



IRISH CATTLE BREEDING FEDERATION

Data Recording and New Developments #ISGC18



Kevin Downing



#ISGC18

Introduction

- HerdPlus Overview
- Data Recording
- HerdPlus & LambPlus Apps
- Data in the database
- New Sensor Technologies
- New Developments

HerdPlus Overview



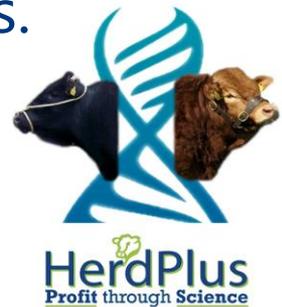
- HerdPlus: ICBF's subscription service.
- Membership: ~8,800 Dairy & ~16,800 Beef
- Web Site: 753k logins YTD (+12%)
 - Online Applications e.g. Catalogue, ePM, KT, etc.
 - Sire Advice: ~3.5k herds; C.O.W.: ~13,000 runs
- Aim to increased number of farmers actively engaged.
- Data Ownership Policy: Data is owned and controlled by the farmer for the benefit of farmers & national good.

Data Recording



- Data is the lifeblood of ICBF.
- Think of the ICBF database as a huge jigsaw puzzle.
- The more pieces of the “puzzle” we have (data), the more complete the “picture” (genetic indexes) will be.
- Recording sires, calving ease, milk recording, liveweights, inseminations, etc. all feed into genetic evaluations.

Rubbish In = Rubbish Out



Increase in Data Recording (2013 - 2017)

Milk

Milk Recorded 689,721 (up 22%)
Dry offs 518,469 (up 29%)

Fertility

AI Serves 1,176,106 (up 32%)
Natural Serves 121,818 (up 12%)

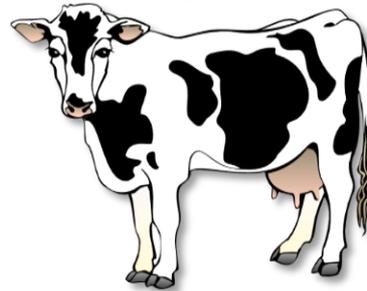
Calving

Sire Recorded 1,610,110 (up 14%)
Calving Ease 1,818,906 (up 12%)

Beef

Carcass Wgts 1,653,292 (up 18%)

Dairy EBI



Beef Euro-Star



Health

Mastitis records 20,876 (up 56%)
Lameness records 5,374 (up 29%)

Management

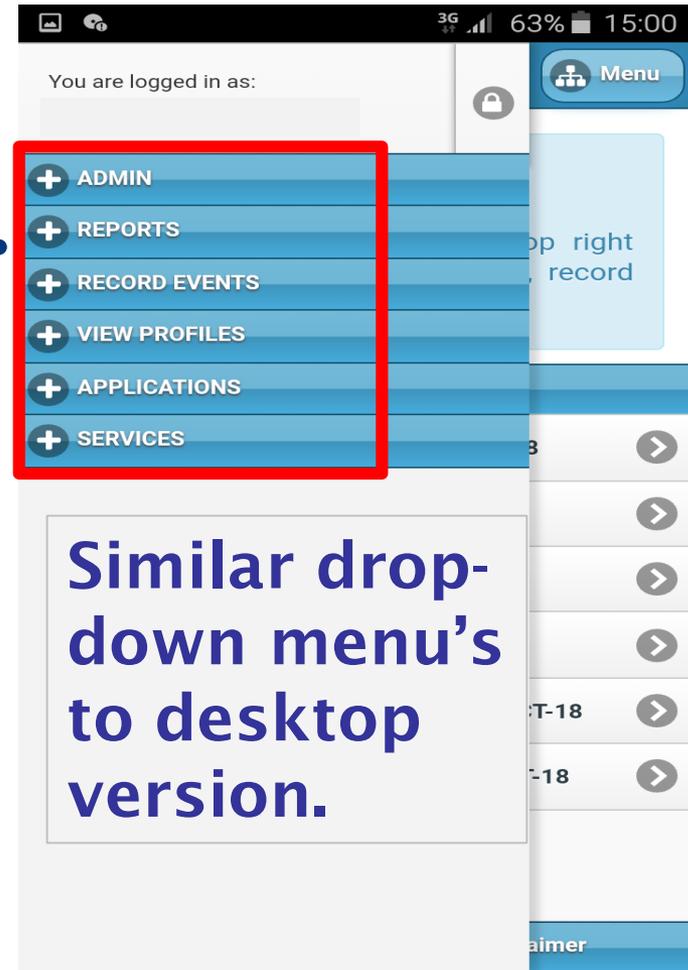
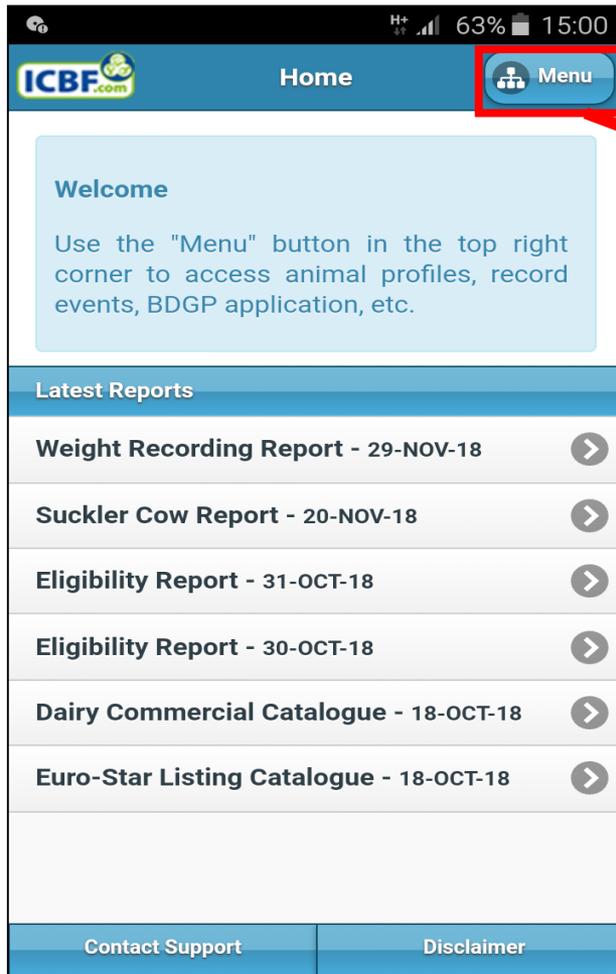
Docility/Temp 556,459 (up 45%)

Maintenance

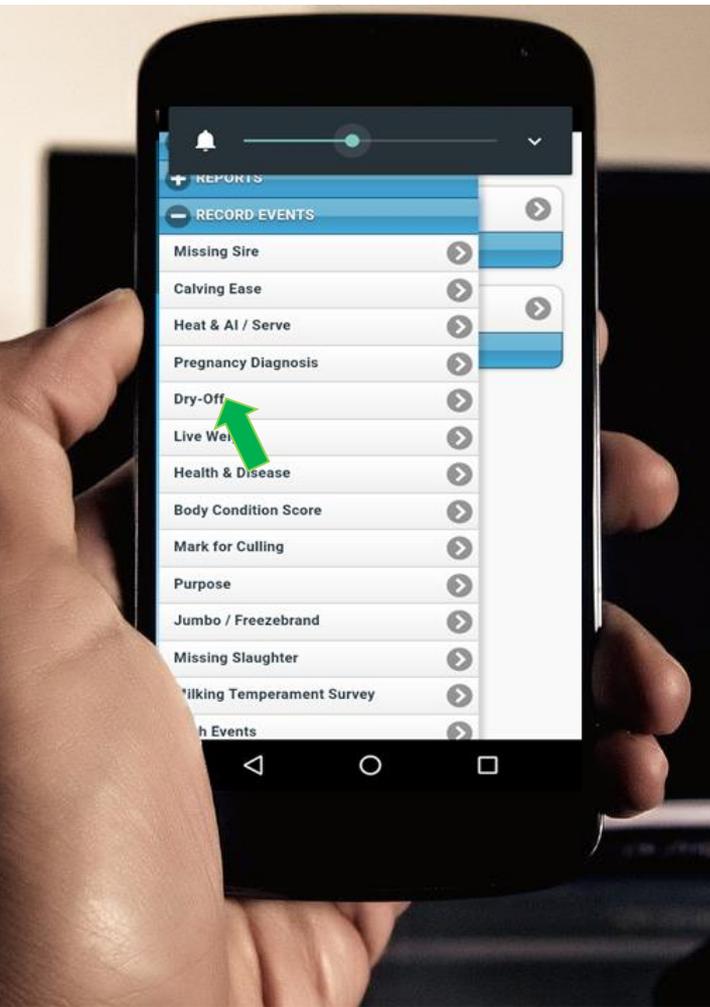
Cow Live Wgts 205,870 (up 24%)



HerdPlus App



HerdPlus App – Record Events



The screenshot shows the 'Record Dry Off Events' screen in the HerdPlus app. The top bar is blue with the ICBF logo and the text 'Record Dry Off Events'. Below the top bar, there's a 'Date of Dry Off' field. A search bar is present. The main content area shows a table with the following data:

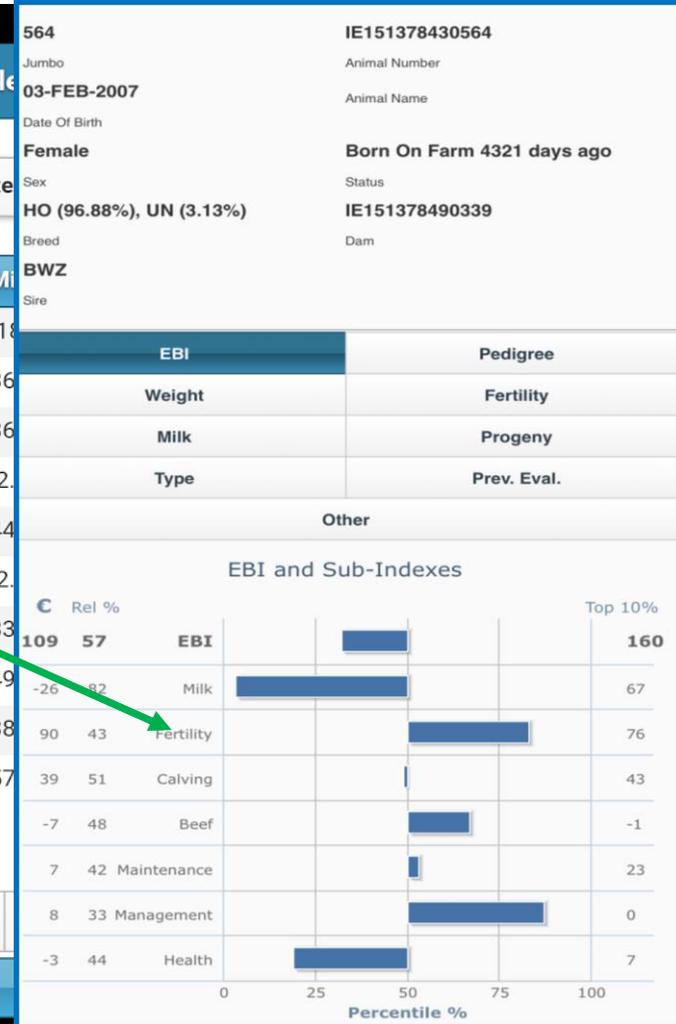
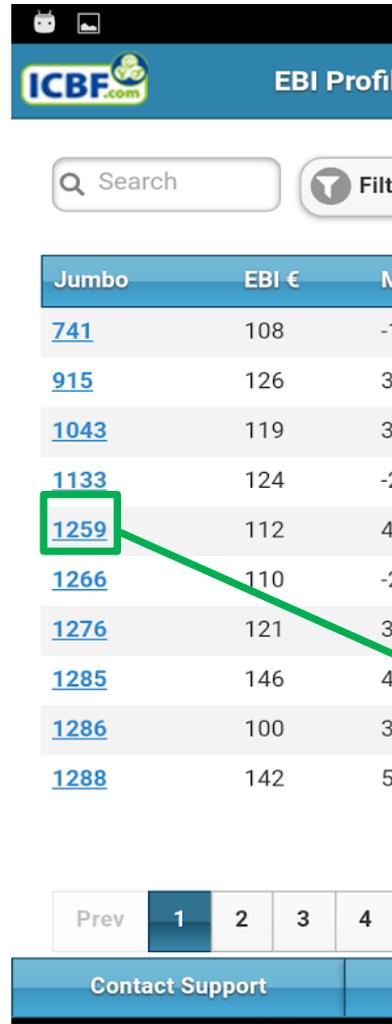
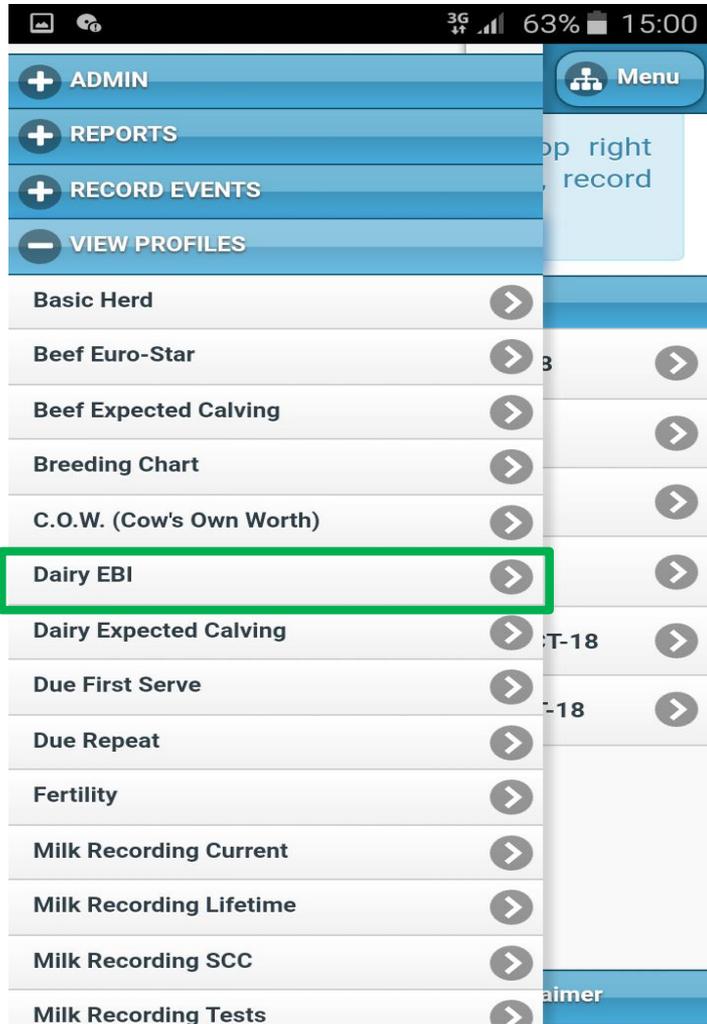
IE151378430564	
JUMBO	564
LACT	10
CALVING DATE	10-FEB-18
DAYS IN MILK	296
DAYS TO CALVING	94
DRY OFF DATE	
TREATMENT	

Below the table, there's a dropdown menu for 'Dry Off Treatment' with a green box around it. A green arrow points from this dropdown to a larger, expanded view of the dropdown menu on the right. The expanded menu shows the following options:

- Dry Off Treatment (checked)
- Dry Cow Tube
- Dry Tube and Sealer
- Teat Sealer Only
- No Treatment

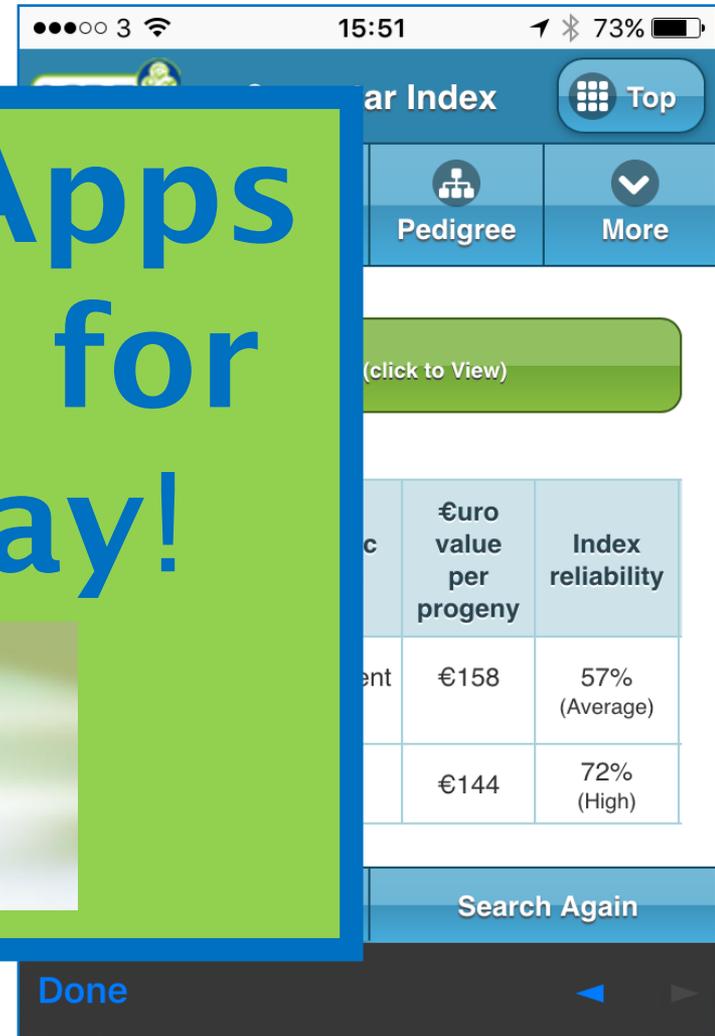
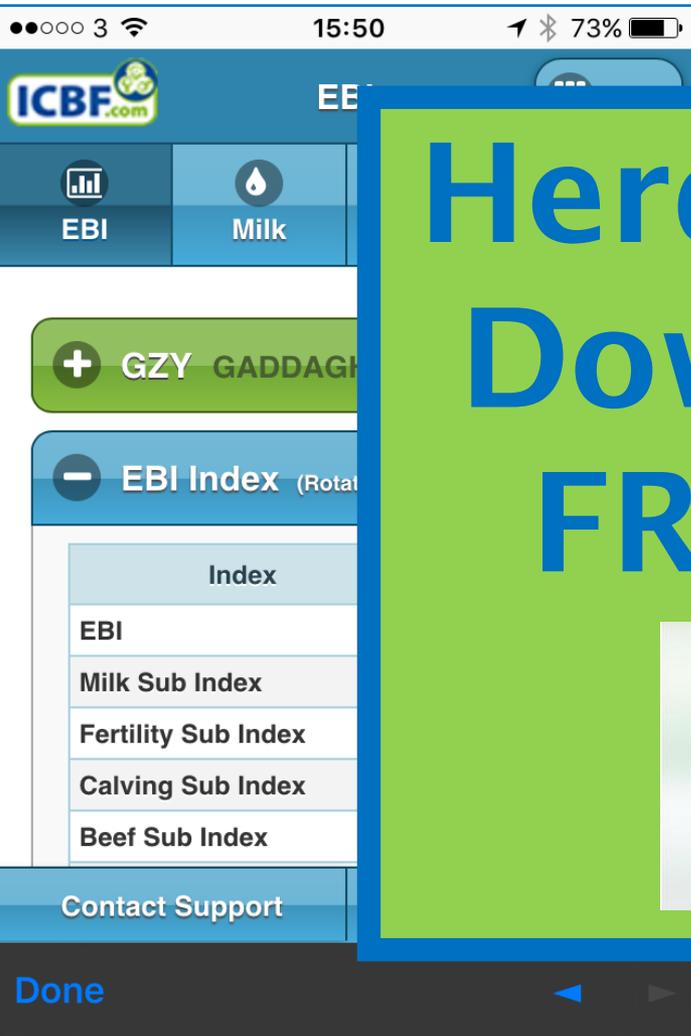
At the bottom of the expanded menu, there's a button labeled 'Dry Off Treatment' with a dropdown arrow.

HerdPlus App – Herd Profiles



HerdPlus App – Animal Search

**HerdPlus Apps
Download for
FREE today!**



LambPlus App

- Free to LambPlus members
- Works on & offline
- Bluetooth technology – connects to an EID reader
- Ability to record:
 - Lambing info
 - Weight info
 - Health info
 - Mating info
- What's next?
 - Pregnancy recording
 - Animal movements



Sheep Ireland
www.sheep.ie

LambPlus App

available now!

Do you want to record your flock but don't know where to start?

Our newly released LambPlus App is currently available to all LambPlus breeders free of charge. This new phase of data recording makes it easier for LambPlus members to performance record their flock.

Lambing information, weights and health records (mastitis, lameness, BCS, dag score etc.) can all be recorded instantly via your smartphone.

Other features

- Bluetooth technology allows you to connect an EID reader to the App, making data recording quick and easy.
- Offline Capability allows you to record information without an internet connection.

Benefits

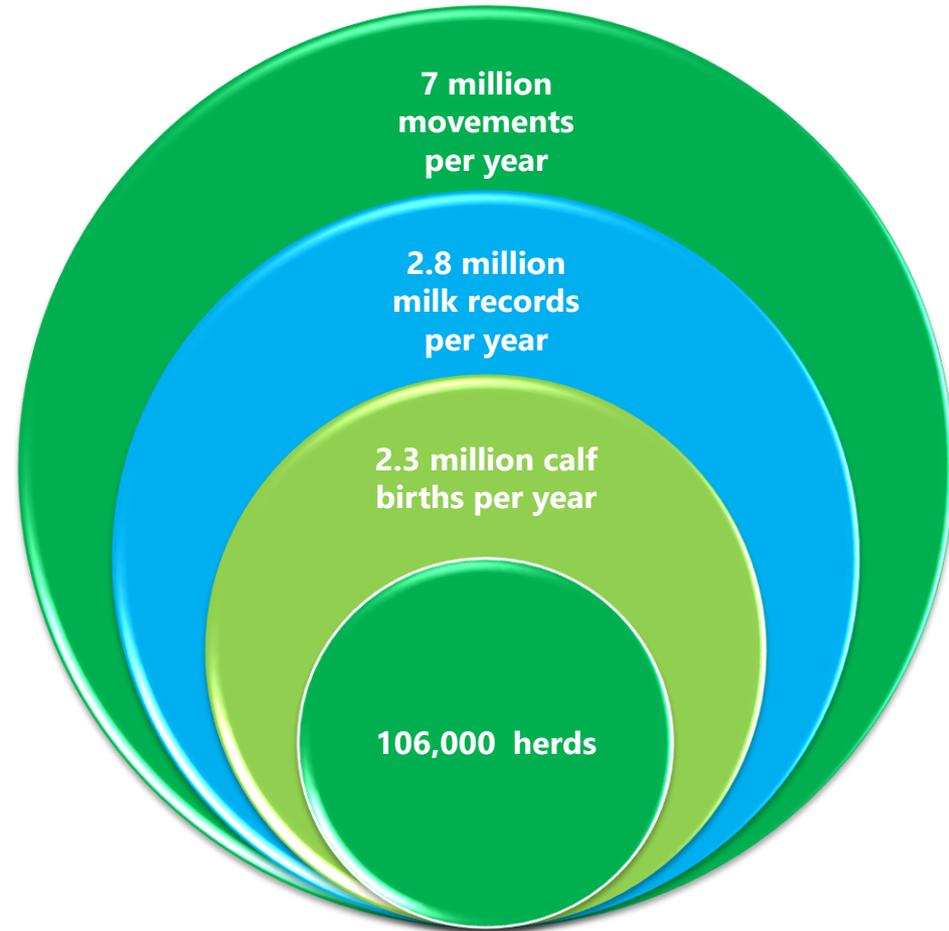
- Saves time
- User friendly
- Quick and easy to use
- More accurate Records
- Information uploaded straight to the Sheep Ireland database.
- LambPlus Reports
- Identifies the most profitable genetics in your flock

Join LambPlus and download for free, contact 023 882 0451 to sign up today!

Where to find it?

Data in the ICBF Database

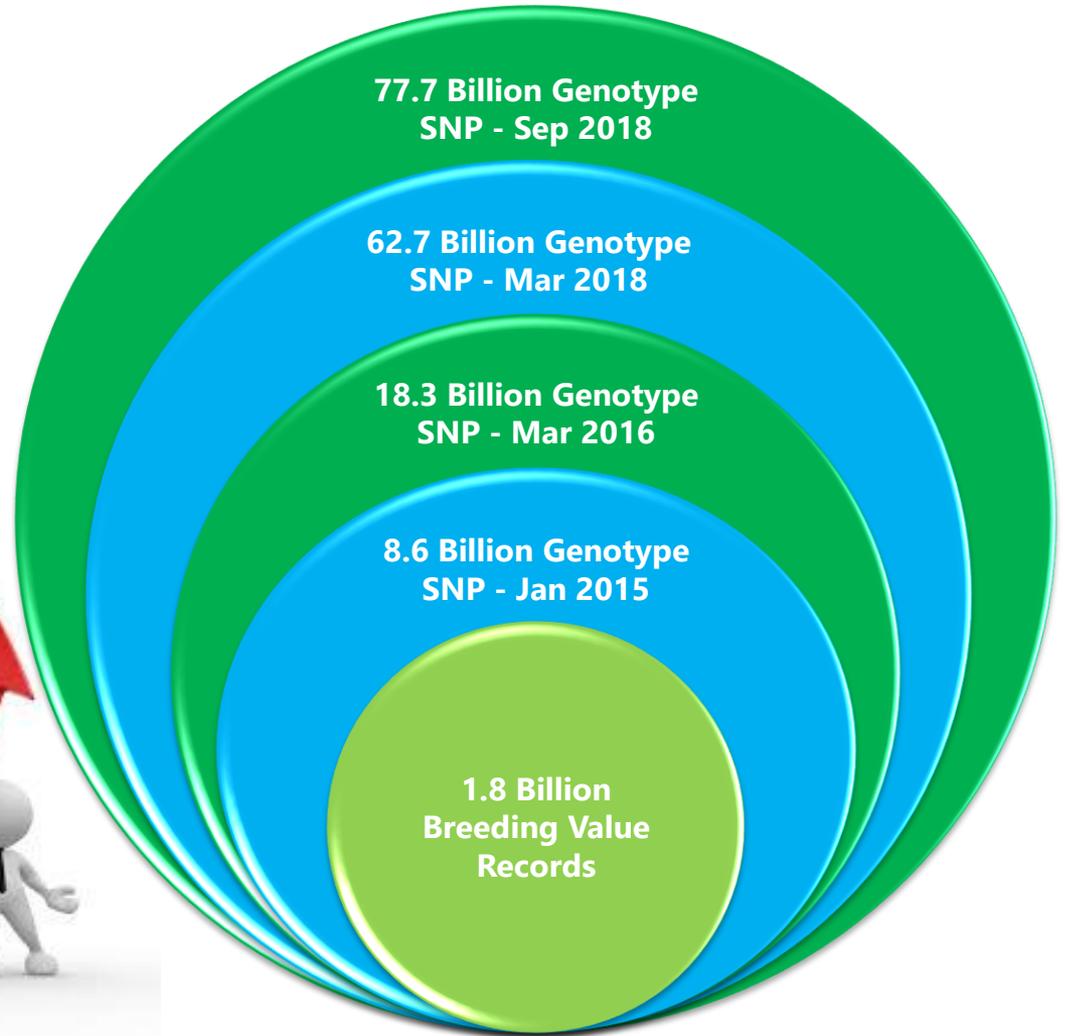
- Herds: 106k
- Live Animals: 6.2m
- Calving Records: 2.3m/yr
- Milk Recording: 2.8m/yr
- Farm Movements: 7m/yr
- Slaughter Data: 2m/yr
- BVD records: 2.3m/y



Data in the ICBF Database



Genotypes in 2018 = 353,580

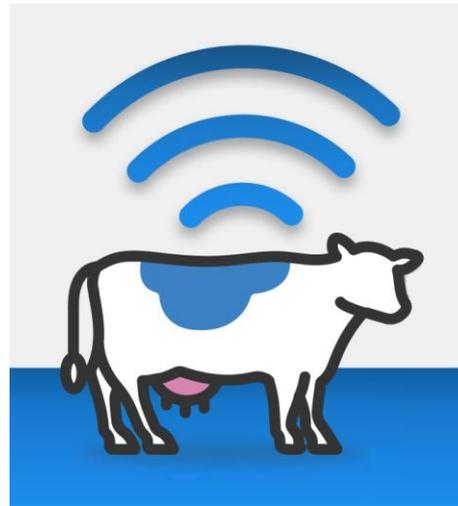


New Sensor Technologies

- Sensors are helping farmers fill the data gap



Lameness detection



Heat Detection



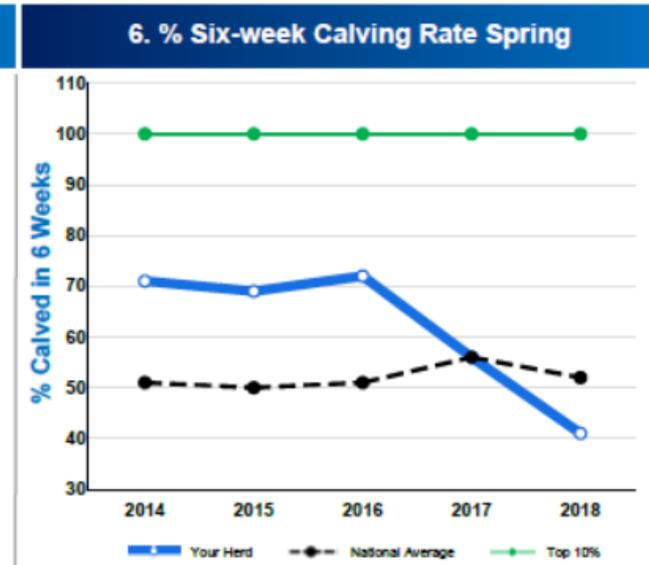
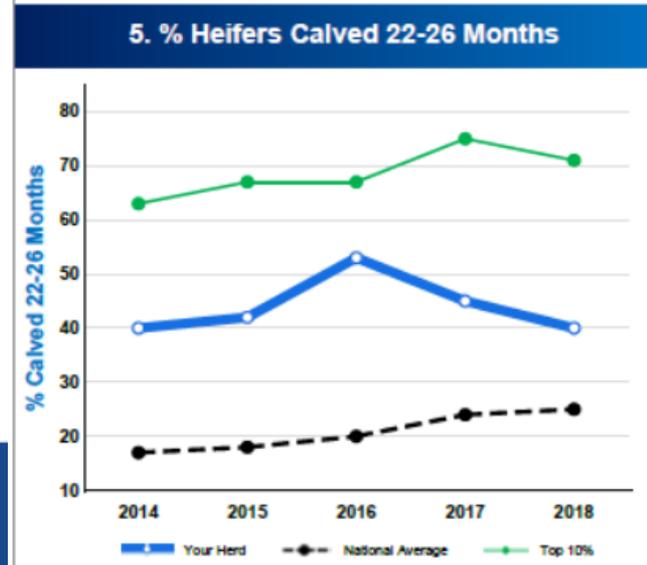
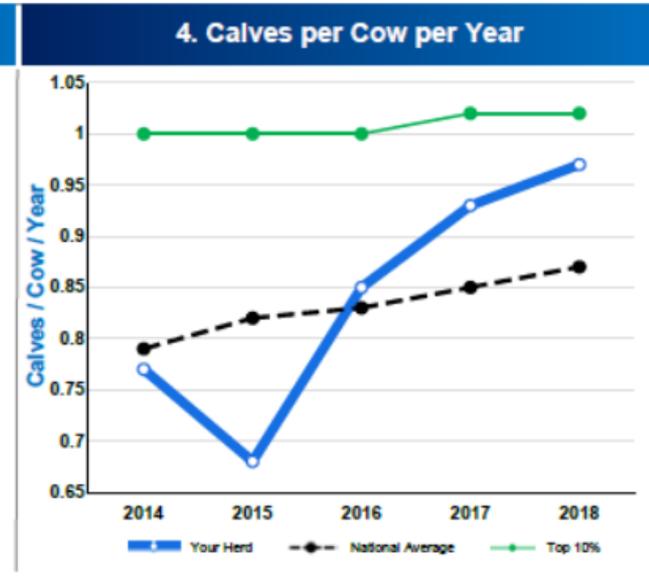
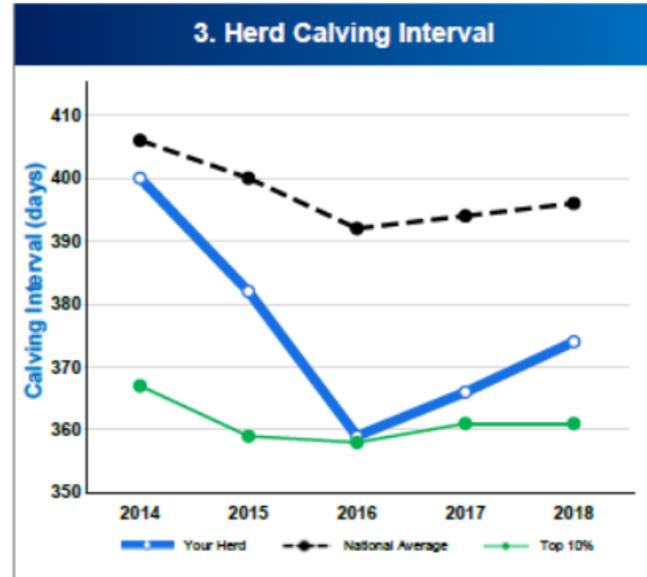
Metabolic disorders



Milk Composition

New Development – 5 Year Trend Report

- Snapshot table of progress over 5-years.
- Graph the progress of herds top six genetic and calving KPI's.
- Compare your herd with the National Avg. and Top 10%.



New Development – 5 Year Trend Report

- Snapshot table of progress over 5-years.

Your Herds Progress Snapshot (2014-2018)			
Improved ↑	No Change =	Disimproved ↓	
1. Replacement Index (Cows)	↑		4. Calves per Cow per Year ↑
2. Replacement Index (1st Calvers)	↑		5. Heifers Calved 22-26 Months =
3. Herd Calving Interval	↑		6. Six Week Calving Rate Spring ↓

7. 2018 Key Performance Indicators

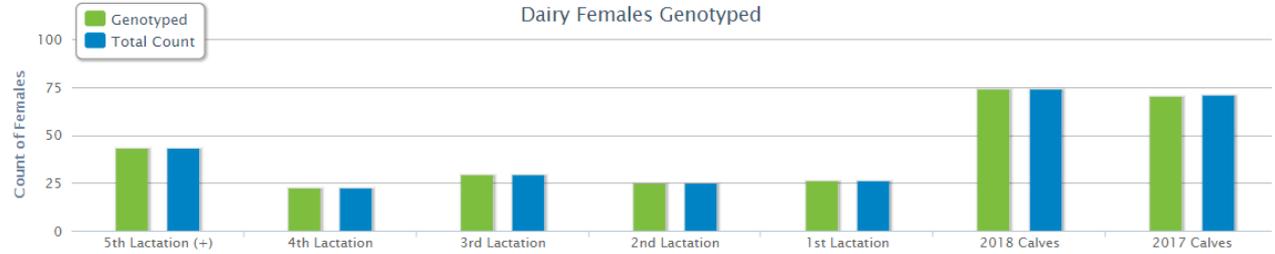
	Your herd Average	National Average	Top 10%	*Your National rank
1. Replacement Index (Cows)	€87	€80	€100	65%
2. Replacement Index (1st Calvers)	€85	€83	€114	50%
3. Herd Calving Interval				
4. Calves per Cow per Year				
5. % Heifers Calved 22-26 months	40%	25%	71%	81%
6. % Six Week Calving Rate Spring	41%	52%	100%	70%

Available from January

New Development – Dairy Genomic Results

Dairy Genomic Evaluation Profile - Dairy animals in the herd with genomic evaluation are only displayed.

Help Help PDF



Genomic EBI Milk SI Fertility SI Calving SI Beef SI

Showing 1 to 289 of 289 entries

Hide filters Excel PDF Print

Animal Details					Current Official Proof							Difference from Non-Genomic Proof						
Fb	Animal Number	Birth Date	Sex	Lact	EBI €	Rel %	Milk €	Fert €	Maint €	Health €	Other €	EBI €	Rel %	Milk €	Fert €	Maint €	Health €	Other €
1029	IE151013751029	09-APR-07	F	10	117	68	36	77	12	0	-8	22	21	-9	28	7	1	-5
1038	IE151013761038	15-SEP-07	F	9	89	68	32	28	-10	9	30	31	21	11	19	-2	-1	4
1293	IE151013761293	24-JAN-10	F	7	93	66	53	111	0	6	21	73	23	26	45	2	2	-2
1296	IE151013791296	26-JAN-10	F	7	106	64	26	54	2	7	16	75	21	0	59	-4	4	16

Available from December

New Apps Under Development



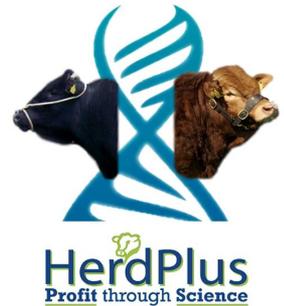
Pilot DNA project



Linear Type Scoring

Available from January

Summary



- Data is the lifeblood of ICBF.
- Integrated cattle breeding databases.
- Collaboration - key aspect of success in cattle breeding.
- Aim to increased number of farmers actively engaged.
- New sensor technologies will continuously enter the market and demand will continuously grow.
- Apps - important part of development in 2019.
- Big Data isn't just about the technical tools used to collect the data but connecting the tools with people.



Our Farmer & Government Representation



Our AI & Milk Recording Organisations



Our Herdbooks



Acknowledging Our Members