



IRISH CATTLE BREEDING FEDERATION

Information for Beef Breeding: Interbeef & ICBF's Beef HerdPlus®

Brian Wickham ICBF

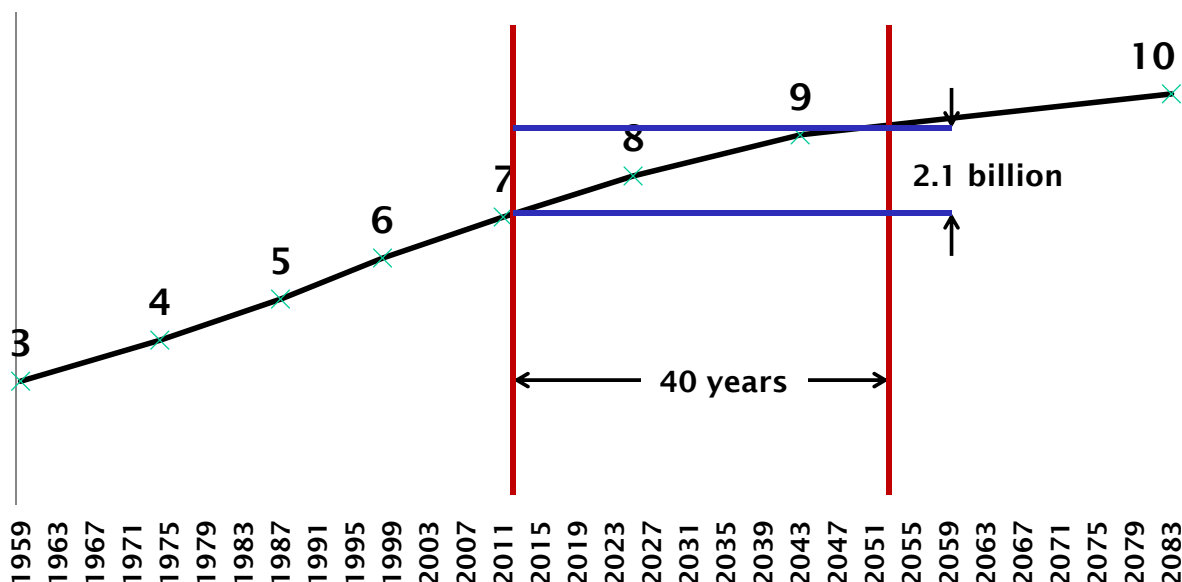
Thursday 12th July 2012

Canadian Beef Breeds Council: Calgary, Canada



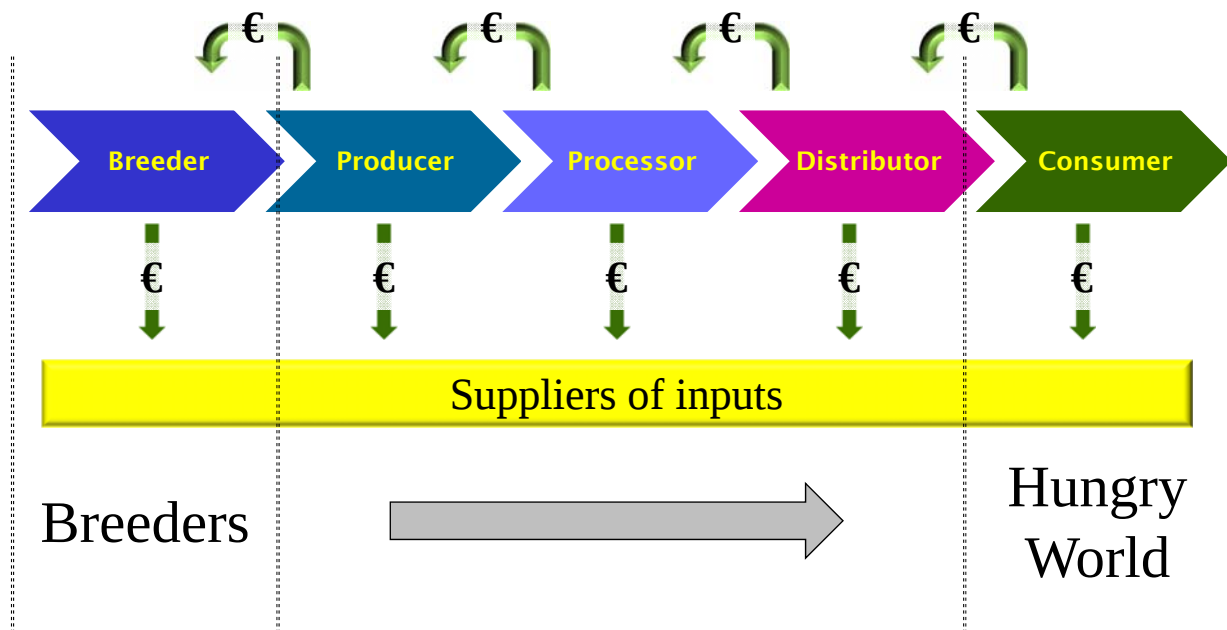
UN World Population Projections* (billions)

Population growth of one million per week for next 40 years.

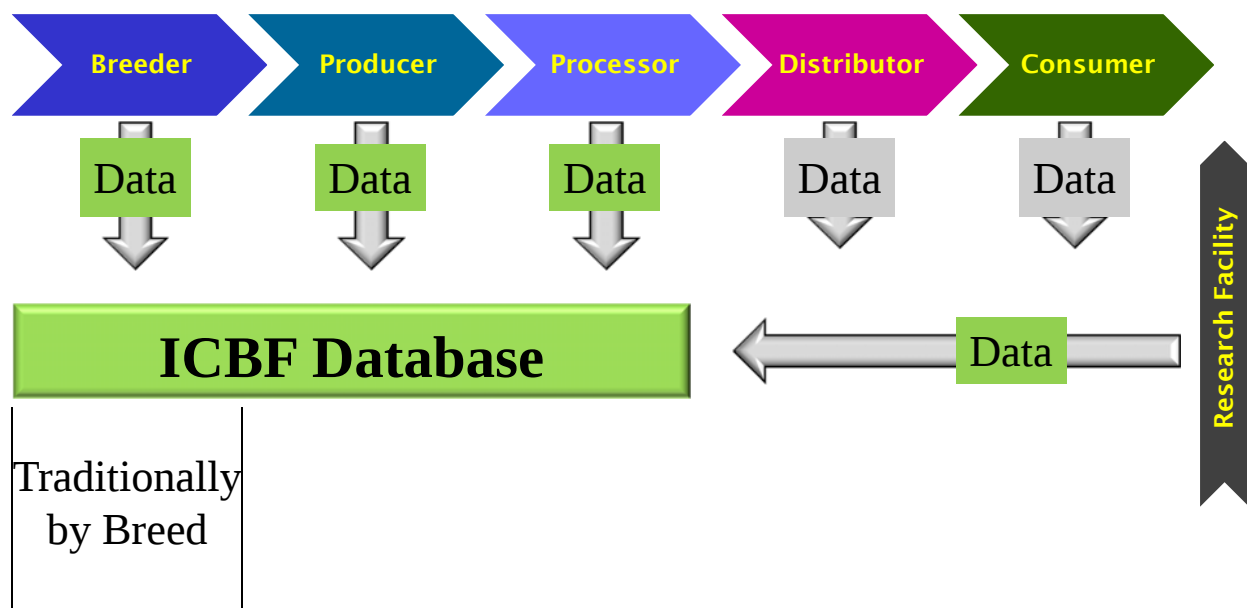


* <http://esa.un.org/wpp/Other-Information/faq.htm#q1>

The beef supply chain



Data & Supply Chain



INTERBEEF

BACKGROUND



ICAR & Interbeef



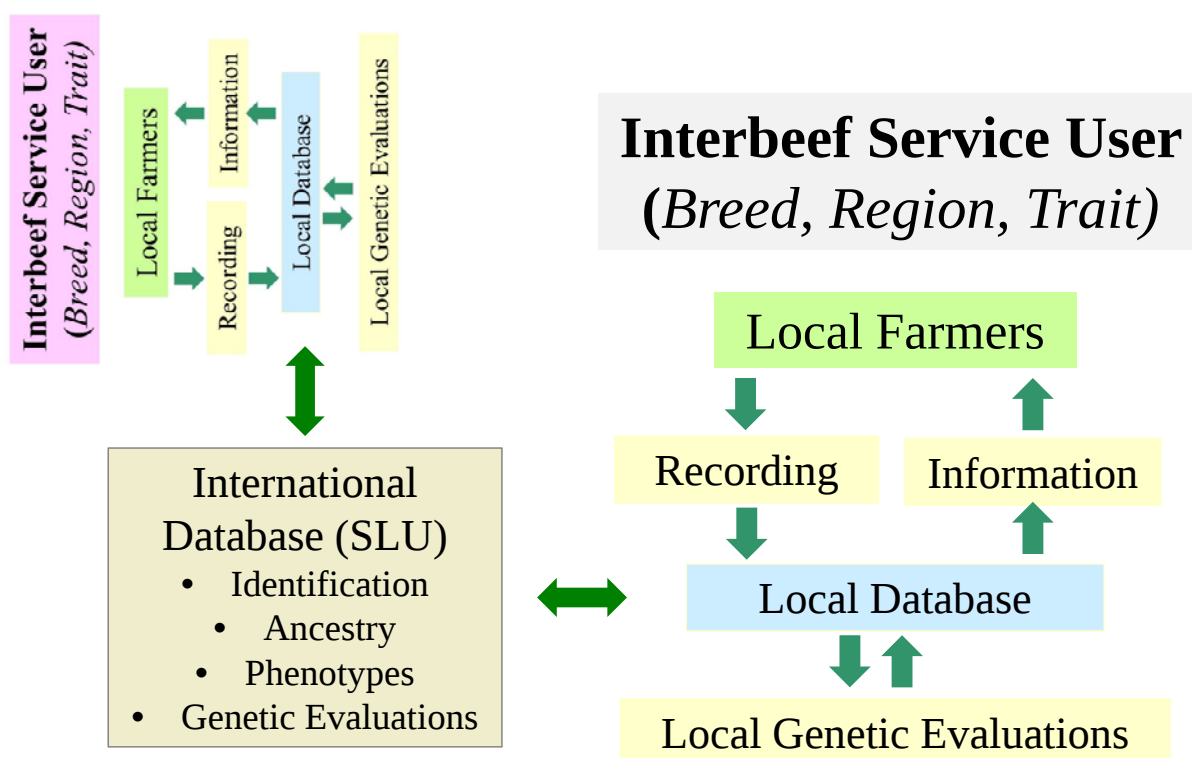
- ICAR (www.icar.org)
 - International organisation for animal recording (99 members from 52 countries)
 - Guidelines & standards for recording & genetic evaluations – Sub-Committees (4), Working Groups (12) one of which is the **Interbeef Working Group**

Argentina
Australia
Austria
Belgium
Bulgaria
Canada
Chile
Croatia
Czech Republic
Denmark
Ecuador
Egypt
Estonia
Finland
France
Germany
Greece
Hungary
India
Iran
Ireland
Israel
Italy
Japan
Kazakhstan
Korea
Latvia

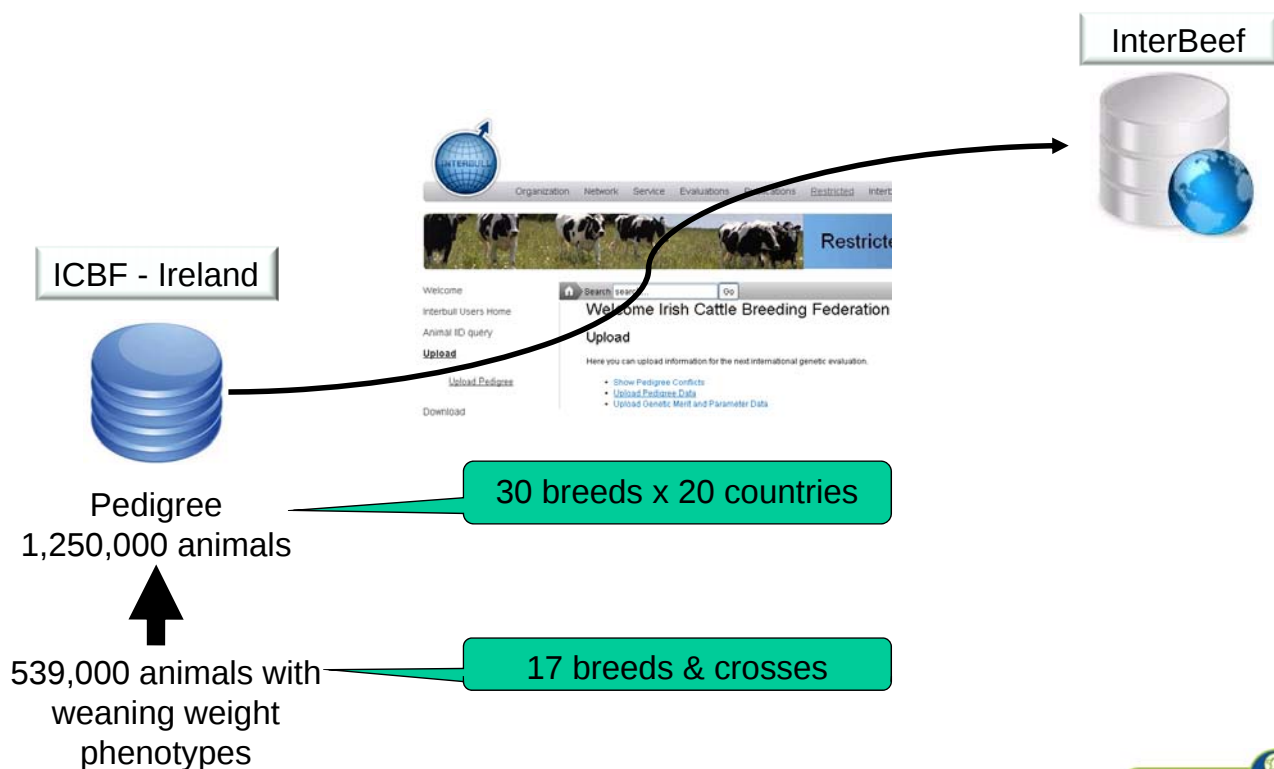
Lithuania
Luxembourg
Mexico
Morocco
New Zealand
Norway
Peru
Poland
Portugal
Romania
Slovak Republic
Slovenia
South Africa
Spain
Sweden
Switzerland
Taiwan
The Netherlands
Tunisia
Turkey
UK
Ukraine
Uruguay
USA
Uzbekistan

Objectives of Interbeef

1. Forum for **sharing knowledge** on recording & genetic evaluations of beef breeds & traits.
2. Maintain **guidelines & standards** for recording & genetic evaluations
3. Conduct **international surveys**
4. Develop **international genetic evaluation services**
5. Facilitate use of **genomic selection**



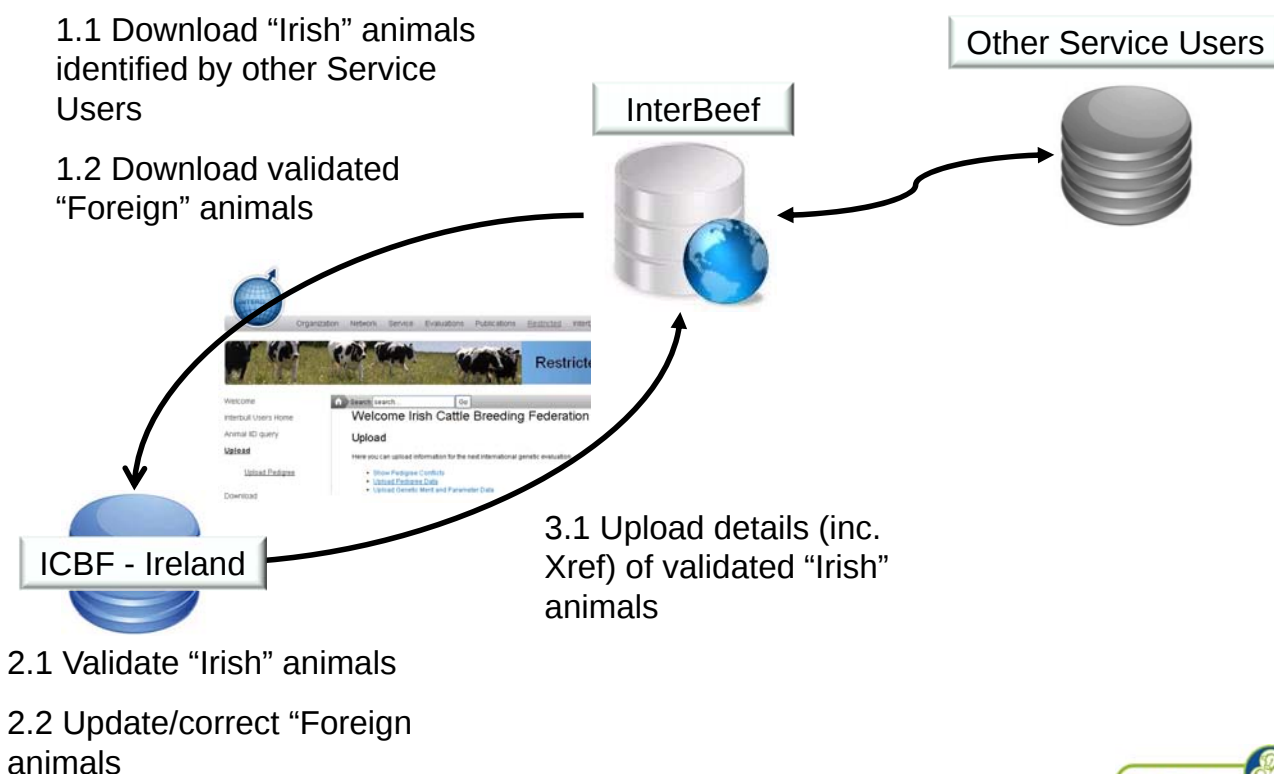
Upload - pedigree



9



Update & Validate - Pedigree



10



Service User	Data Quality	Genetic Evaluations	Territory	Pure Breeds	Commercial	Traits
ARC			South Africa	Afrikaner, Angus, Beefmaster, Bonsmara, Braunvieh, Charolais , Drakensberger, Gelbvieh, Hereford, Nguni, Pinzgauer, Red Poll, Santa Gertrudis, South Devon, Sussex, Tuli.	All breeds & crosses.	Reproduction, Calving/Birth, Growth , Carcass, Maternal
CMBC	CBBA		Czech Republic	Angus, Belgian Blue, Blonde d'Aquitaine, Galloway, Gasconne, Hereford, Highland, Charolais , Limousin , Simmental, Piemontese, Salers.	All breeds & crosses.	Weaning weight , calving ease, other traits in future.
SAC EGENES			United Kingdom	Blonde d'Aquitaine (British Blonde), Highland, Limousin , Lincoln Red, Red Poll, Saler, Stabiliser, Sussex.		Reproduction, Calving/Birth, Growth , Carcass, Maternal, Docility
FECL		INIA	Spain	Limousin		Birth, Growth, Maternal, Carcass
FGE		INRA	France	Aubrac, Salers, Gasconne, Limousine , Charolaise , Rouge des Prés, Parthenaise, Blonde d'Aquitaine, Bazadaise	Cross breeds for veal production	Reproduction, Calving/Birth, Growth , Morphology, Carcass, Maternal, Docility
ICBF			Ireland	Angus, Aubrac, Belgian Blue, Blonde d'Aquitaine, Charolais , Hereford, Limousin , Parthenaise, Piedmontese, Saler, Simmental.	All breeds & crosses.	Reproduction, Calving/Birth, Growth , Carcass, Maternal
SVM			Sweden	Simmental, Highland Cattle, Angus, Hereford, Blonde D'Aquitaine, Charolais , Limousine		Reproduction, calving maternal/direct, growth maternal/direct, carcass classification.
VFL			Denmark	Simmental, Original Braun Swiss, Grauvieh, Highland Cattle, Gelbvieh, Dexter, Saler, Angus, Galloway, Hereford, Piedmontese, Blonde D'Aquitaine, Beef Shorthorn, Charolais , Limousine , Belgian Blue Cattle	All breeds	Reproduction, calving maternal/direct, growth maternal/direct, carcass classification, conformation
FABA			Finland	Angus, Charolais , Limousin , Simmental, Hereford, Highland cattle	All breeds & crosses	Reproduction, Calving/Birth, Growth , Carcass, Maternal

INTERBEEF

IMPLICATIONS FOR BEEF BREEDERS

Key Elements for Beef Breeders

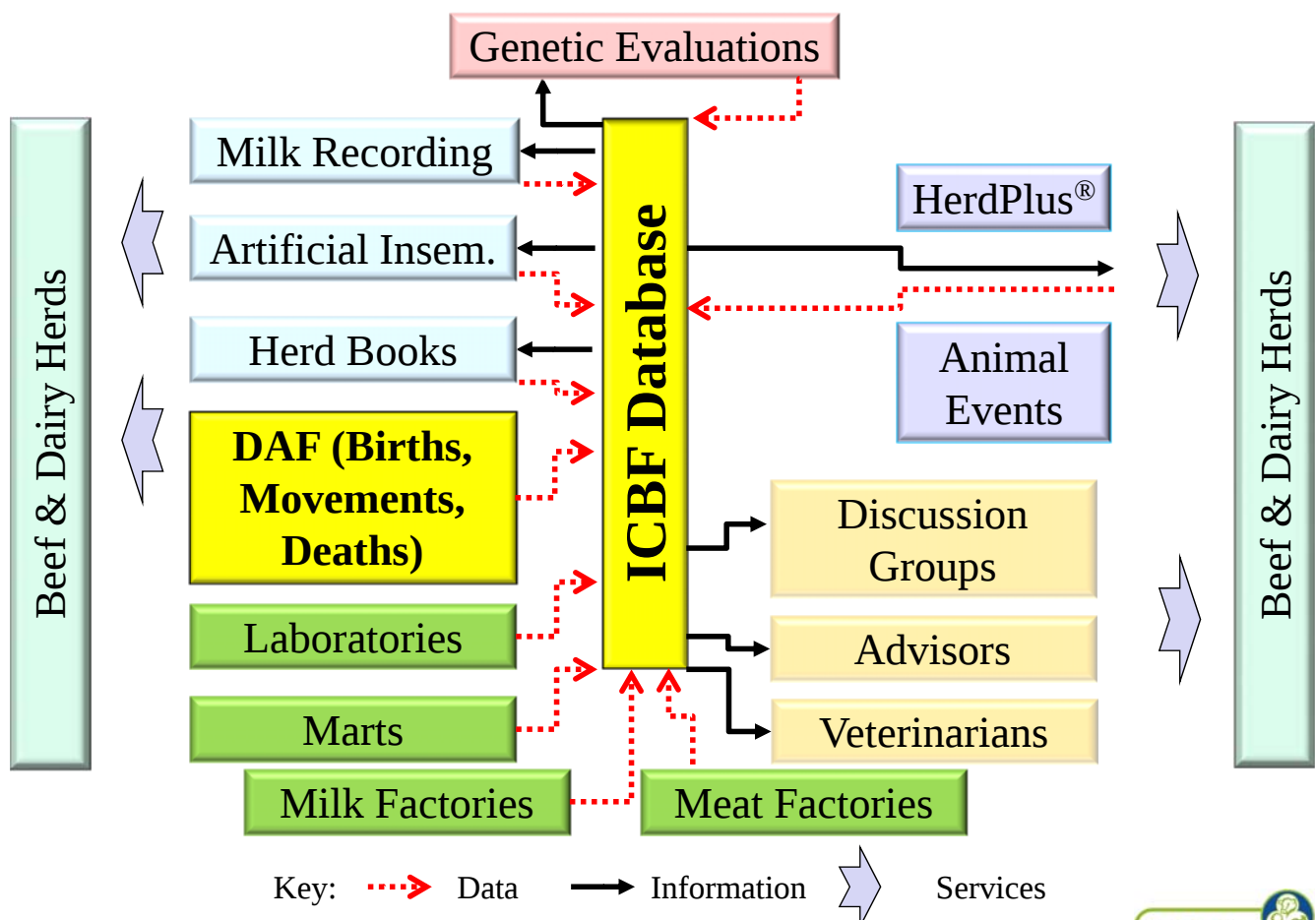
- Identification and performance recording – local
- Breeding objective – local with evaluations provided locally
- Link to commercial progeny performance
- Link internationally for genetic evaluation & research
- Use information to select breeding stock worldwide

ICBF Beef HerdPlus®

BACKGROUND

Herdplus® Beef Overview

- Herdplus is a Beef Breeding Information Service for herd owners.
- Farmers record information on their animals once.
But.....
- Lots of other pieces of information are recorded on the same animals over their lifetime.
- Herdplus Service pulls ALL of this information together for the herd owner.



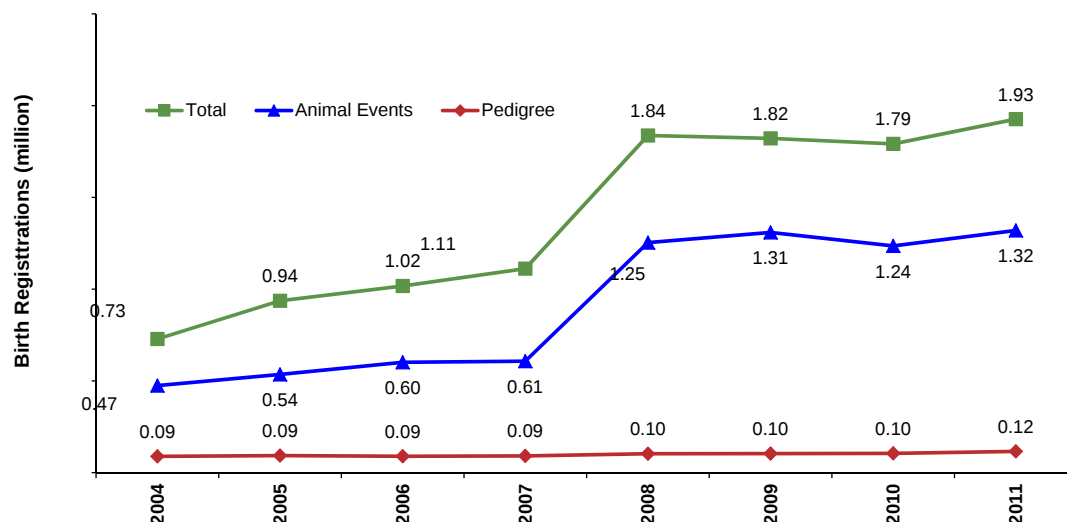
Herdplus® Beef Overview

- Launched in September 2007
- Huge increase in the last year
- Used by the BETTER Farms Program
- Part of a National Recording Scheme – BTAP (Beef Technology Adaption Program)
- 90% Electronic, 10% Postal

*Over
9,000 Beef
Farmers have
joined so far*



Data Bank



- Vast majority of beef data in the ICBF database originates from commercial herds.
- All Pedigree Beef Breed Societies use the ICBF Herdbook Program – Taurus (28k registrations/14 breeds).

Herdplus Products

**Suckler
Cow
Report**

**Bull
Tracker
Report**

**5 Year
Trend
Report**

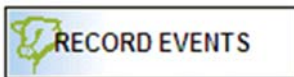
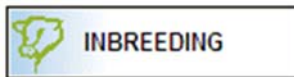
**Calving
Report**

**€uro-Star
Report**

**Weighing
Report**

**Slaughter
Report**

Herdplus Applications



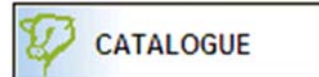
ICBF Bull Search

Search by:

☒ AI Code, Tag, Herd Book No, IFT

☐ Name or part of name

[Active Bull Lists](#)



© Irish Cattle Breeding Federation Soc. Ltd 2012

15

Calving Report

1. Summary Data				
Report is based on beef cows with a calving record in the cattle breeding database and where the calving date is between 01/07/2010 and 30/06/2011 (Embryo births excluded)				
	All	Heifers		All
Total Calvings	78	17	No. of Cows not calved	0
No. of Calves - Live at Birth	81	17	No. of Calves - Live at 28 days	80
No. Calves - Dead at Birth	0	0	No. of eligible females ¹	78
No. Male Calves - Live at Birth	38	9		
No. Female Calves - Live at Birth	43	8	Average age at calving	Cows 5x 9m Heifers 2x 0m

1. Summary Data

Report is based on beef cows with a calving record in the cattle breeding database and where the calving date is between 01/07/2010 and 30/06/2011 (Embryo births excluded)

	All	Heifers	All
Total Calvings	78	17	No. of Cows not calved
			0

4. Females not calved in Period (%)

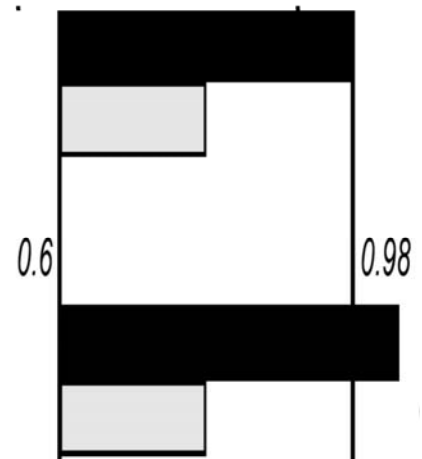
Number of females not calved during the period, (0)
expressed as a proportion of all eligible females. (78)

Your Herd 0%
National Average 13%

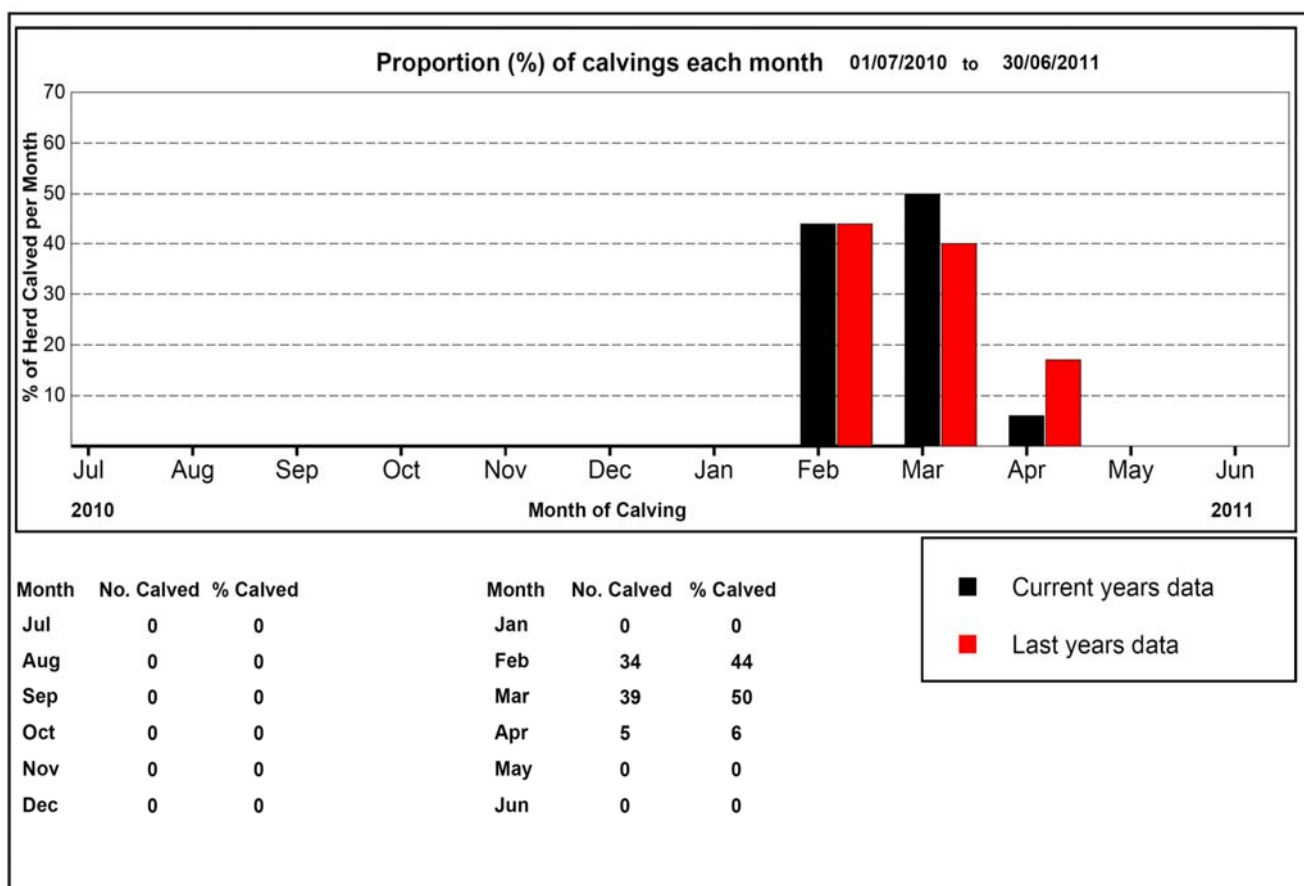
5. Calves per cow per year²

Number of calves per cow per year,
expressed as a proportion of all

Your Herd 1.04
National Average 0.79



Calving Pattern



Action List

Beef Calving Report - Section A

Cows calved more than once (ordered by last Calving Interval)

Note: Attention should be given to those cows with high Calving Intervals (>390) - They may have reproductive problems and should be investigated further.

Jumbo	Animal Number	Breed	Age	No of Calvings	Age at First Calving (mths)	Last Calving	Avg. Calv Interval	Last Calv Interval
016	IE371510010016	SIX	8y 6m	7	24	11-Apr-11	364	420
207	IE371101480207	SIX	12y 9m	10	25	15-Apr-11	370	418
640	IE371101440640	LMX	5y 8m	4	24	31-Mar-11	377	414

Suckler Cow Report

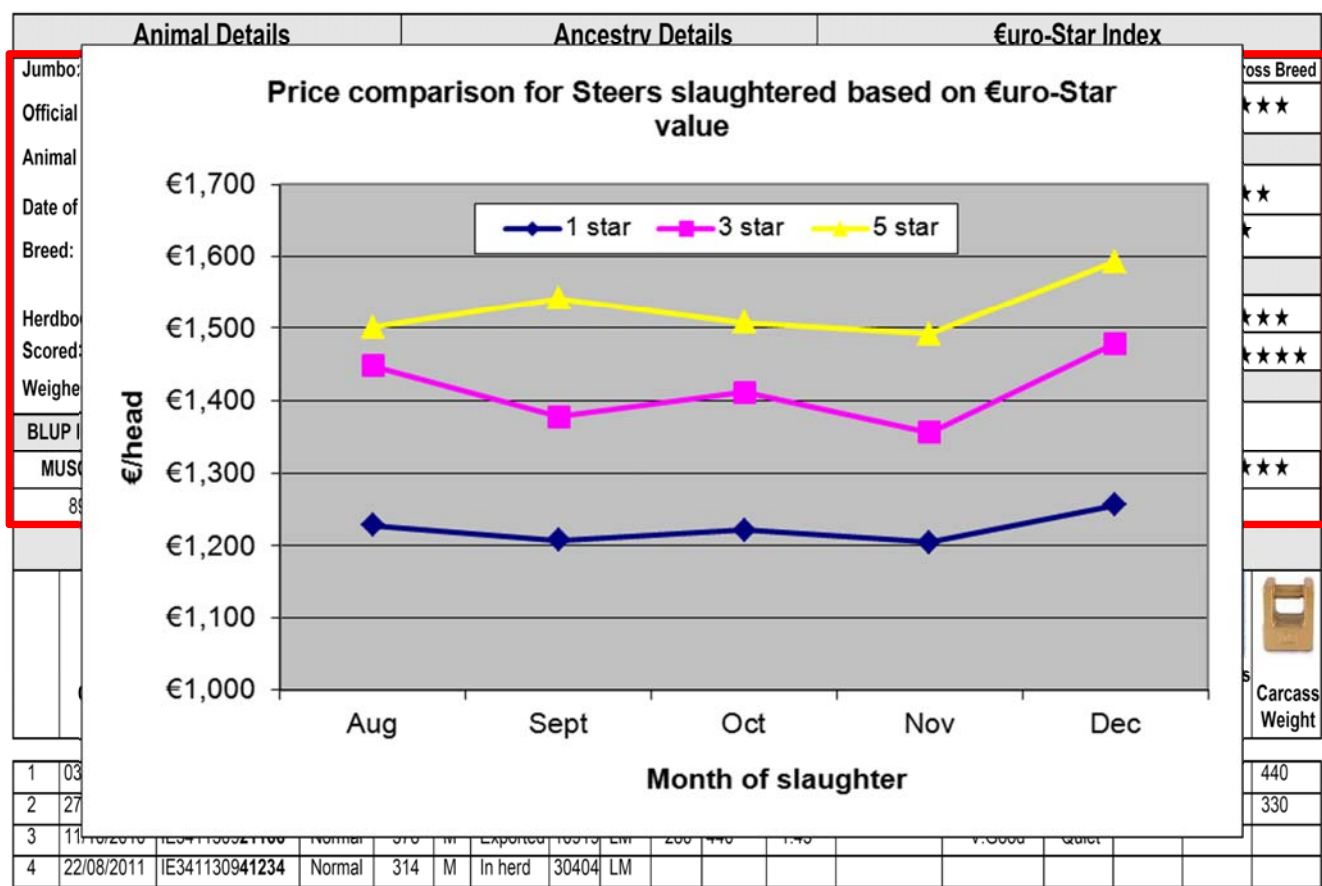
- Shows key pieces of data available on a Suckler Cow and her progeny.
- Key performance indicators for every cow in the herd are displayed:
 - Calving Interval
 - Growth Rates & Carcass quality of progeny etc
- Allows a Beef Farmer compare the performance of different cows & make a better selection decision.

Suckler Cow Report



- A Commercial Suckler Cow in Ireland.
 - What do we know about her?

Suckler Cow Report



Suckler Cow Report

Animal Details			Ancestry Details			Euro-Star Index			
Jumbo:									Cross Breed
Official Tag:	Calving & Fertility Performance								***
Animal Name:									
Date of Birth:								**	
Breed:									*
Herdbook:									***
Scored:									****
Weighed:									
BLUP Index	Calving Date	Tag Number	Calving Survey	Calving Interval	Sex	Current Status	Sire	Sire Breed	
MUSCLE									***
89									

Calving Date	1	03/09/2008	IE341130930961	Normal		M	Dead	40718	LM	 Carcass Weight
	2	27/09/2009	IE341130921059	Normal	388	M	Dead	30404	LM	
	3	11/10/2010	IE341130921166	Normal	378	M	Exported	10919	LM	
	4	22/08/2011	IE341130941234	Normal	314	M	In herd	30404	LM	
1	03/09/2008	IE341130930961	Normal		M	Dead	40718	LM	440	
2	27/09/2009	IE341130921059	Normal	388	M	Dead	30404	LM	330	
3	11/10/2010	IE341130921166	Normal	378	M	Exported	10919	LM		
4	22/08/2011	IE341130941234	Normal	314	M	In herd	30404	LM		

Suckler Cow Report

Animal Details				Ancestry Details				Euro-Star Index			
Jumbo:	773			Sire's Sire:	F137			Within Breed	Index	Rel%	Across Breed
Official Tag:	IE341130950773				ELITE POPSI ET			★★★★★	Suckler Beef Value	€92	29%
Animal Name:				Sire's Dam:	VXA774342			Beef Value			
					MARLHILL GOLDLOCKS			★★★★★	Wooling Expect	656	29%
Weanling & Carcass Performance											
Age days	Weight Kgs	Growth Kg/Day*	Price/Kilo	Calf Quality	Docility	Age at Slaught. (months)	Carcass Conf. & Fat	Carcass Weight			
				V.Good	Average	19	U+2+	440			
353	446	1.15	€ 1.91	Average	Average	18	R+1+	330			
280	440	1.43		V.Good	Quiet						
2	27/09/2009	IE341130921059	Normal	388	M	Dead	30404	LM	353	446	1.15
3	11/10/2010	IE341130921166	Normal	378	M	Exported	10919	LM	280	440	1.43
4	22/08/2011	IE341130941234	Normal	314	M	In herd	30404	LM			

Herdplus Summary

- Beef Herdplus is the integrated source of Beef Breeding information in Ireland.
- Central to National Recording Schemes.
- Continually increasing its membership.
- Always developing & improving its products.
- All for €60/Year



Overall Summary

- Ireland has developed an integrated infrastructure for beef and dairy cattle breeding which is providing very valuable breeding information to Irish cattle farmers.
- Interbeef is being established to facilitate international genetic evaluations of beef breeds & beef traits.
- Beef cattle breeding worldwide stands to benefit greatly from the improved accuracy of genetic evaluations that will result.
- With collaboration and co-operation we can improve the ability of beef producers to feed the world profitably.