

# ICAR Inter Laboratory Proficiency Testing – Ireland Update

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## Irish Milk Recording Laboratories & ICAR

### ICAR Inter Laboratory Proficiency Testing – Ireland Update

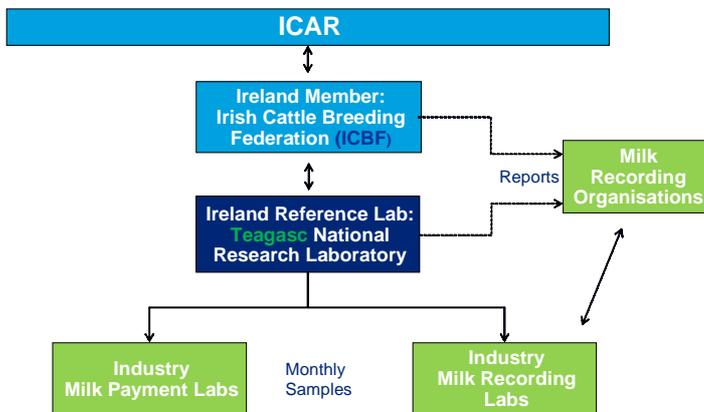
Review 2002 - 2011



Martin Burke (ICBF), Des Eason (Teagasc),  
Anne Marie McAuliffe (Teagasc)

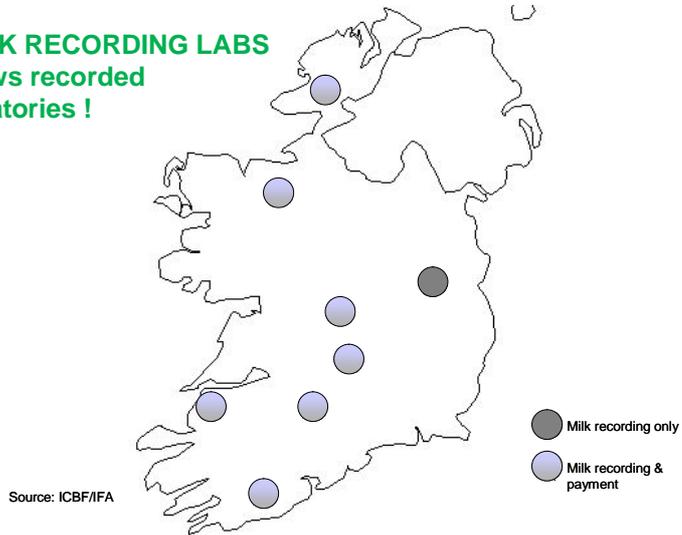
May 28<sup>th</sup> ICAR 2012 Cork

### Overview Ireland : Prof. Test Structure



### 10 Yrs Ago - Ireland Milk Recording Labs 2002

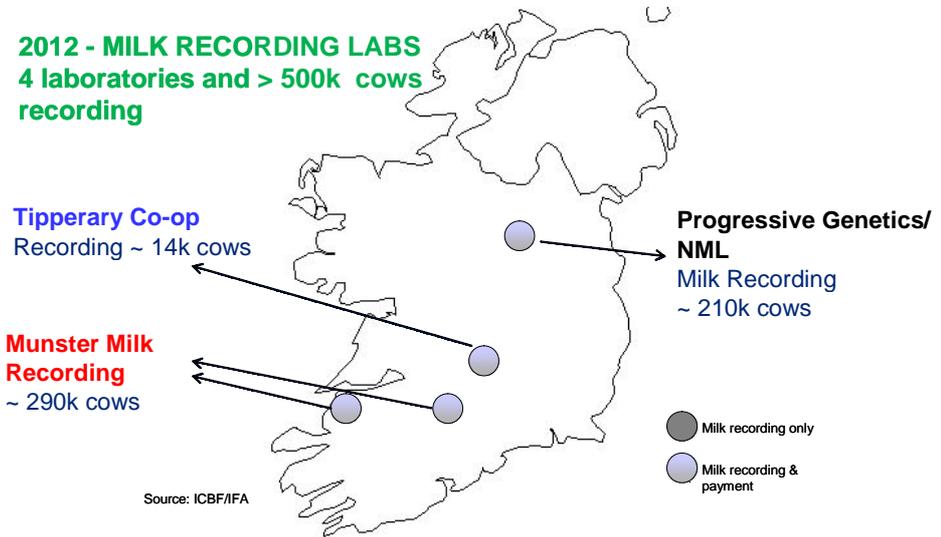
**2002 MILK RECORDING LABS**  
380K cows recorded  
- 8 laboratories !



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### Current - Ireland Milk Recording Landscape 2012

**2012 - MILK RECORDING LABS**  
4 laboratories and > 500k cows recording



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## Moorepark International Ring Test – ICAR Labs

- Moorepark participates in ICAR International ring tests twice a year
- For each test 10 milks are done by Moorepark for

% Fat        +/- 0.020 Mean diff and Std Dev of 0.030  
 % Protein   +/- 0.025 Mean diff and Std Dev of 0.020  
 % Lactose   +/- 0.100 Mean diff and Std Dev of 0.100  
 Somatics    +/- 35.1 Mean diff and Std Dev of 35.1 (cells by 1000)

Due to Staff retirements and new hire delay, the International Ring test was deferred – resuming again in 2012. !

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## Monthly Inter Lab Scoring System

- Whether Milk Rec. or Milk Payments - participate in Monthly ring tests.
- Teagasc Moorepark (National Dairy Research Lab) are contracted by ICBF to conduct the proficiency ring test each year. The system is very simple
- Each month each lab receives 2 samples to test from Teagasc Moorepark
- Test results to Moorepark & compared vs Reference Methods \*

**Tolerances; Fat +/-0.10, Prot +/-0.07, Lact +/-0.10, SCC +/- 15%**



1 Penalty Point and a Yellow Card if Difference is > tolerance



2 Penalty Points and a Red Card if Difference is > 2 x tolerance

(\* Rose Gottlieb (Fat), Kjeldahl (Prot) Polarimeter (Lact), SCC CECELAIT SRMs used)

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## Monthly Inter Lab Scoring Results 2011

Moorepark Proficiency Programme Report 2011															
Number of Yellow & Red cards received by each lab in the year 2011															
Lab Code	Fat			Protein			Lactose			SCC			TOTAL		
	Y	R	No of Tests	Y	R	No of Tests									
E	1	0	14	0	0	14	0	0	12	5	0	13	6	0	59
J	2	0	12	0	0	12	0	0	12	0	0	12	2	0	50
K	1	0	18	2	1	18	0	0	16	0	0	17	3	1	73
S	0	0	10	0	0	10	0	0	10	1	0	9	1	0	40
<b>Total</b>	<b>4</b>	<b>0</b>	<b>54</b>	<b>2</b>	<b>1</b>	<b>54</b>	<b>0</b>	<b>0</b>	<b>50</b>	<b>6</b>	<b>0</b>	<b>51</b>	<b>12</b>	<b>1</b>	<b>222</b>

Y 5.4%, R 0.5%

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## Monthly Inter Lab Scoring Results 2002 -2011

Moorepark Proficiency Programme Summary 2002 > 2011															
	Fat			Protein			Lactose			SCC			TOTAL		
	Y	R	No of Tests	Y	R	No of Tests	Y	R	No of Tests	Y	R	No of Tests	Y	R	No of Tests
2011 Totals	4	0	54	2	1	54	0	0	50	6	0	51	12	1	222
Percentages over 10 year period															
	% Y	% R		% Y	% R		% Y	% R		% Y	% R		% Y	% R	
% in 2011	7.4	0.0	😊	3.7	0.5	😊	0.0	0	😊	11.8	0	😊	5.4	0.5	😊
% in 2010	12.6	2.8		8.2	0.9		3.1	0		15.3	3.0		8.6	1.5	
% in 2009	11.9	0.0		7.7	0.3		3.2	0.3		14.4	2.3		8.3	0.6	
% in 2008	13.1	3.4		8.0	0.6		3.9	0.9		8.4	1.9		7.6	1.5	
% in 2007	14.7	1.7		6.1	0.9		3.7	0.3		7.0	1.1		8.0	1.0	
% in 2006	13.0	1.2		7.8	0.0		0.7	0.0		11.7	1.2		8.3	0.6	
% in 2005	14.7	2.7		9.5	0.8		5.2	0.0		7.4	1.0		9.4	1.2	
% in 2004	13.4	2.5		9.9	0.5		6.3	0.0		15.4	4.8		11.0	1.8	
% in 2003	12.0	2.2		6.1	0.5		5.2	0.5		5.8	1.6		4.7	1.6	
% in 2002	9.2	1.2		9	0.6		4.7	0		11.7	2		8.6	0.9	
<b>Averages</b>	<b>12.2</b>	<b>1.8</b>		<b>7.6</b>	<b>0.6</b>		<b>3.6</b>	<b>0.2</b>		<b>10.9</b>	<b>1.9</b>		<b>8.0</b>	<b>1.1</b>	

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## Inter Lab Results & Milk Recording Management

2002 – 8 Milk recording agencies, ageing equip =  
difficult to review/action results

2012 – 2 Milk Recording agencies account for 97% of  
cows recorded

Higher volume, newer equip

Easier to review with 2 x Milk Recording Management  
teams

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## Inter Lab Results & Milk Recording Management

2012 – 2017 Future challenges/Opportunities Irish Labs

- Optimir ( in progress)
- More from sample - Carry Over ( sampling and lab?)
- In Line analysers ( how close?...)

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