IRISH CATTLE BREEDING FEDERATION

Genomics: What is it?



National Development Plan
Transforming Ireland

Looking at the DNA of an animal

Confirm the parentage

Correct if wrong

DNA will then be used to develop/alter relationship to other animals in the pedigree or not recorded in pedigree.

New genetic relationships will then affect the genetic prediction on the animal and its Eurostar indexes

Calving difficulty and potential genomic impact

Category of AI sire	Reliability Dec 14	no of AI sires	Min PTA calving difficulty	Max PTA calving difficulty	progeny in Dec 14 evaluation	avg change in PTA	maximum change in PTA
Proven AI bulls	90% +	610	1%	24%	2,137	-0.1%	1%
Almost Proven	80-90%	328	1%	27%	115	-0.1%	3%
Partially proven	60-80%	556	1%	25%	43	0.0%	5%
Test sires	40-60%	530	1%	23%	13	0.1%	6%
Foreign Test sires	< 40%	666	1%	18%	4	0.1%	8%

- DNA information will help to reduce the movement in proofs in less reliable animals such as above but also in stock bulls, cows and youngstock
- Cows without known sires should get a more accurate prediction from genomics

IRISH CATTLE BREEDING FEDERATION

Recording your BDGP data online



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Grumpy bull does not approve!
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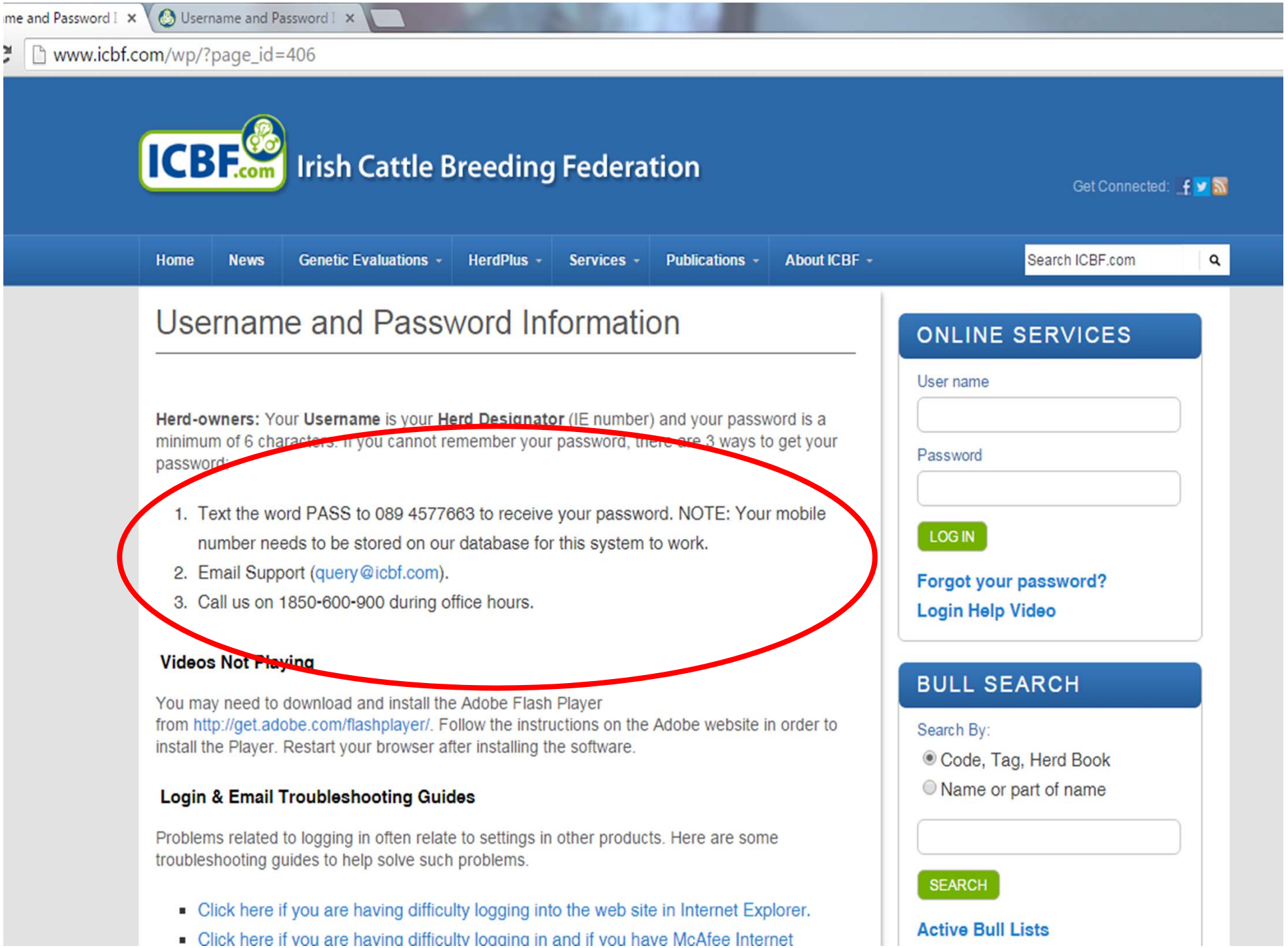
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2. Email Support (query@icbf.com).
3. Call us on 1850-600-900 during office hours.
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Beef Data and Genomics Programme (BDGP)

- To record BDGP Survey Data, click here

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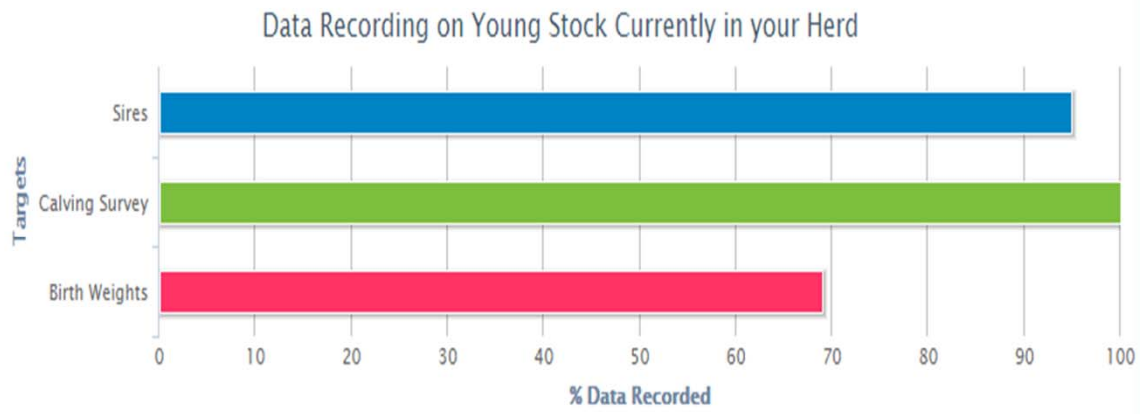
Herd Information IE30105037 ST100820

Young Stock Recording | Dairy EBI | Beef €uro-Star | Health | Fertility



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- 10-SEP-15 - Suckler Cow Report
- 01-SEP-15 - Beef Calving Report
- 22-AUG-15 - Weight Recording Report
- 01-AUG-15 - BDGP Euro-Star Report
- 14-MAY-15 - Beef Output Report

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Beef Data & Genomics Programme

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- Record Calving Ease

For calves 5 months of age and older:

- Record Docility
- Record Quality

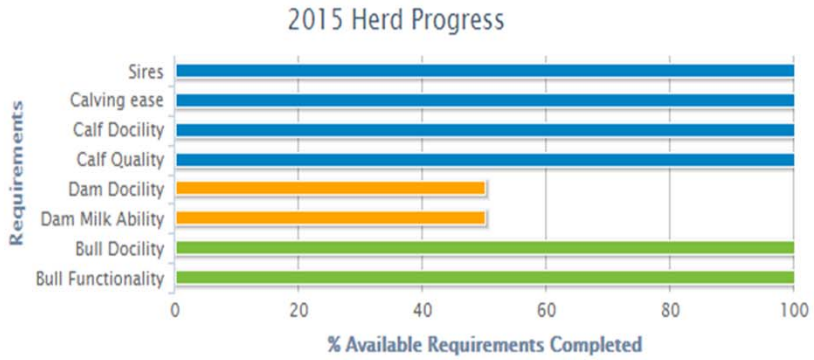
Dam Information

- Record Dam Docility
- Record Milk Ability

Stock Bull Information

- Record Bull Docility
- Record Functionality

Herd Summary



Herd Details

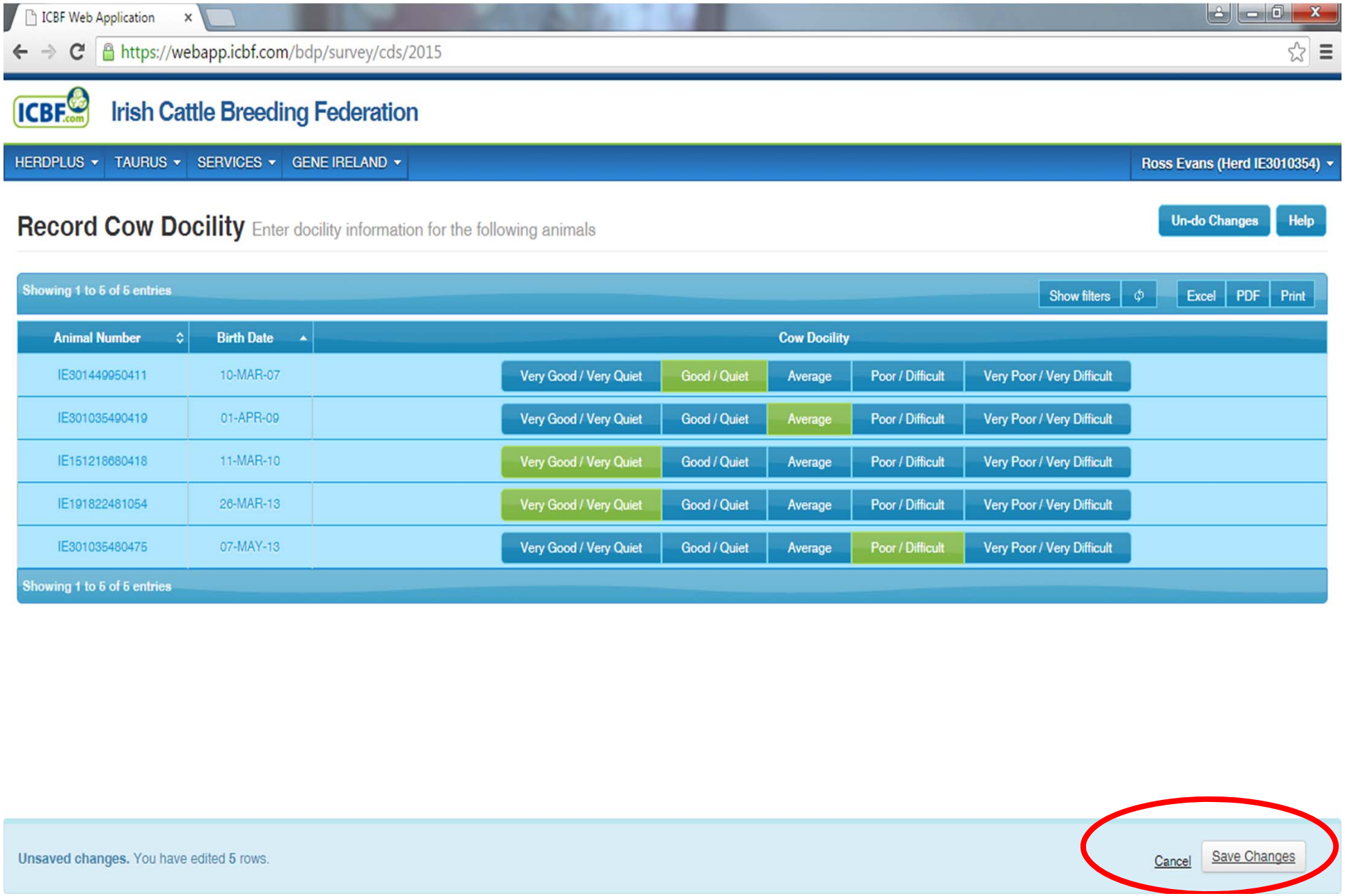
Calves | Dams | Sires

Showing 1 to 9 of 9 entries

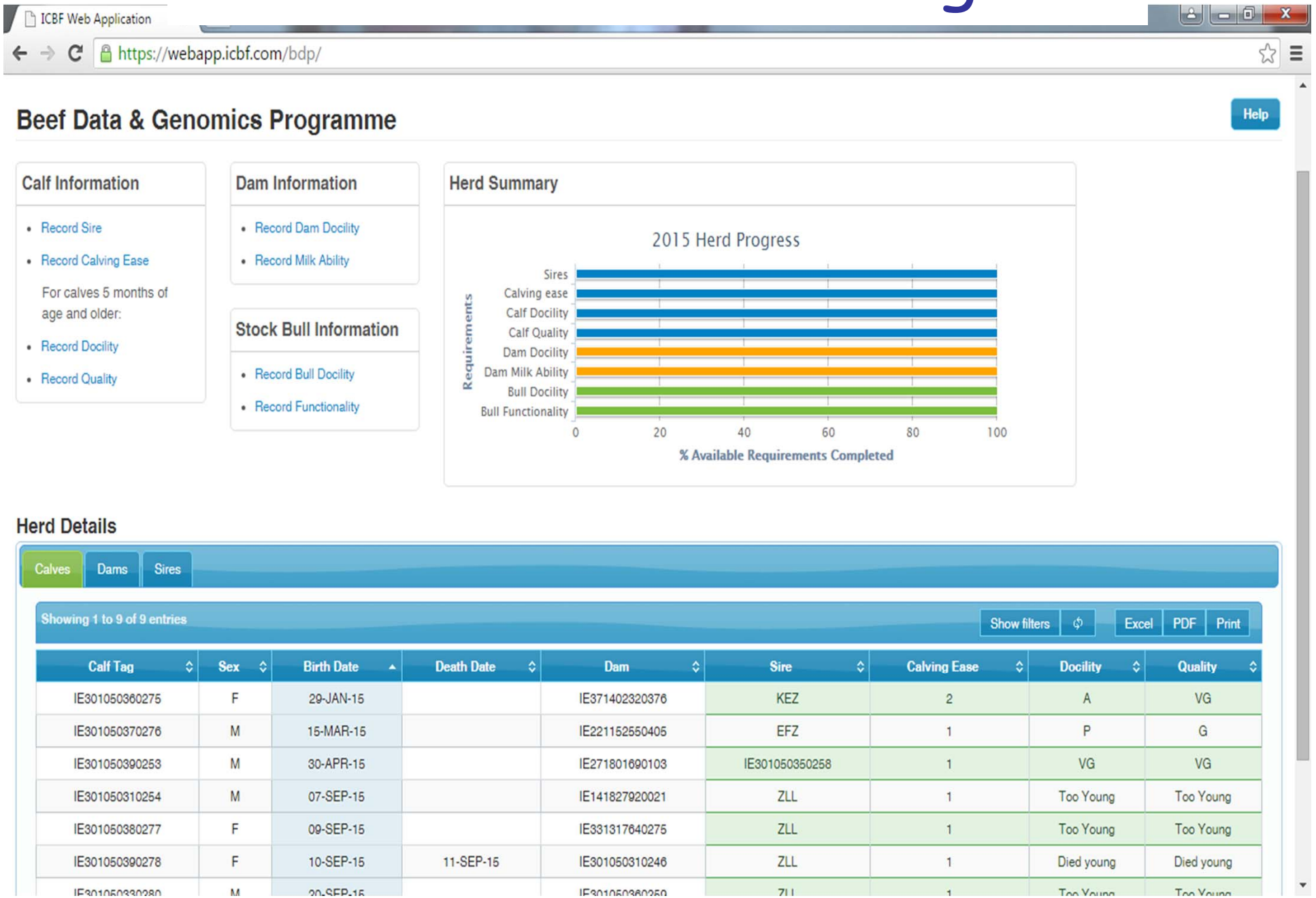
Show filters | Excel | PDF | Print

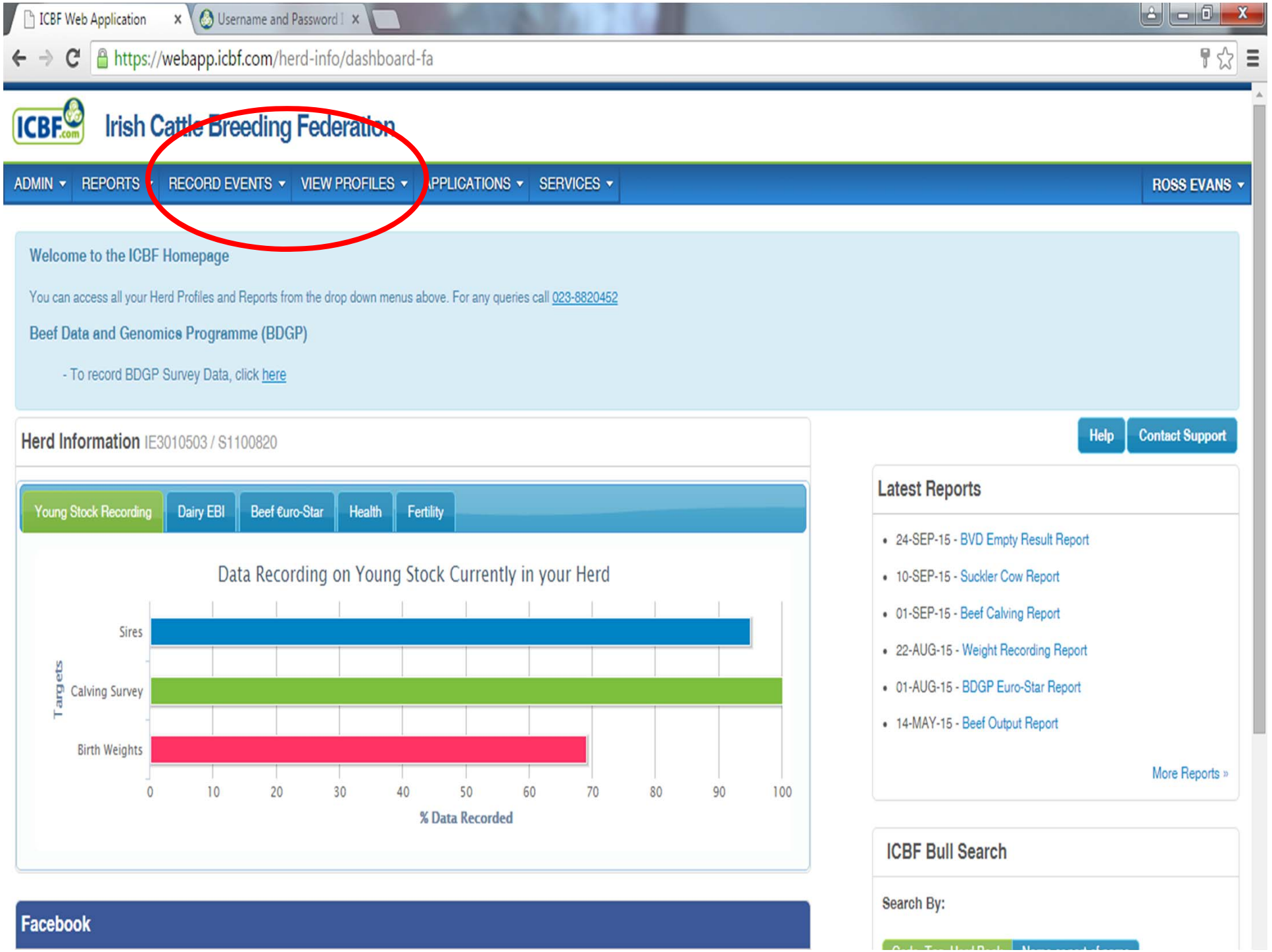
Calf Tag	Sex	Birth Date	Death Date	Dam	Sire	Calving Ease	Docility	Quality
IE301050360275	F	29-JAN-15		IE371402320376	KEZ	2	A	VG
IE301050370276	M	15-MAR-15		IE221152550405	EFZ	1	P	G
IE301050390253	M	30-APR-15		IE271801690103	IE301050350258	1	VG	VG
IE301050310254	M	07-SEP-15		IE141827920021	ZLL	1	Too Young	Too Young
IE301050380277	F	09-SEP-15		IE331317640275	ZLL	1	Too Young	Too Young
IE301050390278	F	10-SEP-15	11-SEP-15	IE301050310246	ZLL	1	Died young	Died young

Online- Recording



Online- Recording

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Health
Fertility
Data Recording on Young Stock Currently in your Herd
Targets
Sires
Calving Survey
Birth Weights
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% Data Recorded
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- Live Weight
- Health & Disease
- Body Condition Score
- Mark for Culling
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- Jumbo / Freezebrand
- Missing Slaughter
- Milking Temperament Survey

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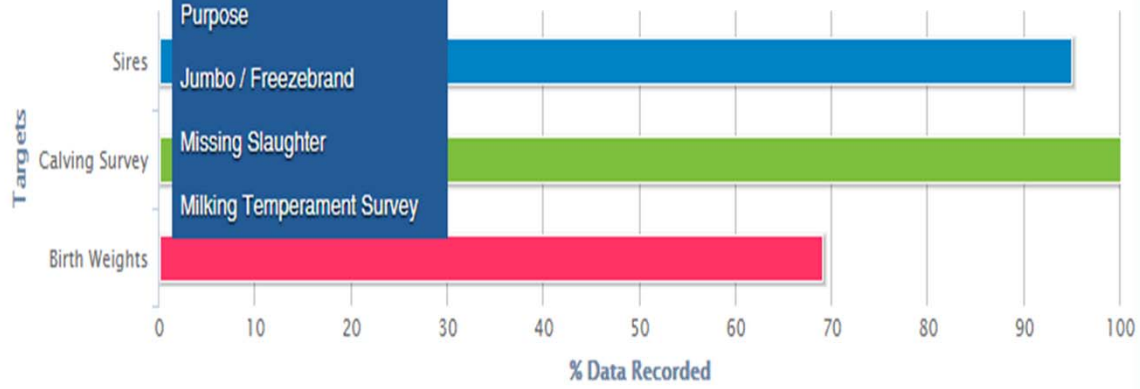
Beef Data and Genon

- To record BDGP

Herd Information

Young Stock Recording | Health | Fertility

n Young Stock Currently in your Herd



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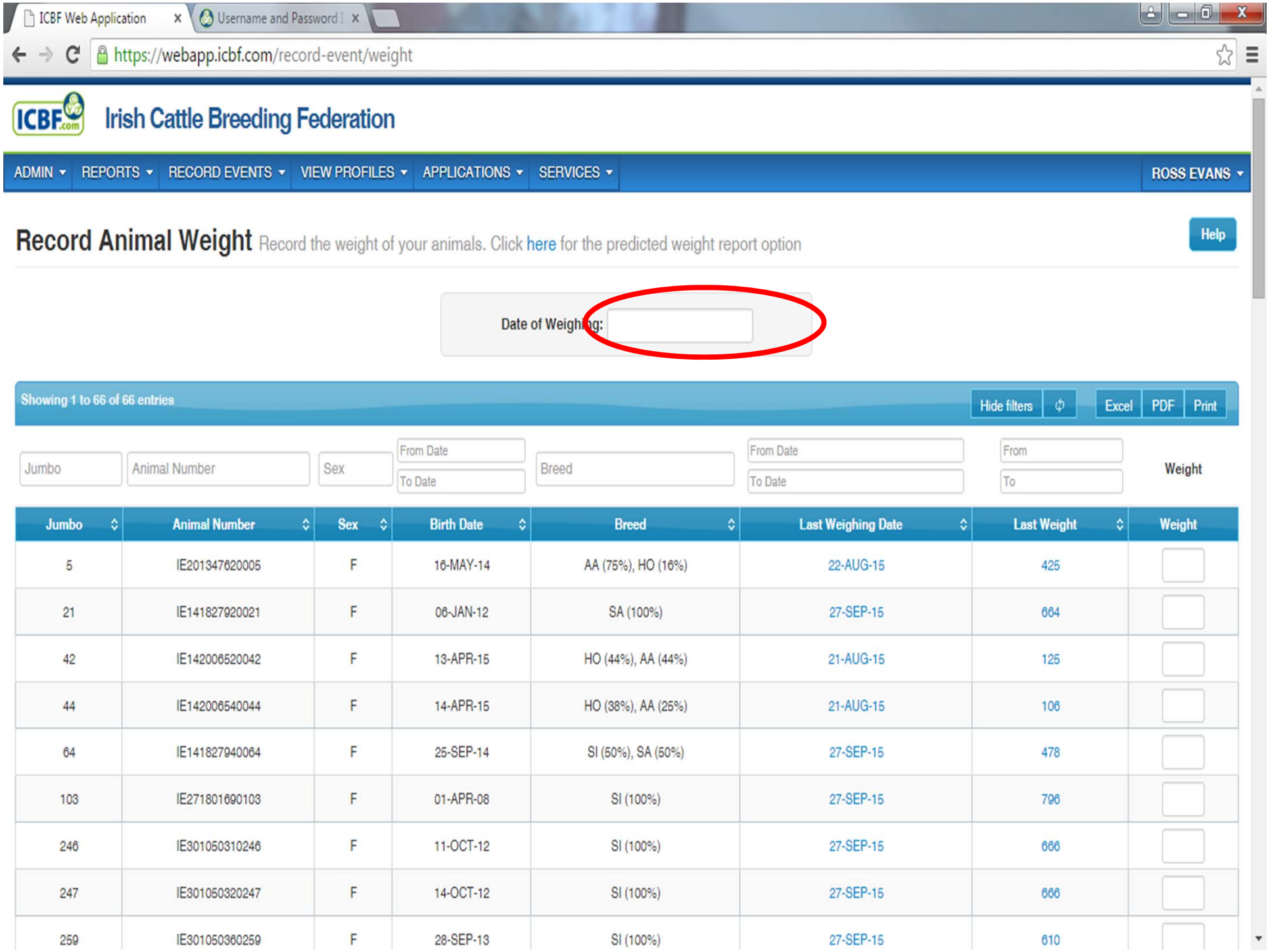
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Date of Weighing:
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Excel
PDF
Print
Jumbo
Animal Number
Sex
From Date
To Date
Breed
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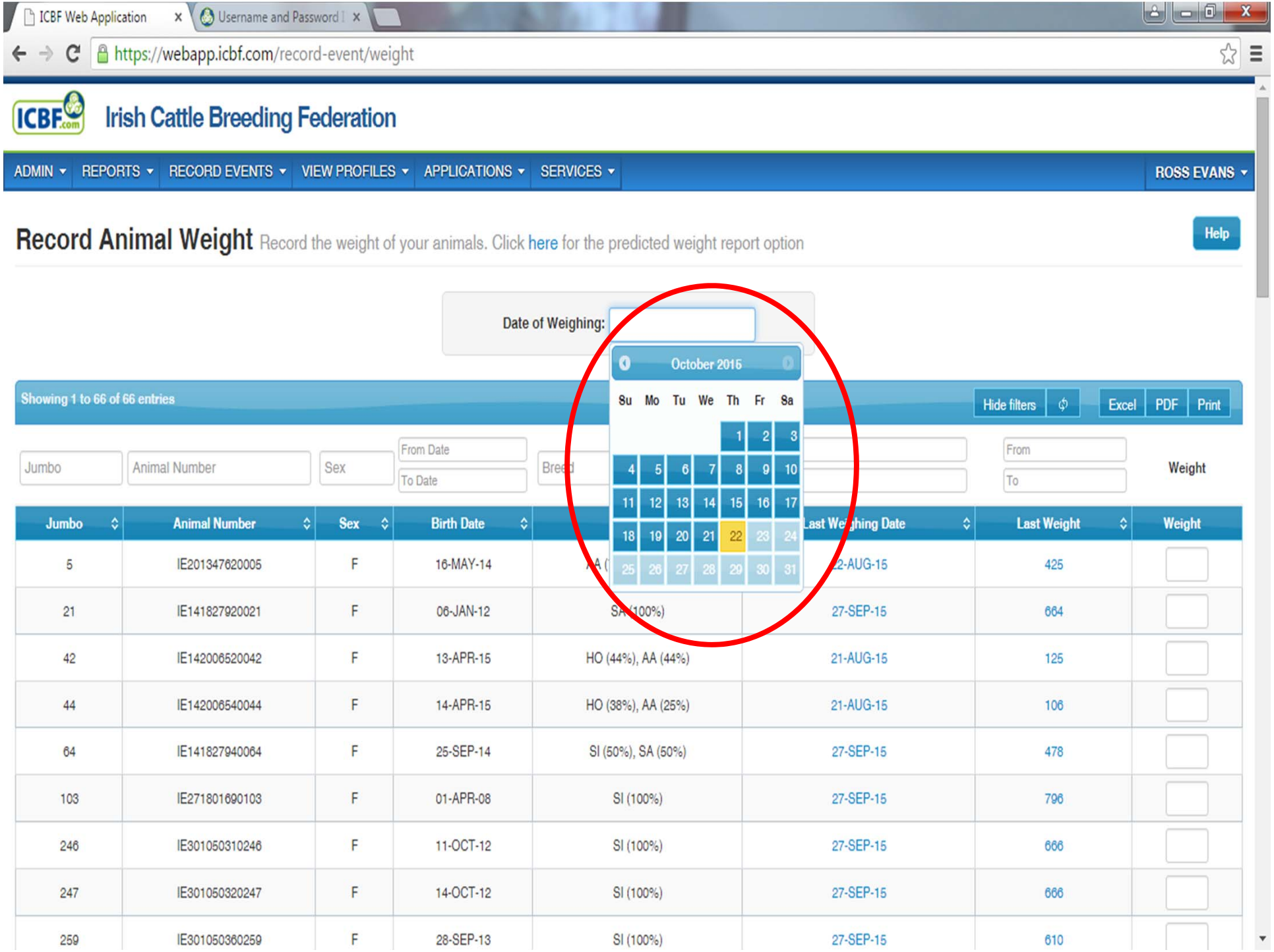
Weight
5 IE201347620005 F 16-MAY-14 AA (75%), HO (16%) 22-AUG-15 425
21 IE141827920021 F 06-JAN-12 SA (100%) 27-SEP-15 664
42 IE142006520042 F 13-APR-15 HO (44%), AA (44%) 21-AUG-15 125
44 IE142006540044 F 14-APR-15 HO (38%), AA (25%) 21-AUG-15 106
64 IE141827940064 F 25-SEP-14 SI (50%), SA (50%) 27-SEP-15 478
103 IE271801690103 F 01-APR-08 SI (100%) 27-SEP-15 796
246 IE301050310246 F 11-OCT-12 SI (100%) 27-SEP-15 666
247 IE301050320247 F 14-OCT-12 SI (100%) 27-SEP-15 666
259 IE301050360259 F 28-SEP-13 SI (100%) 27-SEP-15 610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Date of Weighing:
October 2016
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1 2 3
4 5 6 7 8 9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30 31
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Excel
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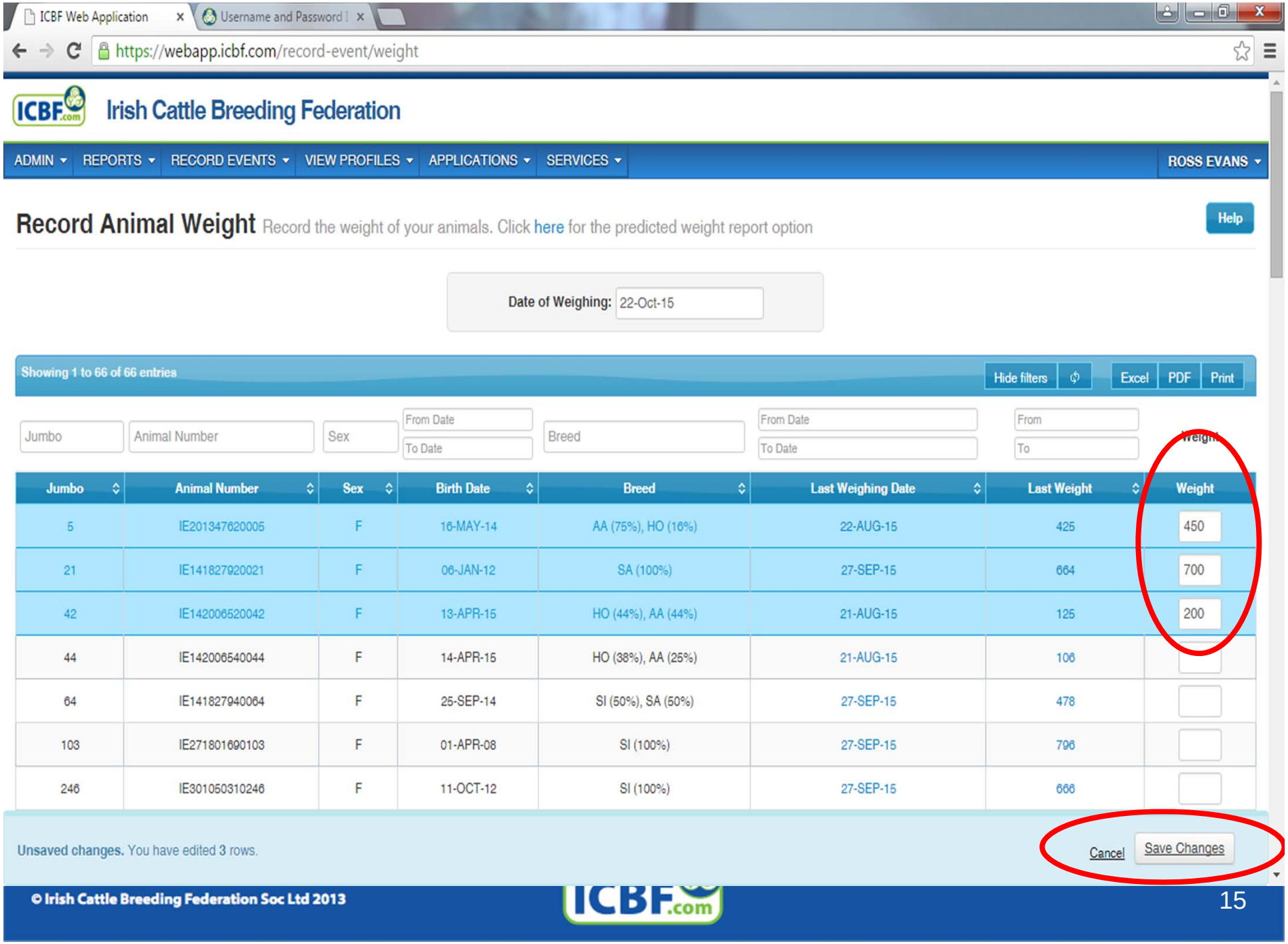
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ARTICLE HEADLINE	DATE
Replacement strategy – stock bulls	24th October
What is Data Reliability?	17th October
Understanding Euro-Star ratings	10th October
What is Genomics?	3rd October
Recording your BDGP data online	26th September
Data recording forms arriving on BDGP farms	19th September
Tissue tags arriving on BDGP farms	12th September
Welcome to the new BDGP page from ICBF	5th September

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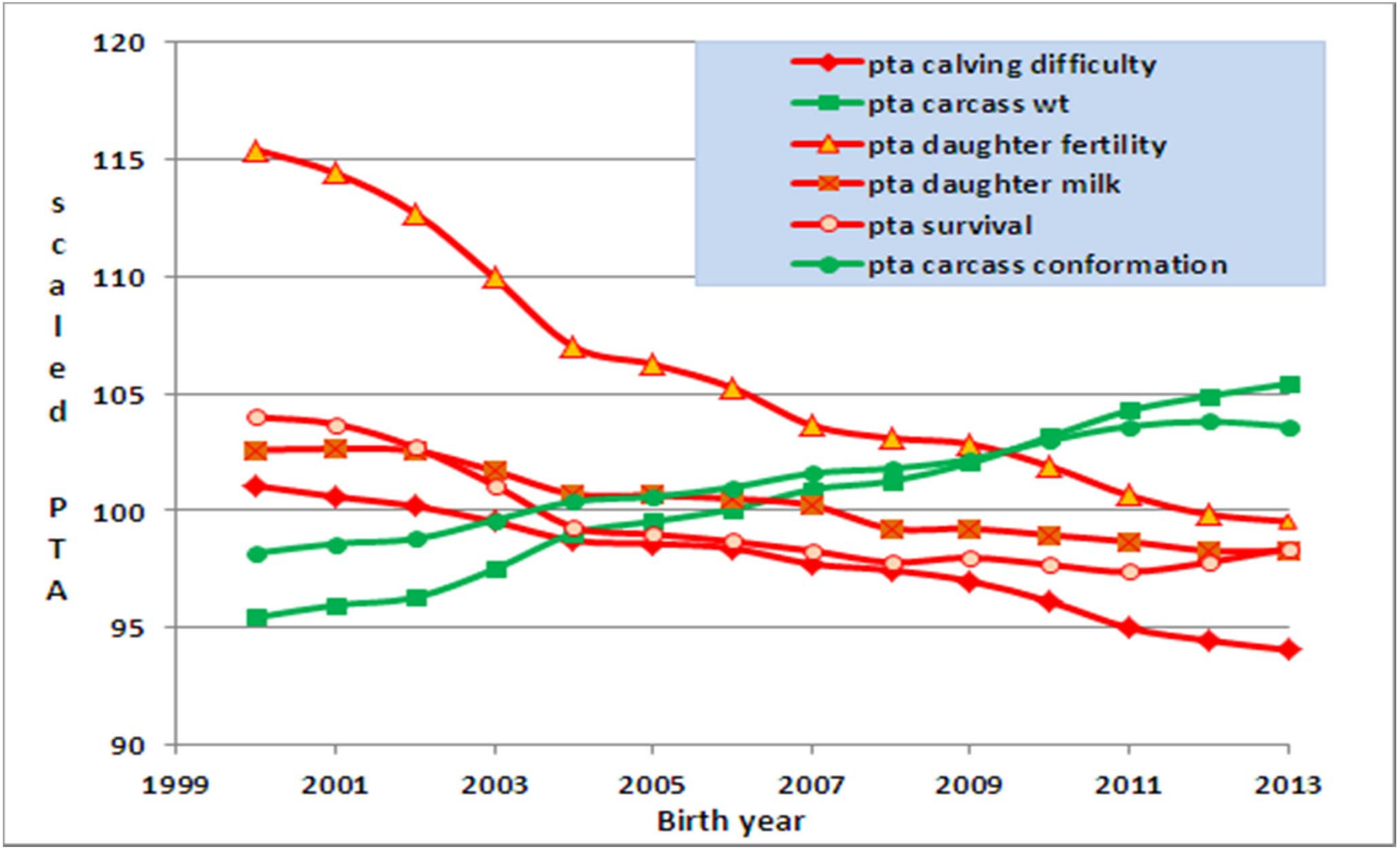
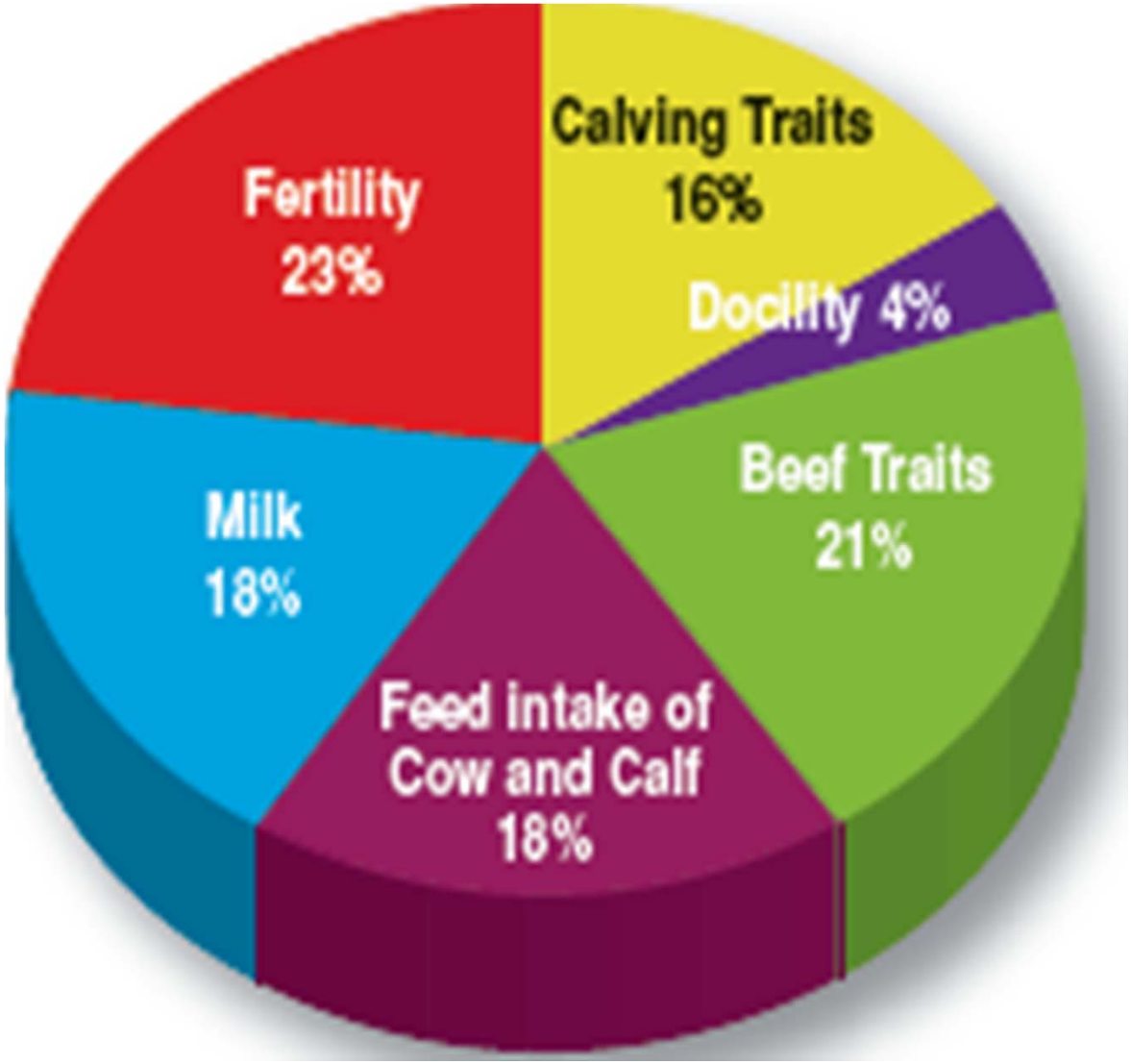
Summary

- Genomic/DNA data will soon feed into indexes
- Online recording is an alternative to paper based
- Instant indicator as to the level of data recorded
- Other data recording is available too
    - Missing sires
    - Weights
    - Health events
    - Articles related to breeding/BDGP scheme
- Alternative online recording option will be available soon through agfood.ie (DAFM website)

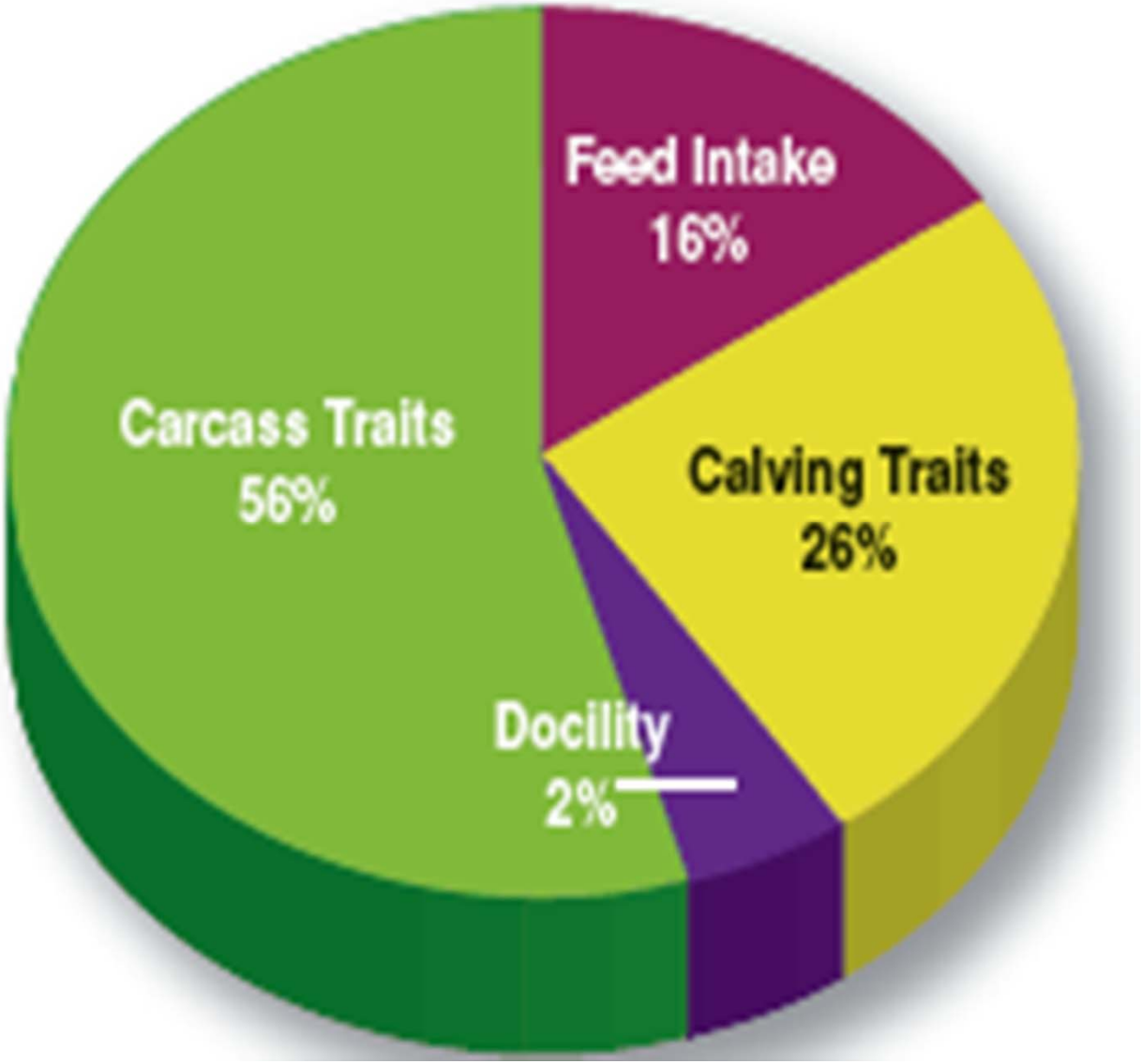
Genetic Impact on Suckler Herd



Replacement Index



Terminal Index



5 Star v 1 Star Cows

BDGP Cows			Fertility				Milk		Carcass	
ICBF €uro - Stars	Replacement Index	Number of cows	Number of Calvings	Age at 1st Calving	Calving Interval	% Alive after 7 years	Growth of Calves	Farmer Milk Score	Carcass Weight of progeny	Age at slaughter of progeny
★★★★★	€124	25,311	4.33	971 days	399 days	72%	1.17	4.11	363 kgs	752 days
★★★★	€85	19,776	4.03	988 days	405 days	66%	1.12	3.86	359 kgs	772 days
★★★	€64	16,020	3.82	1000 days	409 days	62%	1.09	3.75	358 kgs	784 days
★★	€44	16,823	3.71	1007 days	413 days	59%	1.09	3.69	358 kgs	783 days
★	€8	19,793	3.46	1022 days	420 days	52%	1.06	3.48	359 kgs	791 days
Difference			+0.87	-51 days	-21 days	+20%	+10%	+15%	+4kgs	-39 days

Above analysis was performed on the 97,723 suckler cows that were born in 2008, in herds that joined the BDGP in 2015.

5 Star Cows:

1. Produce more calves, go back in calf quicker and survive longer.
2. Have more milk & rear calves with better growth rates.
3. Produce cattle which finish earlier with heavier carcasses.