



IRISH CATTLE BREEDING FEDERATION

€uro - Star Review.

21st August 2012.

Overview.

- Launch of new maternal & terminal indexes.
- Implementation plan.
 - Material.
 - Further research.
 - Roll-out plan.

Background.

- Euro-Stars introduced in 2007.
- Strong uptake, especially terminal traits.
 - 719k beef bull searches on ICBF website.
- Concern re: maternal traits.
 - Suckler Beef Value (SBV) was too heavily weighted on terminal traits.
 - No “obvious” index for breeding/selecting for maternal attributes (bulls and/or heifers).
- Major review initiated.

Outcomes of review.

- New economic values – based on Teagasc farm systems model.
- Removal of Suckler Beef Value (SBV) and replaced with 3 new economic indexes; (i) maternal, (ii) terminal & (iii) dairy beef.
- Removal of sub indexes and replaced with “key profit traits”.

Impact on EV's – Old & New

Trait	Old	New
Gestation length (€/day)	-2.12	-1.72
Direct weaning weight (€/kg live)	1.80	-
Direct carcass weight (€/kg carcass)	3.20	3.78
Progeny intake (€/kg DM)	-0.13	-0.16
Survival (€/‰ decrease)	2.94	4.00
<u>Calving interval (€/day)</u>	<u>-1.37</u>	<u>-2.20</u>
Age at first calving (€/day)	-0.96	-1.65
Maternal weaning weight (€/kg live)	1.80	1.74
Mature weight - heifer intake (€/kg carcass)	-1.22	-2.28
Mature weight - cow intake (€/kg carcass)	-0.41	-0.57
Mature weight - cull value (€/kg carcass)	2.80	3.04
<u>Direct calving difficulty (€/‰ change)</u>	<u>-2.96</u>	<u>-5.31</u>
Maternal calving difficulty (€/‰ change)	-1.81	-2.29

(i) Terminal – Traits & relative emphasis.

Index	Trait	% emph	Overall
Calving	Calving Difficulty	22.1	29.3
	Gestation Length	3.7	
	Calf Mortality	3.6	
Beef	Carcass Weight	35.1	68.3
	Carcass Conformation	9.3	
	Carcass Fat	5.5	
	Feed Intake	18.4	
Docility	Docility	2.4	2.4
Overall		100%	100%

(ii) Maternal – Traits & relative emphasis

Sub - Indices	Traits	% emphasis	Overall
Calving	Calving Difficulty	2.9	4
	Gestation Length	0.5	
	Calf Mortality	0.5	
Beef carcass	Carcass Weight	4.7	9
	Carcass Conformation	1.2	
	Carcass Fat	0.7	
	Feed Intake	2.5	
Docility	Docility	0.3	0
Daughter fertility	Cow Survival	5.7	19
	Calving Interval	7.9	
	Age at First Calving	5.7	
Daughter calving difficulty	Maternal Calving Difficulty	5	5
Daughter milk	Daughter Milk	10.7	11
Daughter docility	cow docility	3.3	3
Daughter cull cow weight	Cull cow weight	11	11
Maternal calf calving	Calving Difficulty	11	15
	Gestation Length	1.8	
	Calf Mortality	1.8	
Maternal calf beef	Carcass Weight	11.5	23
	Carcass Conformation	3.1	
	Carcass Fat	1.8	
	Feed Intake	6.5	
Grand progeny docility	Grand progeny docility	1.1	1
Overall	7	100	100

(ii) Maternal – Traits & relative emphasis.

Sub-index	Relative emphasis
Calving	24%
Beef	43%
Fertility	19%
Milk	11%
Docility	4%
Total	100%

(iii) Dairy beef.

- Still under construction.

Correlation between key profit traits & maternal & terminal indexes.

<u>NAME</u>	MATERNAL	TERMINAL
CALV_DIFF	-0.52	0.14
GEST_LENGTH	-0.20	0.17
MORTALITY	-0.44	0.28
FEED_INTAKE	0.03	-0.58
CARCASS_WT	-0.08	0.77
CARCASS_CONF	-0.04	0.83
CARCASS_FAT	0.15	-0.78
AGE_FIR_CALF	-0.43	-0.09
MAT_CALV_DIFF	0.18	0.12
MAT_WEAN_WGT	0.53	-0.37
CI_BEEF	-0.45	0.50
COW_SURV	0.53	0.05
CULL_COW	-0.24	0.77
DOCIL	0.07	0.10

Active Bulls ranked on basis of new maternal index.

	1 star	2 star	3 star	4 star	5 star	Description
Maternal	-€24.0	€57.8	€89.2	€121.2	€183.3	Better maternal
Terminal	€47.6	€66.7	€56.7	€64.0	€78.6	Better terminal
CD%	12.90	8.43	7.05	5.68	5.46	Less CD%
Docility	0.03	0.05	0.03	0.01	0.07	More docile
Carcass weight	23.01	20.01	17.18	16.54	19.56	Less cwt
Carcass conf	1.70	1.64	1.46	1.45	1.56	Less conf
Maternal CD%	5.69	7.33	6.86	6.87	7.40	More diff calv
Milk	-2.77	0.03	1.72	3.28	6.42	More milk
CI Days	2.14	0.78	-0.84	-0.79	-1.50	More fertile

Active Bulls ranked on basis of new maternal index – across breed stars.

	1 star	2 star	3 star	4 star	5 star	Total
AA	1	6	8	22	24	61
AU			1	2	1	4
BA	11	4	2		2	19
BB	34	23	12	12	22	103
CH	71	22	21	9	8	131
HE	11	7	9	4	2	33
LM	29	17	25	41	36	148
PT	1	1	1	4	1	8
SA			1	2	8	11
SH	2	1	12	4	5	24
SI	8	7	6	7	21	49
Total	170	88	101	107	132	598

ONI (On-Dit) – No 1 Maternal Bull

http://herdplus.icbf.com/bull-search/view/animalId/395536163 - Windows Internet Explorer

http://herdplus.icbf.com/bull-search/view/animalId/395536163

File Edit View Favorites Tools Help

Google Search Web Video 0 0 0

http://herdplus.icbf.com/bull-search/view/animalId/39...

Sign In

Home RSS Print Page Tools

Euro-star Index Calving Traits Weanling Beef Carcass Milk Linear Type Pedigree Fertility Docility Prev Eval

Star Rating (within Limousin breed)	Economic Indexes	€uro value per progeny	Index reliability	Star Rating (across all beef breeds)
★★★★★	Maternal	€284.05	83% (Very High)	★★★★★
★★★★★	Terminal	€142.75	89% (Very High)	★★★★★
☆☆☆☆☆	Dairy Beef	€	% (N/A)	☆☆☆☆☆

Star Rating (within Limousin breed)	Key profit traits	Index value	Trait reliability	Star Rating (across all beef breeds)
Expected progeny performance				
★★★★☆	Calving difficulty (% 3 & 4) Breed ave: 5.33%, All breeds ave: 5.49%	5.54%	96% (Very High)	★★★★☆
★★★★★	Docility (1-5 score) Breed ave: -0.06, All breeds ave: 0.00	0.07 score	91% (Very High)	★★★★★
★★★★★	Carcass weight (kg) Breed ave: 18.61kg, All breeds ave: 18.25kg	33.59kg	90% (Very High)	★★★★★
★★★★★	Carcass conformation (1-5 score) Breed ave: 1.79, All breeds ave: 1.57	2.22 score	90% (Very High)	★★★★★
Expected daughter breeding performance				
★★★☆☆	Daughter calving difficulty (% 3 & 4) Breed ave: 5.90%, All breeds ave: 6.36%	6.17%	74% (High)	★★★☆☆
★★★★★	Daughter milk (kg) Breed ave: -0.31kg, All breeds ave: 0.47kg	9.65kg	83% (Very High)	★★★★★
★★★☆☆	Daughter calving interval (days) Breed ave: 1.27 days, All breeds ave: -0.20 days	1.82days	62% (High)	★★★☆☆

Done

start 3 Microsoft Off... 3 Microsoft Off... Progeny_2012.xls Active_210812.xls http://herdplus.i... db4 : Database (... Query1 : Select ... EN 15:34

Top 40 “Active” Maternal AI Sires.

Code	Name of bull	Brd	YO	Owner	Mat	rl	St-w	St-a	Term	rl	St-w	St-a	CD%	rl	Doc	rl	Cwt	rl	Conf	rl	MCD	rl	Milk	rl	CI	rl	Prog
ONI	ON-DIT	LM	98	NCBC	€284	83	5	5	€143	89	5	5	5.54	96	0.07	91	33.59	90	2.22	90	6.17	74	9.65	83	1.82	62	37
CQA	CURAHEEN VIO (ET)	SI	07	EURBULLS	€270	65	5	5	€112	77	5	5	6.27	93	0.28	85	32.76	76	1.76	74	5.17	62	3.68	35	3.2	44	196
MFU	MILNAFUA GRADUATE	SI	96	EURBULLS	€268	77	5	5	€73	83	5	3	5.93	92	0.32	79	20.3	89	1.22	89	5.27	71	13.7	74	-2.76	57	11
ICO	STARLINE DECISION	SI	93	NCBC	€260	78	5	5	€63	90	5	3	5.16	96	0.07	92	24.73	95	1.03	96	6.75	65	17.62	69	-4.03	50	36
RWB	RAWBURN LORD ROCK	AA	06	SEBULLS	€258	74	5	5	€55	91	5	2	5.88	98	0.15	91	18.17	94	0.97	94	5.88	59	18.71	29	-4.89	42	232
FL22	ARCHIBEAU	LM	05	NCBC	€254	83	5	5	€120	96	5	5	3.72	99	-0.21	99	26.36	99	1.49	99	6.61	71	10.18	45	-1.25	57	4589
KIW	KILANETIG IRWIN	BB	85	NCBC	€246	95	5	5	€119	95	5	5	3.66	99	0.09	92	15.23	99	1.96	99	9.63	96	7.04	97	-4.68	96	19
AIA	AMPERTAINE ABRACAI	LM	05	PWFBULLS	€242	65	5	5	€105	74	5	5	3.61	92	0.02	86	20.7	69	1.86	64	5.91	58	10.66	57	-0.31	37	10
S619	UBLO	SA	03	SEBULLS	€241	43	5	5	€93	56	5	5	2.76	74	-0.08	47	23.26	52	1.14	57	7.95	41	11.36	38	-3.11	16	18
AYR	AYNH0 ROSSITER ERI	AA	02	NCBC	€238	70	5	5	€28	80	2	1	2.35	95	0.05	83	11.45	78	0.48	78	8.2	58	24.43	65	-3.34	39	131
F163	GALBALLY DANASTIC	LM	08	IE3712183	€237	41	5	5	€114	47	5	5	5.49	67	0.2	57	32.63	43	2.18	36	5.91	41	-2.3	26	0.53	25	19
APM	AMPERTAINE COMMAN	LM	07	PWFBULLS	€236	48	5	5	€95	57	4	5	5.51	86	0.1	73	21.45	49	2.05	37	5.31	46	10.2	56	-0.25	17	82
WGE	WILODGE CERBERUS	LM	07	PWFBULLS	€233	50	5	5	€147	60	5	5	3.98	86	-0.01	79	36.81	54	2.44	43	7.18	47	0.92	48	0.99	21	62
S546	SAMARK SUPERMAN	SI	05	EURBULLS	€232	62	5	5	€88	75	5	4	3.64	89	0.03	81	28.67	76	1.62	76	8.03	55	11.45	34	-0.8	37	10
S593	QUEENSHEAD ALTEA	LM	05	SEBULLS	€229	69	5	5	€135	78	5	5	2.72	94	-0.07	86	28.79	77	2.02	74	6.88	61	3.13	60	2.42	43	56
RIO	RIO	SA	00	NCBC	€224	95	5	5	€81	97	5	4	2.58	99	-0.04	98	14.83	99	1.08	99	7.1	95	10.03	94	-3.98	90	315
SEV	SEAVIEW TOMMY	SI	06	SEBULLS	€221	84	5	5	€62	95	5	3	8.32	98	0.01	96	26.57	98	1.39	98	5.49	77	11.94	60	-4.48	61	265
SYF	SYMPA	LM	01	PWFBULLS	€221	82	5	5	€108	90	5	5	5.54	98	0.04	94	27.87	89	2.19	88	4.02	71	1.39	75	-0.17	56	129
ELZ	ELEVEUR ET 5264 DE L	BB	03	NCBC	€219	71	5	5	€138	95	5	5	6.64	99	0.2	99	25.22	97	2.65	97	10.19	55	2.09	6	2.25	39	185
S485	LORABAR MIGHTY PRI	AA	04	ABSULLS	€219	57	5	5	€46	74	5	2	1.8	87	0.04	52	6.49	79	1.04	81	9.23	52	9.85	30	-6.27	31	43
S849	VAILLANT	SA	04	BVBULLS	€215	36	4	5	€93	44	5	5	2.64	73	-0.06	51	19.94	33	1.33	31	8.58	42	6.89	24	-3.34	17	23
S771	VETERAN	LM	04	NCBC	€214	40	5	5	€99	55	5	5	3.86	78	-0.08	67	19.67	52	2.14	49	5.9	38	5.77	13	-1.81	16	10
GUB	GRAHAM'S UNBEATABL	LM	03	NCBC	€214	75	5	5	€129	83	5	5	4.89	93	0.14	86	29.1	84	2.32	83	6.38	68	-0.98	68	1.3	50	27
TUT	THRUMTON NOSTRADA	CH	97	EURBULLS	€214	75	5	5	€120	87	5	5	6.09	95	0.05	80	38.12	94	1.82	95	6.23	63	8.76	57	0.39	53	133
GIP	GOULDING PHILIP H33	AA	08	NCBC	€213	57	5	5	€16	72	1	1	1.72	97	0.07	84	-0.46	62	0.6	59	8.9	54	21.95	29	-4.27	30	159
KFY	KILBRIDE FARM NEWR	SI	02	EURBULLS	€213	90	5	5	€56	96	5	2	6.46	99	0.11	97	24.91	98	1.17	98	5.29	86	15.68	89	-1.48	74	382
S511	FIELDSON ALFY	LM	05	ABSULLS	€213	69	5	5	€130	78	5	5	6.39	96	0.13	89	31.81	71	2.5	65	5.84	60	1.52	65	2.28	38	103
IS4	SEEP4 TEE JAY	SI	06	NCBC	€213	89	5	5	€76	96	5	3	7.54	99	0.19	98	27.15	99	1.49	99	4.17	83	2.16	77	-4.55	68	1647
GTZ	GOLDIES TERENCE	LM	02	PWFBULLS	€212	65	5	5	€122	72	5	5	4.91	88	-0.04	76	28.5	69	2.11	67	5.54	58	0.56	73	-1.13	41	21
PNY	PINAY	CH	99	NCBC	€211	68	5	5	€105	78	5	5	3.29	93	0.1	83	25.16	77	1.61	78	7.77	55	5.53	77	-1.62	35	46
LZR	LATASTER ERIC	SA	04	NCBC	€209	79	4	5	€78	91	5	4	6.05	96	-0.07	90	24.72	94	0.95	95	6.68	68	13.34	63	-1.89	54	136
CWI	CASTLEVIEW CASINO	LM	07	SEBULLS	€208	81	5	5	€85	96	3	4	8.05	99	-0.11	97	26.01	97	1.71	97	3.9	69	9.74	39	-1.19	55	1630
CF43	DOONALLY DONALD	CH	88	NCBC	€207	97	5	5	€87	97	4	4	4.41	99	-0.07	97	26.41	99	1.77	99	6.13	97	1.33	98	-5.48	96	34
GAU	GALOPEUR DU SARTA	BB	04	EURBULLS	€206	52	5	5	€147	72	5	5	6.09	93	-0.02	80	26.1	69	2.72	69	9.1	48	3.04	3	5.01	26	79
ETB	ECLAT ET DE BIOURGE	BB	02	NCBC	€204	85	5	5	€130	96	5	5	8.04	99	0.2	98	19.37	99	2.89	99	16.25	76	3.87	52	-0.55	60	192
HRG	HURTIG	SI	78	NCBC	€204	95	5	5	€59	95	5	3	2.85	97	0.01	94	15.79	98	1.05	99	7.91	95	16.85	97	0.66	94	11
S827	VARIEGEOIS	SA	04	SASOC	€203	27	4	5	€75	36	5	3	4.22	56	-0.13	23	16.55	29	1.46	39	7.15	30	11.23	27	-2.67	3	12
WTI	WIVETON INDIANA	BA	93	EURBULLS	€201	77	5	5	€143	88	5	5	6.29	95	-0.08	89	35.64	93	2.47	93	4.18	69	-9.29	55	-1.34	57	78
DRU	DERROUGH SAMUAL	SI	05	SEBULLS	€199	92	5	5	€80	97	5	4	7.86	99	0.07	98	27.66	99	1.36	99	5.96	87	3.44	86	-4.16	75	614
BBQ	BALLYFIN BORAT (ET)	BB	07	SEBULLS	€198	78	5	5	€127	96	5	5	9.02	99	0.25	99	26.73	98	2.3	98	11.57	65	5.19	21	-0.12	51	3111

* Bulls in green are >60% reliable for ζ_4 Days

Active Bulls ranked on basis of new terminal index.

	1 star	2 star	3 star	4 star	5 star	Description
Terminal	€7	€45	€67	€83	€109	More terminal
Maternal	€58	€56	€62	€92	€117	More maternal
CD%	7.68	9.00	9.12	8.04	8.09	Same CD%
Docility	0.05	0.01	0.02	0.00	0.07	Same docility
Carcass weight	7.81	18.49	22.11	23.74	27.73	More cwt
Carcass conf	0.88	1.40	1.71	1.82	2.12	Better conf
Maternal CD%	6.69	6.00	5.86	6.57	7.82	Easier calving
Milk	6.13	2.05	-1.43	0.42	-0.69	Less milk
CI Days	-2.39	-0.11	0.24	0.92	2.06	Longer CI days

Active Bulls ranked on basis of new terminal index – Across breed stars.

Breed	1 star	2 star	3 star	4 star	5 star	Total
AA	43	17	1			61
AU			3	1		4
BA		1	4	1	13	19
BB	10	10	9	12	62	103
CH	13	32	36	21	29	131
HE	32	1				33
LM	3	20	39	35	51	148
PT	1	2		2	3	8
SA	1	4	2	2	2	11
SH	23	1				24
SI	19	15	7	6	2	49
Total	148	107	101	80	162	598

RGG (Giga) – No 1 Terminal Bull

http://herdplus.icbf.com/bull-search/view/animalId/620662236 - Windows Internet Explorer

http://herdplus.icbf.com/bull-search/view/animalId/620662236

File Edit View Favorites Tools Help

Google Search Web Video 0 0 0

http://herdplus.icbf.com/bull-search/view/animalId/62...

Sign In

Home RSS Print Page Tools

Euro-star Index Calving Traits Weanling Beef Carcass Milk Linear Type Pedigree Fertility Docility Prev Eval

Star Rating (within Belgian Blue breed)	Economic Indexes	€uro value per progeny	Index reliability	Star Rating (across all beef breeds)
★★★★★	Maternal	€196.63	57% (Average)	★★★★★
★★★★★	Terminal	€156.8	73% (High)	★★★★★
☆☆☆☆☆	Dairy Beef	€	% (N/A)	☆☆☆☆☆

Star Rating (within Belgian Blue breed)	Key profit traits	Index value	Trait reliability	Star Rating (across all beef breeds)
Expected progeny performance				
★★★★★	Calving difficulty (% 3 & 4) Breed ave: 13.76%, All breeds ave: 5.49%	11.86%	94% (Very High)	☆☆☆☆☆
★★★★★	Docility (1-5 score) Breed ave: 0.16, All breeds ave: 0.00	0.25 score	83% (Very High)	★★★★★
★★★★★	Carcass weight (kg) Breed ave: 27.76kg, All breeds ave: 18.25kg	42.31kg	70% (High)	★★★★★
★★★★★	Carcass conformation (1-5 score) Breed ave: 2.32, All breeds ave: 1.57	2.72 score	68% (High)	★★★★★
Expected daughter breeding performance				
☆☆☆☆☆	Daughter calving difficulty (% 3 & 4) Breed ave: 10.33%, All breeds ave: 6.36%	12.45%	53% (Average)	☆☆☆☆☆
★★★★★	Daughter milk (kg) Breed ave: 3.08kg, All breeds ave: 0.47kg	6.95kg	19% (Very Low)	★★★★★
☆☆☆☆☆	Daughter calving interval (days) Breed ave: 3.23 days, All breeds ave: -0.20 days	5.3days	31% (Low)	☆☆☆☆☆

Done Internet 100%

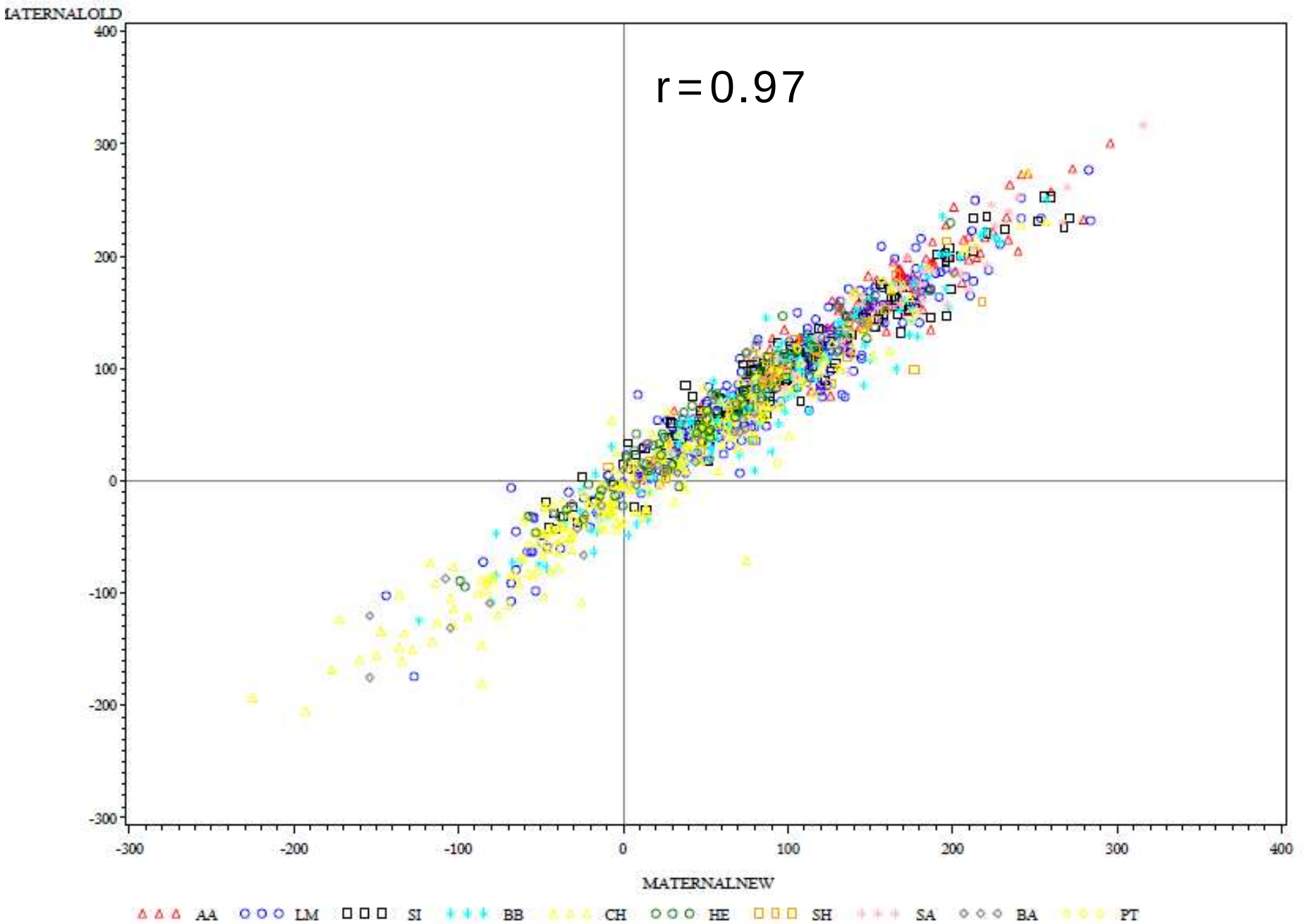
start 3 Microsoft Off... 3 Microsoft Off... Progeny_2012.xls Active_210812.xls http://herdplus.i... db4 : Database (Query1 : Select ... EN 15:36

Top 40 “Active” Terminal AI sires

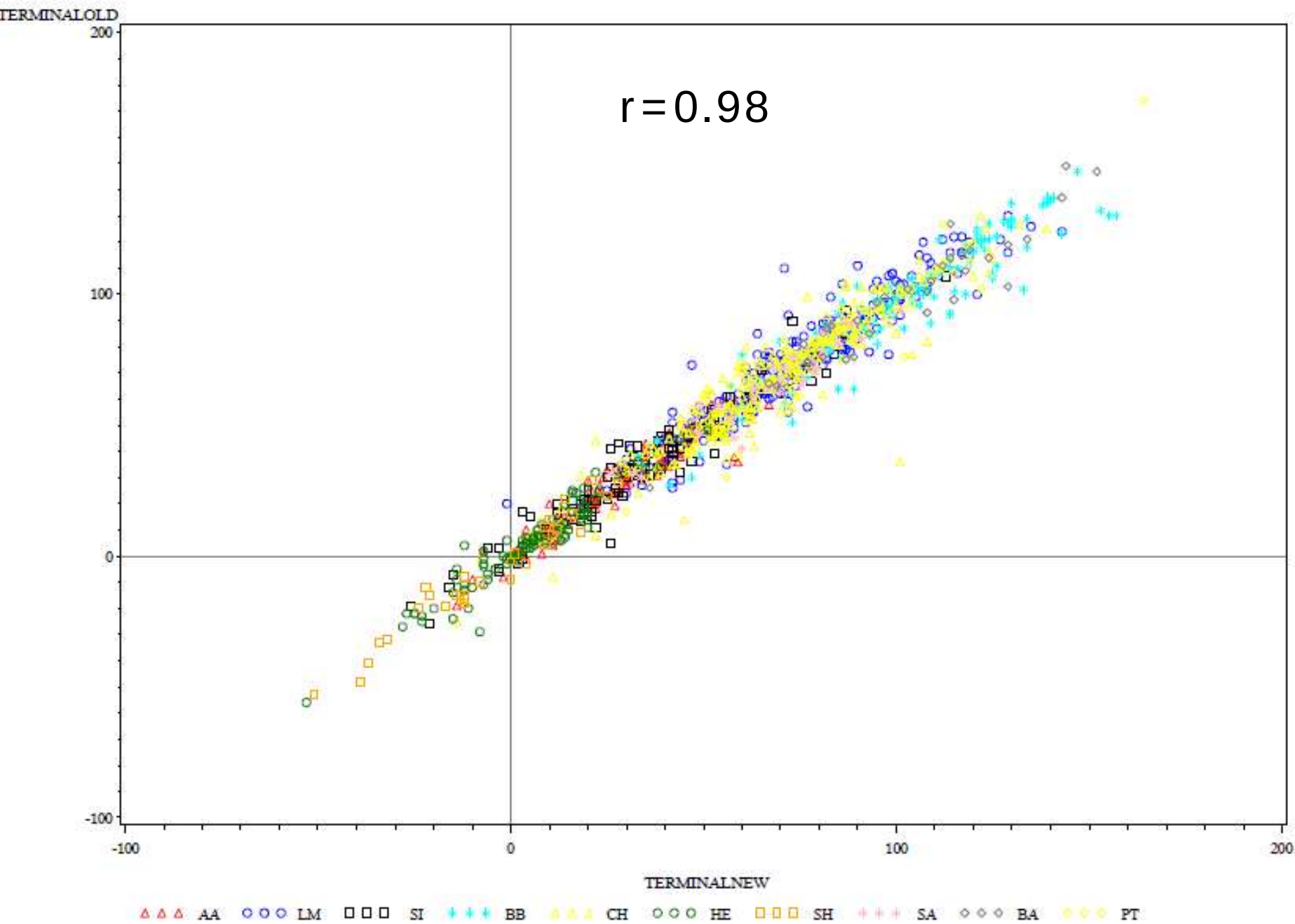
Code	Name of bull	Brd	YOB	Owner	Mat	rl	St-w	St-a	Term	rl	St-w	St-a	CD%	rl	Doc	rl	Cwt	rl	Conf	rl	MCD	rl	Milk	rl	CI	rl	Prog
RGG	GIGA DU BOIS REMONT	BB	06	SEBULLS	€197	57	5	5	€157	73	5	5	11.86	94	0.25	83	42.31	70	2.72	68	12.45	53	6.95	19	5.3	31	147
RMA	ROSEMOUNT ASH	BB	06	BVBULLS	€112	63	5	4	€155	81	5	5	10.71	93	0.12	84	41.85	83	2.76	84	10.03	54	-1.28	22	4.42	36	24
AEB	ACLARE BEHAN	BB	07	NCBC	€86	33	4	3	€149	38	5	5	5.48	65	0.14	29	26.05	30	2.51	29	17.47	41	2.62	21	5.6	20	21
MNZ	MAGNOLIA 0103 DE SOMM	BB	03	SEBULLS	€164	92	5	5	€147	96	5	5	8.49	99	0.2	99	28.24	99	2.86	99	13.45	89	6.02	83	4.07	78	170
WGE	WILDGE CERBERUS	LM	07	PWFBULLS	€233	50	5	5	€147	60	5	5	3.98	86	-0.01	79	36.81	54	2.44	43	7.18	47	0.92	48	0.99	21	62
GAU	GALOPEUR DU SARTAY	BB	04	EURBULLS	€206	52	5	5	€147	72	5	5	6.09	93	-0.02	80	26.1	69	2.72	69	9.1	48	3.04	3	5.01	26	79
WTI	WIVETON INDIANA	BA	93	EURBULLS	€201	77	5	5	€143	88	5	5	6.29	95	-0.08	89	35.64	93	2.47	93	4.18	69	-9.29	55	-1.34	57	78
ONI	ON-DIT	LM	98	NCBC	€284	83	5	5	€143	89	5	5	5.54	96	0.07	91	33.59	90	2.22	90	6.17	74	9.65	83	1.82	62	37
FHZ	FAKIR DE L'HEZ KERNAI	BB	03	NCBC	€166	83	5	5	€142	96	5	5	11.21	99	0.27	99	37.54	98	2.66	98	11.48	69	-0.98	60	2.1	57	2467
NEZ	NOTEZ LE ET DU PONT DU	BB	99	NCBC	€53	80	3	2	€141	89	5	5	10.93	93	0.2	83	29.46	93	2.82	94	15.22	73	2.41	70	8.55	59	10
AZL	ROSS ALO (ET)	BB	06	NCBC	€149	76	5	5	€138	91	5	5	10.62	99	0.21	96	34.42	92	2.75	92	15.2	64	0.38	35	1.36	50	974
ELZ	ELEVEUR ET 5264 DE LA C	BB	03	NCBC	€219	71	5	5	€138	95	5	5	6.64	99	0.2	99	25.22	97	2.65	97	10.19	55	2.09	6	2.25	39	185
S593	QUEENSHEAD ALTEA	LM	05	SEBULLS	€229	69	5	5	€135	78	5	5	2.72	94	-0.07	86	28.79	77	2.02	74	6.88	61	3.13	60	2.42	43	56
SZS	SATYRE DE SOMME	BB	08	EURBULLS	€179	55	5	5	€132	69	5	5	9.98	91	0.23	63	31.76	64	2.54	64	10.04	56	6.08	22	3.53	32	58
SRI	STRUPAR ET DE RADELIN	BB	99	NCBC	€59	94	3	2	€130	95	5	5	7.07	99	0.16	92	11.67	99	2.81	99	14.2	92	5.33	89	10.03	86	16
S511	FIELDSON ALFY	LM	05	ABSULLS	€213	69	5	5	€130	78	5	5	6.39	96	0.13	89	31.81	71	2.5	65	5.84	60	1.52	65	2.28	38	103
ETB	ECLAT ET DE BIOURGE	BB	02	NCBC	€204	85	5	5	€130	96	5	5	8.04	99	0.2	98	19.37	99	2.89	99	16.25	76	3.87	52	-0.55	60	192
WOA	COURTWOOD AIDAN	BA	06	EURBULLS	€72	67	4	2	€129	84	5	5	7.33	93	-0.05	87	35.17	87	2.13	88	5.1	53	-8.45	37	2.91	37	20
GUB	GRAHAMS UNBEATABLE	LM	03	NCBC	€214	75	5	5	€129	83	5	5	4.89	93	0.14	86	29.1	84	2.32	83	6.38	68	-0.98	68	1.3	50	27
GEU	GORDON ET DU GOLARD	BB	06	NCBC	€163	52	5	5	€128	71	5	5	9.94	89	0.35	65	28.9	70	2.5	70	10.76	49	2.19	9	1.62	27	35
S776	BALLYNERRIN REMY ET	LM	00	IE3811270	€183	72	5	5	€127	85	5	5	3.99	91	0.14	77	29.22	93	2.16	93	5.49	66	-5.88	39	1.03	54	10
BBQ	BALLYFIN BORAT (ET)	BB	07	SEBULLS	€198	78	5	5	€127	96	5	5	9.02	99	0.25	99	26.73	98	2.3	98	11.57	65	5.19	21	-0.12	51	3111
BUH	BUDORE UTAH	BA	03	EURBULLS	€166	51	5	5	€126	70	5	5	7.9	90	0.11	78	38.06	70	2.2	70	5.39	48	-7.82	3	-0.97	24	88
F182	BAURNAFEA ALI BABA	CH	05	DOA	€153	65	5	5	€126	76	5	5	4.03	90	0.15	84	31.63	82	1.92	82	7.47	58	-5.53	44	2.9	45	16
WKF	WACKO VH BEEKHOF	BB	03	BVBULLS	€131	62	5	4	€124	79	5	5	9.44	93	0.02	83	34.23	85	2.52	86	7.8	52	0.97	14	1.42	37	26
AAI	ASHLEIGH ADMIRAL	CH	05	EURBULLS	€101	70	5	3	€124	81	5	5	8.14	92	0.21	80	37.59	84	2.03	84	5.09	65	-6.04	37	3.64	52	19
BIG	BUTINEUR DU GRAND COL	BB	99	NCBC	€63	85	4	2	€123	92	5	5	12.99	97	0.36	95	36.07	97	2.64	98	12.83	77	5.97	72	6.85	67	70
DZK	DRUK LANCE	BA	95	NCBC	€9	38	1	1	€122	45	5	5	7.78	66	-0.06	50	31.7	44	2.15	38	5.41	38	-9.54	21	3.55	21	10
FDI	FERMENT 9709 DES TIENN	BB	00	NCBC	€84	78	4	3	€122	93	5	5	7.75	98	0.02	89	21.51	98	2.65	98	15.64	67	5.27	37	5.75	56	308
S297	BEECHDALE RAMBLER	CH	00	SLIBULLS	€49	42	3	2	€122	46	5	5	7.09	64	0.06	29	37.3	44	1.83	43	5.92	47	-6.37	31	4.48	31	30
GTZ	GOLDIES TERENCE	LM	02	PWFBULLS	€212	65	5	5	€122	72	5	5	4.91	88	-0.04	76	28.5	69	2.11	67	5.54	58	0.56	73	-1.13	41	21
BYU	BLAK 5075 BATY EPRAVE	BB	03	NCBC	€95	93	4	3	€121	97	5	5	16.16	99	0.25	99	36.32	99	2.72	99	15.2	89	4.61	84	1.67	76	1391
RYP	ROCKY DU PONT DE MESS	BB	02	SEBULLS	€55	92	3	2	€121	96	5	5	11.28	99	0.23	99	28.06	99	2.72	99	10.51	89	-8.63	86	5.15	78	371
TUT	THRUNTON NOSTRADAMU	CH	97	EURBULLS	€214	75	5	5	€120	87	5	5	6.09	95	0.05	80	38.12	94	1.82	95	6.23	63	8.76	57	0.39	53	133
FL22	ARCHIBEAU	LM	05	NCBC	€254	83	5	5	€120	96	5	5	3.72	99	-0.21	99	26.36	99	1.49	99	6.61	71	10.18	45	-1.25	57	4589
EDJ	ESPOIR DU JARDIN	BB	99	NCBC	€94	97	4	3	€120	97	5	5	7.36	99	0.22	99	18.16	99	2.49	99	16.31	97	1.38	96	2.27	93	608
SFL	DU STORDEUR FLANEUR	BB	02	BVBULLS	€192	89	5	5	€120	96	5	5	5.88	99	0.24	99	15.75	99	2.22	99	9.91	84	0.94	75	0.06	71	1227
SDA	MAERDY SINNDAR	CH	00	NCBC	€69	74	4	2	€120	84	5	5	10.61	89	0.29	83	45.99	91	1.94	91	5.82	64	-21.46	60	0.02	51	16
KIW	KILANETIG IRWIN	BB	85	NCBC	€246	95	5	5	€119	95	5	5	3.66	99	0.09	92	15.23	99	1.96	99	9.63	96	7.04	97	-4.68	96	19
JOK	JOKER DU PONT D'HERBA	BB	99	NCBC	€41	97	3	2	€118	97	5	5	11.25	99	0.23	99	25.13	99	2.74	99	16.57	97	4.74	97	7.55	93	86

* Bulls in green are >60% reliable for Carcass weight

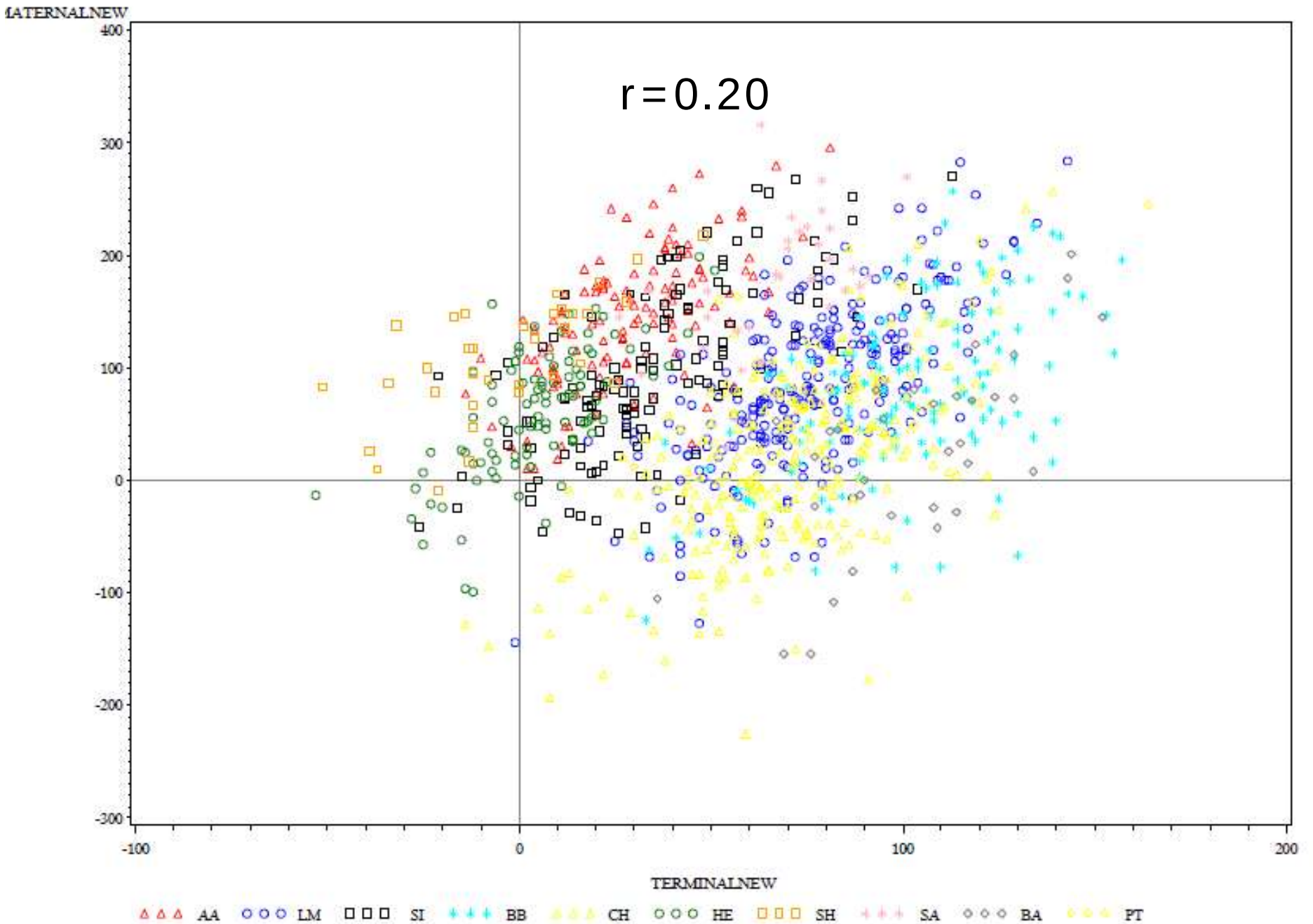
AI sires for MATERNAL old v new



AI sires for TERMINAL old v new



AI sires for new MATERNAL v new TERMINAL

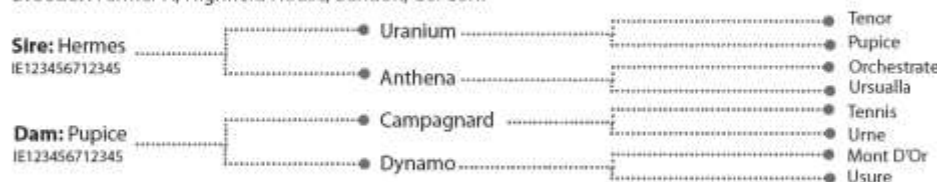


New Euro-Star template

- Available on ICBF bull search.
- Catalogues – next week.

Lot 4 Highfield Tommy

ID: IE123456712345 Breed: Charolais
 Sex: Male DOB: 1st January 2012
 Owner: Farmer A, Highfield House, Bandon, Co. Cork
 Breeder: Farmer A, Highfield House, Bandon, Co. Cork



Star rating (Within Charolais breed)	Economic indexes	Euro value per progeny	Index reliability	Star rating (across all beef breeds)
★★★	Maternal	€350	18% (v low)	★★★
★★★★★	Terminal	€100	25% (Low)	★★★★★
★★★	Dairy beef	€78	23% (Low)	★

Star rating (Within Charolais breed)	Key profit traits	Index value	Trait reliability	Star rating (across all beef breeds)
---	-------------------	-------------	-------------------	---

Expected progeny performance

★★★★★	Calving difficulty (% 3 & 4) Breed ave: +8.4%, All breeds ave: +5.5%	+6.8%	22% (Low)	★★★
★★★★★	Docility (1-5 score) Breed ave: +0.03, All breeds ave: +0.0	-0.3 score	18% (V Low)	★★★
★★★★★	Carcass weight (kg) Breed ave: +27kg, All breeds ave: +18kg	+12.4kg	26% (Low)	★★★★★
★★★★★	Carcass conformation (1-15 score) Breed ave: +1.7, All breeds ave: +1.6	+1.1 score	22% (Low)	★★★★★

Expected daughter breeding performance

★★★	Daughter calving diff (% 3 & 4) Breed ave: +5.8%, All breeds ave: +6.4%	+8.6%	16% (V Low)	★★★★★
★★★★★	Daughter milk (kg) Breed ave: -5.9kg, All breeds ave: +0.5kg	+3.4kg	23% (Low)	★★★
★★★★★	Daughter calving interval (days) Breed ave: +0.6 days, All breeds ave: -0.2 days	-1.3days	7% (V Low)	★★★

Additional information:

Linear composites	Value	Reliability
Muscle	123	34%
Skeletal	112	35%
Functionality	97	26%

Herd data quality index

Excellent

Design of material.

- Euro-Star template (bull search, sales catalogues, AI catalogues....).
- Herdbook on-line.
- ICBF Herd-Plus profiles.
- Suckler cow reports.
- New Euro-Star report.
- ICBF Active Bull List.
- Others.....
- Worked on a phased basis. Released at various stages from 22 August.

Breed percentiles. Displayed on web & in catalogues.

Table 1. Breed percentiles for maternal and terminal index and key profit traits.

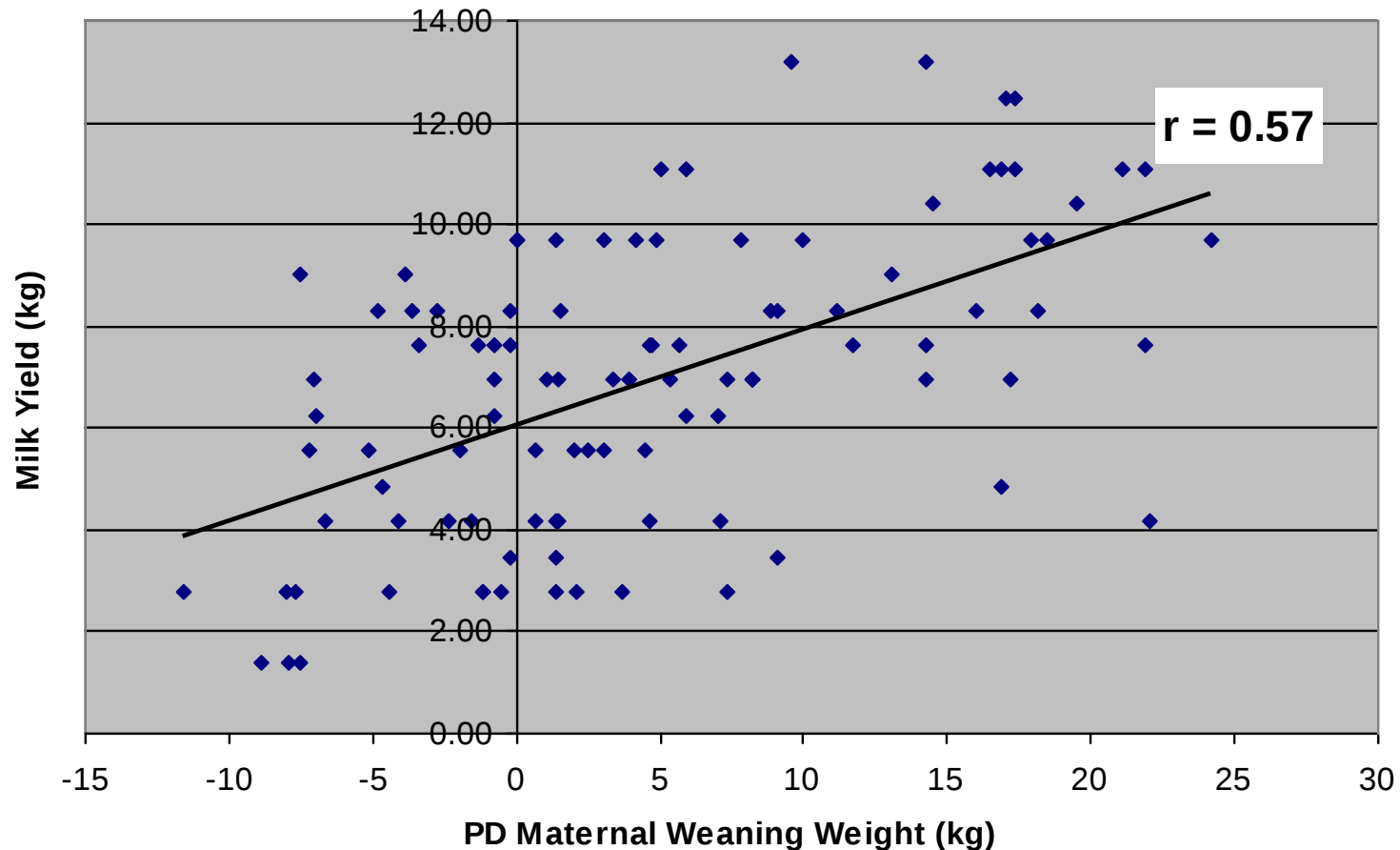
Breed	Trait	Records	Mean	St Dev	Top1%	Top10%	Top20%	Top40%	Btm40%	Btm20%	Btm10%	Btm1%
ALL	Maternal	167,474	€88.6	€59.2	€221.5	€163.8	€139.6	€104.1	€73.5	€39.0	€13.0	-€53.9
ALL	Terminal	167,474	€69.5	€32.1	€119.1	€97.9	€89.5	€76.5	€59.4	€29.9	€14.8	-€14.1
ALL	Calving difficulty (% 3 & 4)	167,515	5.5	3.1	1.4	2.6	3.6	4.9	6.2	8.1	9.9	16.5
ALL	Docility (1-5 score)	61,547	0.00	0.11	0.25	0.14	0.09	0.03	-0.03	-0.09	-0.13	-0.27
ALL	Carcass weight (kg)	167,540	18.3	10.6	36.7	30.2	26.6	20.7	15.6	6.2	1.5	-6.0
ALL	Carcass conformation (1-15 score)	167,540	1.6	0.5	2.3	1.9	1.8	1.7	1.4	0.8	0.6	0.3
ALL	Daughter calving diff (% 3 & 4)	167,452	6.4	1.5	3.6	4.9	5.4	6.1	6.7	7.7	8.6	10.8
ALL	Daughter milk (kg)	167,542	0.5	6.7	18.9	9.8	7.2	2.5	-1.2	-4.9	-7.2	-11.3
ALL	Daughter calving interval (days)	167,489	-0.2	2.8	-6.7	-4.4	-3.1	-1.0	0.5	1.9	2.9	5.3
AA	Maternal	22,035	€145.0	€34.9	€232.7	€190.7	€173.6	€153.3	€136.9	€118.4	€103.8	€63.8
AA	Terminal	22,035	€32.2	€13.0	€62.9	€48.7	€42.9	€35.5	€29.0	€21.5	€16.0	€1.9
AA	Calving difficulty (% 3 & 4)	22,044	2.4	1.0	0.9	1.5	1.8	2.2	2.6	3.1	3.6	5.7
AA	Docility (1-5 score)	4,819	0.01	0.10	0.26	0.12	0.08	0.03	-0.01	-0.07	-0.11	-0.23
AA	Carcass weight (kg)	22,035	2.8	4.9	14.2	8.9	6.8	4.1	1.6	-1.4	-3.5	-9.0
AA	Carcass conformation (1-15 score)	22,035	0.7	0.1	1.1	0.9	0.9	0.8	0.7	0.6	0.6	0.4
AA	Daughter calving diff (% 3 & 4)	22,044	8.6	0.9	6.5	7.5	7.9	8.4	8.8	9.2	9.6	10.8
AA	Daughter milk (kg)	22,037	7.5	2.9	16.5	11.2	9.7	8.1	6.9	5.5	4.4	1.4
AA	Daughter calving interval (days)	22,039	-4.5	1.5	-8.1	-6.4	-5.7	-4.9	-4.1	-3.3	-2.6	-1.1
CH	Maternal	47,474	€40.4	€46.1	€146.5	€94.6	€75.9	€51.2	€29.6	€3.0	-€18.4	-€79.9
CH	Terminal	47,474	€79.0	€18.5	€119.4	€100.9	€93.7	€83.4	€74.5	€63.9	€55.1	€30.2
CH	Calving difficulty (% 3 & 4)	47,483	8.3	2.6	3.7	5.6	6.5	7.7	8.8	10.4	12.0	16.7
CH	Docility (1-5 score)	18,573	0.04	0.08	0.23	0.14	0.10	0.05	0.02	-0.03	-0.07	-0.19
CH	Carcass weight (kg)	47,486	27.9	5.2	39.4	33.9	31.8	29.1	26.7	23.5	20.9	14.5
CH	Carcass conformation (1-15 score)	47,486	1.7	0.2	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.2
CH	Daughter calving diff (% 3 & 4)	47,467	5.8	1.1	3.3	4.5	5.0	5.6	6.1	6.7	7.2	8.4
CH	Daughter milk (kg)	47,486	-5.8	3.2	2.6	-1.6	-3.1	-5.0	-6.6	-8.4	-9.7	-12.9
CH	Daughter calving interval (days)	47,476	0.5	1.9	-4.0	-2.0	-1.2	0.0	0.9	2.1	2.9	5.2

Research priorities.

- Research to support extension & roll-out.
 - Accuracy of maternal milk proofs – Noirin.
- Research to test & improve accuracy of Euro-Star indexes.
 - Calving performance evaluations.
 - Female fertility (i.e., age at first calving).
 - Maternal milk and “cross-bred” influence.
 - Stock bull functionality.
 - Beef performance evaluations.
- Work in progress. Updates provided at routine industry and herdbook technical meetings.

Maternal proofs. Indexes are a good indicator of milk.

Figure 1. Relationship between maternal milk proofs and milk yield for animals in the Grange Derrypatrick suckler beef herd



Maternal proofs. Indexes are a good indicator of milk & weight.

Ranking	PD Maternal weaning weight (kg)	Milk yield (kg)	Weight of calf
100-80%	12.03	10.7	197
80-60%	4.88	8.1	186
60-40%	4.65	6.8	179
40-20%	1.89	4.6	176
20-0%	-3.17	2.5	155
Difference	15.2	8.2	42.0

Calving evaluation: Research

Calving traits close to convergence

	<i>direct calving difficulty</i>	<i>maternal calving difficulty</i>	<i>direct gestation</i>	<i>maternal gestation</i>	<i>direct mortality day 0 to 5</i>	<i>maternal mortality day 0 to 5</i>	<i>direct mortality day 5 to 28</i>	<i>maternal mortality day 5 to 28</i>
direct calving difficulty	0.10							
maternal calving difficulty	-0.20	0.02						
direct gestation	0.20	0.05	0.35					
maternal gestation	0.01	0.02	0.05	0.04				
direct mortality day 0 to 5	0.09	0.04	0.08	0.01	0.04			
maternal mortality day 0 to 5	0.05	0.03	0.02	0.02	-0.02	0.01		
direct mortality day 5 to 28	0.06	0.03	0.07	0.04	0.02	0.00	0.04	
maternal mortality day 5 to 28	0.01	0.02	0.03	0.01	0.00	0.00	-0.04	0.004

Calving evaluation: Research

Predictor traits in progress

heritability genetic correlation

• Birth weight	0.45	0.37
• Weaning weight	0.35	0.36
• Calf quality score	0.33	0.29
• Muscle score	0.39	0.41 (still iterating)
• Skeletal score	0.39	???
• Carcass weight	0.45	0.29
• Carcass conformation	0.40	0.19

Calving evaluations – next steps.

- Finish new genetic parameters.
- Develop test evaluations.
 - CD%; Differences between extreme bulls & breeds will reduce.
 - MCD%; Differences between extreme bulls & breeds will reduce.
- Release to industry for feedback.
- Release in December 2012?

Age at first calving.

- Correlations lower than expected between runs.
- Definition of contemporary group?
- Work underway.

Pearson Correlation Coefficients, N = 515 Prob > r under H0: Rho=0					
	pdafeo	pdc42ho	pdc42co	pdcivo	pdsuvo
pdafe	0.87553 <.0001	0.02758 0.5323	-0.11011 0.0124	0.24789 <.0001	-0.04650 0.2922
pdc42h	0.02850 0.5188	0.96336 <.0001	0.19502 <.0001	-0.26030 <.0001	-0.09222 0.0364
pdc42c	-0.12857 0.0035	0.19404 <.0001	0.95934 <.0001	-0.29709 <.0001	0.21658 <.0001
pdciv	0.25965 <.0001	-0.24177 <.0001	-0.29649 <.0001	0.98355 <.0001	-0.49740 <.0001
pdsuv	-0.01935 0.6613	-0.10125 0.0216	0.24076 <.0001	-0.49585 <.0001	0.97843 <.0001

But. Age at first calving – genetic differences do exist!

AI Code	RKZ	SKU
Straws dispatched	700	700
Recorded inseminations	598	510
Daughter records (to-date)	58	14
Progeny average	911	804
Herd mate average	917	904
Genetic merit dams	-10.0	-10.1
PD age at 1st calving	-18.5	-36.4
Economic value	-1.63	-1.63
€uro-Star	€30.2	€59.3

Roll-out plan

- Meet with all Breed Society Councils:
 - Explain the new Index layout.
 - 1 hour required at each Council meeting.
 - 2 People to present the material.
 - Include familiar example bulls.
- Send out explanatory material about the new indexes to all breeders.
- Attend breed society Sales this Autumn to explain new indexes to breeders.
 - ICBF attendance at sales to be advertised.
 - Possibility of giving a talk in the ring before the sale commences.

Herdbooks – lists of meetings & sales.

Breed	Next Council Meeting	Popular Autumn Sale / Event
Aberdeen Angus	August - Tullamore Court or Mullingar Park	Virginia - 22nd August - All Ireland Angus Show
Irish Angus	End of August in the Maldron Hotel Portlaoise	Sat 8th Dec - Irish Angus Elite Sale - Carrick-on-Shannon
Aubrac	Late August/Early September in Horse & Jockey	Society sale in Tullamore in October
Belgian Blue	Wednesday 1st August - Portalaoise or Abbeyleix	October in Roscrea
Blonde	Early August in Horse & Jockey	AGM - End of November
Charolais	In October	3rd November in Tullamore & 1st December in Carrick-on-Shannon
Hereford	1st week of August - Racket Hall, Roscrea.	Sat 20th Oct - Premier Sale in Tullamore
Limousin	End of August - Racket Hall, Roscrea.	Mon 29th October - Roscrea
Parthenaise	Late August in Roscrea	Thinking of having their first ever sale this coming year
Salers	1st Week in September - Creggan Court Hotel, Athlone.	Sat Oct 27th - Salers sale - Roscrea
Simmental	Late August - Tullamore Court Hotel	Sat 3rd Nov - Premier Sale in Roscommon

BTAP Meetings.

- Tuesday 28th August
 - Teagasc Kildalton - Pat
 - Teagasc Longford - Niall
- Wednesday 29th August
 - Teagasc Dundalk - Stephen
 - Teagasc Ennis - Andrew
- Thursday 30th August
 - Teagasc Macroom - Chris

Roll-out plan – Others ideas being followed.

- Teagasc & ICBF Suckler cow conference.
- GENE IRLAND open day.
- Linking in with marts, e.g., sales catalogues and/or mart display screens.
- AHI roadshow (as part compulsory BVD program roll-out). Shared platform; BVD & new Euro-Stars.
- Others...



IRISH CATTLE BREEDING FEDERATION

Tully Central Progeny Test Center - update.



Stephen Conroy, ICBF
21st August 2012

Overview of commercial progeny

- ❖ 77 commercial bulls purchased
- ❖ Born: 1st Aug 11 to 30th Sept 11
- ❖ All from AI sires & MGS recorded
- ❖ 34 Different Sires Represented (16 GI Sires)
- ❖ 10 Breeds Represented
- ❖ 13 herd owners
 - 10 GI Herds
- ❖ First batch arrived on Monday 23rd July

Diet

- ❖ Standard commercial diet that includes roughage
 - Southern Milling
- ❖ Protein 14%
- ❖ Price €287 per tonne
- ❖ Soya oil
 - Increases fat score
 - Belgian blue bulls
- ❖ Energy diet
 - UFL: 0.955
 - UFV: 0.935



Health and parentage verification

❖ On - farm:

- All BVD tested
 - One PI identified
- All animals DNA tested
- T.B tested

❖ On arrival:

Vaccinations

- | | |
|-----------------|----------------------|
| ➤ Covexin 10: | Clostridial diseases |
| ➤ Rispoval 3: | PI3 and BVD virus |
| ➤ Rispoval IBR: | IBR virus |

Anthelmintic treatments

- | | |
|---------------------|---------------------------|
| ➤ Cydectin Pour On: | Round worms, Lice & Mange |
| ➤ Flukiver: | Liver Fluke |

Traits recorded

- ❖ 90-day testing period
- ❖ Traits recorded:
 - ✓ Average daily gain (kg/day)
 - Average weight at purchase: 434kg
 - Weighed weekly
 - ✓ Feed conversion efficiency (DMI/ADG)
 - ✓ Linear scores
 - ✓ Scanned muscle and fat depth (mm)
 - ✓ Scrotal circumference (cm)
 - ✓ Carcass grades and weight
 - ✓ Genomics – genotyped using 50k chip

Traits recorded cont'd

❖ Carcass and meat eating quality:

- Primal yields
- Ultimate PH of the carcass
- Colour of meat and fat on specific cuts
- Visual marbling of specific cuts of meat
- Tenderness of specific cuts of meat
- Two of three samples of the striploin are to be collected for sensory and tenderness analysis (Tully animals only).

❖ Health traits:

- Yet to be decided
- Meeting: 11th September

Tully working groups

❖ 3 groups

- Carcass and meat eating quality
- Feed intake and efficiency
- Health/disease

❖ Last meeting was on 28th June

- 2 meetings to date
 - Except for health group

❖ Minutes of the last meeting are being implemented

Where to next

❖ Potential dates

➤ Current bulls:

- Start test: 22nd August
- Finish test: 19th November
- Slaughtered: Late November/Early December

➤ Next intake (80 bulls):

- Target: Sept/Nov 2011born bulls
- Suggested dates:
 - » 30th Aug: Contact farmers with eligible animals
 - » 6th Sep: Start on-farm purchasing/inspections
 - » 1st Oct: Start adoption period at Tully

❖ Feedback welcome

Tully beef breeding event

- ❖ Saturday, 10th November 2012
 - Launch: 2nd October 2012

- ❖ Information includes:
 - New Terminal and Maternal indexes
 - HerdPlus
 - New GI bull breeder service
 - GI progeny test
 - Feed intake
 - Health and carcass traits
 - Breeding industry stands



IRISH CATTLE BREEDING FEDERATION

GENE IRELAND Maternal Beef breeding program. (Roll-out plan)

Roll - out plan

❖ Bull breeder herds

- Application form
 - All breeders
 - HerdPlus
 - September 2012
 - Explanatory material
 - Terms and conditions

❖ ICBF website

- Currently being updated

Roll-out plan cont'd

❖ Information available through:

❖ Various forms of media

- IFJ, Farming independent etc.

❖ Beef breeding events

- Tully event
- National ploughing championships
- Others?

❖ Herdbooks

- Website?
- Club meetings
- Sales catalogues

❖ Leaflets

- Breed society sales
- Direct to breeders
- Ploughing championships

GI technical working groups

❖ Working group for each breed

➤ 10-12 people

▪ Consisting of:

- Herdbook representatives
- Bull breeders
- Teagasc
- ICBF
- Commercial farmers
- AI companies

❖ Initial meetings

➤ End of September

❖ Feedback welcome