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IRISH CATTLE BREEDING FEDERATION

C.O.W. v2

Feedback and plans for the future

Dr Margaret Kelleher

ICBF & Sheep Ireland Genetics Conference 2018

ICBF & Sheep Ireland Genetics Conference 2018
Wednesday & Thursday
5th & 6th December
Hodson Bay Hotel,
Athlone
Sheep Ireland www.sheep.ie
ICBF.com
'Sustainable Farming – Progress through Genetics'

Department of Agriculture, Food and the Marine
An Roinn Talmhaíochta, Bia agus Mara

#ISGC18

Wednesday & Thursday
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Hodson Bay Hotel,
Athlone
Sheep Ireland www.sheep.ie
ICBF.com
'Sustainable Farming – Progress through Genetics'

Farmers feedback

C.O.W.
Cow's Own Worth

190 cows
Tipperary

"I use C.O.W. to identify cows to cull outside of the 'usual suspects'"

40 cows
Cork

"C.O.W. on HerdPlus helps increase my herd profitability"

100 cows
Mayo

"C.O.W is a great tool for identifying cows that are least likely to be profitable going forward"

My 12th lactation cow calves every year and provides the goods is only ranked in the bottom 20% …. [C.O.W. doesn't work]

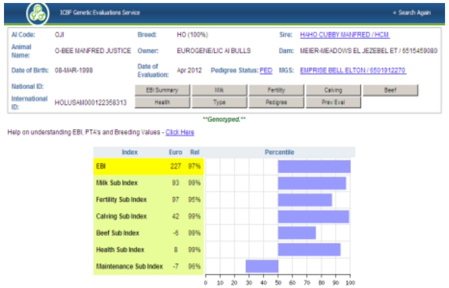
C.O.W. is a decision support tool that ranks dairy females on expected profit for the remainder of their lifetime

- Designed to aid in making informed herd decisions by identifying the expected **least profitable** dairy females **within the herd**
- Using multiple sources of the most **up-to-date information** to rank cows with herd

Farmers feedback

- Why has my best cow ranked poorly today when she was the best on the list yesterday?

C.O.W. = **C**ow's **O**wn **W**orth


ICBF Genetic Evaluations Service
« Search Again

AI Code:	OJI	Breed:	HO (100%)	Sire:	HAHO CUBBY MANFRED / HCM
Animal Name:	O-BEE MANFRED JUSTICE	Owner:	EUROGENE/LIC AI BULLS	Dam:	MEIER-MEADOWS EL JEZEBEL ET / 6515459080
Date of Birth:	08-MAR-1998	Date of Evaluation:	Apr 2012 Pedigree Status: PED	MGS:	EMPRISE BELL ELTON / 6501912270
National ID:					
International ID:	HOLUSAM000122358313				

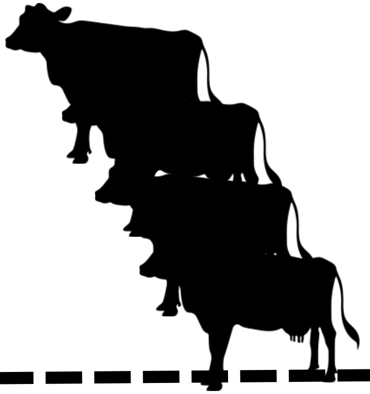
EBI Summary
Milk
Fertility
Calving
Beef
Health
Type
Pedigree
Prev Eval

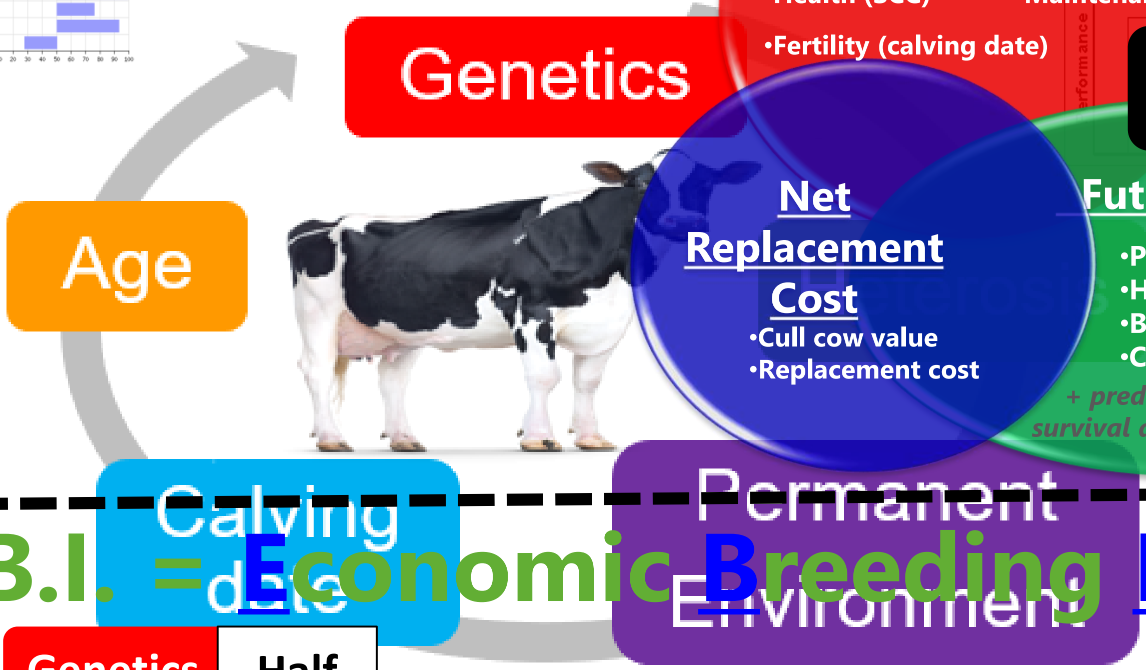
Genotyped.

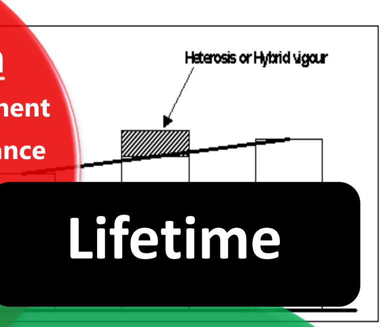
Help on understanding EBI, PTA's and Breeding Values - Click Here

Index	Euro	Rel
EBI	227	97%
Milk Sub Index	93	99%
Fertility Sub Index	97	95%
Calving Sub Index	42	99%
Beef Sub Index	-6	99%
Health Sub Index	8	99%
Maintenance Sub Index	-7	96%

Percentile
0
10
20
30
40
50
60
70
80
90
100




Genetics
Age
Calving date
Permanent Environment



Lifetime

Current Lactation

- Production
- Management
- Health (SCC)
- Maintenance
- Fertility (calving date)

Net Replacement Cost

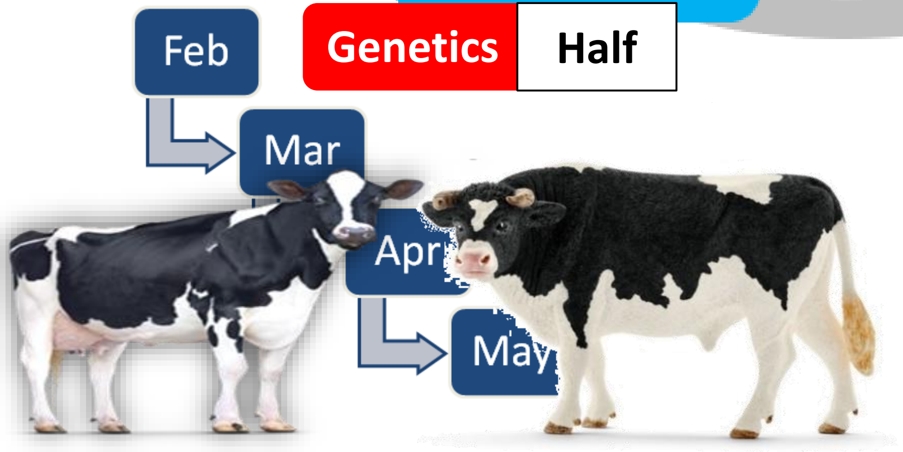
- Cull cow value
- Replacement cost

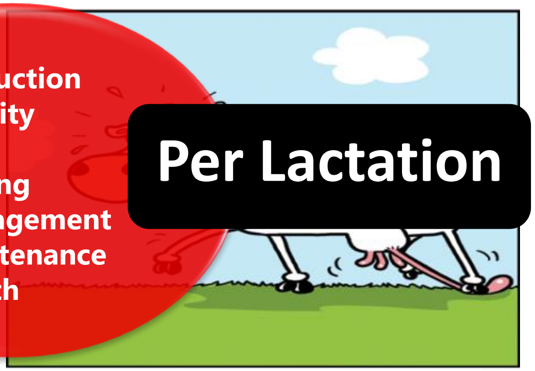
Future Lactations

- Production
- Management
- Health
- Maintenance
- Beef
- Fertility
- Calving
- Descendants

+ predictions on fertility, survival and SCC performance

E.B.I. = **E**conomic **B**reeding **I**ndex


Genetics
Half
Feb
Mar
Apr
May

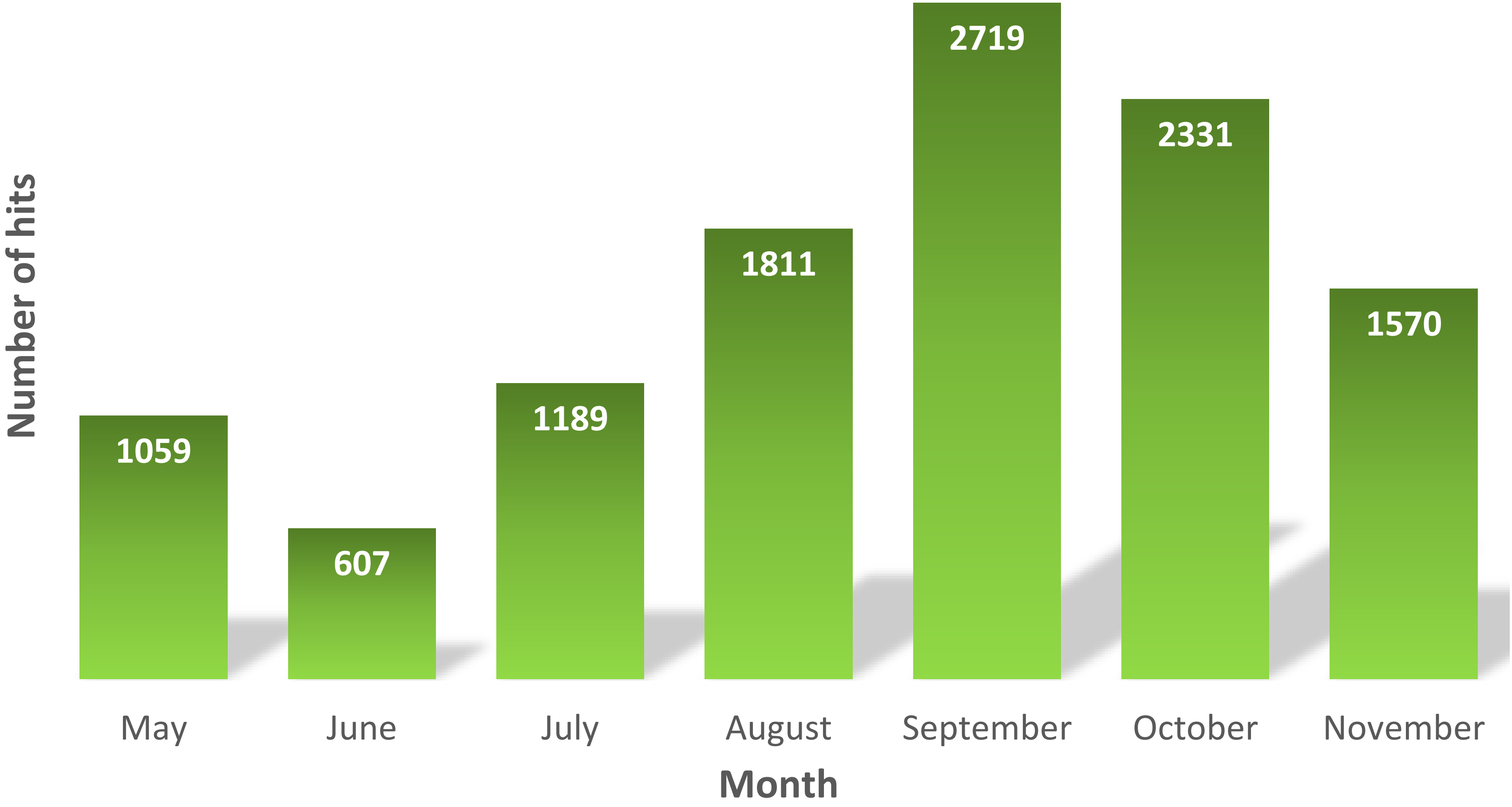


- Production
- Fertility
- Beef
- Calving
- Management
- Maintenance
- Health

Per Lactation

Feedback

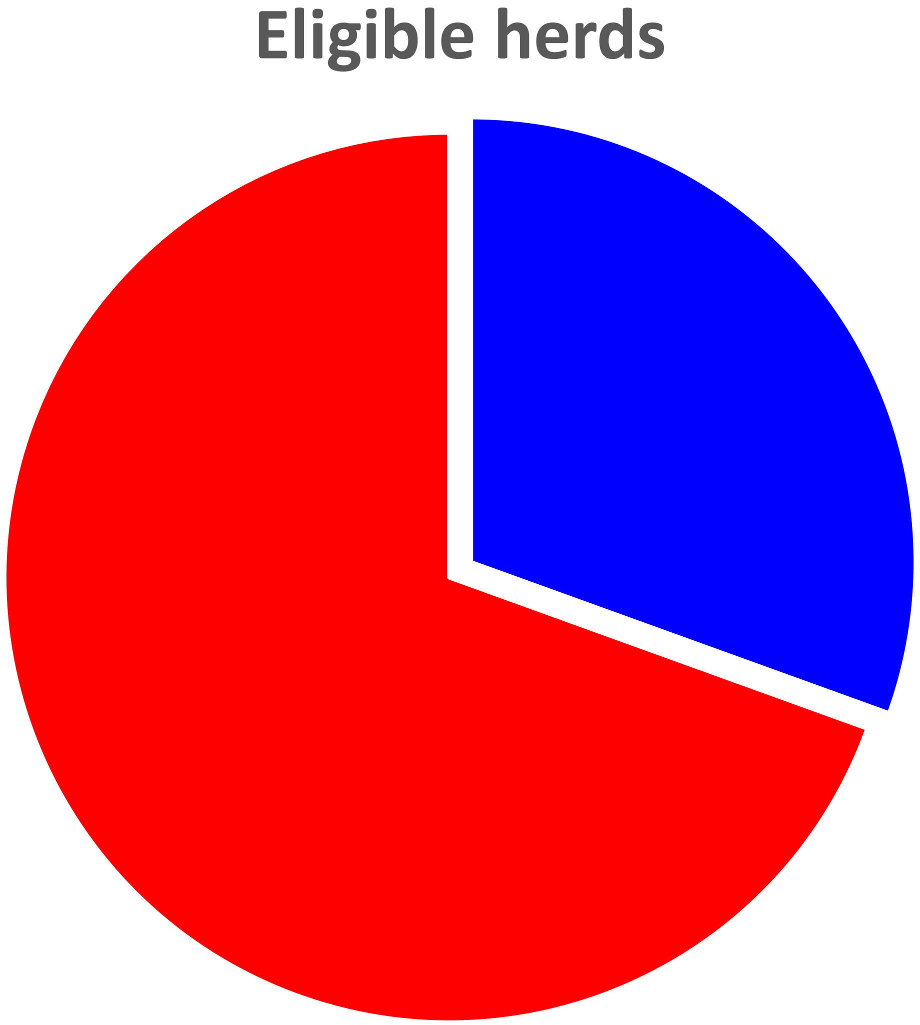
Frequency of hits on C.O.W. profile 2018



Feedback

30% of herds used C.O.W.

- 1500+ herds
- 175,000+ cows ranked through C.O.W. since May 2018



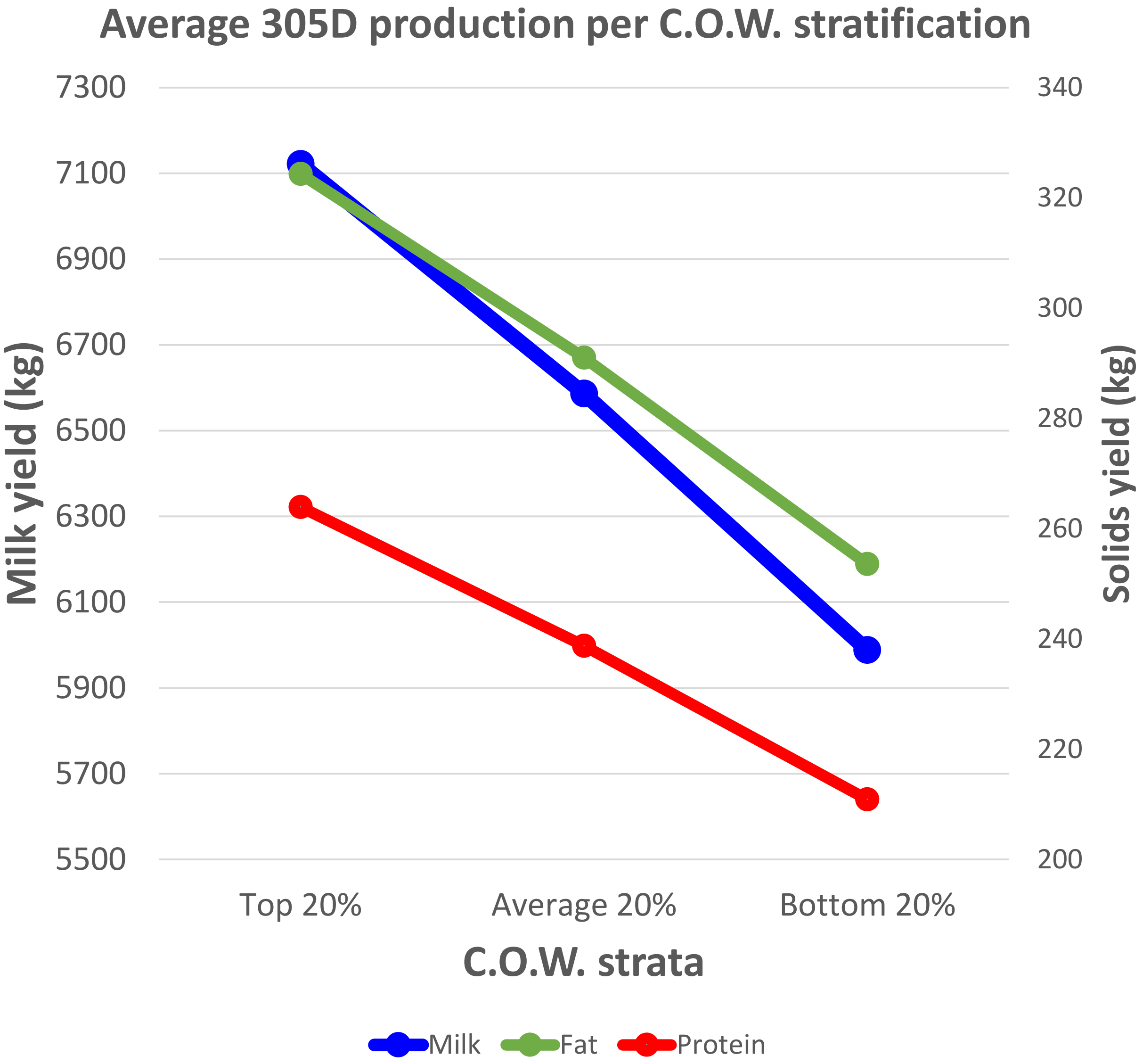
Analysis on herds using C.O.W.

Production differences between top and bottom 20%

- 1133 kg less milk
- 71 kg less fat
- 53 kg less protein

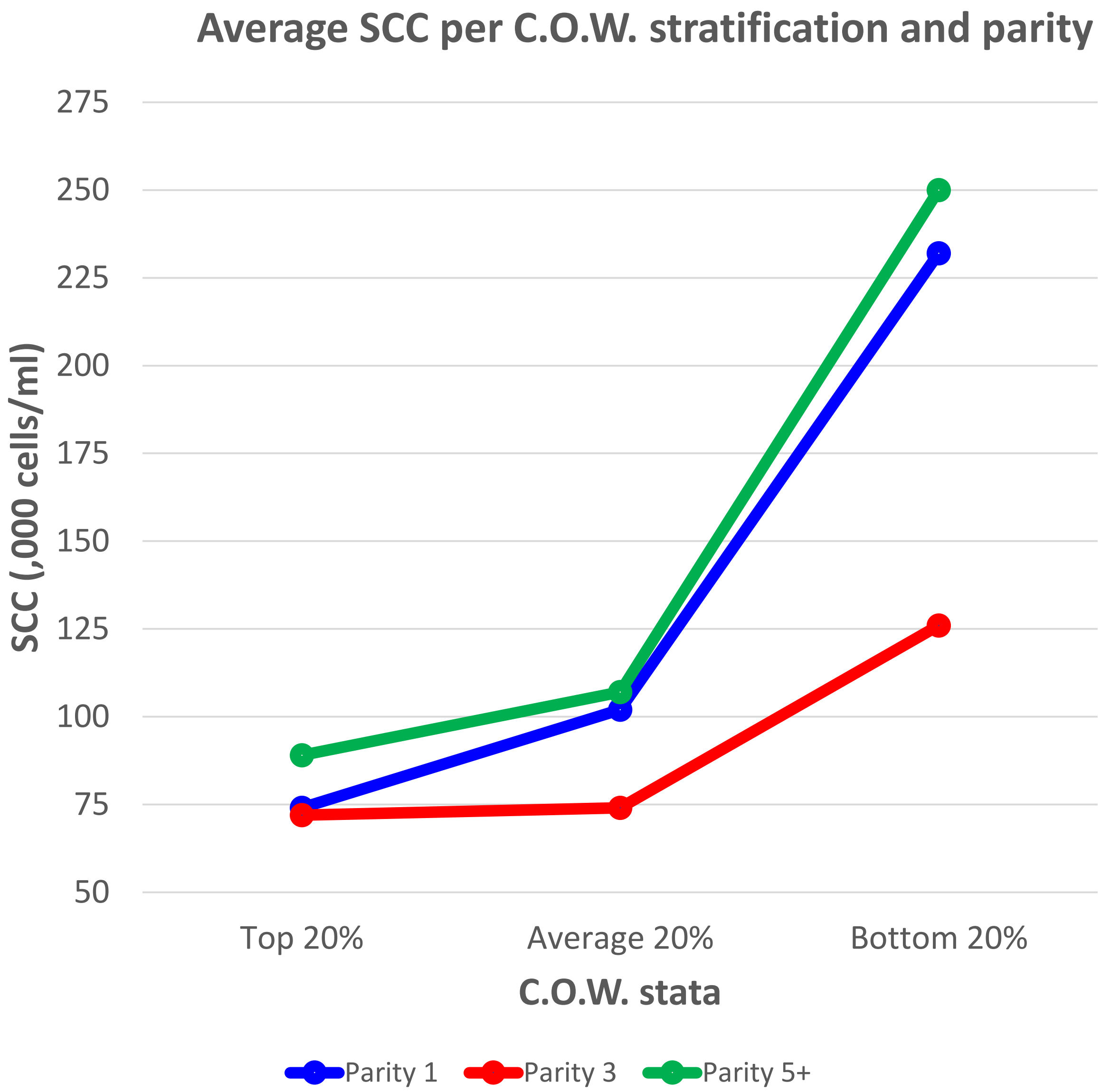
€558 loss

€11,155 in a 100 cow herd

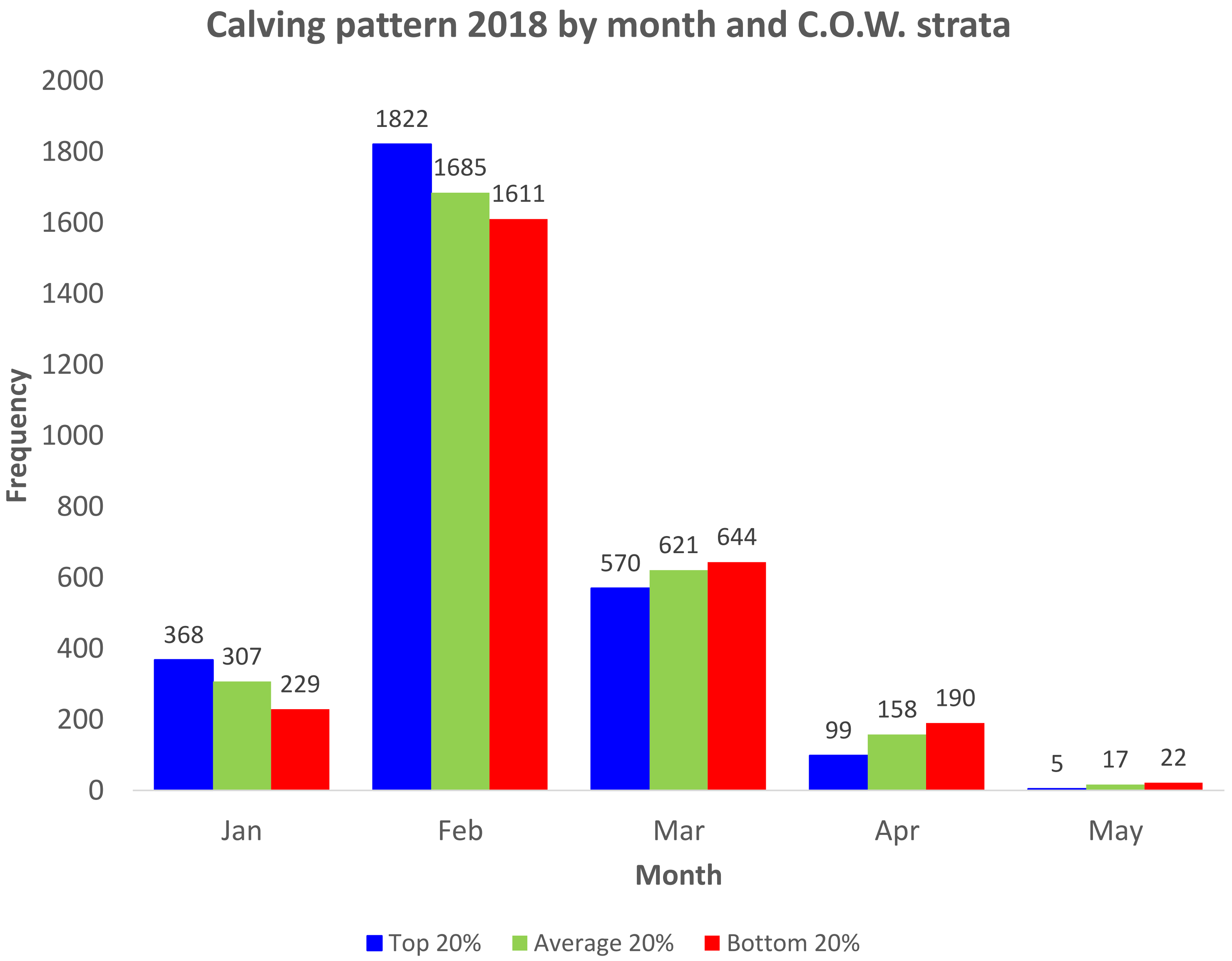


Analysis on herds using C.O.W.

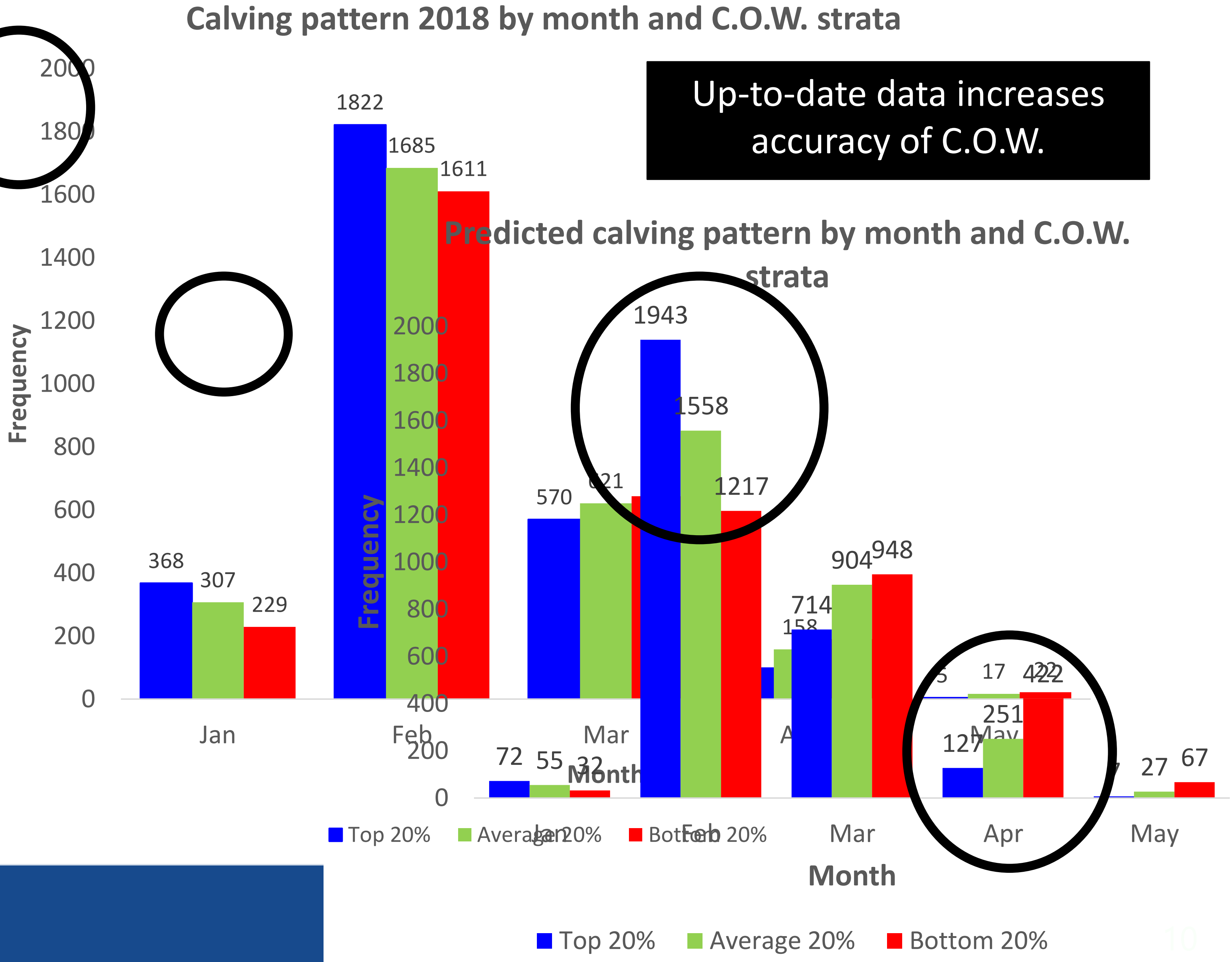
SCC differences between top and bottom 20% by parity



Analysis on herds using C.O.W.



Analysis on herds using C.O.W.



Calving pattern 2018 by month and C.O.W. strata

Predicted calving pattern by month and C.O.W. strata

Up-to-date data increases accuracy of C.O.W.

C.O.W.
Beyond 1 dimension

Last year → **Today** → **One years time** → **Two years time** → **Three years time** → **Four years time**

Two cows TODAY

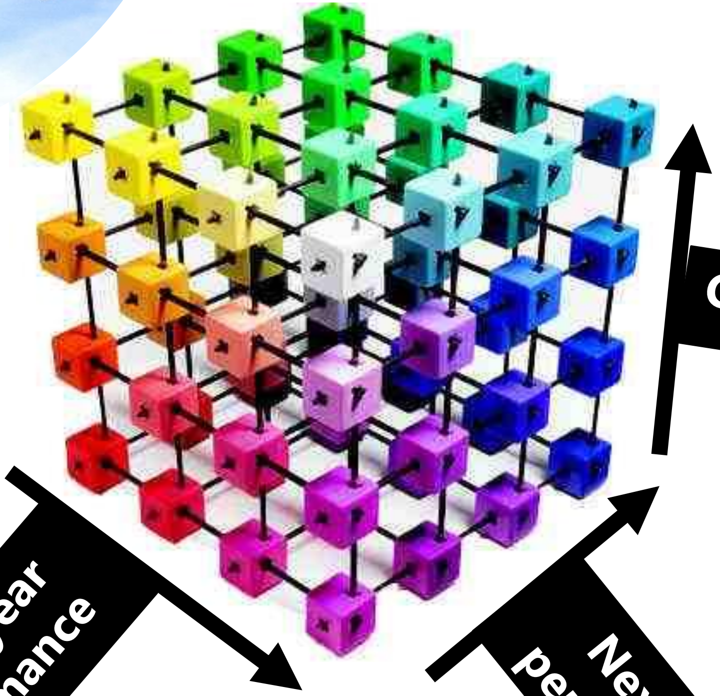
- Same details
- Same point in time today

As a herd manager, ask yourself?

- ❖ Do these cows have the same FUTURE?
- ❖ Can you remember if these cows had the same PAST?

How do we predict future performance??

- Fertility
- Survival
- SCC

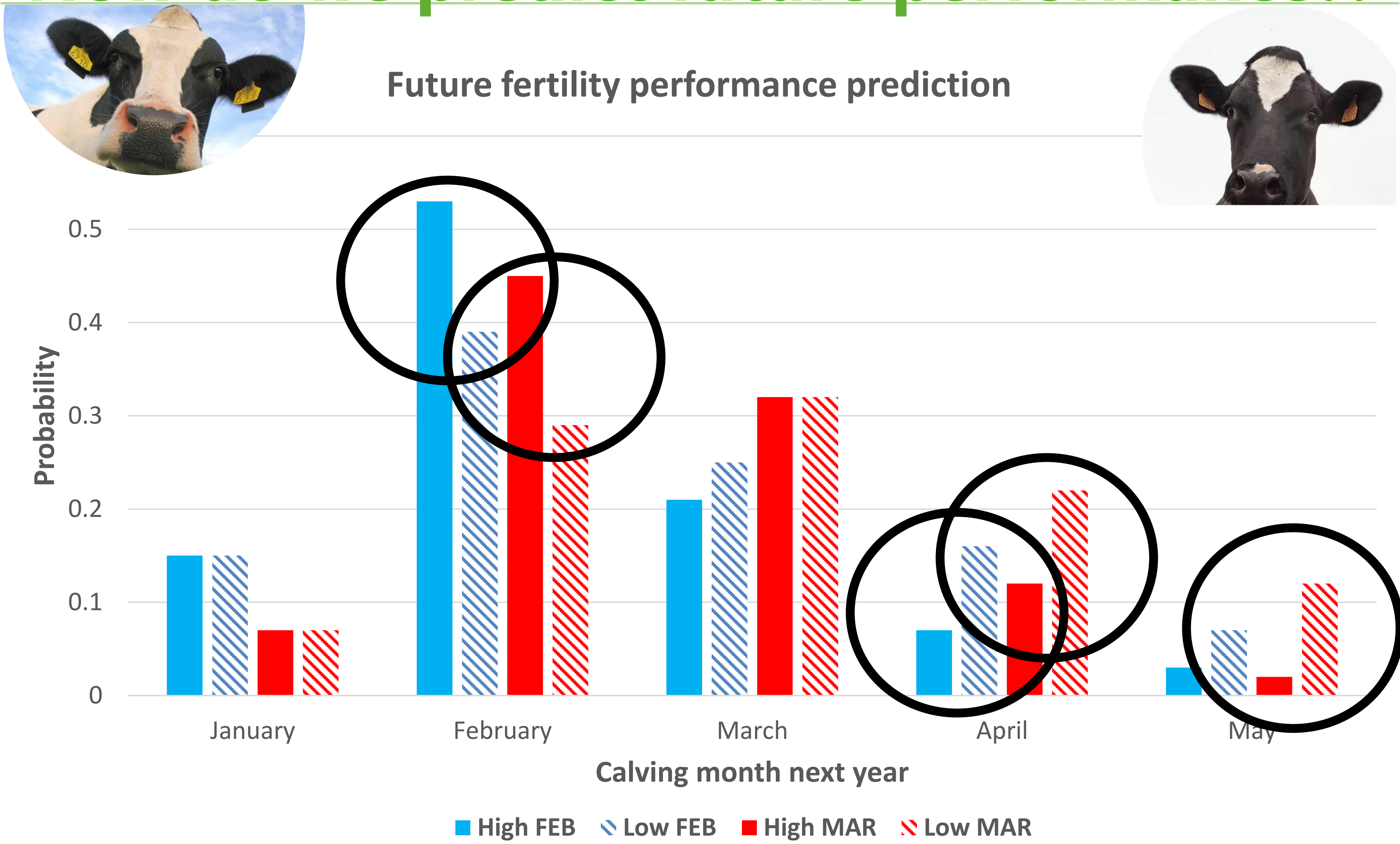


Genetic merit group

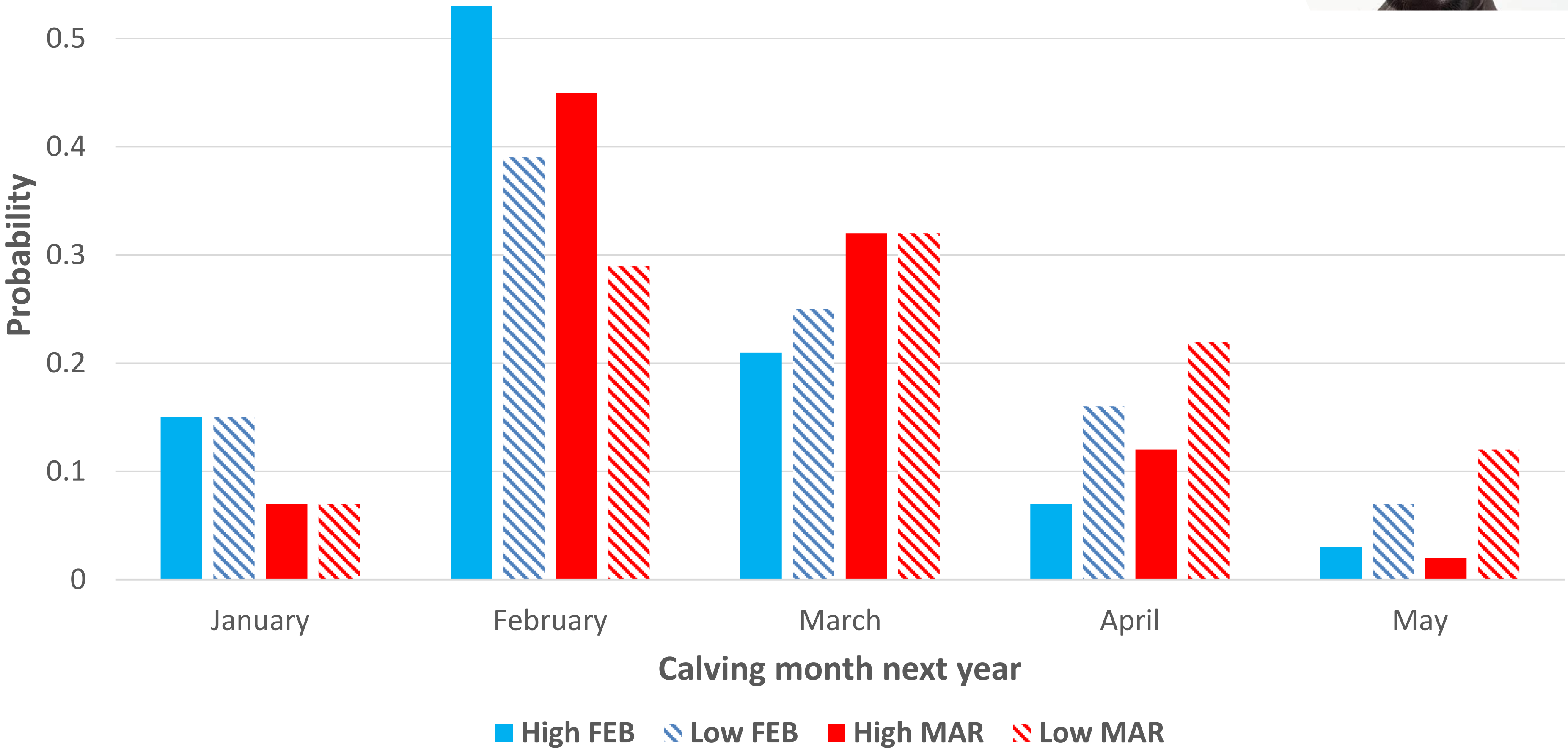
Current year performance

Next year performance

How do we predict future performance??

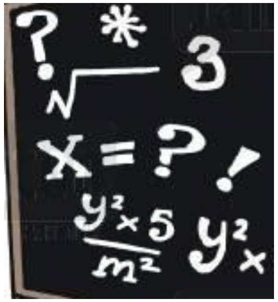


How do we predict future performance??



Future fertility performance prediction

FUTURE PREDICTIONS



EBI REPORT

FERTILITY REPORT

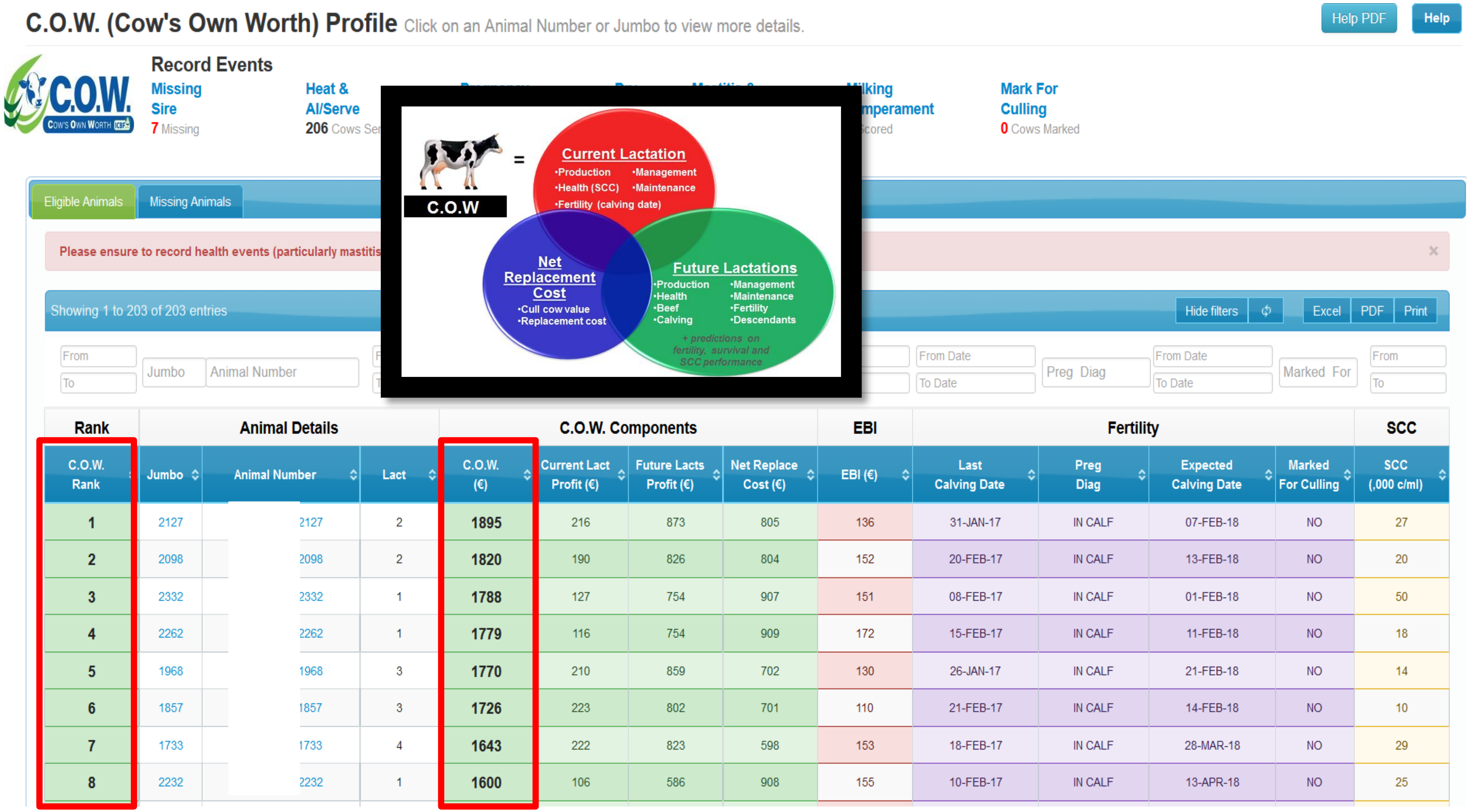
HEALTH REPORT

MILK RECORDING REPORT

CALVING REPORT

PAST REPORT

C.O.W. profile in an instant!



C.O.W. (Cow's Own Worth) Profile

Click on an Animal Number or Jumbo to view more details.

Help PDF
Help
C.O.W.
Cow's Own Worth ICBF
Record Events
Missing Sire
7 Missing
Heat & AI/Serve
206 Cows Ser
Milking Temperament
cored
Mark For Culling
0 Cows Marked
Eligible Animals
Missing Animals
Hide filters
Excel
PDF
Print
From
To
Jumbo
Animal Number
From Date
To Date
Preg Diag
Marked For

Please ensure to record health events (particularly mastitis

Showing 1 to 203 of 203 entries

C.O.W =

Current Lactation
- Production
- Management
- Health (SCC)
- Maintenance
- Fertility (calving date)

Net Replacement Cost
- Cull cow value
- Replacement cost

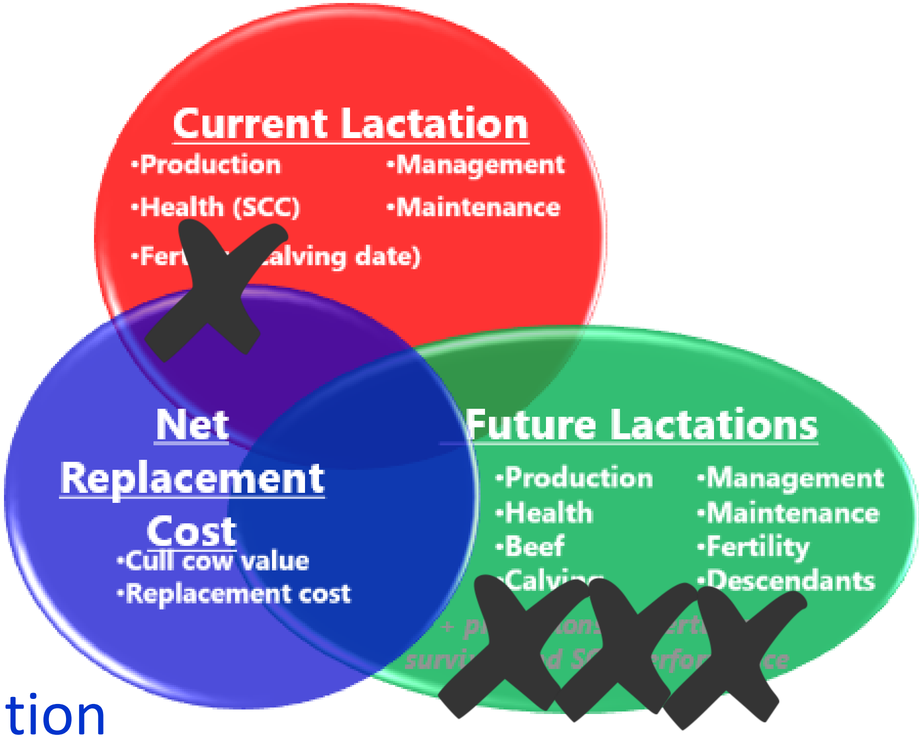
Future Lactations
- Production
- Health
- Beef
- Calving
- Management
- Maintenance
- Fertility
- Descendants

+ predictions on fertility, survival and SCC performance

Rank	Animal Details			C.O.W. Components				EBI	Fertility				SCC
C.O.W. Rank	Jumbo	Animal Number	Lact	C.O.W. (€)	Current Lact Profit (€)	Future Lacts Profit (€)	Net Replace Cost (€)	EBI (€)	Last Calving Date	Preg Diag	Expected Calving Date	Marked For Culling	SCC (,000 c/ml)
1	2127	[redacted] 2127	2	1895	216	873	805	136	31-JAN-17	IN CALF	07-FEB-18	NO	27
2	2098	[redacted] 2098	2	1820	190	826	804	152	20-FEB-17	IN CALF	13-FEB-18	NO	20
3	2332	[redacted] 2332	1	1788	127	754	907	151	08-FEB-17	IN CALF	01-FEB-18	NO	50
4	2262	[redacted] 2262	1	1779	116	754	909	172	15-FEB-17	IN CALF	11-FEB-18	NO	18
5	1968	[redacted] 1968	3	1770	210	859	702	130	26-JAN-17	IN CALF	21-FEB-18	NO	14
6	1857	[redacted] 1857	3	1726	223	802	701	110	21-FEB-17	IN CALF	14-FEB-18	NO	10
7	1733	[redacted] 1733	4	1643	222	823	598	153	18-FEB-17	IN CALF	28-MAR-18	NO	29
8	2232	[redacted] 2232	1	1600	106	586	908	155	10-FEB-17	IN CALF	13-APR-18	NO	25

Plans for C.O.W. 2019

1. **Implement new developments**
   a) New traits
   b) New models
   c) New economic values
   d) Updated transition matrices
2. **Non-seasonal C.O.W. profile version**
   a) Research under-way
   b) Pilot herds needed for validation
3. **Rank heifers**
   a) Planned as a future improvement
4. **Customisation of C.O.W. profile??**



Current Lactation

- Production
- Management
- Health (SCC)
- Maintenance
- Fert[illegible]alving date)

Net Replacement Cost

- Cull cow value
- Replacement cost

Future Lactations

- Production
- Management
- Health
- Maintenance
- Beef
- Fertility
- Calvi[illegible]
- Descendants

+ p[illegible]ons[illegible]ert[illegible] survi[illegible]d S[illegible]erfor[illegible]ce

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