



IRISH CATTLE BREEDING FEDERATION

Outcross Bulls & BDGP



Overview

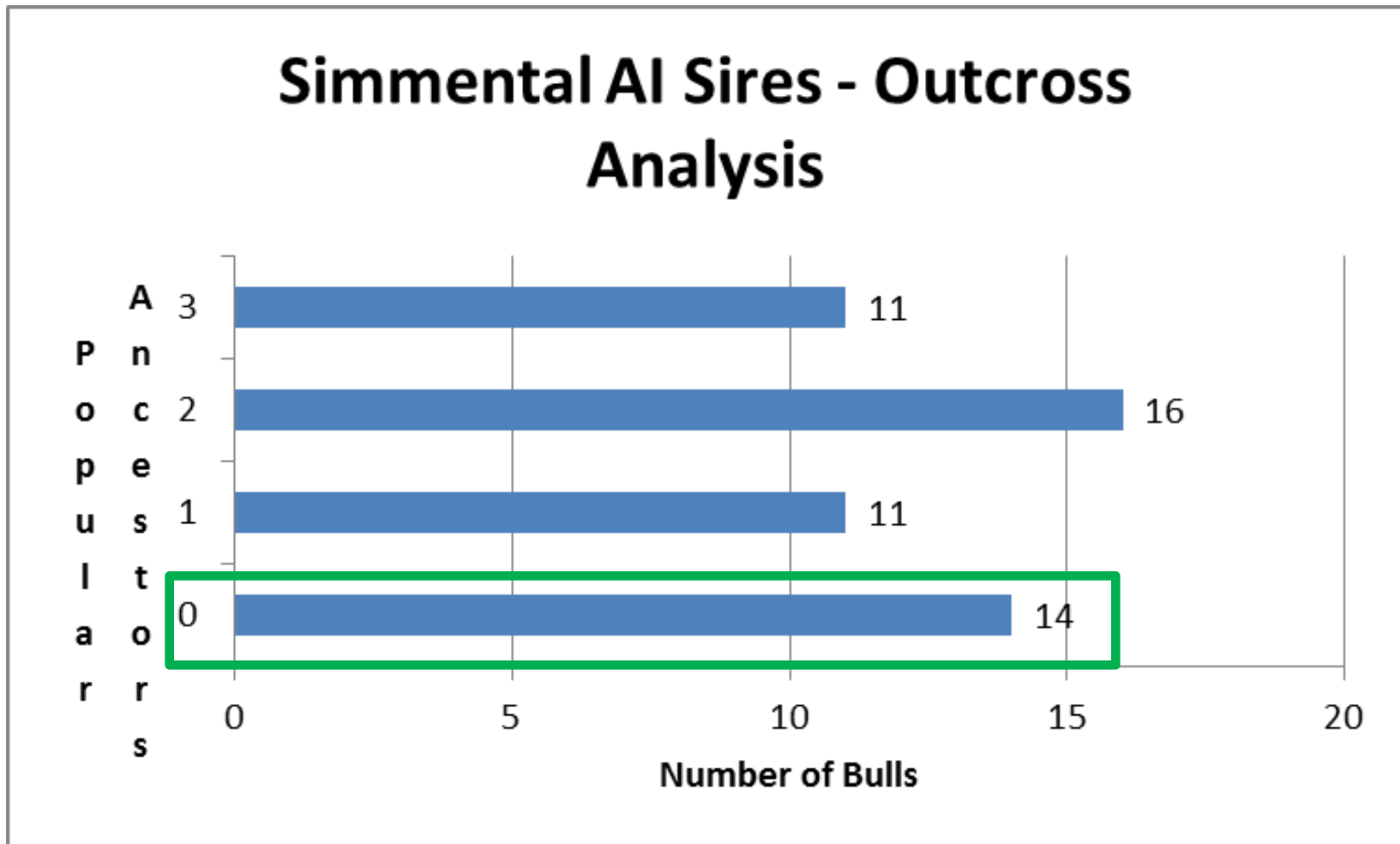
- **Q: What is an outcross bull?**
- **Ans: A bull with a bloodline that has never been used here before.**
- **My Technical Definition:**
 - The AI bull's Sire, Sire's Sire and Dam's sire do not have AI Codes and were not widely used by Pedigree Breeders in the last few years
 - They would also not be in the immediate backpedigrees (Sire. Grandsire line) of many breeding females today.

Case Study

- Simmental Breed
- 52 Sires recommended for use by their Pedigree Breeders
- How many have 0,1,2 or 3 popular Simmental AI Sires in their immediate backpedigree (Sire & both Grandsires)?
- What are the €uro-Stars of those outcross bulls?
- What are their chances of improving their €uro-Stars?

Proportion of Outcross Bulls

- 14 of the 52 have complete 'Outcross' pedigrees



€uro-Stars of Outcross Bulls

Simmental Outcross Bulls

Simmental Outcross Bulls											
Bull Details			Replacement				Terminal				
Code	Origin	Name	Index	Stars Within	Stars Across	Rel %	Index	Stars Within	Stars Across	Rel %	BGDP
BLA	IRL	BALLYBANE LAD	204	5	5	88	55	1	1.5	90	Y
S549	UK	OMORGA REGAN	140	3	3.5	59	97	5	2	67	Y
ISL	UK	ISLAVALE CRACKER 11	128	2.5	3.5	34	48	0.5	1	44	Y
S1515	UK	KEELDRUM CLIO 11 (P)	125	2	3	18	61	1.5	1.5	24	N
AHC	IRL	AUROCH DEUTER PP	121	2	3	11	72	3	2	12	N
S2003	UK	POPES BARCLAY 10 (PV)	118	2	3	9	63	2	1.5	10	N
RHC	IRL	CELTIC HUNTER	113	1.5	3	74	19	0.5	0.5	75	N
S1200	DNK	TISET DARWIN P	99	1	2.5	6	47	0.5	1	9	N
APZ	IRL	CURAHEEN APOSTLE ET	95	1	2.5	78	67	2	1.5	95	N
S2269	DNK	LOSNING IVER P	88	1	2	3	35	0.5	0.5	3	N
S2009	UK	WROXALL COCKER-LEEKY-SOUP 11PP	86	1	2	8	48	0.5	1	10	N
S2005	UK	BANWY WONDERBOY	86	1	2	22	54	1	1.5	23	N
S2004	UK	FALONDENE CINCINNATI 11	74	0.5	2	7	39	0.5	1	7	N
FZD	UK	DELFIUR DECIDER 12	57	0.5	1.5	13	39	0.5	1	18	N

- All are outcross bulls **but** with different usage potential

€uro-Stars of Outcross Bulls

- Reliability % of outcross bulls is generally always lower than their comrades with 'Popular' backpedigrees.
- Until 'Rel %' rises – the potential benefits of using the 'outcross' bull is unknown.
- 2 Factors affecting the €uro-Stars of an 'Outcross' bull:
 - Foreign data being included in his Irish figures
 - How his semen is priced, marketed & used here.
 - Is his semen available for use in commercial & pedigree herds?
 - Is his semen only available on a pre-order basis to pedigree breeders?

Regardless of BDGP scheme this is always an issue for such bulls.

€uro-Stars of Outcross Bulls

Simmental Outcross Bulls											
Bull Details			Replacement				Terminal				
Code	Origin	Name	Index	Stars Within	Stars Across	Rel %	Index	Stars Within	Stars Across	Rel %	BGDP
BLA	IRL	BALLYBANE LAD	204	5	5	88	55	1	1.5	90	Y
S549	UK	OMORGA REGAN	140	3	3.5	59	97	5	2	67	Y
ISL	UK	ISLAVALE CRACKER 11	128	2.5	3.5	34	48	0.5	1	44	Y
S1515	UK	KEELDRUM CLIO 11 (P)	125	2	3	18	61	1.5	1.5	24	N
AHC	IRL	AUROCH DEUTER PP	121	2	3	11	72	3	2	12	N
S2003	UK	POPES BARCLAY 10 (PV)	118	2	3	9	63	2	1.5	10	N
RHC	IRL	CELTIC HUNTER	113	1.5	3	74	19	0.5	0.5	75	N
S1200	DNK	TISET DARWIN P	99	1	2.5	6	47	0.5	1	9	N
APZ	IRL	CURAHEEN APOSTLE ET	95	1	2.5	78	67	2	1.5	95	N
S2269	DNK	LOSNING IVER P	88	1	2	3	35	0.5	0.5	3	N
S2009	UK	WROXALL COCKER-LEEKY-SOUP 11PP	86	1	2	8	48	0.5	1	10	N
S2005	UK	BANWY WONDERBOY	86	1	2	22	54	1	1.5	23	N
S2004	UK	FALONDENE CINCINNATI 11	74	0.5	2	7	39	0.5	1	7	N
FZD	UK	DELFR DECIDER 12	57	0.5	1.5	13	39	0.5	1	18	N

- Take 2 bulls to explain the 'usage potential' issue

€uro-Stars of Outcross Bulls

April
2013

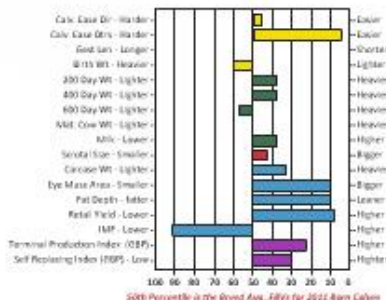
Islavale Cracker 11 ISL HB No: UK522759501584
Born: 03.04.11



Pedigree	
Sire: Glenturk Premier M061570	Sire: Minofua Keystone Dam: Minofua Hula [FR]
Dam: Islavale Rula P077827	Sire: Islavale Marvel Dam: Balmana Ladybird



UK BREEDPLAN FIGURES JANUARY 2013



- ♦ Superb new addition to Dovea Genetics Simmental Stud
- ♦ Cracker was purchased at the Stirling Bull sales in Oct. 2012 for £8,500 stg
- ♦ Cracker is a total outcross for Irish breeders
- ♦ From an excellent cow family

- Outcross Bull in Widespread AI
- Inclusion of foreign data in his €uro-Stars 
- €8/straw in Tech Service
- Widely available to Commercial farmers 

Total Calves	Ped Calves	Calving Surveys	Linear Scores	Weights	Carcass Recs
493	89	284	14	87	2

€uro-Stars of Outcross Bulls

April
2015

Star Rating (within Sim mental breed)	Economic Indexes	€uro value per progeny	Index reliability	Star Rating (across all beef breeds)
★★★★☆	Replacement Maternal Cow Traits Maternal Progeny Traits	€128 €67 €61	34% (Low) 21% 47%	★★★★☆
★☆☆☆☆	Terminal	€48	44% (Average)	★☆☆☆☆
☆☆☆☆☆	Dairy Beef	€	% (N/A)	☆☆☆☆☆

Star Rating (within Sim mental breed)	Key profit traits	Index value	Trait reliability	Star Rating (across all beef breeds)
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Expected progeny performance

	Calving difficulty (% 3 & 4) Breed ave: 5.48%, All breeds ave: 4.98%	7.70%	85% (V High)	
★★★★☆	Docility (1-5 scale) Breed ave: 0.05, All breeds ave: 0.00	0.01 scale	11% (V Low)	★★★★☆
★★★★☆	Carcass weight (kg) Breed ave: 22.98kg, All breeds ave: 22.98kg	22kg	36% (Low)	★★★★☆
★★★★☆	Carcass conformation (1-15 scale) Breed ave: 1.44, All breeds ave: 1.86	1.43 scale	22% (Low)	★★★★☆

85%

Expected daughter breeding performance

	Daughter calving difficulty (% 3 & 4) Breed ave: 6.15%, All breeds ave: 6.15%	6%	8% (V Low)	
★★★★☆	Daughter milk (kg) Breed ave: 7.98kg, All breeds ave: 0.31kg	11.37kg	21% (Low)	★★★★☆
★★★★☆	Daughter calving interval (days) Breed ave: 0.37 days, All breeds ave: -0.32 days	-0.37 days	22% (Low)	★★★★☆

- His AI Usage has put enough progeny on the ground to allow his €uro-Stars to find their correct level in time.

€uro-Stars of Outcross Bulls

TISET DARWIN P A.I. Code: **S1200**

Available from: ISCS 057 93 24577

**April
2014**



SIRE	TISET VAGN P	MARYWOOD POLLED WESTERN 91J		
		TISET PETRINE		
DAM	BUCKLANDS MOLLY	DUN LANCER		
		BUCKLANDS LAURA		
Within Breed	Economic Indexes	Euro Value	Index Reliability	Across Breed
★↓	Terminal	€41.60	2%	★
★↓	Replacement	€110.95	1%	★★★
Within Breed	Key Profit Traits	Index Value	Trait Reliability	Within Breed
★	Carcase Weight	13kg	4%	★↓
★↓	Carcase Conformation (1-15)	1.06	2%	★↓
	Calving difficulty (% 3 & 4)	4.6	2%	

- Outcross Bull not in Widespread AI

- Inclusion of foreign data in his €uro-Stars

- €30/straw pre-order

- Widely available to Commercial farmers

Total Calves	Ped Calves	Calving Surveys	Linear Scores	Weights	Carcass Recs
9	7	3	2	5	-

€uro-Stars of Outcross Bulls

April
2015

Star Rating (within Simmental breed)	Economic Indexes	€uro value per progeny	Index reliability	Star Rating (across all beef breeds)
★ ★ ★ ★ ★	Replacement Maternal Cow Traits Maternal Progeny Traits	€99 €28 €72	6% (V Low) 3% 10%	★ ★ ★ ★ ★
★ ★ ★ ★ ★	Terminal	€47	9% (V Low)	★ ★ ★ ★ ★
★ ★ ★ ★ ★	Dairy Beef	€	% (N/A)	★ ★ ★ ★ ★

Star Rating (within Simmental breed)	Key profit traits	Index value	Trait reliability	Star Rating (across all beef breeds)
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Expected progeny performance

	Calving difficulty (% 3 & 4) Breed ave: 5.48%, All breeds ave: 4.98%	5.60%	19% (V Low)	
★ ★ ★ ★ ★	Docility (1-5 scale) Breed ave: 0.05, All breeds ave: 0.00	0.02 scale	7% (V Low)	★ ★ ★ ★ ★
★ ★ ★ ★ ★	Carcass weight (kg) Breed ave: 22.98kg, All breeds ave: 22.98kg	15kg	7% (V Low)	★ ★ ★ ★ ★
★ ★ ★ ★ ★	Carcass conformation (1-15 scale) Breed ave: 1.44, All breeds ave: 1.86	1.2 scale	3% (Too Low)	★ ★ ★ ★ ★

19%

Expected daughter breeding performance

	Daughter calving difficulty (% 3 & 4) Breed ave: 6.15%, All breeds ave: 6.15%	6.7%	1% (Too Low)	
★ ★ ★ ★ ★	Daughter milk (kg) Breed ave: 7.98kg, All breeds ave: 0.31kg	8.04kg	0% (Too Low)	★ ★ ★ ★ ★
★ ★ ★ ★ ★	Daughter calving interval (days) Breed ave: 0.37 days, All breeds ave: -0.32 days	-0.95days	4% (Too Low)	★ ★ ★ ★ ★

- His AI Usage has not put enough progeny on the ground to allow his €uro-Stars to find their correct level in time.

€uro-Stars of Outcross Bulls

- Targeting Farmers to use semen is another approach.



AHC

250
straws
sent out



HHJ

290
straws
sent out



EMS

300
straws
sent out



LM2014

190
straws
sent out

- 8000 catalogues sent out. 100's of calls made

€uro-Stars of Outcross Bulls

- **Regardless of whether a bull is an outcross or not:**
- **Getting a large number of progeny born across a large number of herds is critical for an accurate picture of his evaluations.**
- **Some ‘Well Proven’ bulls from foreign breeding programs have been used here and disappointed when their progeny arrived.**
- **Other such Foreign bulls though have delivered on their foreign figures.**

€uro-Stars of Outcross Bulls

ULYSSE (ULE)

H.B. NO. 3683001518
BORN 05-01-83
BREED: Limousin

2002

Comments

- 123 FOR MILK
- 113 FOR DAUGHTERS EASE OF CALVING
- 119 FOR GROWTH
- 111 MUSCULAR
- 101 FERTILITY

Pedigree

Sire	Hortense	H.B. NO. 8772014394
She	Cesar	H.B. NO. 1925501008
Dam	Eilly	H.B. NO. 8720155445
Dam	Neuelle	H.B. NO. 3772001855
She	Jupiter	H.B. NO. 3674801836
Dam	Imes	H.B. NO. 3673003266

**MATERNAL
TESTED
FRANCE**



ULE Daughter

- ULE – Maternally proven bull from French Program

€uro-Stars of Outcross Bulls

2015

Star Rating (within Limousin breed)	Economic Indexes	€uro value per progeny	Index reliability	Star Rating (across all beef breeds)
★ ★ ★ ★ ★	Replacement Maternal Cow Traits Maternal Progeny Traits	€108 €-97 €205	97% (V High) 97% 97%	★ ★ ★ ★ ★
★ ★ ★ ★ ★	Terminal	€121	96% (V High)	★ ★ ★ ★ ★
★ ★ ★ ★ ★	Dairy Beef	€	% (N/A)	★ ★ ★ ★ ★

Star Rating (within Limousin breed)	Key profit traits	Index value	Trait reliability	Star Rating (across all beef breeds)
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Expected progeny performance

	Calving difficulty (% 3 & 4) Breed ave: 4.95%, All breeds ave: 4.98%	3.70%	99% (V High)	
★ ★ ★ ★ ★	Docility (1-5 scale) Breed ave: -0.06, All breeds ave: 0.00	-0.09 scale	98% (V High)	★ ★ ★ ★ ★
★ ★ ★ ★ ★	Carcass weight (kg) Breed ave: 23.82kg, All breeds ave: 22.98kg	14kg	99% (V High)	★ ★ ★ ★ ★
★ ★ ★ ★ ★	Carcass conformation (1-15 scale) Breed ave: 2.14, All breeds ave: 1.85	2.09 scale	99% (V High)	★ ★ ★ ★ ★

Expected daughter breeding performance

	Daughter calving difficulty (% 3 & 4) Breed ave: 5.45%, All breeds ave: 6.15%	5.6%	98% (V High)	
★ ★ ★ ★ ★	Daughter milk (kg) Breed ave: -0.84kg, All breeds ave: 0.31kg	2.09kg	99% (V High)	★ ★ ★ ★ ★
★ ★ ★ ★ ★	Daughter calving interval (days) Breed ave: 1.09 days, All breeds ave: -0.32 days	5.73days	95% (V High)	★ ★ ★ ★ ★

- Delivered on milk but not fertility

€uro-Stars of Outcross Bulls

2008

Sang D'Or

HB No. 5101574340 Born 24.04.2001

SGO

Charolais



- Total outcross for pedigree breeders
- Indurain's successor
- Outstanding conformation, muscularity and locomotion (1500kg mature weight)
- Over 100 progeny inspected before purchase
- All immediate Dams and Grand Dam's scored RR4S

Pedigree

Sire: Ordeo	8998108843	Sire: James Cook
		Dam: Jordanie
Dam: Legion	5194426993	Sire: Baron
		Dam: Histoire

- **SGO – Imported from pedigree breeder in France**

€uro-Stars of Outcross Bulls

2015

Star Rating (within Charolais breed)	Economic Indexes	€uro value per progeny	Index reliability	Star Rating (across all beef breeds)
★ ★ ★ ★ ★	Replacement Maternal Cow Traits Maternal Progeny Traits	€-225 €-289 €64	84% (V High) 78% 88%	★ ★ ★ ★ ★
★ ★ ★ ★ ★	Terminal	€77	88% (V High)	★ ★ ★ ★ ★
★ ★ ★ ★ ★	Dairy Beef	€	% (N/A)	★ ★ ★ ★ ★

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: 7.55%, All breeds ave: 4.98%	18.70%	95% (V High)	
★ ★ ★ ★ ★	Docility (1-5 scale) Breed ave: 0.04, All breeds ave: 0.00	-0.01 scale	94% (V High)	★ ★ ★ ★ ★
★ ★ ★ ★ ★	Carcass weight (kg) Breed ave: 32.88kg, All breeds ave: 22.98kg	38kg	97% (V High)	★ ★ ★ ★ ★
★ ★ ★ ★ ★	Carcass conformation (1-15 scale) Breed ave: 1.94, All breeds ave: 1.86	2.22 scale	96% (V High)	★ ★ ★ ★ ★
Expected daughter breeding performance				
	Daughter calving difficulty (% 3 & 4) Breed ave: 5.85%, All breeds ave: 6.15%	6.8%	65% (High)	
★ ★ ★ ★ ★	Daughter milk (kg) Breed ave: -6.51kg, All breeds ave: 0.31kg	-11.42kg	79% (High)	★ ★ ★ ★ ★
★ ★ ★ ★ ★	Daughter calving interval (days) Breed ave: 0.47 days, All breeds ave: -0.32 days	4.9days	77% (High)	★ ★ ★ ★ ★

- Delivered on carcass but not on calving or maternal

€uro-Stars of Outcross Bulls

2013


OZEUS OZS
NEBF
National European
Breeding Federation

DOB: 10/10/1998 HERD BOOK NO.: LIMFRAM001519127770


DEANT
IDOLE
DIRECTRICE

ULEI
JENNY
HIRONDELLE

- The perfect maternal sire, producing great females without compromising on beefing ability.
- Daughters are perfect brood cows; fertile, easy keeping, correct and docile. They are good mothers, have plenty of milk, good calving ability, good udder structure and rear heavy calves.
- Great satisfaction with the quality of commercial calves



CALVING EASE
EASY
AVERAGE
MATURE
COWS ONLY



MILKING

Star Rating (overall)	Key profit traits	Index value	Trait reliability	Star Rating (overall beef breed)	Star Rating (overall)	Economic Index	Throughput (€1000)	Index reliability	Star Rating (overall beef breed)
EXPECTED PROGENY PERFORMANCE									
★★★★	Oblique depth (1-5 scale)	6.7%	90% (over 100)	★★★★	★★★★★	Maternal	€144	80% (112)	★★★★★
★★★★	Daily (1-5 scale)	-0.03	90% (over 100)	★★★	★★★★	Terminal	€94	82% (112)	★★★★
★★	Grass weight (kg)	20kg	85% (over 100)	★★★		EXPECTED DAUGHTER BREEDING PERFORMANCE			
★	Grass conversion (1-15 scale)	1.61	82% (over 100)	★★★	★★★★★	Daughter calving difficulty (% 5 & 6)	4%	20% (over 100)	
★★	Woolly weight (kg)	22kg	90% (over 100)	★★	★★★★★	Daughter milk (kg)	8.21kg	68% (over 100)	★★★★★
★★	GF Daily (kg)	114c/kg	94% (over 100)	★★	★★★★★	Daughter calving interval (days)	-0.03 days	31% (over 100)	★★★

• OZS – Proven Maternal bull from France

€uro-Stars of Outcross Bulls

2015

Star Rating (within Limousin breed)	Economic Indexes	€uro value per progeny	Index reliability	Star Rating (across all beef breeds)
★★★★★	Replacement Maternal Cow Traits Maternal Progeny Traits	€196 €5 €191	85% (V High) 75% 95%	★★★★★
★★★☆☆	Terminal	€121	95% (V High)	★★★★☆
☆☆☆☆☆	Dairy Beef	€	% (N/A)	☆☆☆☆☆

Star Rating (within Limousin breed)	Key profit traits	Index value	Trait reliability	Star Rating (across all beef breeds)
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Expected progeny performance

	Calving difficulty (% 3 & 4) Breed ave: 4.95%, All breeds ave: 4.98%	6.10%	99% (V High)	
★★★★☆	Docility (1-5 scale) Breed ave: -0.06, All breeds ave: 0.00	-0.03 scale	98% (V High)	★★★☆☆
★★★★☆	Carcass weight (kg) Breed ave: 23.82kg, All breeds ave: 22.98kg	26kg	99% (V High)	★★★★☆
★★★★☆	Carcass conformation (1-15 scale) Breed ave: 2.14, All breeds ave: 1.86	2.19 scale	99% (V High)	★★★★☆

Expected daughter breeding performance

	Daughter calving difficulty (% 3 & 4) Breed ave: 5.45%, All breeds ave: 6.15%	4.7%	65% (High)	
★★★★☆	Daughter milk (kg) Breed ave: -0.84kg, All breeds ave: 0.31kg	2.85kg	80% (V High)	★★★★☆
★★★★☆	Daughter calving interval (days) Breed ave: 1.09 days, All breeds ave: -0.32 days	.2days	80% (V High)	★★★★☆

- Delivering on maternal promise.

€uro-Stars of Outcross Bulls

2006



SIRE: IMPAIR — G SIRE: BLASON
G DAM: OFFICINE
DAM: MARY — G SIRE: HOMERE
G DAM: JACINTHE



% Rank	Star Rating (within breed)	Index and Traits	Euro-Value	Data Reliability	Star Rating (across breed)	% Rank
87%	★★★★★	Suckler Beef Value (SBV)	€123	60%	★★★★★	91%
51%	★★★	Weanling Export	€75	65%	★★★★★	83%
39%	★★	Beef Carcass	€113	61%	★★★★	78%
85%	★★★★★	Daughter Fertility	€14	2%	★★★	53%
85%	★★★★★	Daughter Milk	€-51	44%	★★	28%
Other Key Traits						
99%	★★★★★	Calving Difficulty (% 3 or 4)	4.23%	85%	★★★★	69%
99%	★★★★★	Gestation Length (Days)	1.01 Day(s)	70%	★★★★	76%
93%	★★★★★	Docility (1-5 score)	0.15	68%	★★★★★	94%

BLUP JAN '10	MUS	SKE	FUN	DOC
	109	113	98	0.15
RELIABILITY	76%	76%	31%	68%

- Easy calving (top 1%) and short gestation (top 1%), suitable for maiden heifers
- Proven in France for both beef capacity and maternal traits (ivmat 122)
- Exceptional maternal traits, high milk (French index 113) and excellent calving ability (French index 120)

• PNY – Proven Maternal bull from France

€uro-Stars of Outcross Bulls

2015

Star Rating (within Charolais breed)	Economic Indexes	€uro value per progeny	Index reliability	Star Rating (across all beef breeds)
★★★★★	Replacement Maternal Cow Traits Maternal Progeny Traits	€194 €-53 €247	80% (V High) 72% 87%	★★★★★
★★★★★	Terminal	€149	86% (V High)	★★★★★
☆☆☆☆☆	Dairy Beef	€	% (N/A)	☆☆☆☆☆

Star Rating (within Charolais breed)	Key profit traits	Index value	Trait reliability	Star Rating (across all beef breeds)
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Expected progeny performance

	Calving difficulty (% 3 & 4) Breed ave: 7.55%, All breeds ave: 4.98%	 3.50%	93% (V High)	
★★★★★☆☆	Docility (1-5 scale) Breed ave: 0.04, All breeds ave: 0.00	0.11 scale	89% (V High)	★★★★★☆☆
★★★★★☆☆	Carcass weight (kg) Breed ave: 32.88kg, All breeds ave: 22.98kg	37kg	95% (V High)	★★★★★☆☆
★☆☆☆☆	Carcass conformation (1-15 scale) Breed ave: 1.94, All breeds ave: 1.86	1.83 scale	95% (V High)	★★★☆☆☆☆

Expected daughter breeding performance

	Daughter calving difficulty (% 3 & 4) Breed ave: 5.85%, All breeds ave: 6.15%	4%	54% (Average)	
★★★★★☆☆	Daughter milk (kg) Breed ave: -6.51kg, All breeds ave: 0.31kg	.53kg	82% (V High)	★★★★☆☆☆☆
★★★★★☆☆	Daughter calving interval (days) Breed ave: 0.47 days, All breeds ave: -0.32 days	-.94days	68% (High)	★★★★☆☆☆☆

- Delivering on maternal traits.

Conclusion

- Factors affecting the establishment & movement of a Bull's Euro-Stars:

1. Inclusion of a Bull's foreign data

- Availability of the data & Suitability of that data for inclusion
- i.e. is the bull in a breeding program in the foreign country.

2. Semen Usage Prospects of the bull:

- Availability of his semen
 - Is he in an AI Technician network service or pre-order?
 - Is he in a structured program where farmers are being called?
- Price of his semen
 - Is he @ €10/straw for commercial usage?
 - Is there a royalty fee on top of the straw price?

Thank You