



UPDATE – for period 16th – 22nd February 2008

1 Important Dates

- # **5th March.** 10:30 – 15:00. Meeting with **Beef Breed Associations** to review beef breeding plans for 2008. Abbeyleix Manor Hotel.
- # **6th March. ICBF Board meeting.** Portlaoise.

2 International Cattle Breeders Round Table

50 scientists involved in cattle breeding met this week in Cork. Delegations came from Sweden, Denmark, Norway, The Netherlands, Belgium, United Kingdom, Italy and Ireland to participate in a sharing of knowledge and challenges. This meeting takes place at two yearly intervals and has been designed to provide a forum for cattle breeding scientists to share experiences and to discuss common issues. A feature of the meeting is the time allowed for open discussion.

Themes for the meeting included: international breeding objectives, application and implications of genomic technologies, novel traits, and the genetics of health and fertility traits.

Some of the key messages from the round table included:

- # Fertility is now a major element of the breeding objective for dairy cattle in most countries and this is being facilitated internationally through evaluations across countries from Interbull.
- # Profit is the objective in dairy cattle breeding.
- # The emphasis placed on different traits varies between countries due to a combination of different economics, different methods and different stages of development. However, there is a great deal of overlap and a general coming together is taking place.
- # DNA technologies are developing very rapidly and are expected to have a big impact on cattle breeding in the future. It is important that the potential benefits of these technologies are well understood and their impact on cattle breeding, farming and agricultural products is carefully and thoroughly evaluated.
- # Genomic selection offers considerable potential to improve the efficiency of dairy (and beef) cattle breeding. This emerging technology has many implications which need to be carefully considered by cattle breeding organisations. Excellent performance recording is essential for the development and evaluation of genomic selection. There are intellectual property issues that need to be addressed in order to ensure objective scientific information continues to be readily available to cattle breeders and farmers.
- # There are many opportunities to use breeding as a tool to address health and disease issues. However, there are also major challenges to exploiting these.

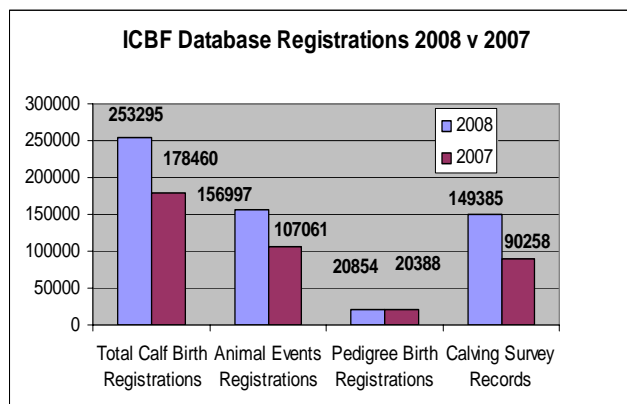
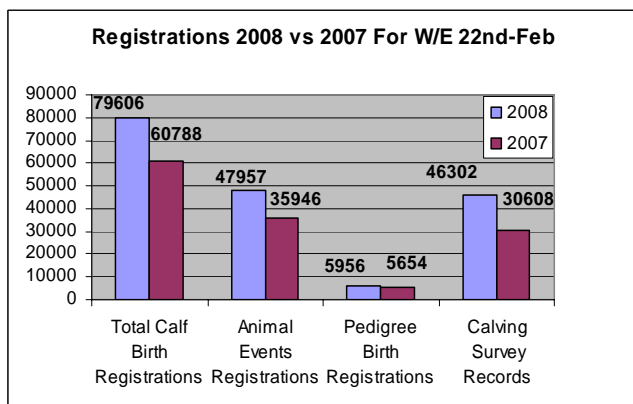
Forums such as this provide Irish scientists with an excellent opportunity to challenge and be challenged.

3 Tully

- # A meeting of the Tully advisory committee will be held at Tully on the 27-2-08 at 11 am.
- # A meeting was held with the Department of Agriculture to discuss health testing improvements for the May intake to Tully on the 20-2-08.
- # Work is continuing to implement the recommendations of the Tully veterinary committee.



4 Database Update

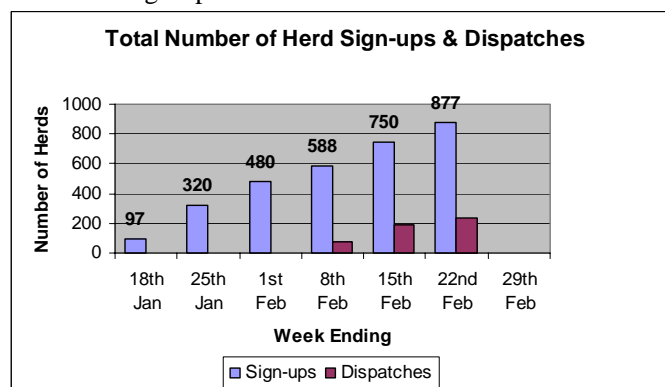


- ✦ The impact of the suckler cow welfare scheme on animal events recording is showing in the 2008 vs 2007 figures above. There is greater than a 50% increase year to date, in animal events calf registrations (157,000 vs 107,000) and in calving survey data (149,000 vs 90,000).
- ✦ 23,939 inseminations have been received so far in 2008 from AI handhelds, compared with 17,670 in 2007 for the same period.
- ✦ ICBF have received 39,800 suckler applicant details from DAF, which have been processed. Around 38,000 birth registrations from new Animal Events users have been received.
- ✦ Sire recording and Calving survey recording on Animal Events continues to be of good quality.
- ✦ Testing of the new loading solution for Animal Events Records is entering its final phase. This is a key piece of development work, given the additional volumes of data that will be received as part of the Suckler Scheme.
- ✦ The schedule for the roll-out of the 2008 AI Handheld software have been finalised with the various organisations, with the roll-out expected to be complete by the second week of March.
- ✦ Testing of the 2008 Sire Advice solution began this week, and is expected to take about another week and a half.

5 GENE Ireland

Dairy Spring 2008

- ✦ Sign ups and dispatch continue. A good number of herds are taking advantage of the 25 straws option available through their discussion group.





✚ The Breed breakdown as of yesterday evening is as follows:

- HOFR: 647 herds taking 25,608 doses
- Pure FR: 127 herds taking 4,492 doses
- Jersey/HOFR: 108 herds taking 4,128 doses
- Mixed Breed: 52 herds taking 1,960 doses

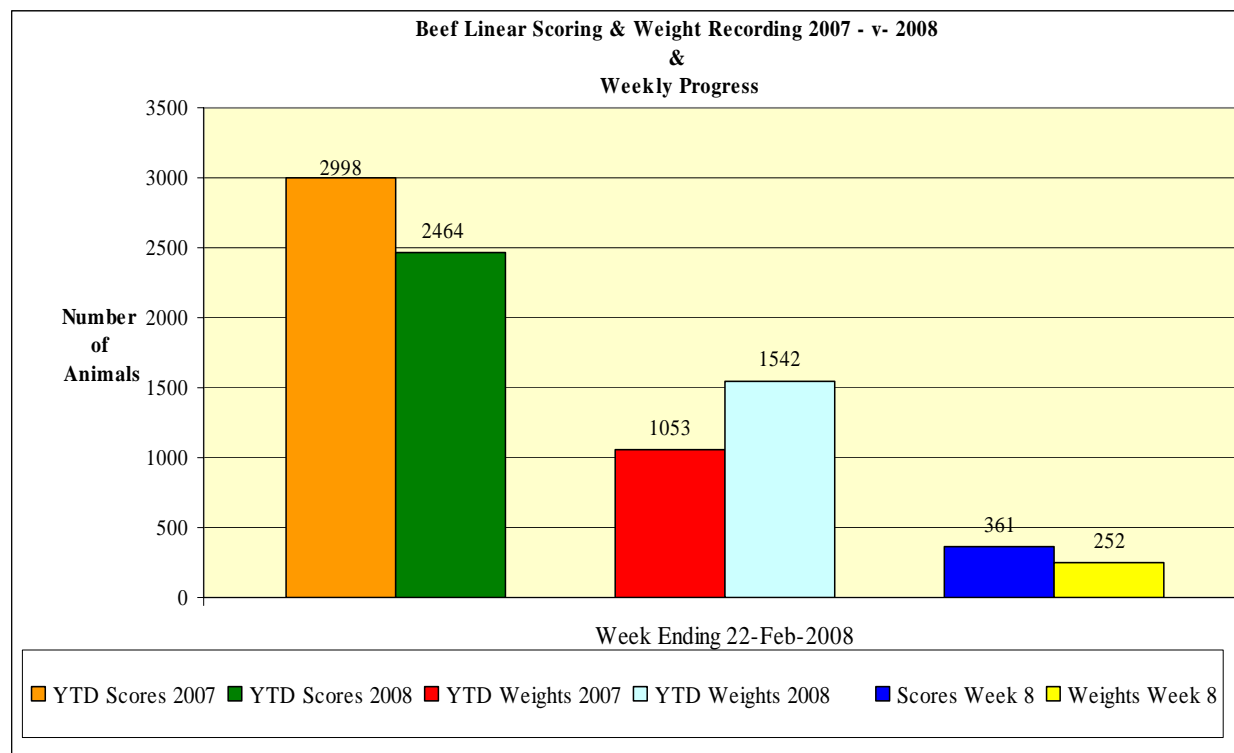
✚ It is anticipated that we will not have enough Jersey bulls with 700 doses of semen available to test 2 crossbreeding packs (Jersey/HOFR). Consequently we have stopped signing herds up for this pack.

✚ Next week will see the 4th group of HOFR bulls starting to be dispatched. Due to semen availability we had to include a pure Friesian to ensure our target average EBI was achieved. There have been a number of requests from herd-owners for a mixed Pure Friesian/HOFR pack. We will ensure these herds are dispatched with this pack.

AI CODE	NAME	SIRE	MGS	EBI €	MILK €	FERT €
KJI	KILLGOREY BENJAMIN	RUU	ENM	160.17	65.67	63.34
MYK	MEENASCORTHY KENWAY	BWZ	KBC	141.37	96	31.45
RHS*	RAHEENARRAN MEB SOCHAR	MEB	TIH	114.34	7.2	91.08
TXI	CARRACOUSH TISABRI	OJI	HMP	193.85	97.43	62.8
WSU	BOWENSCROSS SUPER	QUR	SPW	138.41	71.95	40.36
				149.63	67.65	57.81

* 100% Friesian

6 GROW – Linear Scoring & Weight Recording





7 Genetic Evaluations

Dairy

- Staff from the evaluations unit attended the International Cattle Breeders Roundtable at Cork Airport where a lot of useful information was learned on various aspects of international trends in terms of genetic evaluations and applications of new technologies. Some of these will be incorporated into our current systems. There were three presentations from ICBF at the conference on EBI, current and future approaches to dealing with across breed evaluations, and estimating genetic parameters for carcass cut data.

Beef

- Provisional Beef proofs were sent to the industry for feedback and discussion. It is anticipated that these proofs will be made official in the coming days.

8 Milk Recording

National Milk Recording Statistics - Herds, Cows & EDIY 22/02/08						
Milk Recording Organisation	Total Herds Recorded YTD 22/02/08	No. EDIY Herds YTD 22/02/08	% Herds EDIY	Total No. Cows Recorded YTD 22/02/08	No. EDIY Cows YTD 22/02/08	% Cows EDIY
Progressive	1,118	203	18%	62,695	12,350	20%
Dairygold	267	24	9%	12,467	1,347	11%
Kerry	249	5	2%	11,340	341	3%
SWS	421	15	4%	16,528	968	6%
Tipperary	16	0	0%	549	0	0%
Arrabawn	14	5	36%	577	247	43%
Connacht	79	14	18%	3,485	625	18%
Donegal	4	4	100%	214	214	100%
Total	2,168	270	12%	107,855	16,092	15%

Recorded Cows by Milk Recording Organisation - Year on Year Comparison				
Milk Recording Organisation	YTD 2005 Cows Recorded 01/01/06 - 22/02/06	YTD 2006 Cows Recorded 01/01/07 - 22/02/07	YTD 2007 Cows Recorded 01/01/08 - 22/02/08	2008 vs 2007 Year on Year Difference (%)
Progressive	66,556	63,941	62,695	-2.0%
Dairygold	13,953	11,605	12,467	6.9%
Kerry	11,372	12,152	11,340	-7.2%
SWS	17,506	16,972	16,528	-2.7%
Tipperary	850	554	549	-0.9%
Arrabawn	928	566	577	1.9%
Connacht	3,276	3,421	3,485	1.8%
Donegal	326	0	214	0.0%
Total	114,767	109,211	107,855	-1.3%



9 HerdPlus®

BEEF

- ✚ The Beef Breed Societies met in person and through Conference Call during the week to discuss the ongoing developments in:
 1. GROW
 2. On – Line Herdbook
- ✚ Good progress is being made on both of these initiatives with:
 - An information document being prepared, with input from all the Breed Societies, which will inform their members of the requirements they must meet in future when they are getting their cattle Scored & Weighed, to ensure that the evaluations are as accurate as possible.
 - The development of the On-Line Herdbook is also about to begin. This is a development that Beef Breed Societies have pushed for and will be a great asset to their members when it comes on line.
- ✚ Preparations are on-going for the Beef Breed Society meeting that will take place on the 5th March (Abbeylax Hotel, Portlaoise). The agenda will cover:
 - Genetic Evaluations
 - GROW
 - On-Line Herdbook
 - Gene Ireland
 - Beef Herdplus
 - Suckler Cow Welfare Scheme
- ✚ It will provide an opportunity to go through these various topics in order to bring everyone up to speed on their progress as well as providing a forum for discussion & feedback.
- ✚ GROW Beef Performance Stamps – As part of the GROW initiative to highlight pedigree animals in sales catalogues that have been Scored & Weighed, a stamp will be printed on the sales catalogue page beside such animals. Each Breed Society has been requested to send on a picture of an animal of choice from their Breed that will be displayed in the stamp. The Charolais & Limousin stamps are displayed below as examples.



DAIRY

- ✚ The Spring Active bull list is now completed and is available on our Website.
- ✚ The updated EBI figures will be loaded to the Website this weekend – a copy is also attached.

SIRE DETAILS		ICBF ACTIVE BULL LIST - DAIRY AI SIREs - SPRING 2008																										
RK	Code	Name	% HO	EBI DETAILS							MILK				FERTILITY			CALVING		BEEF		HEALTH		Type			Availability	
				EBI	Rel	Dau	Hrds	MILK	FERT	CALV	BEEF	HEALTH	M Kg	F Kg	P Kg	F%	P%	CI	SURV	% CD	GL	Cwt	SCC	O FL	O MA	Avail	Price	Supplier
1	OJI	O-BEE MANFRED JUSTICE	100	€262	84	-	-	€114	€93	€44	€0	€11	599	22.1	20.3	-0.01	0.01	-3.4	4.7	0.8	-3.7	6.1	-0.15	1.5	0.5	L	€49	NZG/EUROGENE AI
2	RXO	RAMOS	100	€200	69	-	-	€44	€131	€18	-€7	€14	263	8.5	8.2	-0.03	-0.01	-5.1	6.3	2.7	-1.2	-1.1	-0.22	2.7	1.6	L	€48	NZG/EUROGENE AI
3	GIO	GIBOR	100	€190	68	-	-	€70	€90	€23	-€6	€13	449	7.6	14.6	-0.17	0.00	-3.0	4.8	3.6	-2.2	0.9	-0.20	2.2	0.6	H	€27	DOVEA GENETICS
4	RDU	RUUD 96	100	€169	74	66	45	€79	€54	€36	-€1	€0	421	19.0	13.5	0.05	-0.01	-3.0	1.6	2.4	-3.8	4.2	-0.01	-0.2	0.3	H	€19	NCBC
5	WUZ	WINDSOR-MANOR DURHAM ZEUS	100	€160	58	-	-	€47	€101	€15	-€8	€6	329	1.9	10.7	-0.19	0.00	-4.3	4.4	4.7	-1.3	0.5	-0.10	0.9	1.7	H	€19	NCBC
6	CZO	BARNKAMPER CASSANOVA	100	€158	61	-	-	€98	€35	€25	€1	-€1	493	14.5	18.0	-0.07	0.03	-2.0	0.9	1.9	-2.1	3.5	0.02	0.3	0.0	H	€22	ALTA IRELAND
7	TCZ	ALTA TUCANO	94	€152	68	-	-	€60	€74	€23	-€8	€2	152	15.1	7.9	0.18	0.05	-3.6	2.8	2.6	-1.6	-1.6	0.01	1.7	-0.1	H	€23	ALTA IRE/EUROGENE AI
8	DVJ	DE VETHS JIRO	66	€149	81	121	39	€71	€78	€20	-€12	-€8	165	18.5	9.0	0.22	0.07	-3.3	3.5	1.4	-0.7	-9.5	0.14	-	-2.4	L	€16	NZG/EUROGENE AI
9	BWZ	ZANDER KEET	100	€146	91	898	231	€66	€55	€40	-€7	-€9	100	16.0	8.0	0.23	0.09	-2.6	2.2	1.0	-3.2	-0.8	0.15	-0.9	-0.6	H	€16	NZG/EUROGENE AI
10	MCL	MASCOL	100	€146	59	-	-	€90	€19	€30	-€6	€13	469	17.7	15.9	0.00	0.01	0.2	2.0	1.6	-2.2	0.0	-0.19	2.0	1.8	L	€45	DOVEA GENETICS
11	SBH	SRB BALLS HERITAGE	47	€145	91	305	85	€44	€97	€38	-€22	-€11	-75	15.5	2.5	0.37	0.10	-5.9	2.3	1.3	-3.4	-16.2	0.16	-2.2	-2.3	L	€16	NZG/EUROGENE AI
12	TIH	TITTENSER HYLKE	0	€144	90	1223	392	€14	€116	€25	-€8	-€4	-347	-5.5	-1.5	0.17	0.22	-7.4	2.5	1.2	-2.3	-6.3	0.06	-1.2	-2.2	H	€20	DOVEA GENETICS
13	BZW	BAGWORTH BELLS PRIZEWINNER	100	€142	64	-	-	€100	€13	€30	€9	-€10	451	22.3	16.3	0.09	0.03	0.2	1.4	2.1	-2.7	6.7	0.18	-	0.3	M	€16	NZG/EUROGENE AI
14	LOO	LOOSTER	100	€139	92	740	279	€102	€18	€29	-€9	€0	139	22.5	12.5	0.32	0.15	-0.4	1.2	2.7	-2.7	-5.4	0.00	-0.5	-1.4	H	€22	NZG/EUROGENE AI
15	DEU	DONEEN MARLEEN HUGO	59	€139	81	153	116	€88	€51	€14	-€11	-€2	-48	19.5	8.5	0.42	0.20	-3.6	0.7	5.2	-1.3	-6.1	0.03	-0.5	-0.6	H	€19	NCBC
16	OPJ	OPAL JPS	97	€139	79	99	76	€56	€58	€25	-€4	€4	544	3.5	14.5	-0.27	-0.06	-3.5	1.5	1.6	-1.8	1.6	-0.09	-0.8	-0.7	H	€19	NCBC
17	NIZ	NORZ-HILL FORM WIZARD	100	€137	79	-	-	€14	€102	€11	€1	€9	340	1.5	6.2	-0.21	-0.09	-4.1	4.7	2.6	-1.1	6.3	-0.19	-0.4	1.5	H	€17	DOVEA GENETICS
18	CBH	CORBOYS HACKETT	69	€137	90	258	75	€54	€73	€30	-€12	-€8	106	9.5	7.5	0.10	0.08	-3.9	2.3	1.2	-2.3	-5.9	0.12	-1.4	-2.8	M	€16	NZG/EUROGENE AI
19	BGW	BAGWORTH ELLISTON BELL	47	€137	78	101	35	€56	€72	€12	-€9	€6	15	12.5	6.0	0.23	0.11	-3.3	2.9	4.7	-1.1	-5.4	-0.10	-	-2.2	L	€14	NZG/EUROGENE AI
20	LUA	LAUDAN	100	€136	70	-	-	€49	€61	€23	-€2	€6	404	7.6	10.9	-0.14	-0.04	-0.5	4.9	2.2	-2.2	2.9	-0.10	1.6	2.0	M	€27	DOVEA GENETICS
21	TKY	SRC TIMOTHYS MANDRAKE	100	€136	63	-	-	€71	€62	€26	-€15	-€8	13	12.5	8.2	0.23	0.15	-3.4	1.9	1.8	-2.3	-12.1	0.14	-	-1.6	M	€16	NZG/EUROGENE AI
22	JIN	JOYCE MOUNTAIN	100	€133	63	-	-	€53	€58	€20	-€1	€3	400	3.6	12.2	-0.21	-0.02	-3.6	1.4	3.0	-2.0	3.8	-0.05	0.1	-0.8	H	€18	NZG/EUROGENE AI
23	ATH	ATHOL ENIGMA	94	€131	86	172	58	€49	€87	€7	-€9	-€3	96	5.0	7.5	0.03	0.08	-4.5	3.0	2.2	0.1	-6.2	0.06	-	-2.1	M	€16	NZG/EUROGENE AI
24	WLI	WHINLEA EMINENCE ELLIS	56	€131	61	-	-	€69	€55	€15	-€1	-€7	10	12.8	7.8	0.24	0.14	-2.8	1.9	2.6	-0.8	1.9	0.12	-	-1.9	L	€16	NZG/EUROGENE AI
25	RMW	RIVERLOCK MOWING MACHINE	100	€131	60	-	-	€73	€51	€27	-€17	-€3	270	13.9	11.6	0.07	0.05	-3.3	1.0	1.5	-1.9	-7.6	0.06	-	-2.6	M	€14	NZG/EUROGENE AI
26	IVI	IJSSELVLIEDT BREAKOUT	100	€130	86	141	51	€70	€60	€14	-€9	-€6	227	20.0	9.5	0.20	0.04	-3.1	2.1	3.4	-0.9	-1.0	0.12	0.8	0.8	H	€22	ALTA IRELAND
27	MTZ	MILLSTREET MERCI 5	97	€128	81	136	106	€66	€64	€6	-€10	€1	-42	8.5	7.5	0.20	0.18	-3.9	1.6	3.1	-0.8	-3.9	-0.03	-0.9	-0.1	H	€19	NCBC
28	LPP	LAKESIDE VCP PAN PIPER ET	100	€127	59	-	-	€59	€61	€17	-€12	€2	232	8.2	10.1	-0.01	0.05	-3.3	2.0	4.0	-2.0	-6.3	-0.03	-	-0.2	M	€16	NZG/EUROGENE AI
29	HZU	HAZAEEL FATALS DUKE	100	€127	70	-	-	€69	€45	€13	€3	€3	245	6.1	12.0	-0.06	0.07	-3.2	0.6	1.9	-0.8	5.1	0.05	-	0.1	M	€16	NZG/EUROGENE AI
30	BBJ	BAY-BOB AMATEUR	100	€127	68	-	-	€69	€40	€12	€5	€0	453	8.7	14.3	-0.15	-0.01	-2.0	1.5	1.1	-0.8	9.6	0.01	1.7	1.1	H	€24	NCBC
31	CXC	CREYHORST CLOR 2	81	€124	61	-	-	€67	€60	€1	-€2	-€1	222	12.5	10.3	0.08	0.06	-2.1	3.1	4.8	-0.2	-0.6	0.01	-0.4	0.9	H	€19	NCBC
32	LWK	LAWRENCEs KABUL	63	€123	83	352	105	€39	€79	€32	-€17	-€10	64	3.0	6.0	0.01	0.08	-4.4	2.4	1.8	-2.4	-11.5	0.18	-	-1.8	H	€16	NZG/EUROGENE AI
33	WAU	WAIU EMINENCE LOTUS	47	€123	85	276	73	€46	€69	€26	-€14	-€5	-126	11.0	3.0	0.32	0.15	-3.6	2.4	1.1	-1.4	-11.4	0.04	-2.9	-2.7	L	€16	NZG/EUROGENE AI
34	WAL	WALTERS JESTER	66	€123	84	231	70	€52	€56	€17	-€1	-€1	164	14.5	7.0	0.15	0.03	-2.0	2.8	2.8	-1.1	-2.1	0.01	-	-1.4	L	€16	NZG/EUROGENE AI
35	MHI	MOHAIR	MO	€121	59	-	-	€41	€69	-€24	€34	€0	8	2.7	5.6	0.05	0.10	-2.7	3.3	6.2	3.3	22.4	0.00	-	-	H	€19	DOVEA GENETICS
36	CWJ	CALDWELLS JORDANAIRE	63	€121	94	930	225	€59	€67	€28	-€25	-€9	56	12.5	7.0	0.20	0.10	-3.8	1.9	0.9	-2.6	-17.2	0.13	-1.6	-1.7	H	€16	NZG/EUROGENE AI
37	WUH	MARKWELL DURHAM RHYME	100	€120	65	-	-	€32	€82	€16	-€15	€5	127	2.5	5.9	-0.04	0.03	-4.3	2.8	4.4	-1.5	5.2	-0.05	1.6	2.5	H	€20	NCBC
38	AAP	ART-ACRES PATRON SPOCK	100	€120	96	2108	643	€62	€48	€19	-€11	€2	306	5.5	12.0	-0.11	0.04	-3.3	0.8	2.8	-1.5	-3.2	-0.03	-0.2	0.7	H	€23	NZG/EUROGENE AI
39	SGV	STIRLING MAGLEY ANVIL	100	€120	63	-	-	€93	€27	€10	-€6	-€4	412	10.2	16.9	-0.10	0.06	-1.6	0.7	5.5	-1.6	-0.7	0.06	-1.1	-0.3	M	€16	NZG/EUROGENE AI
40	RJI	ROJAN HB BULLION	100	€120	63	-	-	€86	€14	€34	-€9	-€6	182	22.5	10.7	0.29	0.09	0.2	1.5	2.6	-3.4	-5.0	0.10	-	-0.2	M	€14	NZG/EUROGENE AI
41	ILZ	ILIZAC	MO	€119	90	380	153	€18	€86	-€6	€19	€2	120	1.0	4.0	-0.07	0.00	-4.3	3.1	3.4	2.1	14.2	-0.03	-	-	H	€19	DOVEA GENETICS
42	NVE	SANDHILL DELTA NEVADA	100	€119	66	-	-	€52	€56	€19	-€5	-€3	295	9.5	9.7	-0.03	0.00	-2.0	2.9	2.7	-1.5	-0.8	0.05	0.6	-0.1	H	€20	NCBC

SIRE DETAILS		ICBF ACTIVE BULL LIST - DAIRY AI SIREs - SPRING 2008																		Availability									
RK	Code	Name	% HO	EBI DETAILS								MILK				FERTILITY		CALVING		BEEF		HEALTH		Type		Avail	Price	Supplier	
				EBI	Rel	Dau	Hrds	MILK	FERT	CALV	BEEF	HEALTH	M Kg	F Kg	P Kg	F%	P%	CI	SURV	% CD	GL	Cwt	SCC	O FL	O MA				
43	QUR	QG EUROPE ET	100	€119	90	568	318	€85	€5	€33	-€2	-€3	493	6.5	17.5	-0.20	0.02	-0.1	0.4	1.5	-2.3	1.9	0.03	-0.9	-0.8	H	€19		NCBC
44	JWH	JACKWAYS HERNE	84	€118	88	213	70	€57	€70	€22	-€17	-€14	-10	14.5	5.5	0.29	0.11	-4.3	1.7	2.1	-1.5	-11.5	0.24	-	-3.1	L	€16		NZG/EUROGENE AI
45	SLL	SALLYHALL TORELLO	6	€117	80	99	58	-€47	€150	€29	-€9	-€6	-430	-10.5	-10.5	0.14	0.09	-9.7	3.1	1.6	-2.6	-7.8	0.08	-2.1	-2.8	H	€15		DOVEA GENETICS
46	STX	DELTA STILIST	100	€117	73	-	-	€82	€18	€25	-€6	-€2	290	14.8	13.0	0.07	0.06	0.1	1.7	2.0	-1.9	-2.1	0.03	0.8	0.3	H	€22		NCBC
47	HKU	HAIKU	MO	€116	81	151	54	-€3	€100	-€10	€24	€6	-102	-10.0	0.0	-0.13	0.07	-6.0	2.5	6.2	1.8	10.1	-0.11	-	-	M	€19		DOVEA GENETICS
48	LBO	LINDE BARTHO	100	€116	99	11128	1955	€57	€41	€25	-€13	€6	321.5	13.5	10.0	0.03	-0.01	-2.1	1.4	2.4	-1.5	-6.0	-0.10	0.1	-0.4	H	€16		NCBC
49	DCA	DOVEA CAESER ET	0	€115	80	102	50	€14	€95	€15	-€5	-€4	-217	1.0	-1.0	0.20	0.13	-5.9	2.2	3.8	-1.8	-3.1	0.05	-1.7	-3.1	H	€16		DOVEA GENETICS
50	HXU	D-K-DANDY HERCULES-ET	100	€115	66	-	-	€45	€59	€13	-€7	€4	355	6.1	10.0	-0.13	-0.03	-3.0	2.1	3.1	-0.5	-2.6	-0.10	-1.1	0.7	H	€15		DOVEA GENETICS
51	LCX	LANCELOT	100	€115	84	-	-	€80	€21	€13	€5	-€4	479	12.8	15.5	-0.09	-0.01	1.9	3.9	3.2	-0.9	8.9	0.07	-0.3	1.1	M	€27		NZG/EUROGENE AI
52	BEI	BALLINFAD BERTIE 3	0	€114	89	301	217	€0	€91	€32	-€7	-€3	-177	-4.5	-1.5	0.05	0.09	-5.9	1.9	1.3	-2.7	-6.8	0.05	0.1	-2.2	H	€19		NCBC
53	FOI	CARNATION FREEDOM CRI ET	100	€113	73	-	-	€21	€73	€21	-€9	€6	154	1.9	4.7	-0.07	-0.01	-4.4	1.9	2.4	-1.5	-2.0	-0.11	0.0	1.2	H	€16		DOVEA GENETICS
54	RIP	REARY MC CARTHY ET	25	€113	64	29	19	€36	€58	€28	-€5	-€5	12	10.0	3.5	0.19	0.06	-3.1	1.9	1.5	-2.2	-3.6	0.08	-	-	H	€17		DOVEA GENETICS
55	MSZ	MINISTER	100	€112	62	-	-	€13	€73	€27	-€4	€4	346	5.1	5.5	-0.14	-0.11	-1.8	4.6	2.6	-2.2	2.8	-0.05	1.5	1.5	H	€20		DOVEA GENETICS
56	KXI	KILLINGLEY MAXIE HUGO	47	€112	82	168	123	€46	€50	€25	-€9	€0	199	12.0	7.0	0.08	0.01	-3.0	1.2	2.2	-2.1	-6.4	-0.01	-0.7	-2.2	H	€19		NCBC
57	KYC	KLASSIC MERRILL LYNCH	100	€112	81	-	-	€61	€33	€30	-€14	€1	313	13.4	10.5	0.03	0.00	-0.6	2.3	1.9	-2.8	-5.5	-0.03	-0.2	1.0	H	€20		DOVEA GENETICS
58	ETK	ETAREGGE K&L ELIAS	100	€110	84	67	39	€83	€13	€16	-€4	€2	350.5	14.0	14.0	0.01	0.04	0.3	1.5	2.4	-0.4	0.8	-0.03	-0.7	0.0	L	€16		ABS IRELAND
59	RIH	DE RITH CHASSE	100	€109	66	-	-	€70	€40	€10	-€8	-€3	272	9.7	11.9	-0.01	0.05	-2.2	1.2	3.9	-0.8	-2.9	0.04	-0.1	1.3	H	€24		NCBC
60	PAH	PACHT	RB	€109	76	82	34	-€5	€105	€5	€10	-€7	-404	-11.0	-4.0	0.10	0.22	-7.0	2.0	3.3	0.2	4.3	0.12	-	-	M	€22		NZG/EUROGENE AI
61	SLW	SRB LAWSONS KAIAPOI	53	€108	91	410	101	€36	€67	€20	-€12	-€2	18	8.0	4.0	0.14	0.07	-3.7	2.0	1.2	-0.8	-6.0	0.00	-2.5	-2.4	L	€16		NZG/EUROGENE AI
62	RKO	REARY KEANO ET	25	€108	64	32	24	€27	€66	€24	-€3	-€6	100	6.5	4.0	0.05	0.02	-3.6	2.0	2.3	-1.8	0.0	0.10	-	-	M	€17		DOVEA GENETICS
63	BWK	BAGWORTH KEETS OAKLEY	100	€107	63	-	-	€71	€23	€16	€7	-€10	96	9.9	9.7	0.12	0.12	-1.6	0.3	2.0	-1.0	7.2	0.18	-	-1.0	M	€14		NZG/EUROGENE AI
64	LZP	COMESTAR LEMPIRE	100	€106	65	-	-	€24	€64	€20	-€11	€10	124	4.5	4.2	0.00	0.00	-2.1	3.5	2.7	-1.4	-1.0	-0.15	1.3	1.5	H	€20		NCBC
65	TAE	TLEA MARTELL 4	6	€106	87	222	163	-€9	€99	€21	-€14	€8	-84	-5.0	-1.5	-0.04	0.03	-6.3	2.2	1.7	-1.4	-12.1	-0.15	-0.8	-1.8	H	€19		NCBC
66	OVZ	OCEAN-VIEW ZENITH-TW	100	€106	86	244	133	€53	€42	€11	-€13	€13	373	8.5	11.0	-0.10	-0.02	-2.2	1.4	3.8	0.1	-2.9	-0.19	1.8	1.9	M	€28		NZG/EUROGENE AI
67	PNH	PICSTON SHOTLE	100	€106	73	-	-	€56	€33	€10	-€8	€15	511	15.9	11.8	-0.06	-0.09	0.1	3.0	4.4	-0.9	1.1	-0.20	3.1	3.5	L	€70		ABS IRELAND
68	GMI	GALTEE MERCI ET	100	€105	99	39084	5243	€67	€23	€22	-€5	-€2	174	11.0	10.0	0.08	0.08	-1.0	1.0	3.2	-2.4	-0.7	0.01	-1.0	0.9	M	€19		NCBC
69	LIX	LOBITO	100	€105	91	231	86	€86	-€5	€28	€0	-€4	355	11.0	15.0	-0.04	0.06	0.4	0.0	1.5	-2.2	1.2	0.10	1.4	0.5	H	€17		DOVEA GENETICS
70	MXK	MOERBEEKER HENDRIK	0	€104	60	65	31	€38	€35	€36	-€2	-€3	45.5	9.0	4.5	0.14	0.06	-1.6	1.4	1.4	-3.3	0.0	0.05	-	-	M	€19		NCBC
71	WGG	WELCOME GINO GIOVANNI ET	100	€104	92	332	130	€68	€25	€24	-€9	-€4	362	8.5	13.0	-0.09	0.02	-2.5	-0.5	1.5	-1.8	1.1	0.08	-0.2	-0.3	L	€16		ABS IRELAND
72	MEU	DOVEA MILLENIUM ET	0	€103	76	75	39	€28	€83	€14	-€10	-€11	-89	2.0	2.5	0.11	0.11	-5.4	1.6	3.8	-2.0	-8.7	0.15	-3.3	-1.8	H	€16		DOVEA GENETICS
73	RTZ	DOVEA REMBRANDT	0	€103	62	77	45	€16	€86	€18	-€14	-€3	-225	-0.5	-0.5	0.17	0.15	-5.7	1.6	1.4	-1.4	-12.1	0.05	-1.2	-2.0	H	€16		DOVEA GENETICS
74	JYX	JOYLAN ROXELL	100	€102	66	-	-	€51	€47	-€7	€11	€0	271	10.8	9.0	0.01	0.00	-0.8	3.3	5.0	0.7	10.4	0.03	1.6	2.0	M	€23		NZG/EUROGENE AI
75	KLA	KLASSIC LANCE DESTINY ET	100	€102	91	569	148	€33	€56	€31	-€19	€2	155	4.0	6.0	-0.04	0.02	-2.8	2.0	1.4	-2.6	-12.4	-0.06	-1.5	-1.8	L	€14		NZG/EUROGENE AI

KEY TO TABLE

(i) EBI = Economic Breeding Index (€). Indicates expected profit/lactation for bulls progeny compared to an average animal. (ii) Rel = Reliability of EBI proof. (iii) Dau = Number of Irish daughters in proof. (iv) Hrds = Number of Irish herds in proof. (v) Milk, Fertility, Calving, Beef, Health = EBI Sub - Indices. Added together, these give the overall EBI. MILK; M Kg = PD for milk yield. F Kg (Fat Kg), P Kg (Protein Kg), F % (Fat %), P % (Protein %). Bulls with + values will increase each of these production traits. FERT; CI = Calving Interval (Days). Negative values for CI = reduction in calving interval. (vi) SURV = Survival %. Positive values for SURV = increase in survival (longevity/herd life). CALVING; % CD = Calving Difficulty. Positive values indicates more difficult calvings. GL = Gestation Length. Positive values indicates increased gestation length. BEEF; Cwt = Carcass Weight. Positive values indicates heavier carcasses. HEALTH; SCC = Somatic Cell Count. Negative values indicates reduction in somatic cells. TYPE; O FL = Overall Feet & Legs. O MA = Overall Mammary.

Shaded bulls have Irish daughters included in Proof