IRISH CATTLE BREEDING FEDERATION

Tully Performance Test Programme

Stephen Conroy

National Development Plan
Transforming Ireland

G€N€ IR€LAND progeny test program

- Background: Progeny testing allows for increased accuracy in genetic evaluations.
- Aim: Collect information on commercial progeny from AI sires.
- Selection Process:
  - ICBF Database: G€N€ IR€LAND AI sires (15 progeny), Sire & MGS recorded, age & gender (bulls & steers)
  - On-Farm: Parentage verification, weight & health.
- 850 animals (770 bulls and 80 steers) slaughtered to date.
- 33 bulls and 28 steers currently on test
  - 95 bulls due to go on test

Measurements obtained

- Acclimatisation period: (30 days).
  Vaccination IBR, BVD, RSV, PI3, Blackleg & other clostridia diseases.
- Diet
  - Bulls (ad-lib concentrates); Steers (8 kg concentrates & ad-lib roughage)
- Performance test measures (90 day testing period).
  - Average daily gain (g/day), Feed conversion efficiency (DMI/ADG), Linear Scores, Scanned muscle and fat depth and intramuscular fat (mm) & Scrotal circumference (cm).
- Carcass & meat eating quality.
  - Carcass grades, primal yields, colour, pH, composition & sensory analysis.
- Health & disease traits.
  - Recording lameness, genetic defects, pneumonia and other illnesses.
- Genomics.
  - Genotyped using customised IDB Version 2 chip (17k markers).

Tully commercial progeny results

Index	Num	Index	Swt	Ewt	ADG	DMI/d	Cwt	KO%	Profit*	Cuts kg	% Cuts	VHV cuts	Tender
5 Star	240	€112	488	691	1.97	12.04	414	0.60	€87	336.1	0.81	27.4	6.0
4 Star	108	€88	491	697	2.03	12.66	410	0.59	€42	329.3	0.81	27.0	5.7
3 Star	76	€74	484	689	2.07	13.08	398	0.58	€10	321.0	0.80	26.0	5.7
2 Star	51	€56	484	689	2.12	13.58	395	0.57	-€12	316.5	0.80	25.7	5.8
1 Star	20	€34	481	667	2.10	14.02	374	0.56	-€66	298.6	0.80	24.4	5.8
Overall	495	€92	487	691	2.02	12.57	407	0.59	€49	328.6	0.81	26.8	5.9

** After accounting for concentrates, forage, bedding & veterinary costs.*

*Commercial slaughter value

- Performance of 500 young bulls, from G€N€ IR€LAND AI sires.
- ***Delivering*** *~€100 more profit/progeny through better carcass performance & better feed efficiency .*
- *Additional benefits of more meat cuts*

Importance of Feed Efficiency

Bull 1

Bull 2

Importance of Feed Efficiency

Animal	
ID	Bull 1
Date of Birth	1st May 2013
Sex	Male
Breed	90% Limousin
Performance	
Average Daily Gain	2.2 kgs/day
Carcass Weight	365 Kgs
Carcass Grade	U+2+
Feed Conversion Efficiency	4.8 kgs eaten for every 1 kg liveweight gained
Dry Matter Intake	11 kgs/day
Ancestry	
Sire	UTL (Ultime RI)
Terminal Index	€133 (Rel:80%)
Terminal €uro-Stars	★★★★½
Feed Intake Index	€22 (Rel:45%)
Feed Intake €uro-Stars	★★★

Very Similar
Type of Animal
Growth Rates
Carcass Merit

Very Different
Feed Efficiency
Dry Matter Intakes

Very Different
Genetics for:
Terminal Index
Feed Intake

Animal	
ID	Bull 2
Date of Birth	2nd May 2013
Sex	Male
Breed	90% Limousin
Performance	
Average Daily Gain	2.3 kgs/day
Carcass Weight	360 kgs
Carcass Grade	U-2+
Feed Conversion Efficiency	6.4 kgs eaten for every 1 kg liveweight gained
Dry Matter Intake	14 kgs/day
Ancestry	
Sire	CZH (Carmorn Dauphin)
Terminal Index	€101 (Rel:81%)
Terminal €uro-Stars	½
Feed Intake Index	€18 (Rel:55%)
Feed Intake €uro-Stars	★½

ICBF.com

Importance of Feed Efficiency

'Bull 2' ate 3Kgs/day more than 'Bull 1' in order to achieve the same growth rate!

Importance of Feed Efficiency

3Kgs/day x 90 days = 270 Kgs

or

11 bags of meal

at €10/bag

= €110

Up-coming Tully open days

- 29th April
- 17th June
- 29th July
- 9th Sept

Please book in advance by email:
sconroy@icbf.com