



IRISH CATTLE BREEDING FEDERATION

Developments in Dairy Breeding 2011.

Andrew Cromie

ICBF, February 2011.



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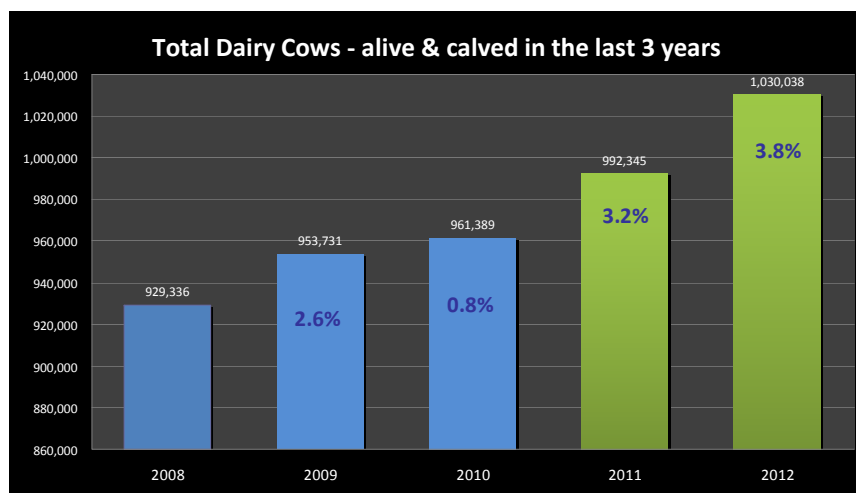
Overview.

- Trends in dairy herd replacements.
- EBI Update.
 - Does it work.
 - Developments for 2011.
 - Active Bull List 2011.
 - Genomics
 - GEN€ IRELAND.
- ICBF HerdPlus.
- EBI€100 Discussion Group Competition.



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Trends in Total Dairy Cows.



- Trends are based on data from the ICBF database (87% of total DAFF births).

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Total Dairy Cows – By County

	Total Dairy Cows - alive & calved in the last 3 years								Discount Factor				
County	2008	2009	2.0%	2010	%	2011	%	2012	%	0-1 to 1-2	1-2 to 2-3	2-3 to >3	1-3+ to Lact1
Carlow	9,436	9,621	2.0%	9,765	1.5%	10,228	4.7%	10,750	5.1%	95.7%	35.7%	12.6%	69.9%
Cavan	29,699	29,535	-0.6%	29,106	-1.5%	29,284	0.6%	29,696	1.4%	89.9%	34.2%	11.6%	69.5%
Clare	23,986	23,955	-0.1%	23,085	-3.6%	23,128	0.2%	23,244	0.5%	90.9%	31.0%	11.6%	74.8%
Cork	251,395	260,091	3.5%	265,903	2.2%	276,664	4.0%	289,557	4.7%	92.0%	23.2%	10.1%	78.1%
Donegal	10,114	10,537	4.2%	10,622	0.8%	10,966	3.2%	11,293	3.0%	87.3%	23.8%	7.8%	78.9%
Dublin	2,204	2,111	-4.2%	2,081	-1.4%	2,012	-3.3%	1,979	-1.6%	88.5%	58.9%	14.7%	47.9%
Galway	20,552	20,889	1.6%	20,399	-2.3%	20,817	2.1%	21,349	2.6%	94.1%	37.5%	12.5%	71.9%
Kerry	79,113	79,319	0.3%	77,861	-1.8%	78,214	0.5%	78,822	0.8%	89.7%	24.5%	11.3%	75.3%
Kildare	10,120	10,188	0.7%	10,223	0.3%	10,431	2.0%	10,831	3.8%	92.6%	45.7%	11.1%	63.1%
Kilkenny	49,359	51,013	3.4%	53,006	3.9%	55,916	5.5%	59,259	6.0%	92.5%	27.8%	9.9%	73.9%
Laois	24,037	25,224	4.9%	25,735	2.0%	26,767	4.0%	27,977	4.5%	91.6%	32.7%	11.9%	69.0%
Leitrim	1,821	1,775	-2.5%	1,758	-1.0%	1,772	0.8%	1,797	1.4%	91.6%	56.5%	8.7%	56.4%
Limerick	81,341	82,283	1.2%	81,388	-1.1%	82,329	1.2%	83,924	1.9%	92.2%	28.4%	13.6%	73.3%
Longford	6,479	6,443	-0.6%	6,462	0.3%	6,721	4.0%	7,058	5.0%	91.6%	35.4%	12.1%	86.2%
Louth	11,444	12,025	5.1%	12,547	4.3%	13,162	4.9%	13,933	5.9%	93.5%	47.2%	10.4%	66.0%
Mayo	11,885	11,531	-3.0%	11,174	-3.1%	11,033	-1.3%	10,967	-0.6%	91.9%	45.1%	14.4%	60.8%
Meath	36,916	38,361	3.9%	38,942	1.5%	40,756	4.7%	42,842	5.1%	92.9%	43.9%	10.2%	66.8%
Monaghan	20,825	20,819	0.0%	20,615	-1.0%	21,029	2.0%	21,629	2.9%	91.3%	35.4%	12.5%	72.0%
Offaly	18,145	18,246	0.6%	18,168	-0.4%	18,596	2.4%	19,225	3.4%	90.8%	33.7%	13.9%	75.2%
Roscommon	3,997	3,861	-3.4%	3,739	-3.2%	3,767	0.7%	3,779	0.3%	89.2%	40.6%	17.4%	66.7%
Sligo	6,337	6,228	-1.7%	5,823	-6.5%	5,693	-2.2%	5,625	-1.2%	93.3%	44.0%	14.1%	62.5%
Tipperary	98,238	102,302	4.1%	103,333	1.0%	107,560	4.1%	112,282	4.4%	92.6%	21.5%	11.0%	78.7%
Waterford	48,119	50,757	5.5%	51,679	1.8%	53,793	4.1%	56,134	4.4%	92.6%	23.5%	11.5%	77.9%
Westmeath	15,741	16,178	2.8%	16,209	0.2%	16,752	3.4%	17,425	4.0%	91.4%	39.7%	11.7%	71.8%
Wexford	43,991	45,827	4.2%	46,967	2.5%	49,708	5.8%	52,772	6.2%	93.6%	34.1%	13.9%	73.9%
Wicklow	14,042	14,612	4.1%	14,799	1.3%	15,247	3.0%	15,891	4.2%	93.8%	44.6%	13.3%	64.4%
Total	929,336	953,731	2.6%	961,389	0.8%	992,345	3.2%	1,030,038	3.8%	92.0%	28.6%	11.5%	74.3%

Total Dairy Cows - Cork.

Current and future trends in the Cork Herd*

* These calculations are based on trends from the ICBF cattle breeding database. Of the total 1.02 million dairy births per year (on CMMS), the ICBF database has a picture of over 85%. These are the herds that have signed a data release form, allowing ICBF use their CMMS data for cattle breeding purposes.

Ref	Description	Actual on 1st July				Predicted				See notes
		2008	2009	%	2010	%	2011	%	2012	
1	0-1 year old dairy heifers	57,681	67,366	16.8%	70,991	5.4%	65,298			Step 1
2	1-2 year old dairy heifers	50,396	53,367	5.9%	61,600	15.4%	14,266		15,122	Step 2
3	2-3 year old uncalved dairy heifers	11,216	11,645	3.8%	12,387	6.4%	1,250		1,440	Step 3
4	>3 year old uncalved dairy heifers	991	1,075	8.5%	1,235	14.9%	58,724	16.0%	63,090	7.4%
5	1st Lactation Cows - alive on-farms & calved in the last 12 mths.	48,094	49,792	3.5%	50,622	1.7%	47,963	4.0%	50,198	4.7%
6	Net disposals - (Total Sold - Bought in)	35,465	40,459	14.1%	46,097	13.9%	289,557	4.7%		Step 6
7	Total Dairy Cows - alive, on-farms & calved in the last 3 years.	251,395	260,091	3.5%	265,903	2.2%	278,664	4.0%	289,557	4.7%

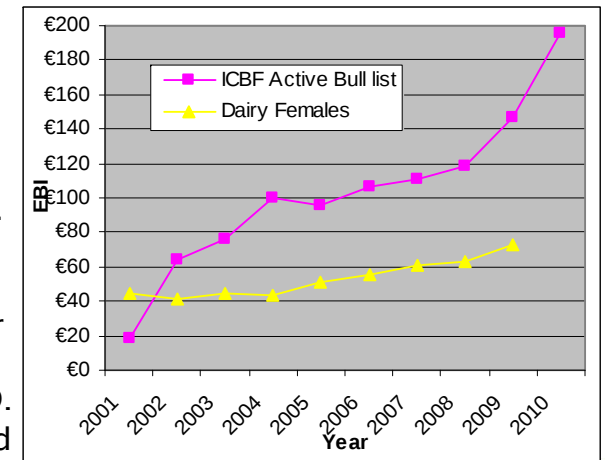
- There will be 3-4% growth Nationally, but even larger growth in some areas, e.g., Cork, Kilkenny, Wexford.
- Definite short term quota implications.
 - Manage by higher culling, low meals, OAD, shorter lactations....
- Full report available on ICBF website (www.icbf.com)

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Genetic Gain in EBI.

- Past = No genetic gain.
 - Milk gains - fertility loss.
- Now €20/year and increasing.
 - Influence of genomics.
 - Use of younger bulls
 - GENE IRELAND.
 - Better imported sires available.



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Does EBI Work?

	EBI - Top20%	EBI - Btm20%	Difference
EBI	€111	€7	€104
F+P kg	430	356	74
CI Days	383	407	24
Surv to 4th lact	83%	43%	40%

- Analysis of over 1,000 cows from Crookstown Discussion Group (winners of this years EBI€100 competition).
- How did top 20% on EBI perform compared to bottom 20%, based on performance over 1st 3 lactations?
- High EBI cows had better milk solids (+74kg), better fertility (-24 days) and lasted longer (+40% more to 4th lactation).

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EBI & Other breeds - Top EBI Herds.

Breed	Data	Top 20%	Mid 20%	Btm 20%
B&W	EBI	€146	€109	€60
	Fertility Sub Index	€76	€60	€34
	Age at 1st calving	24.1	24.4	24.7
	Average milk solids kg	431.9	408.2	400.4
	Average CI Days	373.7	376.3	376.4
	% Survived to 4th calving	81.6%	65.2%	42.5%

Breed	Data	Top 20%	Mid 20%	Btm 20%
JE	EBI	€150	€109	€66
	Fertility Sub Index	€86	€68	€60
	Age at 1st calving	24.2	24.5	24.8
	Average milk solids kg	432.4	402.1	367.9
	Average CI Days	375.4	371.8	394.1
	% Survived to 4th calving	84.8%	61.0%	35.1%

- Select bulls based on EBI.

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Developments in EBI.

- No changes to EBI for January 2011.
- A number of pieces of work continuing.
 - New fertility evaluations, based on insemination data.
 - New calving evaluations, based on splitting maiden heifer and cow calvings.
 - New health evaluations, based on mastitis and lameness - lined to DEP.
- Expect these work pieces to be completed in 2011 for discussion with industry.

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Breed effects using AI sires with 60% reliability on new indexes

Breed	No of sires	Fertility SI old	Fertility SI new	Age 1st Calving (days)
FR	202	€83	€116	-2
HO	874	-€6	-€8	0
JE	14	€85	€66	2
MO	29	€78	€110	14
NR	4	€89	€128	1
SR	3	€87	€99	9

- Test proofs - Rise for FR and MO sires
- Reduction in JE sires due to better handle on specific heterosis
- Age at 1st calving not factored into FERT SI yet

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ICBF Active Bull List – Feb 11

Rk	Code	Name of Bull	Sire	Btrd	Stat	HO%	EBI	Rel%	Proof	Milk	Fert	Calv	Beef	Main t	Health
1	SOK	(IG) SUNNYBANK OMAN	OJI	HO	PED	63	€279	55%	GS	€73	€170	€32	-€7	€2	€8
2	KOZ	KEVINSFORT OJI HAZE	OJI	HO	PED	94	€264	61%	GS	€59	€159	€43	-€4	-€2	€10
3	MJI	MORRISHEEN OJI FRANK	OJI	HO	PED	88	€262	55%	GS	€121	€108	€36	-€20	€12	€4
4	LRW	HSS VHA LOCHINVAR-ET S3F	Applause	HO	SRM	100	€260	45%	GS	€129	€118	€33	-€27	€9	-€1
5	TIO	TIRONUI OM JOSKIN	OKU	JE	PED	0	€248	41%	DP-INT	€105	€127	€15	-€27	€27	€1
6	HYZ	SCOTTS VHA HYDRAULIC S2F	Applause	HO	SRM	100	€237	45%	GS	€86	€141	€27	-€43	€30	-€4
7	FLT	(IG) FOWLERSTOWN STAN	OJI	HO	PED	91	€234	62%	GS	€84	€120	€44	-€15	-€1	€2
8	MDW	MONOWAI HOM DELUCA-ET SIF	S711	HO	SRM	88	€233	47%	GS	€88	€124	€34	-€21	€12	-€4
9	ROF	RALMA O-MAN CF CRICKET-ET	OJI	HO	PED	100	€225	67%	DP-INT	€66	€118	€38	-€4	-€9	€17
10	WGB	WAIKARE MAUNGA BIGGLES	Maunga	JE		0	€221	37%	DP-INT	€104	€119	€7	-€50	€44	-€3
11	GJM	GRAN-J OMAN MCCORMICK	OJI	HO	PED	100	€220	64%	DP-INT	€77	€116	€34	-€12	-€7	€11
12	LXK	LYNBROOK EXPOSE TREAT ET	Exposure	JE	PED	0	€219	40%	DP-INT	€78	€141	€5	-€70	€66	-€1
13	HRJ	(IG) HILLSDALE RUDE JUSTICE	OJI	HO	PED	94	€214	62%	GS	€65	€126	€40	€3	-€22	€2
14	BQN	BRIDEPAK OMAN	OJI	HO	PED	97	€212	56%	GS	€99	€83	€45	-€15	-€1	€1
15	OMS	OMALLIS	OJI	HO	PED	100	€212	51%	DP-INT	€80	€109	€32	-€9	-€4	€4
16	CFD	CUTFORTH LORD BRIAN	NUO	JE		16	€210	38%	DP-INT	€113	€77	€19	-€32	€31	€1
17	BUG	BUSY BROOK RASTUS-ET S3F	Applause	HO	SRM	50	€209	41%	GS	€103	€94	€26	-€32	€23	-€5
18	MJS	MULLINS MAUNGA ORION S2J	Maunga	JE	PED	0	€208	48%	DP-INT	€102	€107	€7	-€67	€62	-€4
19	RVW	RAYNHAM TGM AVAGO ET S3J	Maunga	JE		0	€204	40%	DP-INT	€84	€118	€6	-€35	€33	-€1
20	VGE	MORNINGVIEW LEGEND-ET	OJI	HO	PED	100	€204	65%	DP-INT	€99	€98	€36	-€19	-€13	€4
21	CGH	CROCKETT-ACRES EIGHT-ET	OJI	HO	PED	100	€203	66%	DP-INT	€85	€76	€37	-€5	€1	€10
22	LTL	LARCREST ALTAENDURO-ET	OJI	HO	PED	100	€203	60%	DP-INT	€59	€118	€38	-€9	-€4	€1
23	OES	OMNES	OJI	HO	PED	100	€203	58%	DP-INT	€56	€118	€35	-€15	-€1	€11
24	UPH	MARS UPHILL	OJI	HO	PED	100	€203	65%	GS	€93	€117	€24	-€28	-€1	€2
25	CGQ	COLDSPRINGS GARNETT CRI-ET	OJI	HO	PED	100	€202	60%	DP-INT	€80	€86	€31	-€8	-€1	€11

Increasing EBI – How?

- Stick to bulls on ICBF Active Bull List.
- No shortage of choice.
 - Breed, milk kg, type, price....
- Use ICBF Sire Advice facility.
 - Help select bulls and/or mate cows.
- Use enough AI straws.
 - 1.5 straws for each cow & 1.0 straws for each heifer.
- Target 40 dairy heifers per 100 cows.

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Uptake of Genomic bulls

Proof	2009		
	% Use	Bulls /hrd	EBI (Rel)
DP-IRL	37	2.7	120(86)
DP-INT	29	3	133(56)
GS	34	4	179(55)

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Uptake of Genomic bulls

Proof	2009			2010		
	% Use	Bulls /hrd	EBI (Rel)	% Use	Bulls /hrd	EBI (Rel)
DP-IRL	37	2.7	120(86)	25	3	146(76)
DP-INT	29	3	133(56)	34	3	155(47)
GS	34	4	179(55)	40	4	218(56)

- 63 bulls now with GS & DP proofs for production.
- GS proofs are better indication of daughter proofs, compared to parent average ($r=0.70$ vs. 0.50).
- Some over-estimation of production proofs by ~€10 (Note: also for parent average).

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Genomics.

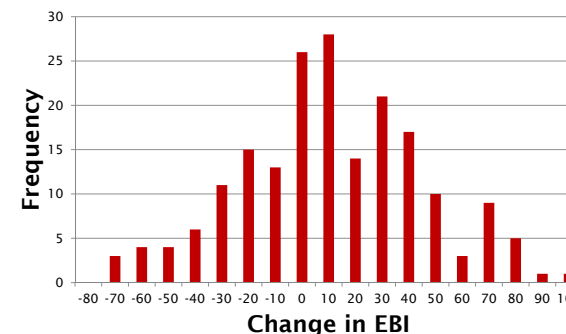
- Genomics research.
 - Other breeds (FR) and new traits (type).
- Genomics service available this Spring.
 - Available through ICBF HerdPlus.
 - Target turn around – 4-6 weeks.
 - Working with Weatherbys & IHFA to also offer pedigree verification for IHFA.
 - Cost of €50 (ex VAT). Volume discounts.
 - Looking at potential for industry funding.

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GEBI - What to Expect?

Distribution of EBI change from PA for 2010 calves



- 250 young male calves genotyped in 2010.
- No change in average. Individual bulls =/€80.
- Benefit of doing all heifers and select best 60%. Increase average EBI of team heifers by €30. Costs covered. *You should consider.*

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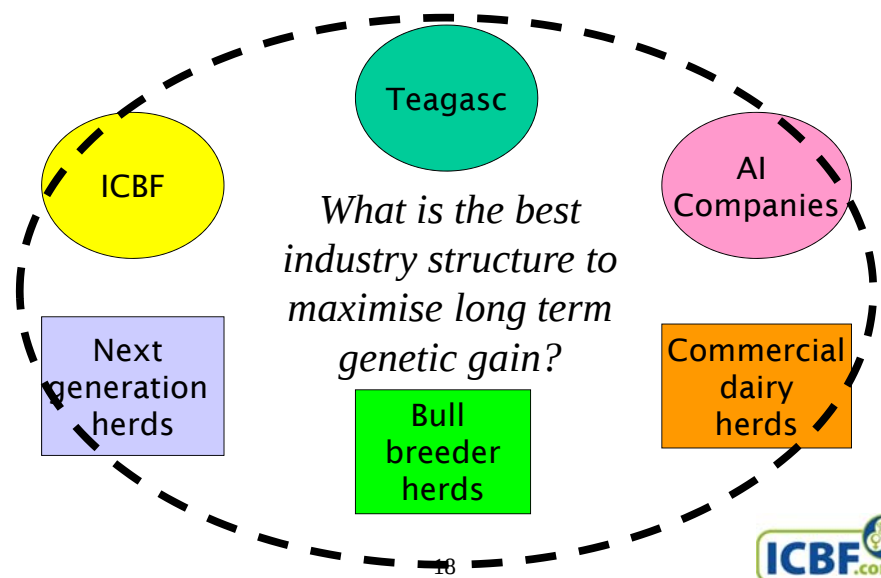
NEW GENE IRELAND Program

- Using genomics to increase genetic gain. Four key areas:
 - Focused on females (training and elite animals). The days of the AI bull are gone. *The cow is key.*
 - Work with bull breeder herds (1000 herds & 100k cows). Directed advice re: matings. All heifers genotyped.
 - 30 new AI bulls per year to service industry (50 bulls selected from 5000 candidates with genomic EBI's from bull breeder herds)
 - "Next Generation" herds (5 herds & ~1000 cows). Under direction of Teagasc/ICBF.
- Structure & funding model being developed.

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Key breeding structures.



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HerdPlus® Products 2011



€60 / Year 1 850 600 900



HerdPlus Developments

- Expected Calving Profile
 - Available on web.
- On-Line Catalogue Service
 - Generate your own catalogue for animals for sale.
- Co-op Performance Report (see next).
- GENE Ireland
 - €6.50/straw and €190 EBI
- Active Bull List. On-line.



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Co-op Performance Report*

- Combination of 2 databases;



Cow Numbers, EBI, Calv Int.,
Culling, Repl. rate, etc.

Milk
Co-op

Bulk tank info - Ltrs milk, Fat,
Prot, SCC, Milk Price

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2010 vs 2009 performance.

Table 1: Your Herds Milk Deliveries to Drinagh for 2009/2010

Month	Litres			Fat %			Protein %			SCC ('000)			Total Cows	
	2010	2009	Diff '09-'10	2010	2009	Diff '09-'10	2010	2009	Diff '09-'10	2010	2009	Diff '09-'10	2010	2009
Jan	572	4,823	-88.1%	4.12	4.06	0.06	3.4	3.2	0.2	0	301	N/A	44	52
Feb	9,340	10,455	-10.7%	3.98	4.18	-0.2	3.03	3.12	-0.09	211	89	122	48	51
Mar	20,146	22,247	-9.4%	3.82	3.79	0.03	2.91	3.16	-0.25	147	99	48	49	53
Apr	28,604	29,781	-4%	3.58	3.64	-0.06	3.16	3.34	-0.18	103	81	22	49	53
May	36,100	35,270	2.4%	3.52	3.57	-0.05	3.36	3.24	0.12	143	147	-4	48	53
Jun	32,893	36,009	-8.7%	3.56	3.53	0.03	3.36	3.22	0.14	213	152	61	49	53
Jul	33,475	36,997	-9.5%	3.73	3.56	0.17	3.38	3.31	0.07	246	179	67	49	53
Aug	27,290	29,407	-7.2%	3.84	3.8	0.04	3.5	3.39	0.11	311	208	103	49	53
Sep	23,823	21,619	10.2%	3.95	3.9	0.05	3.69	3.61	0.08	310	293	17	49	48
Oct	22,181	20,843	6.4%	4.08	4.03	0.05	3.92	3.79	0.13	274	324	-50	48	48
Nov	13,567	10,415	30.3%	4.37	4.17	0.2	3.76	3.46	0.3	308	429	-121	48	44
Dec	5,028	2,654	89.4%	4.12	4.04	0.08	3.44	3.28	0.16	384	557	-173	44	44
Total	253,019	260,520	-2.9%	3.78	3.74	0.04	3.41	3.35	0.06	223	190	33	48	50

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Performance Score Card.

Table 3: Your Drinagh/ICBF Performance Score Card

	Your Herd	Drinagh Average	Drinagh Top 10%	Your Rank out of 100	Your Star Rating
Your Milk performance for 2010 (Jan - Dec) based on Drinagh data					
Fat + Protein (Kg/cow)					
Average Fat and Protein yield per cow for your herd	390	319	400	87%	*****
Litres per Cow per Day					
Avg litres of Milk per cow from Jan - Dec 2010	14.44	11.88	14.8	86%	*****
Fat % to end December 2010					
Weighted average Fat % from Jan - Dec 2010	3.78	3.82	4.04	45%	***
Protein % to end December 2010					
Weighted average Protein % from Jan - Dec 2010	3.41	3.32	3.45	83%	*****
Average Milk Value (cpl) Incl. VAT					
Average milk value received from Jan - Dec 2010, on your farm performance.	31.0	30.1	31.7	79%	****
SCC (.000 cells/ml)					
The weighted average Somatic Cell Count for Jan - Dec 2010	223	271	155	64%	****

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Discussion Group Competition.

- Two competition categories defined.
 - Established groups – 80 groups entered.
 - New groups – 100 groups entered.
- Initial judging was based on established groups. 21 short-listed for interview based on ICBF & Teagasc data.
 - Additional supplementary data requested from these groups (Co-op data, grazing platform).
- Note: New groups will be judged over next 1-2 months, with advisors.

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Outcomes.

- Excellent response to this years competition.
 - 180 groups entered (75 in 2010).
- Two major outcomes.
 - Heifer rearing identified as a major focus area.
 - Importance of setting goals and assessing performance relative to goals.
- Where next?
 - **Maximise number of “New groups”.**
 - Part of annual program for ALL discussion groups in future.



2010 EBI Competition Score Sheet

Discussion Group		CPS	
Discussion Group Activity			
	Your Group	Protest Average	
Creating 8 with 8 cards (%) Creating 10 with 10 cards (%) Memorizing 100 (%) Doing 10 in 10 min (%) Creating 10 with 10 cards (%) Creating 10 with 10 cards (%) Creating 10 with 10 cards (%) Creating 10 with 10 cards (%) Creating 10 with 10 cards (%) Creating 10 with 10 cards (%)	84% 85% 86% 100% 82% 100% 84% 85% 86% 87%	81% 82% 83% 84% 85% 86% 87% 88% 89% 90%	 80% 85% 90% 95% 100% 80% 85% 90% 95% 100% 80% 85% 90% 95% 100% 80% 85% 90% 95% 100% 80% 85% 90% 95% 100% 80% 85% 90% 95% 100% 80% 85% 90% 95% 100% 80% 85% 90% 95% 100% 80% 85% 90% 95% 100% 80% 85% 90% 95% 100%
Supporting 100 (%)	88%	87%	88%
Breeding - Quantity			88%
No baby born (above and over 100 cards) No baby born (above and over 100 cards) No baby born (1.0 year old) No baby born (1.0 year old) No baby born (1.0 year old) No baby born (1.0 year old) No baby born (1.0 year old) No baby born (1.0 year old) No baby born (1.0 year old) No baby born (1.0 year old)	10.0 10.2 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	12.0 12.2 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	 10.0 12.0 14.0 16.0 18.0 10.0 12.0 14.0 16.0 18.0 10.0 12.0 14.0 16.0 18.0 10.0 12.0 14.0 16.0 18.0 10.0 12.0 14.0 16.0 18.0 10.0 12.0 14.0 16.0 18.0 10.0 12.0 14.0 16.0 18.0 10.0 12.0 14.0 16.0 18.0 10.0 12.0 14.0 16.0 18.0 10.0 12.0 14.0 16.0 18.0
Breeding - Quality			88%
1.000 (0.0) 1.000 (0.0) 1.000 (0.0) 1.000 (0.0) 1.000 (0.0) 1.000 (0.0) 1.000 (0.0) 1.000 (0.0) 1.000 (0.0) 1.000 (0.0)	€ 70.0 € 80.0 € 100.0 € 100.0 € 100.0 € 100.0 € 100.0 € 100.0 € 100.0 € 100.0	€ 80.0 € 80.0 € 100.0 € 100.0 € 100.0 € 100.0 € 100.0 € 100.0 € 100.0 € 100.0	 0.0 20.0 40.0 60.0 80.0 100.0 0.0 20.0 40.0 60.0 80.0 100.0 0.0 20.0 40.0 60.0 80.0 100.0 0.0 20.0 40.0 60.0 80.0 100.0 0.0 20.0 40.0 60.0 80.0 100.0 0.0 20.0 40.0 60.0 80.0 100.0 0.0 20.0 40.0 60.0 80.0 100.0 0.0 20.0 40.0 60.0 80.0 100.0 0.0 20.0 40.0 60.0 80.0 100.0 0.0 20.0 40.0 60.0 80.0 100.0
Changes Between 2010 and 2010			88%
1.000 (0.0) No baby born (above and over 100 cards) No baby born (above and over 100 cards) No baby born (above and over 100 cards) No baby born (above and over 100 cards)	€ 0.0 2.0 2.0 2.0 2.0	0.0 2.0 2.0 2.0 2.0	 0.0 2.0 4.0 6.0 8.0 10.0 0.0 2.0 4.0 6.0 8.0 10.0 0.0 2.0 4.0 6.0 8.0 10.0 0.0 2.0 4.0 6.0 8.0 10.0 0.0 2.0 4.0 6.0 8.0 10.0
Protest / Performance			88%
Protest at all times (%) Protest at all times (%) Protest at all times (%) Protest at all times (%) Protest at all times (%) Protest at all times (%) Protest at all times (%) Protest at all times (%) Protest at all times (%) Protest at all times (%)	81.8% 82.7% 83.6% 84.5% 85.4% 86.3% 87.2% 88.1% 89.0% 90.0%	79.0% 80.0% 81.0% 82.0% 83.0% 84.0% 85.0% 86.0% 87.0% 88.0%	 80% 85% 90% 95% 100% 80% 85% 90% 95% 100% 80% 85% 90% 95% 100% 80% 85% 90% 95% 100% 80% 85% 90% 95% 100% 80% 85% 90% 95% 100% 80% 85% 90% 95% 100% 80% 85% 90% 95% 100% 80% 85% 90% 95% 100% 80% 85% 90% 95% 100%
Business Case Study Score			88%
Overall score	88%	88%	88%

Score Card 2011

- A few new components.
 - Animal Events (recording calving data).
 - Change between 2009 & 2010.
 - Optimum age at 1st calving & SCC.



Summary

- As an industry we need more high EBI dairy heifers.
- Use EBI, regardless of breed.
- Genomics is working. Have confidence in teams of GS bulls.
- Farmers should consider new genomics service for bulls & heifers.
- Promote HerdPlus – a must for all dairy herds.
- Enter “new” groups into EBI competition.
- Exciting time for cattle breeding.