

### Beef Breeding

9th February 2012

Stephen Conroy, Ross Evans and Pat Donnellan ICBF



### Agenda

- Suckler Beef Value
  - Using the Index
    - Bull Search
    - Reliability %
    - Index Validation
- G€N€ Ireland
- Herdplus

#### HerdPlus Profit through Science

### Beef Production in Ireland

#### **Key Statistics**

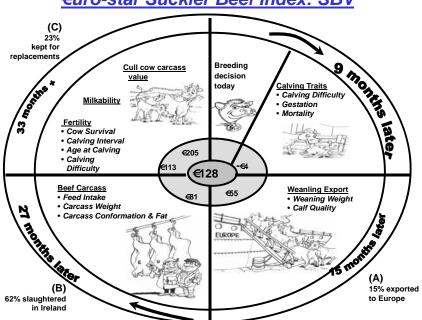
- •2.2 million cows
- 1.0 million beef cows
- 17 cows / herd
- 6 major beef breeds
- •350k Dairy cows also bred to beef sires
- Heavily export focused.



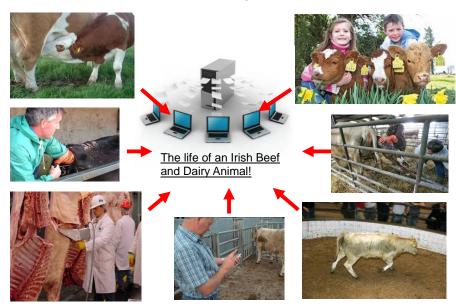
### **The Suckler Beef Value Index**

- Increasing profits from a Suckler Herd through Breeding Decisions
  - Bull used has a big impact on farm profits
  - Crucial to have cattle with genetics that suit a farmers system

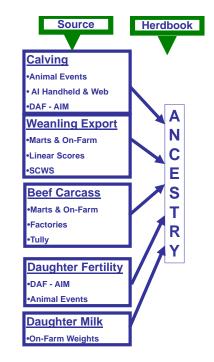
### **€uro-star Suckler Beef Index: SBV**



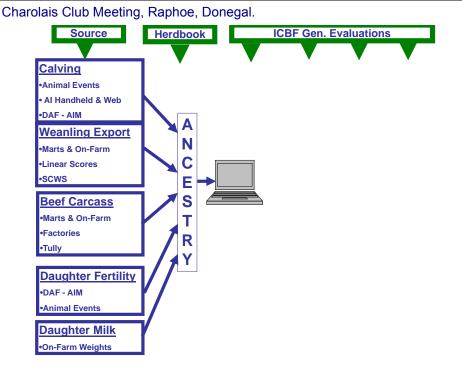
### ICBF Breeding; Database





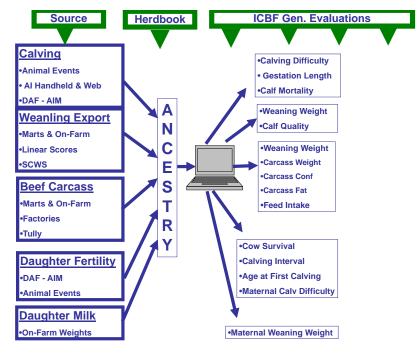


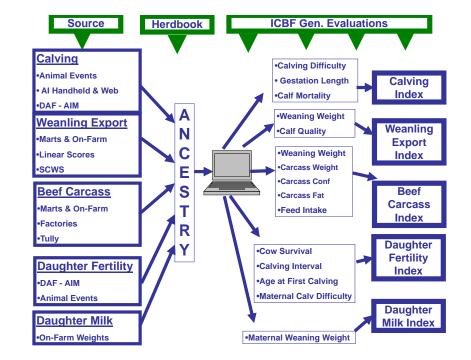
Stephen Conroy et al, ICBF. Page 2 of 20.



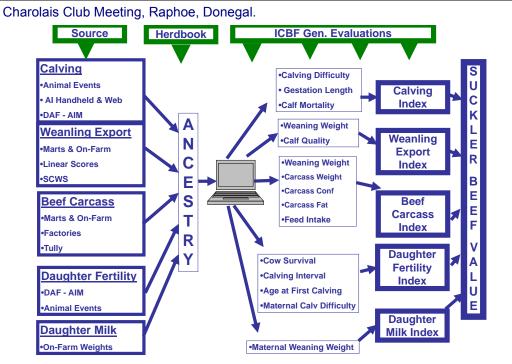
### **Genetic Evaluation**

- Corrects data for:
- Age
- Sex
- Management groups (Herd Year Season)
- Breed Effects
- Heterosis/Recombination
- Data Variation
- Data Errors (Insemination v Registration)
- Performed 3 times per annum (December, April, August)





Page 4 of 20.



# What is the ICBF 'Bull Search?

### www.icbf.com

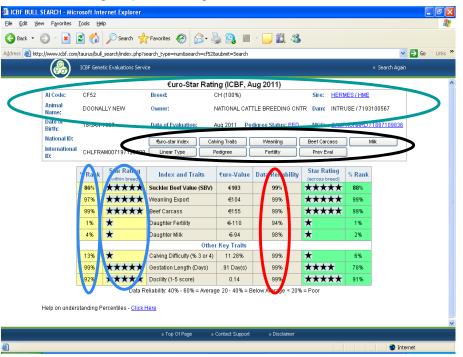


### **ICBF Bull Search**



NAME OF THE PARTY OF THE PARTY

#### Charolais Club Meeting, Raphoe, Donegal.



### Why does a Bull's €uro-Star figures change?

### Why does a Bull's figures change

### Every Bull's figures updated 3 times per year:

- April, August, December

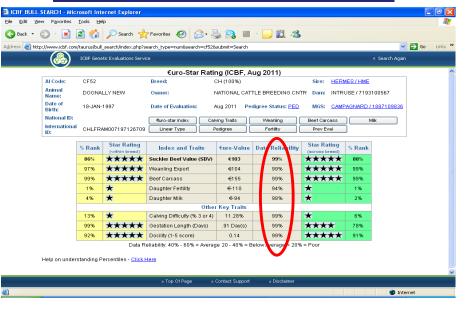
### A Bull's €uro-Star Figure may change due to:

- •New Data records on:
  - The Bull himself & his herdmates, e.g. Liveweight or linear scoring.
  - His **progeny** in your herd or on progeny sold to other herds.
  - Any known relatives of your Bull (that you might not know about) e.g.
     Full brother's progeny or his Sire's progeny in another herd etc.

# What does 'Reliability %' mean?

Stephen Conroy et al, ICBF. Page 5 of 20.

### What does Reliability % mean?



### What does Reliability % mean?

It is an indication of the level of confidence that can be placed in the figures.

The more progeny and herds that a Bull has, the higher his reliability % will be as we are increasingly confident about how he is breeding.

		Reliability % Guide
	Range	Description
0-20%	Low	Very Low - €uro-Stars mostly based on Ancestry data.
20-50%	Low - Medium	€uro-Stars are Increasingly useful. Bull's own performance
20-30 /6	LOW - Mediain	affecting figures.
50-95%	Medium - High	€uro-Stars increasingly based on progeny records.
>95%	High	€uro-Stars completely based on progeny records. Little change
>95%	підп	seen in Bull's evaluation figures.

# Reliability in action

### Examples at various stages of progeny testing

APZ Apostle CBQ

Q CF85

Cambridge

Balthazar

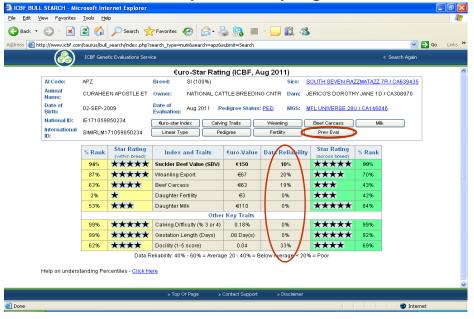




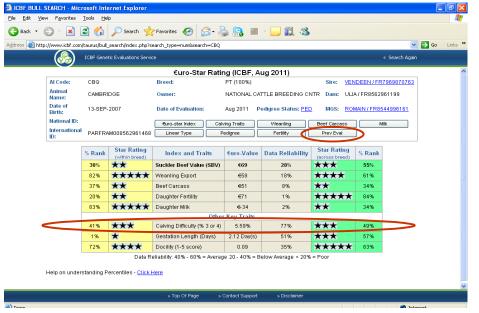


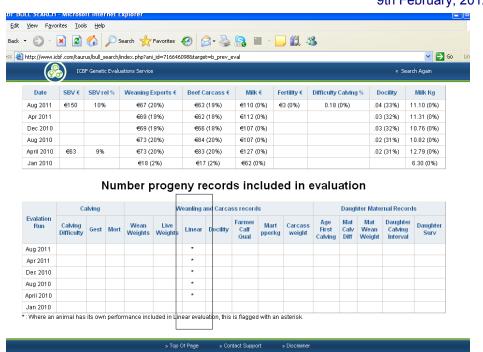
Stephen Conroy et al, ICBF. Page 6 of 20.

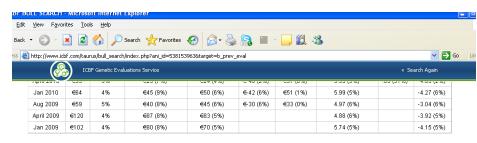
#### APZ - Curaheen Apostle New pedigree Low Reliability



### CBQ: partially proven







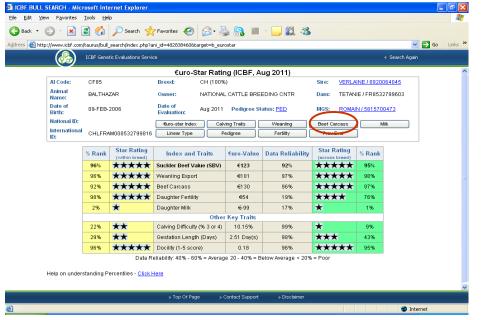
#### Number progeny records included in evaluation

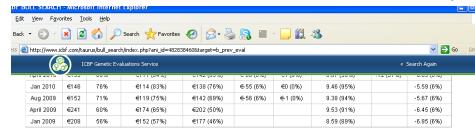
	Ca	ilving			W	eanling a	and Carca	ss record	s		Daughter Maternal Records							
Evalation Run	Calving Directly	Soot.	Mort	Wean Weights	Live Weights	Linear	Docility	Farmer Calf Qual	Mart pperkg	Carcass weight	Age First Calving	Mat Calv Diff	Mat Wean Weight	Daughter Calving Interval	Daughter Surv			
Aug 2011	59	12	58	1	0	0	1	1	1	0	0	0	0	0	0			
Apr 2011	13	6	13	1	0	0	1	1	1	0	0	0	0	0	0			
Dec 2010	5	1	3	0	1				0	0	0	0	0	0	0			
Aug 2010	1	0	1	0 /					0	0	0	0	0	0	0			
April 2010																		
Jan 2010																		
Aug 2009																		
April 2009																		
Jan 2009																		

#### CF85 – Balthazar: Index change & progeny?



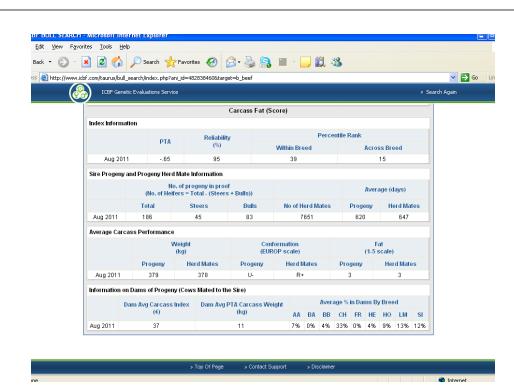
### CF85 - Balthazar High Reliability-Terminal





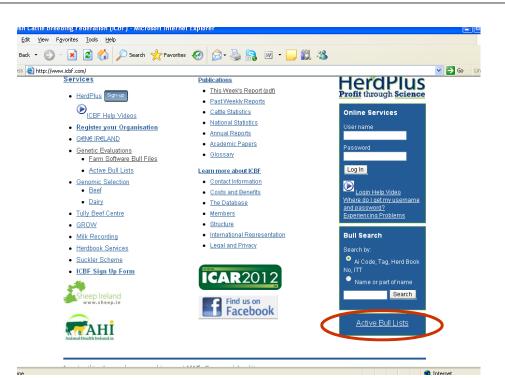
#### Number progeny records included in evaluation

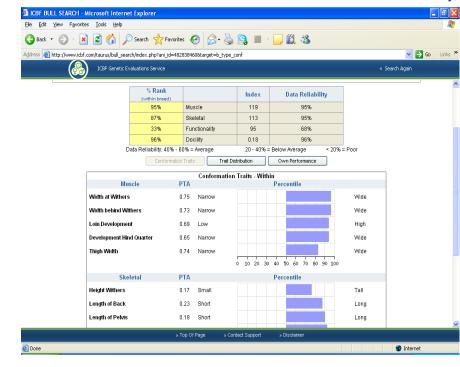
	C	alving			W	eanling a	and Carca	ss record	s			Daugh	nter Mate	rnal Record	s
Evalation Run	Calving Difficulty	Gest	Mort	Wean Weights	Live Weights	Linear	Docility	Farmer Calf Qual	Mart pperkg	Carcass weight	Age First Calving	Mat Calv Diff	Mat Wean Weight	Daughter Calving Interval	Daughte Surv
Aug 2011	2698	563	2589	450	211	175	393	401	187	186	18	15	6	1	3
Apr 2011	1657	350	1579	316	92	156	358	379	125	129	9	7	3	0	3
Dec 2010	1170	223	1122	178	46	129	262	236	47	95	5	7	2	0	0
Aug 2010	961	190	919	92	24	103	206	125	7	63	3	5	0	0	0
April 2010	483	133	452	84	18	97	163	127	7	26	0	0	0	0	0
Jan 2010	402	124	372	81					7	7	0	0	0	0	0
Aug 2009	332	114	314	50					1	4	0	0	0	0	0
April 2009	209	82	198	30					2	0	0	0	0	0	0
Jan 2009	156	46	146	20					1	0	0	0	0	0	0

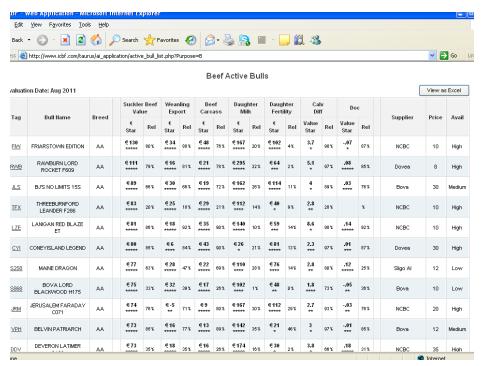


### CF85 - Balthazar Linear type









### Sales catalogues

		€ uro-Star Indexe	S		
% Rank	Star Rating (within breed)	Indexes & Traits	€uro-Value	Data Reliability	Relative Data Reliability Comment
97%	****	Suckler Beef Value (SBV)	€98	34%	High
9%	*	Weanling Export	€40	41%	High
95%	****	Beef Carcass	€129	44%	High
72%	****	Daughter Fertility	€-25	2%	Medium
61%	****	Daughter Milk	€-95	9%	Medium
		Other Key Traits			
48%	***	Calving Difficulty	5.7%	41%	High
85%	****	Gestation Length		15%	Medium
86%	****	Docility		43%	High
Width at with	in Narow	e Evaluation (Within-Breed Percar scores and weaning weights in eval		(With	Composites nin Breed)  Data Rani Reliability %
Width at with Width behind Lete Develope Dev bind quar	on Narrow without Narrow seed Thin		uations	(With	Data Rank Reliability %
Width at with Width behind Letn Develops Dev hind quar Thigh width Height at with Laugth of buil Laugth of pub- Width at hips Lacentration	with Name within Name with Name Lee Name Name with Name with Name with Short Name Poor	ar scores and weaning weights in eval	Wide Wide Wide Wide Thick Migh Wide Tail Long Long Wide Good	(With F Muscle 128 Sheletal 124 Function 88	nin Breed)  Data Rank Reliability %  64% 86% 62% 86% 20% 16% (gain (spren) 22 (yoronag 43 take 9.4 depthyren) 89 h hren 89
Width at with Width behind Lein Develope	with Name within Name with Name Lee Name and American Small is dhort Name Poor	ar scores and weaning weights in eval	Wide Wide Wide Wide Thick Migh Wide Tail Long Long Wide Good	Musche 128 Sheletal 124 Function 88  Tully Pe Average dally Feed efficence Ony matter int boan musche boan fat depth End weight of Con	nin Breed)  Data Rank Reliability %  64% 86% 62% 86% 20% 16% (gain (spren) 22 (yoronag 43 take 9.4 depthyren) 89 h hren 89

- Extra reliability comment
- Info on whether animal was scored
- Linear trait prediction

### €uro-Star SBV indexes - Validation

- Aims to be an objective assessment of genetic merit of animals after removing the effects of different management environments
- **BUT**... Differences in indexes between animals must be reflected on farm otherwise no value to using them
- Validation is important

### Validation: Calving performance Al sires with > 50 progeny recorded

Calving diffic	ulty		
Across breed Star Rating	*	****	
Number of Al bulls	221	132	5% less serious
Average no. of progeny	861	888	calving difficulty
Calving difficulty reliability	92	91	out on farm
Calving difficulty index (%)	12	2	
Actual calving difficulty %	9	4	
Actual herdmate difficulty %	6	5	
Gestation	1		1 week less
Across breed Star Rating	*	****	gestation
Number of Al bulls	60	112	
Average no. of progeny	355	89	
Gestation reliability %	93	93	
Gestation index (days)	5	0	
Actual gestation (days)	291	284	

### **Validation: Weanling performance**

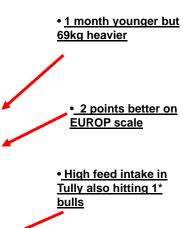
Al sires with > 10 progeny through marts

Across breed Star Rating	*	****	
Number of Al bulls	34	81	
Average no. of progeny	63	259	• 50 kg heavier at sale time
Weanling Export Index	-€15	€90	
Weanling reliability %	89	92	• 5kg heavier than herdmates
Average age at sale	227	228	norumates .
Average weaning weight	269	319	
Average herdmate weight	280	314	• Extra
Average price per kg	€1.58	€1.89	<u>31cents/kg</u>
Average herdmate pperkg	175	185	

### **Validation: Carcass performance**

Al sires with > 10 progeny slaughtered

Across breed Star Rating	*	*****	l
Number of Al bulls	25	91	
Average no. of progeny	52	309	
Beef Carcass Index	-€23	€139	l
Carcass reliability %	80	91	l
Average age at slaughter	724	693	1
Average carcass weight	322	391	ľ
Average herdmate weight	339	372	
Average conformation	R-	R+	•
Average herdmate conf	R-	R+	l
Average fat	3+	3	
No. of bulls with Tully sons	5	47	
No of sons	18	332	
pd feed intake	0.18	0.04	



## Validation: Daughter Milk Al sires with > 20 daughters with progeny weaning weights

Across breed Star Rating	*	****	
No. of Al Bulls	53	52	
Daughter Milk Index	-€96	€131	8kg heavier than 1* sires
Daughter Milk Reliability	70	67	, 5,105
Average no. of progeny mat wwt	104	68	
Average no. of herdmates mat wwt	743	343	8kg heavier than their herdmates
Av weight of grandprogeny (kgs)	317	325	their recumates
AV. herdmate weaning weight (kgs)	320	317	

Level of quality weaning weights recorded very low!!

### **Validation: Fertility performance**Al sires with > 10 daughters

Across breed Star Rating	*	****	<ul> <li>lower age 1<sup>st</sup> calving</li> </ul>
No. of Al Bulls	134	152	lower calving
Fertility Index	-€65	€89	problems
Average no. of progeny	176	103	• shorter calvino
age 1st Calving (days)	948	907 🛹	interval
Maternal calving diff (%)	7	4 👉	Better survival
herdmate maternal cdiff (%)	6	4	
Calving Interval (days)	408	389	
herdmate calving interval	400	393	
Survival (%)	81	87	
herdmate survival (%)	82	83	

### G€N€ Ireland

- National Progeny Test Program.
- Program through which Bulls are selected & progeny tested.
- Farmers sign up to be a G€N€ Ireland Herd.
- · Receive straws from top young Beef Bulls.
- Weight Record & Linear score progeny.
- · Calve daughters of the Testbulls.

### G€N€ Ireland Example

- · Irish Charolais Bull born 25/09/00 'Prime Roberto'
- · Excellent Breeding, Conformation & Breeding Values



Sire : **Indurain**Elite French AI Sire
Deep French Pedigree



S

Dam : Prime Noelle

Show Winning Cow
Elite Bloodline

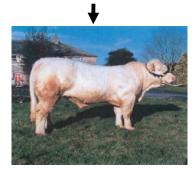
- · ICBF identifies 'Prime Roberto' on database
  - · Using Herdbook Ancestry data & ICBF Performance data
- Breeder invited to enter him for Performance Testing

Roberto performs excellently on Performance Test

400 day Weight: <u>748Kgs</u>

Avg Daily Gain: <u>1.83 Kg/day</u>

Feed Conversion Ration: 5.3



Roberto is then purchased by Dovea Al Station

### **ICBF** Database Results for 'Roberto'

- Farmers record Calving Survey data 3145 calves
- Linear Scorers record trait data 257 weanlings
- Marts record Weight & Price data
   374 weanlings
- DAF records CMMS Survival of daughters
   204 daughters
- Factories record Slaughter data 1057 carcasses

### **€uro-Stars for 'Roberto'**

	€uro-Star	Rating (ICBF,Aug 2	2011)	
% Rank	Star Rating (Within Breed)	Index and Traits	€uro- Value	Data Reliability
83%	****	Suckler Beef Value (SBV)	€100	97%
85%	****	Weanling Export	€91	99%
98%	****	Beef Carcass	€144	98%
8%	*	Daughter Fertility	-€58	72%
8%	*	Daughter Milk	-€90	76%
		Other Key Traits		
14%	*	Calving Difficulty (% 3 or 4)	11.12%	99%
17%	*	Gestation Length (Days)	2.72 Days	97%
79%	***	Docility (1-5 score)	0.09	98%
	Source:	www.icbf.com - Bull Search		

Charolais Club Meeting, Raphoe, Donegal.



 $\label{eq:prime Roberto} Prime Roberto$   $25^{th}$  Sep  $2000-12^{th}$  Apr 2005

#### HerdPlus Profit through Science

												Bull 1	Tracker	Repo	rt								
						Anima	l Details						Ance	stry Det	ails					€uro-Star Ind	ex (20/7	/11)	
Jumbo:		Т		523								ire's Sire:	TTU					Within Bro	ed		Index	Rel%	Across
Official II	<b>D</b> :			IE1512	14514	1523	Park Ted	dy			3	ire s sire:	Totum					***		Suckler Beef Value	€93	38%	****
Date of E	Birth:	:		02-Apr	06						e:	re's Dam:	IE151521520	321						Beef V	alue		
Breed:				LM (10	396)						31		Bighill Mary	ET				**		Weanling Export	-€8	3%	****
lerdboo	k:			Pedigr	e Re	gistered					IE123654	1785475						****	t	Beef Carcass	€57	10%	***
iold:				Kilken	y Ma	rt: 21-Ma	ay-07				Bighill To	nka								Replaceme	nt Value		
rogeny				168 (70	6 Con	nmercial,	30% Purel	ored)												Kepiaceille	iit value		
urrent 9	Statu	ıs:		Dead -	13-05	5-2011					IE151214	1524587						****	k	Daughter Fertility	-€11	6%	****
				0	vn F	erforr	mance [	Details			Park Sallie							****	k	Daughter Milk	€64	5%	****
Calvin	g Diff	icul	lty	Calf Qu	ality	Docility		Growth		Carcass		am's Sire:	SAU							Other Ke	Traits		
	Day 1			6 Mon		Months	6 Months	10 Months	16 Months	48 Months	D.	iiii s siie.	Saturn					****		Calving Diff %	5.63%	49%	***
Norm				Excell	nt	Quiet	300 Kgs	500 Kgs	600 Kgs	440 Kgs	Da	m's Dam:	IE151521520	321				****	k	Gestation Length	7.28 Dayls	4%	***
Birth \	Nt: 4	5Kg	s*	<u> </u>			1.3 Kgs/Day	1.2 Kgs/Day	1.1 Kgs/Day	U1			Park Julie					***		Docility	0.10	25%	***
							Summar	y of All P	rogeny Re	cords in the	e ICBF Da	tabase (	20/07/11)							geny Records			
	Р	rog	eny				Calving		Wei	ghing		Carcass			Dau	ghters				of at least 5 other an		a two mont	h period.
								Difficult	Progeny / A	vg. Daily Gain	Progeny				Avg. Age	Ave.	Avg. Daily	3. Show var	ation acros	ogical limits for age is data recorded for ally e.g. Mart Weight	hat trait in	the herd.	
Year of Birth		alvi		Hero		Calving Surveys	Dead at Birth	Calving or Vet Assisted	6 - 12 Mths	12 - 24 Mths	(B=Bulls, S=Steers, F=Females)	Age at Slaughter (Months)	Avg. Carcass Weight, Conf & Fat	Nbr of Daughters Calved	of First	Calving Interval (Days)	Gain of Daughters Progeny	Evaluation Run	Calving Difficulty	Weaning Weights	Carcass Weight	Maternal Calving Difficulty	Maternal Weaning Weight
	Tota		VI F		_																	<u> </u>	
2011	42		0 2		4	42	3	1	15/1.1 xg/Day			<u> </u>			-			Aug 2011	160	18	20	5	4
	43	2			+	43	3	0	10/1.2 xg/Day	22/1.0 x <sub>B</sub> /Day	20.55.25		4000	40	20	400 D	45/4.4	Apr 2011	135	12	7	3	3
2009	43		2 2		+	43	1	0	12/1 2	13/1.1 Ke/Day	2B,5S, 2F 5B.5F	24	463Kgs/U1 470Kgs/R	10	28 27	400 Days	15/1.1 xg/bay 10/1.2 xg/bay	Dec 2010 Aug 2010	90	10	,	-2	2
Total	168		3 8		-	168	7	1	38/1.1 Ke/Day		78.5S.7F	23	4/UKgs/ R 466 Kgs/R	23	27		25/1.1 xg/Day	April 2010	46	10		$\vdash$	
TOLAI	100	10	33   0	3 2	_		ments		Joy 1.1 rg/ out	JOJ I.L NJ DAY	70,33,7F		Average Bree				LJ/ LL T NE/ USI		-				
omment	s Pa	ark '	Tedo	lv has ør	nd ter			out of a ve	rv milky dam	1	AA	RΔ	BB	CH	FR	SI	Other			ro-Star Values are			
				, gc			erre willed to				. 0		50							ds from relatives o			hie furn-Stare

- Bull Tracker Report
- Will allow a Pedigree Breeders track how their bulls have done.

				Bui	l Track				^										
					Curre	nt Stoc	kbull	S											
	Bulls v	vhich are cu	ırrently in	your her	d and wh	ich have	e been	regis	tered	as th	e sire	of at	least	1 cal	lf				
	Bu	II Details				Total	Total				Nu	mber	of Cal	ves B	orn				Page
Tag	Name	DOB	Breed	Sire	Dam	Calves	Herds	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001	Page
E123758493847	Coragh Neptune	02-May-06	100% LM	MUC	654	114	1	31	30	28	25								1
E123758493847	Newby Jim	01-May-02	100% BB	VDC	235	184	3	15	20	25	35	32	22	17	18				2
					Past	Stock	bulls												
	Bu	lls which w	ere in you	r herd an	d which	have be	en reg	istere	d as t	the si	re of a	at lea	st 1 c	alf					
	Bu	II Details				Total								ves B	• • • • •				Page
Tag	Name	DOB	Breed	Sire	Dam	Calves	Herds	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001	ı ağı
E123758493847	Uppy Tom	02-May-04	100% LM	56871	589	107	1	6	17	25	24	20	15						3
E123758412345	Newhill Bill	03-May-03	100% SI	HKG	457	17	1			7	4	4	2						4
E123758445432	CT Max ET	04-May-02	100% AA	LWF	568	358	2		55	51	51	52	50	50	49				5
E123758494321	Stonehead T ET	05-May-99	100% BA	25698	895	144	1				17	21	22	22	19	21	22		6
E123758499995	Thunder Gulch	06-May-98	100% HE	RCE	256	56	1								23	21	7	5	7
				Е	ulls So	d for E	Breed	ing											
	Bulls that were	born in or b	ought into	your he	rd who si	red no o	alves	in you	ır her	d but	have	sired	calve	s in o	ther l	nerds			
	Bu	II Details				Total	Total	Ė			Nu	mber	of Cal	ves B	orn				_
	Name		Breed	Sire	D						2000	2007	2006	2005	2004	2003	2002	2001	Page
Tag	Ivame	DOB	Breea	Sire	Dam	Calves	Herds	2011	2010	2009	2008	2007					2002	2001	
- 0	Coragh T 135	02-Jun-09		MUC	123	Calves 15	Herds 1	<b>2011</b> 15	2010	2009	2008	2007	2000			2003	2002	2001	8
E123758493135			100% LM					_	2010	2009	2008	2007	2000		200-1	2003	2002	2001	8
E123758493135 E123758493137	Coragh T 135 Coragh T 137	02-Jun-09	100% LM 100% LM	MUC	123	15	1	15	2010	2009	2008	2007	2000			2003	2002	2001	_
E123758493135 E123758493137 E123758493140	Coragh T 135 Coragh T 137	02-Jun-09 03-May-09	100% LM 100% LM 100% LM	MUC	123 225	15 13	1	15 13	2010	2009	2008	2007	2000			2003	2002	2001	9
E123758493135 E123758493137 E123758493140 E123758493150	Coragh T 135 Coragh T 137 Coragh T 140 Coragh T 150	02-Jun-09 03-May-09 04-Apr-09	100% LM 100% LM 100% LM 100% LM	MUC ROX DAU	123 225 304	15 13 2	1 1 1	15 13 2	22	2009	2008	2007	2000			2003	2002	2001	9 10 11
E123758493135 E123758493137 E123758493140 E123758493150 E123758493165	Coragh T 135 Coragh T 137 Coragh T 140 Coragh T 150	02-Jun-09 03-May-09 04-Apr-09 05-Mar-09	100% LM 100% LM 100% LM 100% LM 100% LM	MUC ROX DAU REQ	123 225 304 211	15 13 2 7	1 1 1	15 13 2 7		2009	2008	2007	2000			2003	2002	2001	9 10 11 12
E123758493135 E123758493137 E123758493140 E123758493150 E123758493165 E123758493169	Coragh T 135 Coragh T 137 Coragh T 140 Coragh T 150 Coragh U 165 Coragh U 169	02-Jun-09 03-May-09 04-Apr-09 05-Mar-09 06-Jun-08	100% LM 100% LM 100% LM 100% LM 100% LM 100% LM	MUC ROX DAU REQ 50241	123 225 304 211 304	15 13 2 7 47	1 1 1 1	15 13 2 7 25	22	2009	2008	2007	2000			2003	2002	2001	9 10 11 12 13
E123758493135 E123758493137 E123758493140 E123758493150 E123758493165 E123758493169 E123758493172	Coragh T 135 Coragh T 137 Coragh T 140 Coragh T 150 Coragh U 165 Coragh U 169	02-Jun-09 03-May-09 04-Apr-09 05-Mar-09 06-Jun-08 07-May-08	100% LM 100% LM 100% LM 100% LM 100% LM 100% LM	MUC ROX DAU REQ 50241 MUC	123 225 304 211 304 225	15 13 2 7 47 45	1 1 1 1 1	15 13 2 7 25 23	22 22	133	2008	2007				2003	2002	2001	9 10 11 12 13
E123758493135 E123758493137 E123758493140 E123758493150 E123758493165 E123758493169 E123758493172 CWZ	Coragh T 135 Coragh T 137 Coragh T 140 Coragh T 150 Coragh U 165 Coragh U 169 Coragh U 172 Coragh W 180	02-Jun-09 03-May-09 04-Apr-09 05-Mar-09 06-Jun-08 07-May-08 08-Apr-08	100% LM 100% LM 100% LM 100% LM 100% LM 100% LM 100% LM	MUC ROX DAU REQ 50241 MUC TON	123 225 304 211 304 225 546	15 13 2 7 47 45 16	1 1 1 1 1 1	15 13 2 7 25 23 8	22 22 22 8		2008	2007				2003	2002	2001	9 10 11 12 13 14 15
E123758493135 E123758493137 E123758493140 E123758493150 E123758493165 E123758493169 E123758493172 CWZ E123758493185	Coragh T 135 Coragh T 137 Coragh T 140 Coragh T 150 Coragh U 165 Coragh U 169 Coragh U 172 Coragh W 180 Coragh W 185	02-Jun-09 03-May-09 04-Apr-09 05-Mar-09 06-Jun-08 07-May-08 08-Apr-08 09-Jun-07	100% LM 100% LM 100% LM 100% LM 100% LM 100% LM 100% LM 100% LM 100% LM	MUC ROX DAU REQ 50241 MUC TON HTA	123 225 304 211 304 225 546 256	15 13 2 7 47 45 16 1012	1 1 1 1 1 1 1 256	15 13 2 7 25 23 8 554	22 22 22 8 325	133	2008	2007				2003	2002	2001	9 10 11 12 13 14 15 16
- 0	Coragh T 135 Coragh T 137 Coragh T 140 Coragh T 150 Coragh U 165 Coragh U 169 Coragh U 172 Coragh W 180 Coragh W 185	02-Jun-09 03-May-09 04-Apr-09 05-Mar-09 06-Jun-08 07-May-08 08-Apr-08 09-Jun-07 10-May-07	100% LM 100% LM 100% LM 100% LM 100% LM 100% LM 100% LM 100% LM 100% LM	MUC ROX DAU REQ 50241 MUC TON HTA	123 225 304 211 304 225 546 256 225	15 13 2 7 47 45 16 1012 102	1 1 1 1 1 1 256	15 13 2 7 25 23 8 554 33	22 22 8 325 35	133	2008	2007				2003	2002	2001	9 10 11 12 13 14 15 16
IE123758493135 IE123758493137 IE123758493140 IE123758493150 IE123758493169 IE123758493172 CWZ IE123758493185 IE123758493185 IE123758493185	Coragh T 135 Coragh T 137 Coragh T 140 Coragh T 150 Coragh U 165 Coragh U 169 Coragh U 172 Coragh W 180 Coragh W 185 Coragh W 190	02-Jun-09 03-May-09 04-Apr-09 05-Mar-09 06-Jun-08 07-May-08 08-Apr-08 09-Jun-07 10-May-07 11-Apr-07	100% LM 100% LM 100% LM 100% LM 100% LM 100% LM 100% LM 100% LM 100% LM 100% LM	MUC ROX DAU REQ 50241 MUC TON HTA HTA	123 225 304 211 304 225 546 256 225 235	15 13 2 7 47 45 16 1012 102 7	1 1 1 1 1 1 256 2	15 13 2 7 25 23 8 554 33 2	22 22 8 325 35 3	133 34 2	46	2007				2003	2002	2001	9 10 11 12 13 14 15

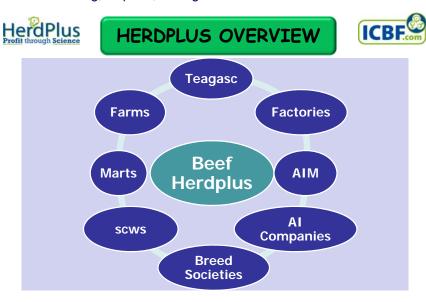




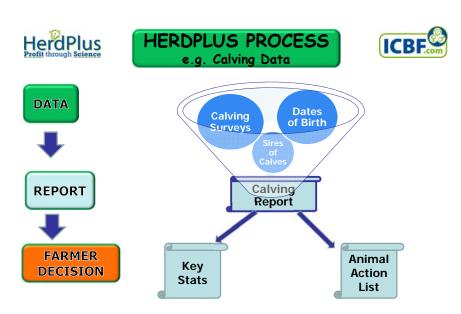
### **Future**

- ICBF are focused on genetic gain (€ profit).
- Genetic Gain is only €5/year. It could be
   €20/year worth €15m/year to farmers.
- Current system requires a change.
- Possible change of use for Tully.
- Commercial progeny instead of Ped Bulls
- Currently under discussion

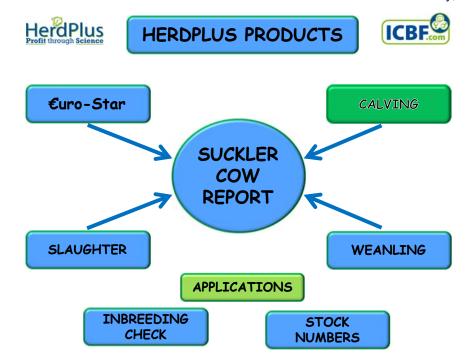
Stephen Conroy et al, ICBF. Page 13 of 20.

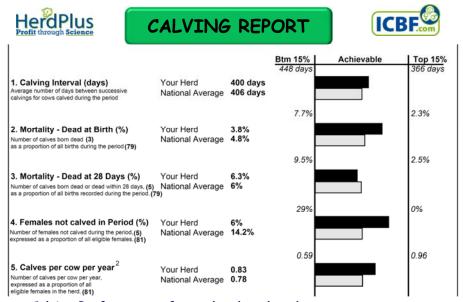


- ICBF Database well connected in our Cattle Breeding Industry
- Beef Herdplus Reports have very deep data sources behind them.



- All Products follow the same process.
- Reports & Action Lists in 'User Friendly' formats.





- Calving Performance of your herd analysed.
- Gauge how your herd rates Nationally.



### CALVING REPORT



### Beef Calving Report - Section A - 8/10/10 Cows calved more than once (ordered by last Calving Interval)

					Age at First								
				*No of	Calving		Avg. Calving	Last Calving					
Jumbo	Animal Number	Breed	Age	Calvings	(Months)	Last Calving	Interval	Interval					
372	IE123456789372		6y	3	29	15/11/2009	474	584					
677	IE123456789676		5y 2m	2	29	27/09/2009	557	556					
224	IE123456789224		6y 6m	3	24	17/11/2009	479	551					
622	IE123456789622		5y 7m	2	30	06/12/2009	453	452					
682	IE123456789682		6y 1m	3	30	07/12/2009	491	449					
723	IE123456789723		5y 6m	3	30	23/12/2009	405	421					
991	IE123456789991		7y 7m	4	32	10/12/2009	373	416					
234	IE123456781234		8y 7m	5	25	08/12/2009	422	411					
321	IE123456784321		12y 8m	8	31	14/11/2009	493	405					
321	IE123456784321		6y 7m	3	31	25/11/2009	385	404					
*No of C	alvings: Embryo ca	alves are	not inclu	ded.									

- \*\*Animal Flushed: Calving Interval Figures may be inaccurate.
- Every Female Listed.
- Possible problem animals identified.



### WEANLING REPORT

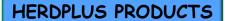


		\	Nea	nling Per	forma	nce F	Repo	rt			
							Weigh	t Perfo	rmano	e	
Anima	l Details		And	estry		Age		Nbr of	Weight	Daily	Gain
7 11111		7			(Days)	Weight	Days	Gain	From Last Weighing	From Birth	
Jumbo:	523	Sire:	HIH	H.Triumph							
Official Tag:	IE151013714523	5110.	LM (10	0%)	07/09/2009	0	40 Kg			-	-
Breed:	LMX	Dam:	IE151	521520321	09/06/2010	275	294 Kg	275	254 Kg	0.92	0.92
Date of Birth:	07-Sep-09	Dain.	BA (50%), FR (50%)		20/07/2010	316	370 Kg	41	76 Kg	1.85	1.04

					Weight Performance										
Anima	l Details		Δnc	estry		Age		Nbr of	Weight	Daily Gain					
Anima	7 illiniai Botano		AIIC	,con y	Date	(Days)	Weight	Days	Gain	From Last	From				
						( ,,,,		.,		Weighing	Birth				
Jumbo:	524	Sire:	HIH	H.Triumph											
Official Tag:	IE151013701524	Sire.	LM (10	0%)	12/10/2009	0	63 Kg		1	-	-				
Breed:	LMX	Dam:	IE151	521520324	09/06/2010	240	325 Kg	240	262 Kg	1.09	1.09				
Date of Birth: 12-Oct-09 BA (50%), FR (50%)		20/07/2010	281	429 Kg	41	104 Kg	2.54	1.3							

- Easily identify good & poor performers.
- Earmark particular cows for breeding/culling.











HERDPLUS PRODUCTS







### SLAUGHTER REPORT



Table 1	. Summary Data	- Based on	all Home Br	red Heife	rs slaughte	red in the pe	eriod (progeny	of suckler beef c	ows)						
	Animal Details Factory performance KPI														
	o. of Average £uro-Star Average A (months		Range in Age (months)	Average days on farm		Cents per kg Cold Weight		Average Daily Gain (ADG Kg)	Lifetime Value per day (£)						
73	8	23	13 - 35	712	327	3.01	1,004	0.41	1.42						

Table 2.	Quality	Paymen	t System	Grid (Ho	ome Bre	d Heifers	s)				
	Ε	U+	U=	U-	R+	R=	R-	0+	0=	0-	Р
1											
2-											
2=			1								
2+											
3-											
3=				1	1		2				
3+				2	7	2					
4- (L)			1	4	3	4	1				
4=			1	1	6	6		1	1		
4+ (H)			3	3	7	4	2				
5				1	4	4					



### Slaughter Report Bought in STEERS Details (Slaughter Period; 07-Jan-2010 to 30-Jun-2011)

2 of (9)



Herd Owner: Declan Sheric Herd Designator: IE2816161 Print Date: 26th Oct 2011

			Ani	imal Details								Factory	perfe	rma	nce		K	PI
IE Tag number	Breed Sire X Dam	Carcass Index (€)	€uro-Star Rating	Sire ID	Age In Months	Price (€)	Actual/Predicted Wgt When Purchased (kg)	On Your	Predicted We Live Wgt At Slaughter	Birth	Staughter Date	Carcass Cold Wot (kg)	Grade	Fat	Price Cent Per kg	Price	Predicted Avg Daily Gain On Your Farm (kg)	Value Per Day On You Farm (kg)
IE251309970410	HE X HO	€13	2 Star "	GDS	30	€840	620	33	678	44	04/10/10	365	0+	4	€2.66	€970	1.76	€3.95
E281012080043	LMXLM	Same	Bonne B		28	€760	560	31	529	42	30/09/10	276	0+	3+	€278	€768	-0.99	€0.26
E121137260212	LM X AA	€63	5 Star *****	ROX	28	€1,000	610	27			27/09/10	327	U-	3=	€2.85	€932		
E121365790224	CHIXISH	€70	5 Star *****	MDO	29	€1,050	665	12			27/09/10	354	Re	3-	€2.79	€989		
IE121409250329	LM X MD	€45	4 Star ****	NIN	29	€1,085	880	27			27/09/10	368	R-	2+	€2.79	€1,027		
E121417350710	LMXHO	€17	2 Star "	IE121698060057	27	€740 G	683	13			27/09/10	398	On	3+	€2.66	€1,059		
E121417360711	LMXHO	€29	2 Star "	IE121698060057	26	€740 G	640	13			27/09/10	383	R-	3+	€2.79	€1,071	1	
IE121505810275	LMXHO	€20	2 Star "	IE121700530062	23	€840	580	20			27/09/10	308	On	4	€2.68	€819		
E191126920992	AAXLM				29	€950	650	20			27/09/10	338	0+	3+	€2.66	€900		
IE231261940083	LM X AA	€48	4 Star ****	UBN	29	€850	595	16			27/09/10	326	0+	3+	€2.88	€889		
IE251205210180	CHIXIAA	€25	2 Star "	IE272107230176	26	€1,090	665	40	675	44	27/09/10	368	R-	4	€2.79	€1,030	0.26	€-1.51
IE311561570153	CHXCH	€72	5 Star *****	IE311396710113	29	€1,165	695	19			27/09/10	380	R+	3+	€2.79	€1,063		
E321113520403	LMXLM	€53	4 Star ****	IE231230690285	29	€1,085	650	13			27/09/10	354	R=	3=	€2.79	€989		
otals/Averag	es	€41			28	€937	638 kg	22	628 kg	43 kg		350 kg			€2.75	€960	0.34	€0.90

Explanatory Notes: ICBF Live weight predictor uses the carcass wgt, grade, conformation as well as age, sex and breed of the animal. Predictions are done for animals who have been on your farm > 30 days within following ranges: Females < 30 months, Steers < 36 months, Buters < 34 months. ICBF Birth weight predictor uses factors such as gender, breed and parity of dam to predict a birth weight for the animal.



HERDPLUS PRODUCTS







### €URO-STAR REPORT



### Would you buy a car without knowing the mileage...??

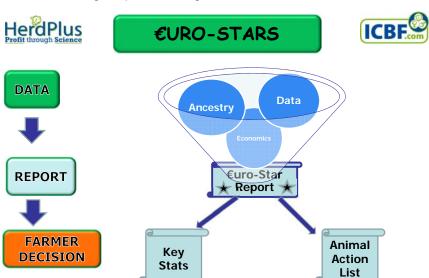








- €uro-Stars being increasingly used as a Selection, Culling & Purchasing tool.
- Whether Pedigree or Commercial You need to know the genetics that you are working with.



■ What are the Genetic Strengths / Weaknesses of your herd



### **€URO-STAR REPORT**

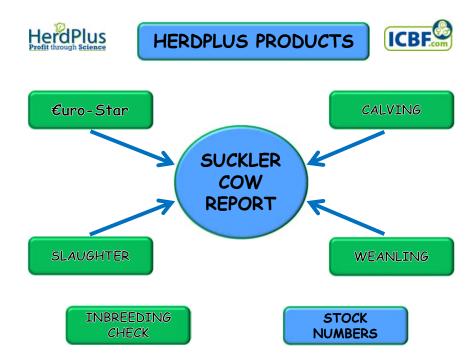


			Suckler Beef Value													
Commerc	ial		eef ilue		Replac	cement										
Group	No.	Weanling Export	Beef Carcass		Daughter Fertility	Daughter Milk	Calf Diff									
		Within	Within Across	Within	Within	Within Across	Within									
All cows	47	€ 64	€ 86	€ 119	€ 47	€ 42	5.4									
		****	****	****	* * * *	****	* * *									
		****	****	****	* * * *	***	* * *									
1st calving	19	€ 62	€ 84	€ 105	€ 33	€ 30	5.6									
		****	****	****	***	***	* * *									
		****	****	****	***	***	* * *									
2nd calving	8	€ 52	€74	€ 112	€ 63	€ 62	5.3									
		****	****	****	****	****	***									
		****	***	****	****	****	* * *									

Herd Overview



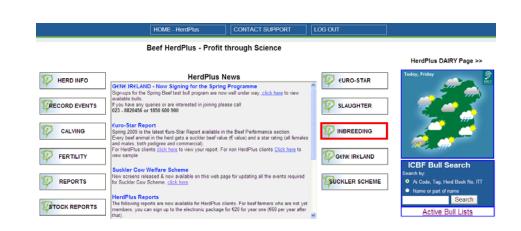
Individual Animal











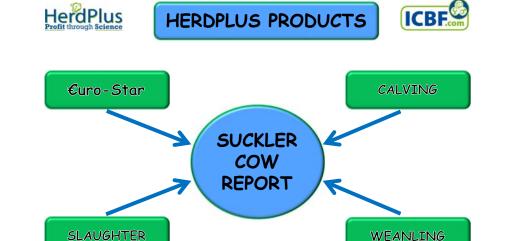


### INBREEDING CHECK



Jumbo	<b>Animal Number</b>	DOB	HTA
48P	IEWPLS0048P	01/02/96	OK
332	IE211063450332	11/02/99	25
334	IE211063470334	11/02/99	OK
338	IE211063420338	17/02/99	25
397	IE211063440397	13/04/99	OK
423	IE211063450423	26/01/00	OK
548	IE211063460548	09/02/01	OK
684	IE211063420684	03/03/02	OK
751	IE211063430751	12/11/02	OK
829	IE211063460829	02/03/03	OK
888	IE211063480888	15/11/03	OK
937	IE211063470937	15/02/04	OK
965	II (A)	<b>1000</b>	
976	IE CONTRACTOR OF THE PROPERTY		
	A		X

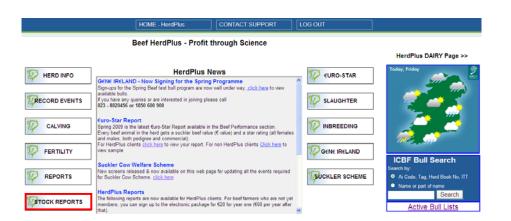
Identify possible Inbreeding problems before Bull is used!





### STOCK NUMBERS







INBREEDING

CHECK

### STOCK NUMBERS



STOCK

NUMBERS

### Nitrates Report

				Nit	rates Re	port - 2	909							N		P	
Animal Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average	kg/hd	Total	kg/hd	Total
Dairy Cows	0	0	0	. 0	0	.0	0	0	0	0	0	0	0	85	0	13	0
Suckler Cows	74	73	73	75	76	75	75	75	73	79	82	82	76.1	65	4947	10	761
Total Cattle 9 - 12 mths	70	65	58	63	60	61	61	62	62	80	90	76	67.3	24	1615	3	202
Total Cattle 12 - 24 mths	67	75	78	82	80	76	58	58	57	54	54	62	66.7	57	3802	8	534
Total Cattle 24+ mths	21	18	24	27	33	35	34	34	34	26	22	29	28.2	65	1833	10	282
Total	232	231	233	247	249	247	228	229	226	239	248	249	238.3		12197		1771

This report calculates the average number of animals in the herd each month and calculates the kgs of Nitrogen (N) and Phosphorus (P) produced in the herd based on these figures.

- Calculates the average number of animals in the herd each month
- Calculates the kgs of Nitrogen (N) & Phosphorus (P) produced



### HERDPLUS PRODUCTS







### SUCKLER COW REPORT



		An	imal Detail	s				Anc	estry	Deta	ails		€uro-Star Index							
Jum	bo:	888	ÿ			_	22 10000	1988	300059	8			Within Breed	16		Index Re	1% Acre	oss Breed		
Offic	cial Tag:	IE21	1063480888				Sire's Sire	BILL					****	Suckler Beef	Value	€180 42	% **	***		
Anir	nal Name:							1983	200542	8		9		Bee	of Value					
	of Birth:		1/2003				Sire's Dam	TUR	COISE				****	Weanling Exp	port	€89 47	% **	***		
Bree			(3.13%), FR (25	000 114	Sin		HOU						****	Beef Carcass		€119 48	% **	***		
bree			(3.13%), FR (25 88%)	170), LIVI	Sin	е.	HYMOUR							Replace	ment Val	ue				
Hero	ibook:				Da	m·	IE2110634	70508					****	Daughter Fertility €56			**	****		
Sco	red:				J.								****	Daughter Milk	k	€85 33	% **	***		
Wei	ghed:	07/0	7/2004				Dam's Sire	BBL	12					Other h	Key Traits					
BLU	JP Index	(Rel	iability 31%)				Dam's Sire		BULBE	N CHA	ARLIE		****	Mat Calving D	Oiff %	€3.84 45	% **	***		
M	USCLE	5	KELETAL	DOCILITY			Dam's Dam	WN	A24439	5			*	Gestation Ler	ngth	€2.91 35	% **	-		
	102 128 -0.18								DAUTI	JN KAR	RINA 4		*	Docility		-0.18 28	1% *			
			Calving 8	& Fertility	v Perf	orm	ance					V	Veanling 8	& Carcass	Perfor	mance				
	Calving Date	9	Tag Number	Calving	Calving		Current	Sire	Sire Breed	Age days	Weight Kgs	3	€ Price/Kilo	Calf Quality	Docility	Age at Slaught. (months	Carcass Conf.	Carcas		
1	15/01/20	06	E2110634 <b>8114</b>	3 Normal		M	Dead	HKG	SI					1	T	24	U3	459		
2	07/02/20	07	E21106343132	0 Normal	387	M	Dead	HKG	SI	176	374	1.45				25	U4L	460		
3	17/03/20	08	E21106347154	7 Normal	403	M	Dead	90346	CH					V.Good	Quiet	22	U-3+	429		
4	22/02/20	09	E21106342167	4 Normal	341	M	In herd	BUF	LM	208	347	1.48		V.Good	Quiet					
5	07/02/20	10	E21106345175	1 Normal	349	F	In herd	50065	CH							$\overline{}$	$\overline{}$			

- Key Beef HerdPlus Report
- Allows you to evaluate every Suckler Cow in your herd in detail



### HERDPLUS PRODUCTS









- 1. Report
- 2. Action List

### Weanling

- 3. Report
- 4. Action List

### Slaughter

- 5. Report
- 6. Action List
- Number of Beef Herdplus Products has steadily increased.
- Data is only limiting factor in product design.



### HERDPLUS PRODUCTS









#### **€uro-Star**

- 7. Report
- 8. Action List

### **Profiles**

- 9. Herd
- 10. €uro-Star
- 11. Fertility
- 12. Slaughter

### **Applications**

- 13. Record Data
- 14. Inbreeding
- 15. Stock Report
- 16. Catalogue

- 16 Beef Herdplus Products
- All Products developed in conjunction with Suckler Farmers
- Constantly being improved based on feedback



### HERDPLUS SUMMARY



- Excellent uptake of the service
- Reports constantly improved
- Currently 9000 Farmers joined
  - 5500 Dairy
  - **3500** Beef
- €60/year On-line, €120/year Postal
- Hassle free way to get Breeding information on your
   Herd

Lo-Call 1850-600-900



