progeny- tested rams (2008)	AI (2008) Fresh (frozen)	Year of starting	Selection criteria
Latxa blond- faced	30	9,210	1984	MY,F,P,Lactose,S CS, dry matter,
Latxa black- faced	50	15,103	1985	udder, morphology
Karranzana	2	300	1985	MY,morphology
Manchega	150/175	35,764	1988	MY,F,P,SCS, udder
Churra	51	8,850 (frozen: 3,454)	1986	MY,F,P,lactose, SCS, udder
Assaf	60	6,488 (frozen : 160)		

+ PrP: selection on scrapie resistance

Breeding schemes and selection criteria

ITALY

	Number of AI progeny-tested rams	AI (2009) Fresh	Year of starting	Selection criteria
Sarda (IT)	60	15,000	1986	MY, udder morphology

+ PrP: selection on scrapie resistance

Milk yield: type of lactation calculation (ICAR 2010)

Countries	Lactation calculation	Production of reference
Belgium	TMM	
Italy	TSMM,TMM	TMM
Slovak Rep.	TMM	TMM (150-160)
Czech Rep.	TSMM,TMM	TSMM,TMM
France	TMM	
Croatia	TSMM,TMM	

Milk yield: type of lactation calculation (ICAR 2010)

Countries	Lactation calculation	Production of reference
Germany	TMY (main), TMM (few)	TMY (150), TMY (150)
Slovenia	TSMM,TMM,TMY	
Greece	TMM	TMM
Spain		
Churra	TSMM,TMM	TMM (120)
Manchega	TSMM,TMM	TSMM (120), TMM (120)
Latxa/Karr.	TSMM,TMM,TMY	TSMM (120), TMM (120)
Assaf	TSMM, TMY	TSMM (150), TMM (150), TMY (150-210),
Lacaune	TMY	TMY (200)

	Average MY per recorded ewe in liters (length in days)		
	[a = TMY / b = TN	MM / c = TSMM / ref = refe	erence length in days]
	Yearlings	Adults	All ewes
CROATIA	[b]	[b]	[b]
East Friesian	152	175	166
Paška	85	100	100
Istrian Pramenka	110	138	132
CZECH REP.			[?]
East Friesian			263
GERMANY			[a]
East Friesian			313 (ref :150)
Lacaune			300 (ref :150)
FRANCE			[b]
Lacaune			272 (164)
Basco-Béarnaise			164 (146)
Manech tête noire			134 (139)
Manech tête rousse			180(155)
Corse			133 (182)

	Average MY pe	r recorded ewe in lite	ers (length in days)
	[a = TMY / b = TN	MM / c = TSMM / ref = refe	erence length in days]
	Yearlings	Adults	All ewes
SLOVAK REP.			[b]
East Friesian			183
Lacaune			205
Hybrids			138
Tsigai			98
Improved Valachian			107
GREECE			[b]
Karagouniki			189
Lesvos			184
Chios			308
Frisarta			237
Serron			138
Sfakion			156
Kefallinias			163

	Average MY per recorded ewe in liters (length in days) [a = TMY / b = TMM / c = TSMM / ref = reference length in days]		
	Yearlings	Adults	All ewes
ITALIA	[b/ref]	[b/ref]	[b/ref]
Valle de Belice	119	209	202
Sarda	191	196	188
Comisana	97	187	182
Barbaresca	99	166	161
Langhe	113	161	157
Massese	112	132	131
Pinzirita	67	118	115
Moscia Leccese	84	128	127
Altamurana		38	38
Brigasca		93	93
Nera di Arbus		156	156

Warning: until now, the yield was TMM. In 2009: TMM / ref

	Average MY per recorded ewe in liters (length in days)		
	[a = TMY / b = TM	MM / c = TSMM / ref = refe	erence length in days]
	Yearlings	Adults	All ewes
SLOVENIA			[b]
Bovec			183
Improved Bovec			219
Istrian Pramenka			87
SPAIN			
Churra	85 [b] (ref : 120)	91 [b] (ref : 120)	90 [b] (ref : 120)
Latxa blond-faced	144 [b]	152 [b]	
Latxa black-faced	131 [b]	158 [b]	
Karranzana	181 [b]	190 [b]	188 [b]
Manchega	150 [c] (ref : 120)	160 [c] (ref : 120)	154 [c] (ref : 120)
Assaf	370 [c]	420 [c]	400 [c]
Lacaune	287 [c] (ref : 200)	399 [c] (ref : 200)	361 [c] (ref : 200)
Merina de Grazalema	69 [b]	125 [b]	123 [b]
Colmenarena	66 [c] (ref : 120)	64 [c] (ref : 120)	64 [c] (ref : 120)
Rubia del Molar		84 [b] (ref : 120)	84 [b] (ref : 120)

Milk recording equipment

	JARS	MILK METERS
CROATIA	Cartel Germany (Vol, No sampler, 33 in use)	
FRANCE	Gély (ex. Dintilhac (Vol, Sampler, 3,000 in use)	
GERMANY		Tru-Test (Weight)
GREECE		Strago, Westfalia, Hector, Flaco, Akma, Sylco, Westfalia, Full Ward, Milk Line, KTA, OMC, Westfalia, DeLaval, Sillaios, Georgopoulos, Manovak (Vol, Sampler)
SLOVAK REP.	Fisher Slovakia (vol, 20 in use)	Berango (Vol., no sampler, 226 in use) Milkovis (Vol., no sampler, 144 in use)

Milk recording equipment

	JARS	MILK METERS
ITALY (?)	Alfa Laval Mibo Royal Westfalia Separator Misurator e Italiana (all Vol, NS)	Tru-Test mod. H.I. (Weight, S, 11 in use)
SLOVENIA	(Vol, Sampler, 2)	Tru-Test, Girotech (Weight, Sampler, 45 in use)
SPAIN	(vol, sampler, 1 in use)	Berango (Vol, Sampler, 166 in use). Churra Esneder (Vol, Sampler, 425 in use). Assaf DeLaval, Flaco, Westfalia (Vol, Sampler, 1700 in use). Manchega Westfalia (MIBO) (Vol, Sampler, 432 in use). Latxa & Karrantzana

Molecular information

	FILIATION TEST	PRP GENOTYPING	OTHER
FRANCE	1,466 animals progeny-tested + some ewes	14,907 analysis	
GERMANY			
CZECH REP.		yes	
ITALY (2009)	35,000 analysis (140 flocks)	20,000 analysis	Microsatelites (QTL detection program)
SLOVAK REP.		2246 analysis	
SLOVENIA		2,255 analysis (253 flocks)	
SPAIN ??	32,136 animals (228 flocks)	118,075 analysis (616 flocks)	

Molecular information

	FILIATION TEST	PRP GENOTYPING	OTHER
BELGIUM (Wallonia)	673 animals	206	
CROATIA	-	-	

Recording of other traits

	TRAITS REPORTED TO BE AT LEAST ON-FARM RECORDED
BELGIUM	none
CROATIA	Reproductive traits, Birth weight
CZECH REP.	Reproductive traits, Weights
FRANCE	Reproductive traits, Udder score, Longevity, Cause of culling
GERMANY	Reproductive traits, Udder score, Wool quality, Appearance, Longevity, Weights
GREECE (2003)	Prolificacy
ISRAEL (2003)	Prolificacy, Age at first lambing, Open days
ITALY (2007)	Morphological evaluation, Udder score (Sarda)

Recording of other traits

	TRAITS REPORTED TO BE AT LEAST ON-FARM RECORDED
SLOVAK REP.	Reproductive traits, weights
SLOVENIA	Litter size and other data on reproductive cycle, Daily gain to weaning (on-farm), daily gain to puberty (on-station)
SPAIN	Udder score, longevity, prolificity, mortality, weights and growths

Agenda 4

Difficulties to meet the guidelines in some situations

See last meeting in Niagara Falls & explanation by Antonello Carta

1/Large size flocks have a part of the ewes which are registered and another part non-registered. This is due to difficulties in organizing the milk recording and reproduction activities for a large number of ewes. There is no evidence of preferential treatments of the registered part of the flock.

2/Some farmers are used to milking part of the flock twice and another part only once. This practice is particularly spread at the end of the milking period (May-June-July) when primiparous are always milked twice while adult ewes are often progressively dried-off by decreasing the milking frequency.

> AC recording difficult to implement

Difficulties to meet the guidelines in some situations

Presentation by Antonello Carta ... and decision to be taken

Agenda 5

Including udder traits in the guidelines

Purpose: propose different udder appraisal tables with udder morphological traits

Based on a work within a EU contract "Genesheepsafety" (2000-2002), 3 tables are proposed (Sarda, Churra – Spanish? – Lacaune)

Other tables may be added by other breeds/countries

Informative. Not normative.

Content in the guidelines:

1/Explain the purpose

2/Describe the general principle : several traits to appraise the udder, progressive linear scale

3/Describe the existing tables : description of the traits, sketch of the udder to illustrate, photos ?

4/Explain that the traits must be chosen according to the specificity of the udder of each given breed

Where in the guidelines:

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Cattle: specific part (section 5: conformation recording methods)
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Sheep: section 2.2 = milk recording in sheep \rightarrow section 2.2 = performance recording in dairy sheep?

2.2.3 : ICAR guidelines on optional records

Who and deadline?

GENERAL TERMS (*)	Spanish Linear Scale De la fuente et al. 1996	French Linear Scale Marie et al. 1999a	Italian Linear Scale Casu et al. 2000
TEAT POSITION 1 or 9 = vertical 1 or 9 = horizontal	9	9 θ 5 1	() 1 () 9
	Teat placement	Right teat angle	Udder cistern height

GENERAL TERMS (*)	Spanish Linear Scale De la fuente et al.	French Linear Scale Marie et al.	Italian Linear Scale Casu et al.	
UDDER DEPTH 1 or 9 = shallow 1 or 9 = deep	1996	9 1999a 5 1	2000	
	Udder depth respect to abdomen basis	Distance between udder floor and hock	Distance between udder cleft and hock	

GENERAL TERMS (*)	Spanish Linear Scale De la fuente et al.	French Linear Scale Marie et al.	Italian Linear Scale Casu et al.	
. ,	1996	1999a	2000	
UDDER ATTACHMENT	XX 9	ا کساخ 9	<u>ک</u> 9	
1 = weak		()	()	
9 = wide	1			
	Perimeter of insertion to the abdominal wall	Ratio: udder height / attachment width	Ratio: udder height / attachment width	

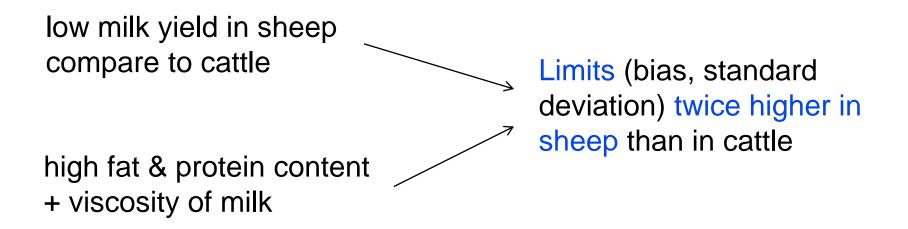
GENERAL	Spanish Linear Scale	French Linear Scale	Italian Linear Scale Casu
TERMS (*)	De la fuente et al.	Marie et al.	et al.
	1996	1999a	2000
UDDER CLEFT			į.
1 = missing		9	$\left \begin{array}{c c} \langle \cdot \rangle & 9 \end{array} \right $
9 = well marked	T	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
y – wen markeu	X	1 5	
		Furrow	Udder separation

GENERAL	Spanish Linear Scale	French Linear Scale	Italian Linear Scale Casu	
TERMS (*)	De la Fuente et al.	Marie et al.	et al.	
	1996	1999a	2000	
TEAT SIZE				
1 = short		T	T	
9 = long	9	X	X	
	Toot size			
	Teat size			

Agenda 6 Relevance of the requirements about the sheep recording devices

⇒ Context of cooperation with SC on Recording Devices (1)

90's : proposition of requirements by the Sheep WG on the following basis :



Limits of error (milk yield & fat content)

MILK YIELD	Cattle	Goats	Sheep
Bias	2%	3%	3%
	or 0.2 kg	or 25 ml	or 25 ml
Standard deviation	2.5% → 5%	5%	5%
	or 0.25 kg → 0,5 kg	or 40 ml	or 40 ml

FAT CONTENT	Cattle	Water buffaloes	Goats	Sheep
Bias	0.05%	0.10%	0.10%	0.10%
Standard deviation	0.10%	0.20%	0.20%	0.20%

Relevance of the requirements about the sheep recording devices

⇒ Context of cooperation with SC on Recording Devices (2)

Before 2006	2006	2007 - 2009			
No device tested/agreed for sheep	First meters tested in sheep (on-farm electronic milk meters)	2 meters passed ICAR tests			
	Are the guidelines relevant for sheep?	and portable milk meters ?			
	 Requirements are relevant for sheep and do not have to be relaxed. 				
	 Separate approval for go 	oats & sheep			

Co-operation within ICAR

Provisionally Approved milk meters for sheep and goats

On-farm fixed meters

Portable meters

Meter	Manufacturer	Species
Afifree	SAE Afikim	Sheep & goats
Free Flow Meter SG Additional name:	SCR Engineers Ltd. Sold by DeLaval	Sheep & Goats
MM25 SG Lactocorder	WMB AG	Goats

Co-operation within ICAR

Afifree MM25 SG Lactocorder







Relevance of the requirements about the sheep recording devices

⇒ Context of cooperation with SC on Recording Devices (3)

Cattle: demand of the manufacturers to relax the requirements (given development of on-farm meters and increase of number of measures)

	Cattle (before)	Cattle (before)	Cattle (now)	Cattle (now)
	MILK YIELD	FAT	MILK YIELD	FAT
Bias	2%	4%	2%	4%
	or 0.2 kg	or 80 ml	or 0.2 kg	or 80 ml
Standard	2.5%	5%	5%	5%
deviation	or 0.25 kg	or 100 ml	or 0.5 kg	or 100 ml

Relevance of the requirements about the sheep recording devices

⇒ Context of cooperation with SC on Recording Devices (3)

Sheep: demand of ICAR to study the possibility of relaxing the requirements in sheep

21 march 2009: meeting with Ufe Lauritsen, Andrea Rosati & Frank Armitage. How to handle the question of decreasing the limits. My answer: (1) I repeat the specificity of sheep regarding milk recording, (2) I say there will be discussion within the WG.

Agenda 7

A glossary of terms

Done in beef working group

http://www.icar.org/Documents/Glosary.pdf

9 pages, about 180 terms

From generic terms (ex. allele, breed, clone, ASCII) to specific terms (ex. average daily weight gain, carcass composition)

A glossary of terms

Interest for dairy sheep working group?

Defining specific terms or terms that somebody who would like to know by going straight to the point without reading the guidelines

Ex. total milk yield, total milk milked, total suckled + milked milk

Proposition

1/Identifying the relevant terms to be defined

2/Proposing a definition (on the basis of the guidelines)

OK or not OK? Who? Deadline?

Agenda 8

MISCELLANEOUS

Recorded population - countries (ICAR 2007)

countries	1988	1994	1996	1998	2000	2002	2004	2008
Belgium	NR	95						
Canada		NR						
Croatia								
Czech			75					
France	603,000	798,323	841,058					
Germany	356	1,460	1,237					
Greece	37,000	54,700	26,000					Australia
Hungary		1,154	6,160					Denmark
Israel		6,200	6,200					Finland
Italy	140,000	211,247	291,739					
Netherland	NR	3 flocks	400					Lux
Portugal	7,600	21,448	38,571					N Zealand
Slovak			5,076					Argentina
Slovenia		458	349					
Spain	110,000	90,757	174,597					
Sweden		NR	113					
Switzerland	204	340						
Tunisia	2,750	2,200						
UK	2 flocks	NR						