

G€N€ IR€LAND Meeting AI Company Participants

Radisson Hotel, Cork Airport 21st January 2009

Agenda.

- Summary of Progeny Test to date
- Overview of Spring 2009
 - Bull owner Progeny Test service
 - Bull owner Procurement service
 - Al field service
 - Genomic services
- Any other business



Review of G€N€ IR€LAND Programs (2005-2008)

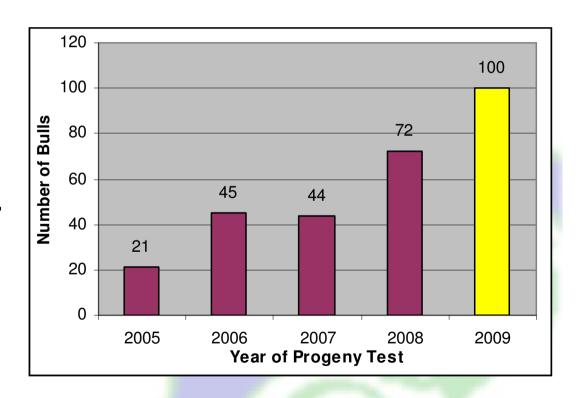


G€N€ IR€LAND - Objectives

- Dairy Program launched in 2005.
- Three main objectives.
 - 1. Increase scale of progeny test program
 - 100 bulls each with 100 daughters.
 - 2. Increase efficiencies of progeny test.
 - · Targeted herd approach.
 - 3. Increase EBI of young bulls.
 - New "top 10" bull each year.

1. Scale of program – <u>Spring</u> <u>Only.</u>

- Target = 100 bulls.
- Scale increasing each year.
 - Late start in 2007
- Additional ~10 bulls in Autumn.
- Target 100 bulls for Spring 2009.



2. Efficiency of program – Spring Only.

- Target; 700 straws = 100 dtrs in proof.
- Improvements in efficiency (~10-15 straws/dtr is accepted "norm")

Year	Dtrs/Insem	Dtrs
2005	9.4	80
2006	7.5	92
2007	6.8	104
2008	6.0	117

- · 2005 program; ave 80 daughters, but only 50 in current proof.... "carry-over, sold, culled".
- 2006 & 2007 programs will "lose" 15-20 daughters for each bull.
- 2008; need ~117 live heifers next Spring.
- Need farmers to use semen in current season.

3. Average EBI of young bulls – **Spring Only.**

- Major increases in EBI of bulls teams.
 - Doubled compared "old programs"
 - Increasing emphasis on fertility.

_	Target = €	155	for
	Spring 200	9	

Year	EBI	Milk	Fert		
2005	€105	€68	€29		
2006	€120	€58	€48		
2007	€125	€61	€50		
2008	€142	€55	€58		
2009	€155	€60	€60		

- Can the program deliver a "new top 10 bull" each year?
- · The key objective of the program.

Herd Sign-ups - Spring Only.

- 1205 herds involved in 2008 program.
 - Industry support, e.g.,
 Teagasc Disc Groups.
 - · High EBI HF pack.
 - · Range of breeds.
 - Started "sign-ups" early.
 Completed by Mar

Program	No	No
	Bulls	Herds
2005	20	150
2006	45	482
2007	44	686
2008	71	1205
2009	90	1575

 Spring 2009 program - need ~1575 herds.

Testing the Science - Does G€N€ IR€LAND "work"?

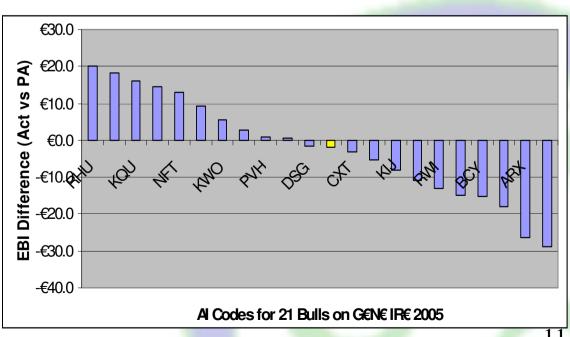
- · 2005 bull team.
 - "Parent Average" EBI = €102
 - Average reliability of team (5 bulls * 5 straws) = 85%
- What does the "science" tell us?
 - "Actual EBI" for team of bulls = +/- €10
 (€92-€112)
 - "Range of EBI's" for individual bulls = +/ €70 (€32-€172)

G€N€ IR€LAND - Spring 2005 Crop

Code	Name of Bull	Sire	EBI	PAve	Diff	Rel	Dau	Hrds	Milk	Fert
AIB	CARRIGOON ARCHIBALD	AHD	€115	€106	€10	61	33	28	€59	€43
ARX	COOLTEEN ARCHIE	AHD	€81	€103	-€22	66	55	41	€55	€40
BCY	BALLINDINAS CAREY	GMI	€98	€100	-€2	63	44	38	€67	€30
BSG	BALLYBROOK DESIGN	DXD	€93	€99	-€6	63	48	43	€45	€49
CXT	CARRACOUSH EXTASY 4	WIM	€122	€110	€11	56	25	18	€128	-€19
DSG	BALLYMARTIN DESIGN 2	DXD	€44	€67	-€23	61	29	23	€44	-€1
НТО	HILLSDALE LOOSTER	LOO	€97	€113	-€15	62	41	35	€78	€19
KDI	KILCOLMAN DESIGN	DXD	€91	€95	-€4	65	53	40	€32	€50
KIJ	KILLINGLEY SIJKE SLOGAN	ESZ	€71	€77	-€6	69	108	78	€22	€39
KQU	KILQUANE TAUS	RGK	€72	€50	€21	65	64	51	€62	-€2
KSY	KILLINGLEY SIJKE DELCOY 2	DCD	€135	€105	€30	63	70	50	€91	€18
KTX	KILLINGLEY BET EXCELLENC'	LYE	€85	€117	-€32	69	100	73	€32	€56
KWO	KILCLUTOWN DESIGNER JOM	DXD	€89	€89	€1	64	45	30	€38	€58
LNH	CARRIGOON LENA ARCHIE	AHD	€120	€118	€2	57	28	20	€20	€73
NFT	COOLNASOON FAIRGALT 2	GMI	€112	€111	€1	49	12	10	€58	€34
PVH	PINEVILLE HUGO	UYC	€112	€123	-€11	64	51	39	€75	€29
RCI	CARRAIGBUI MERCI	GMI	€100	€108	-€9	61	29	26	€33	€61
RHU	BALLYBROOK ROYAL HUGO	UYC	€141	€134	€8	67	65	49	€103	€31
RMC	REARY MCGINLEY	NHS	€93	€106	-€12	71	96	70	€60	€12
RVS	RAHEENVARREN SJOERD	NHS	€115	€103	€12	61	36	26	€96	€12
RWI	REENBAWN MERCI	GMI	€109	€120	-€11	60	26	22	€66	€46
Average G€N€ IR€LAND 2005		€100	€102	-€2	63	50	39	€60	€32	

Yes. The Science Works!

- Parent Average EBI of 2005 Bull Team = €102
- Actual EBI of 2005 Bull Team = €100 (-€2)
- Across all bulls; EBI Difference Range = +/- €30
- Best bull = RHU (€141)
- "Science" has been proven.
- *Major* +++ *for* G€N€ IR€LAND



G€N€ IR€LAND - Summary

- G€N€ IR€LAND is delivering on its 3 main objectives.
 - Scale = 100 bulls.
 - Efficiency = 700 straws & 100 daughters
 - EBI = €20/year increase.
- · The "science" is now proven.
- Continue to build on what has already been achieved.



Bull Owner Progeny Test service

Overview of Program



Overview

- Al companies purchase bulls, collect semen & forward semen to ICBF for dispatch (700 straws/bull).
- ICBF sign-up herds, dispatch semen, collect data & produce EBI's
 - Herd recruitment starting this week (to test 90 bulls, require ~1,575 herds)
 - Target dispatch start date mid-Feb

Semen Collection

- Key is to get semen moving early.
- <u>But</u>.....many of the bulls are only 1 year old @ semen collection.
- · Reliant on bulls carried over from previous season.
- Critical to send ICBF weekly updates on semen collection.
- · Some problems at end of breeding season, esp. non-HOFR.
 - AI Start dates vs <700 doses collected??</p>

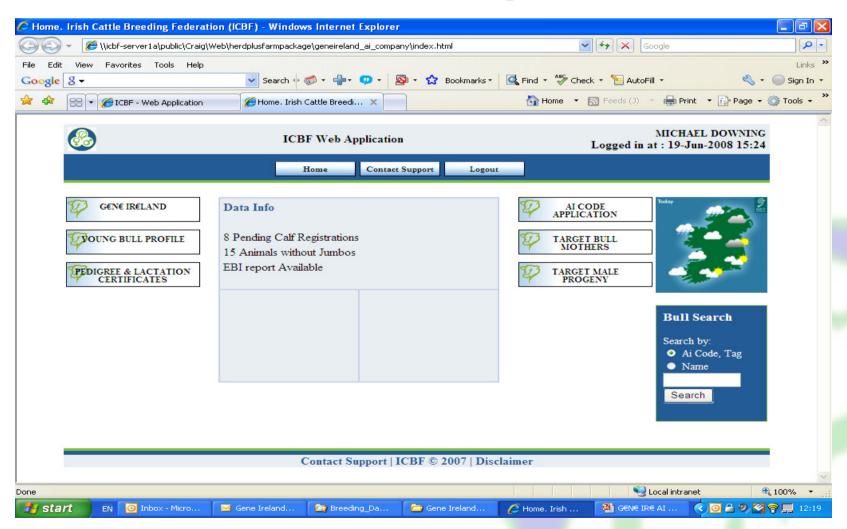
Data monitoring

- ICBF have large number of extracts for monitoring data collection.
- Bull Data File generated weekly
 - Summary of key data (i.e. count of rec'd insems, calvings, MR dtrs, Linears)
 - Latest Genetic Evaluation
- Output emailed to respective Al companies when time allows

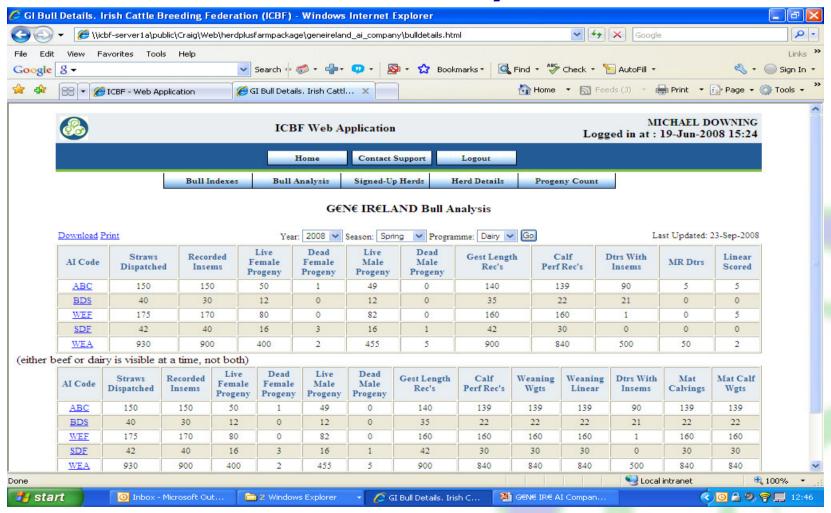
Web screen developments

- Allow AI Companies on-line access to details of their G€N€ IR€ test bulls and herds assigned to them.
 - Latest bull indexes
 - Bull stats (from Bull Data File)
 - Herds signed up
 - Individual herd details
 - Progeny count (not restricted to GI bulls)

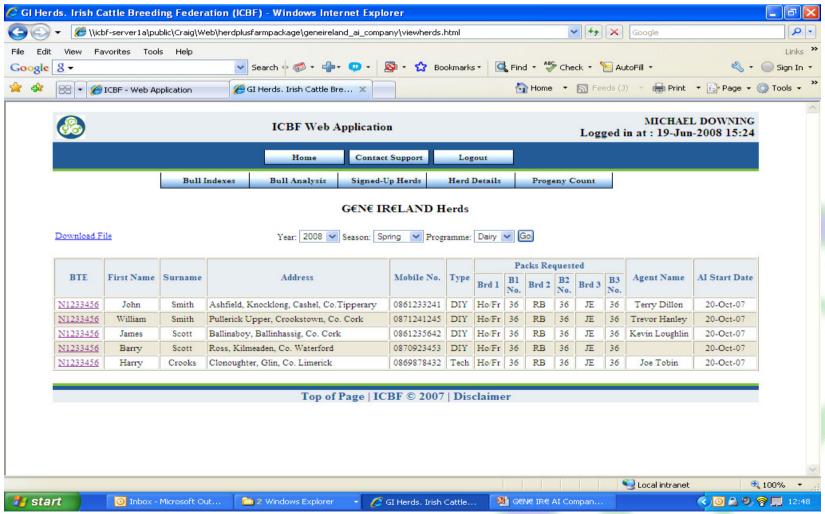
Homepage



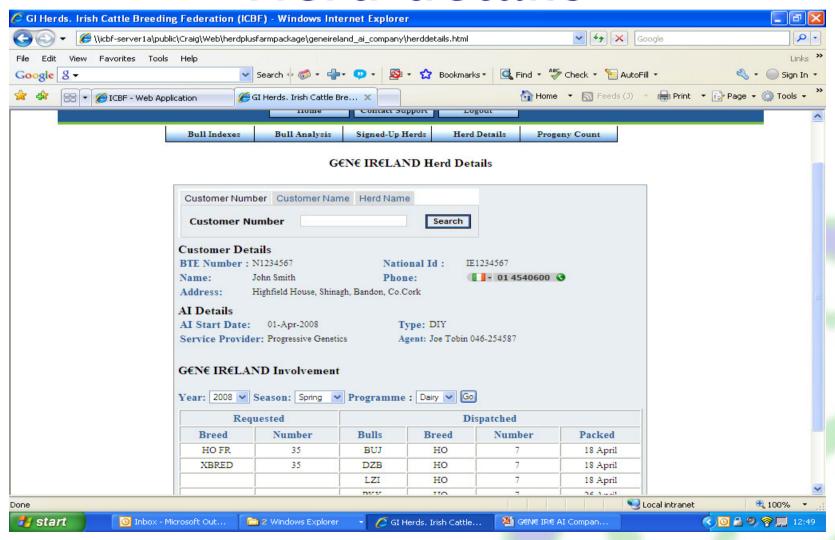
Bull Analysis



Signed up herds



Herd details



Summary

- Regular updates on semen collections critical to test group allocations and distribution.
- New on-line web screens under development to allow better access of test bull and herd information to Al Companies.



Bull Owner Progeny Test service

Contracts for 2009.





Bull Owner Procurement service



Current processes

- To date providing AI Companies with data from various extracts
 - Weekly young bull report
 - Expected calving report
 - Top cow listing (available on ICBF website)
 - Contract Mating files
 - Pedigree and Lactation Certificates

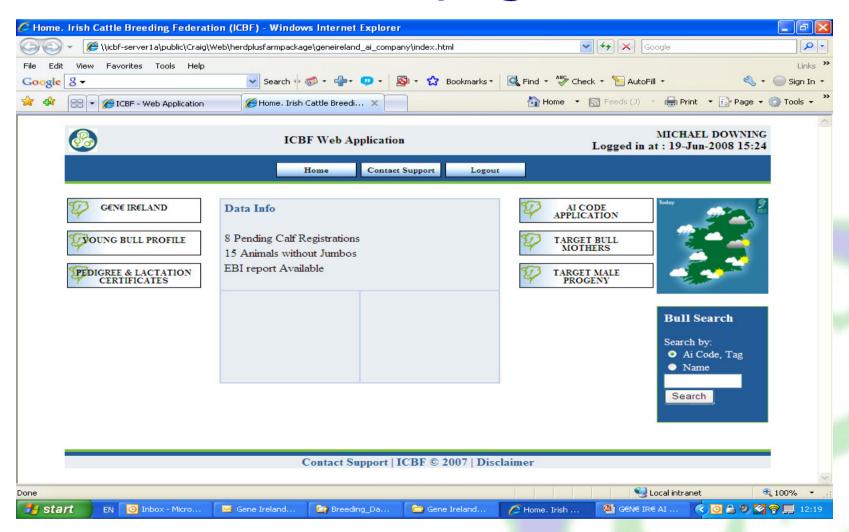
On-line application

- Files currently produced in cvs, txt or exl formats and emailed to respective companies.
- Move to an on-line application via ICBF website.
 - Improved access to information
 - Increased efficiency

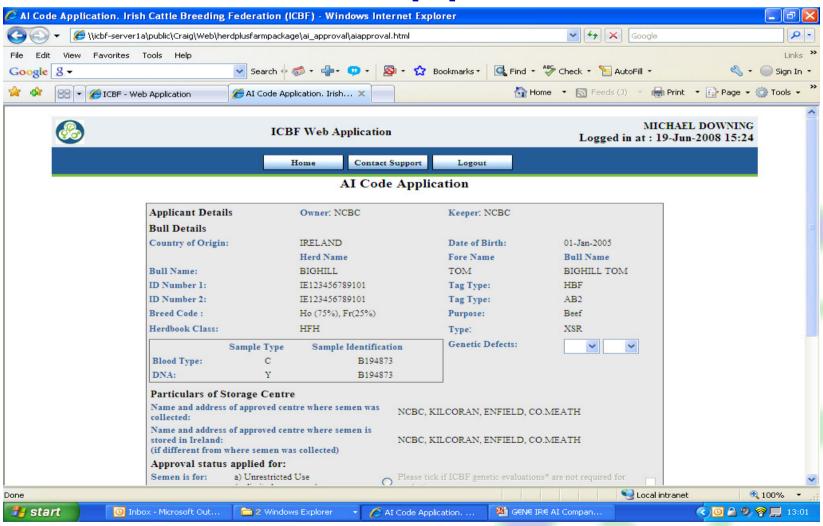
On-line developments

- Al Companies log on as per herd owners.
 - Al Code application.
 - Request Pedigree & Lactation Certs (for a group or individual animal)
 - Targeting bull mothers
 - Others (still under draft)
- Restrictions will be applied to some extracts.

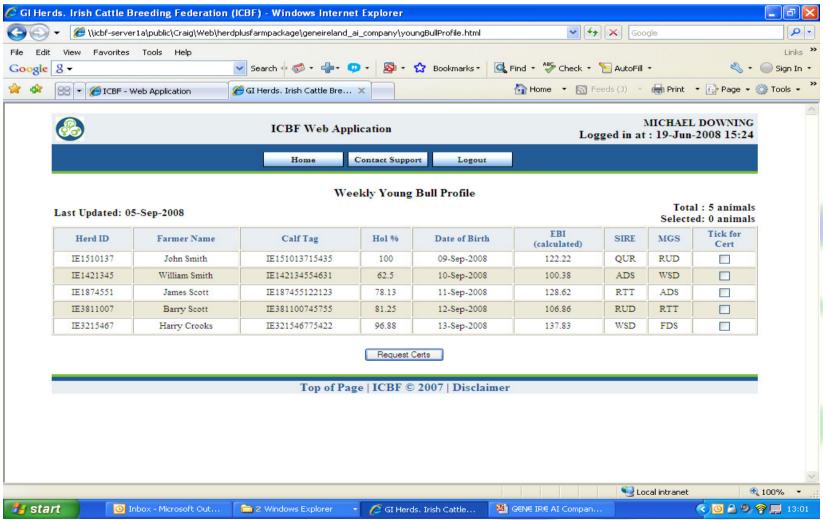
Homepage



Al Code application



Young bull profile



Summary

 Expand G€N€ IR€LAND® web based procurement service to meet needs of AI Companies and Breed Associations with active breed improvement programs.



Genomic service



ICBF Genomic Services.

- Farmers/Al companies wanting genomic EBI's this Spring?
- Owner.....DNA....lab.....genotype.....ICBF database.....EBI (including genomic data)owner...... genotype stored in database.....EBI in public domain.....
- · Genotype only available to 3rd party, on consent of owner.
- Terms & conditions (including cost) not yet finalised
- · Interbull meeting next week.