



Decision support tools to support a more sustainable beef-on-dairy industry

S.C. Ring, R.D. Evans, J. McCarthy, A. Cromie, & D.P. Berry

WCGALP 2022

sring@icbf.com



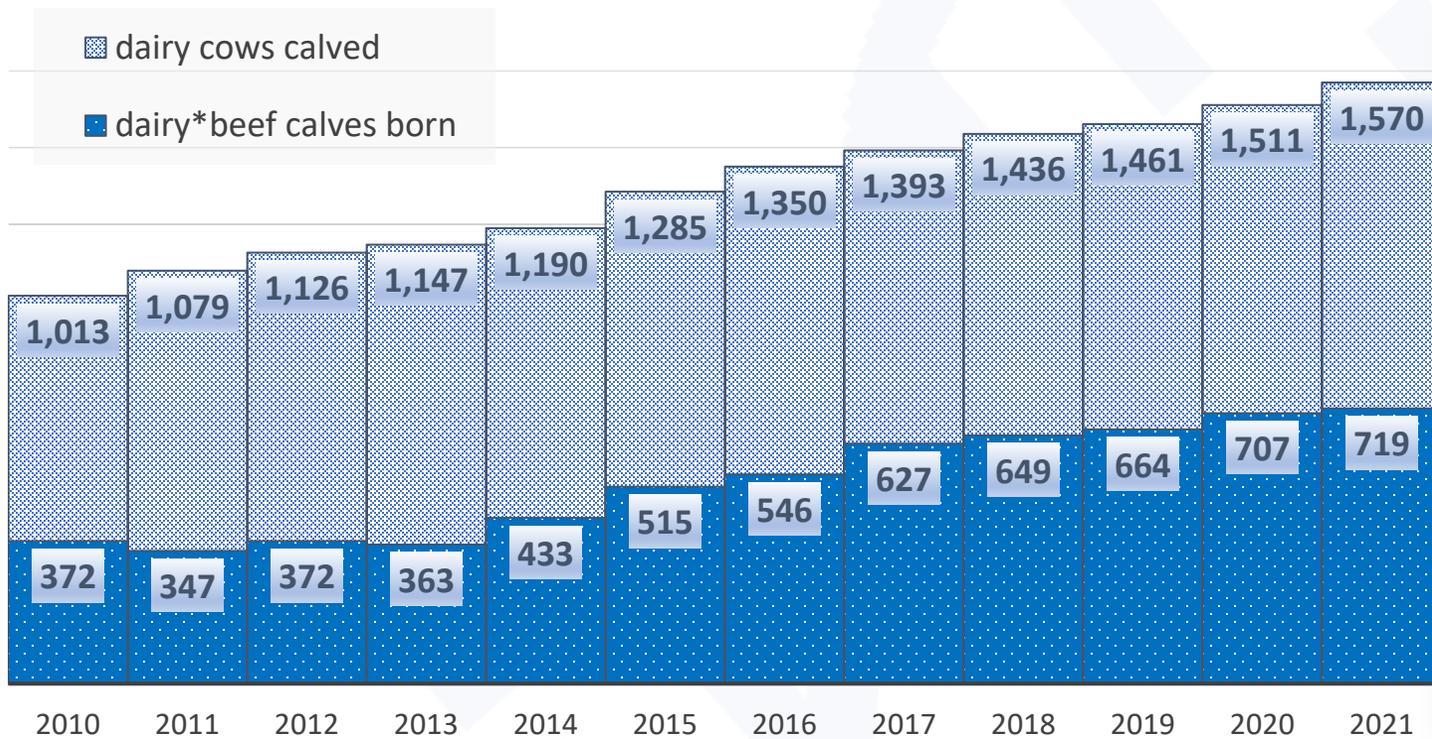
An Roinn Talmhaíochta,
Bia agus Mara
Department of Agriculture,
Food and the Marine



AgTech - it's in our DNA

The Irish Dairy Industry

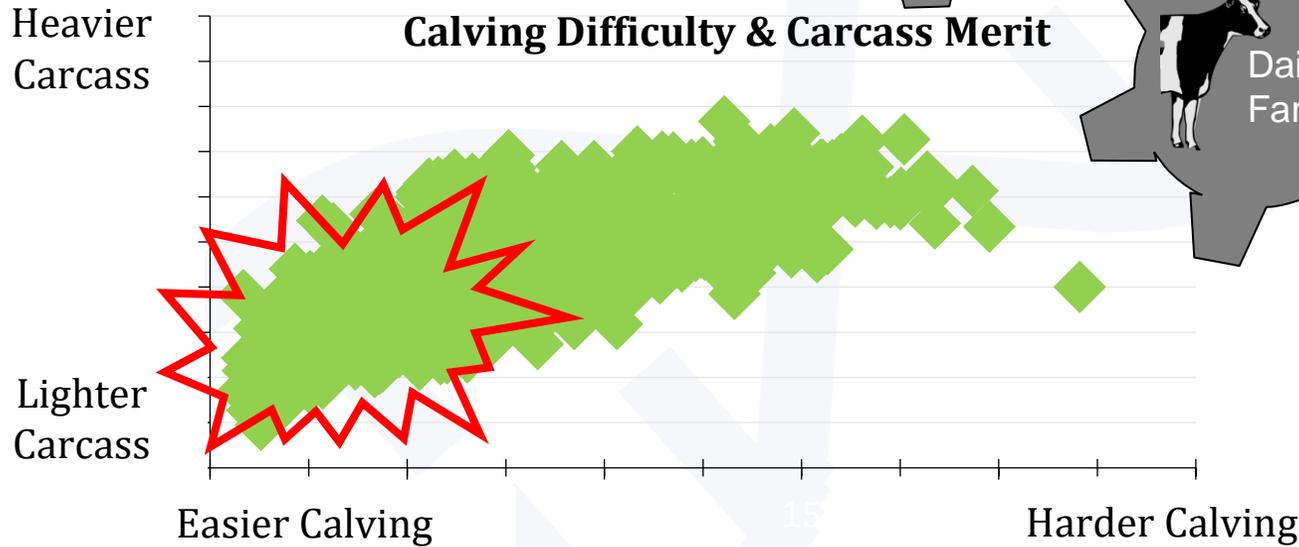
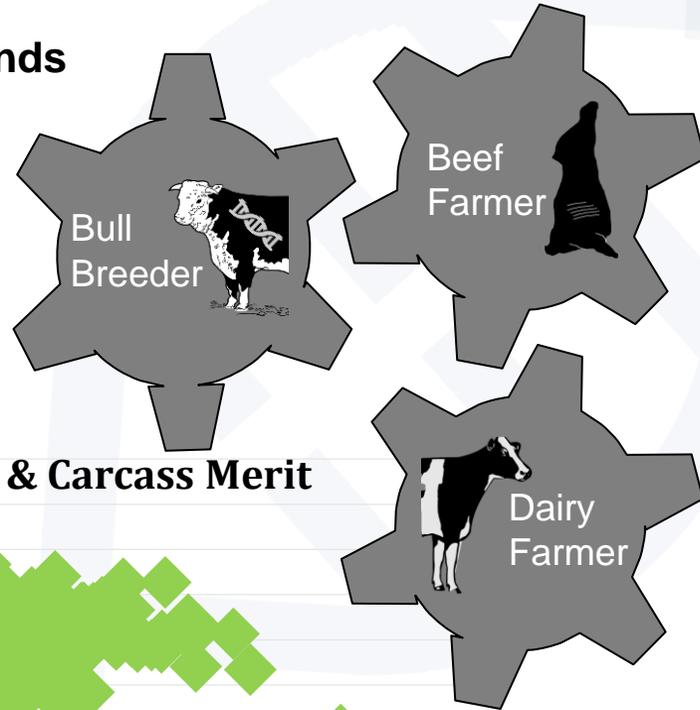
Dairy Cow Calvings and Dairy*Beef Births ('000)

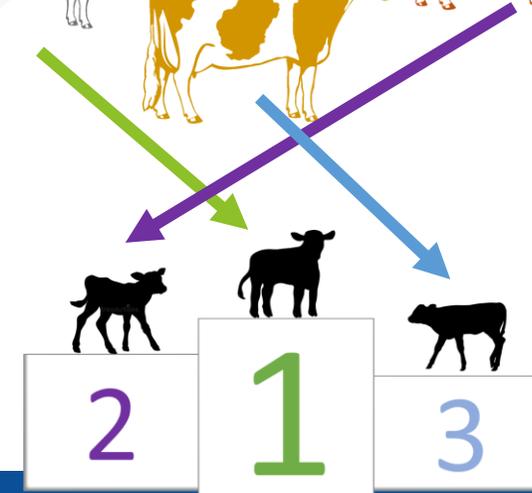


The Dairy-Beef Cycle

Bull focussed – meet market demands

Calf priority – beef merit



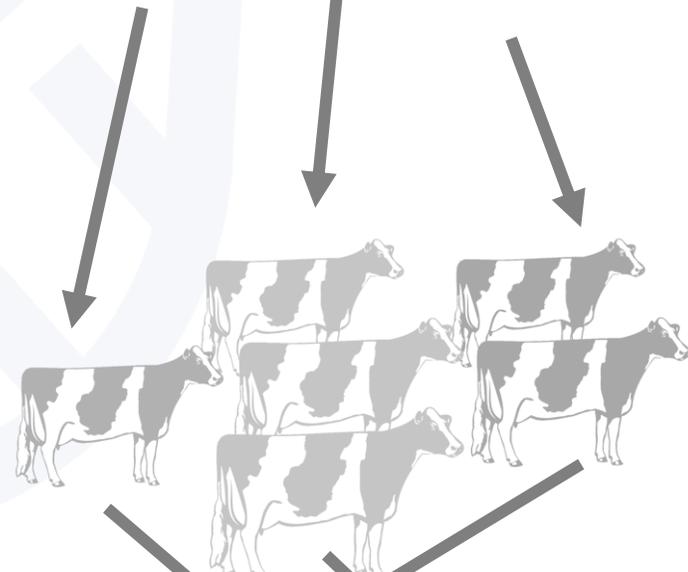




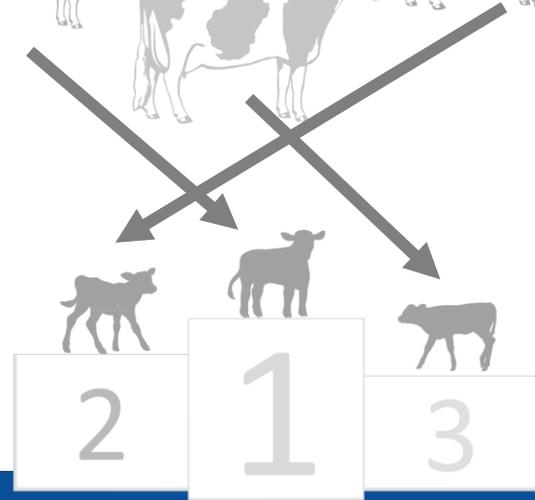
Rank Sires



Rank Matings

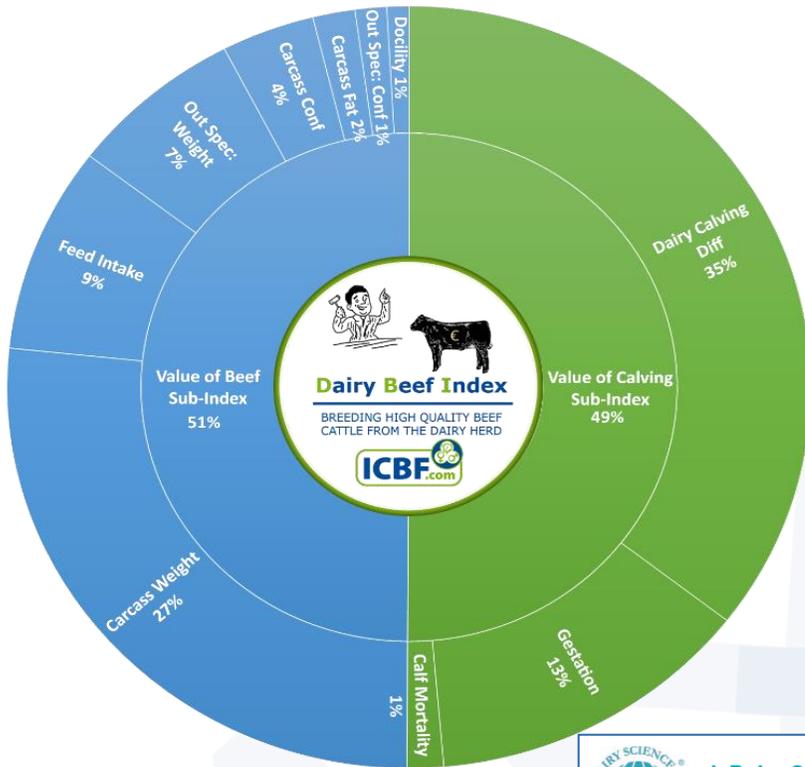


Rank Progeny



The Dairy Beef Index

$$\text{DBI} = \text{Calving Merit} + \text{Beef Merit}$$



- Dystocia
- Gestation
- Stillbirth

- Feed intake
- Docility
- Carcass weight
- Carcass conformation
- Carcass fat
- Carcass spec penalty
- Polled


J. Dairy Sci. 102:10056–10072
<https://doi.org/10.3168/jds.2019-16912>
 © American Dairy Science Association®, 2019.

A breeding index to rank beef bulls for use on dairy females to maximize profit

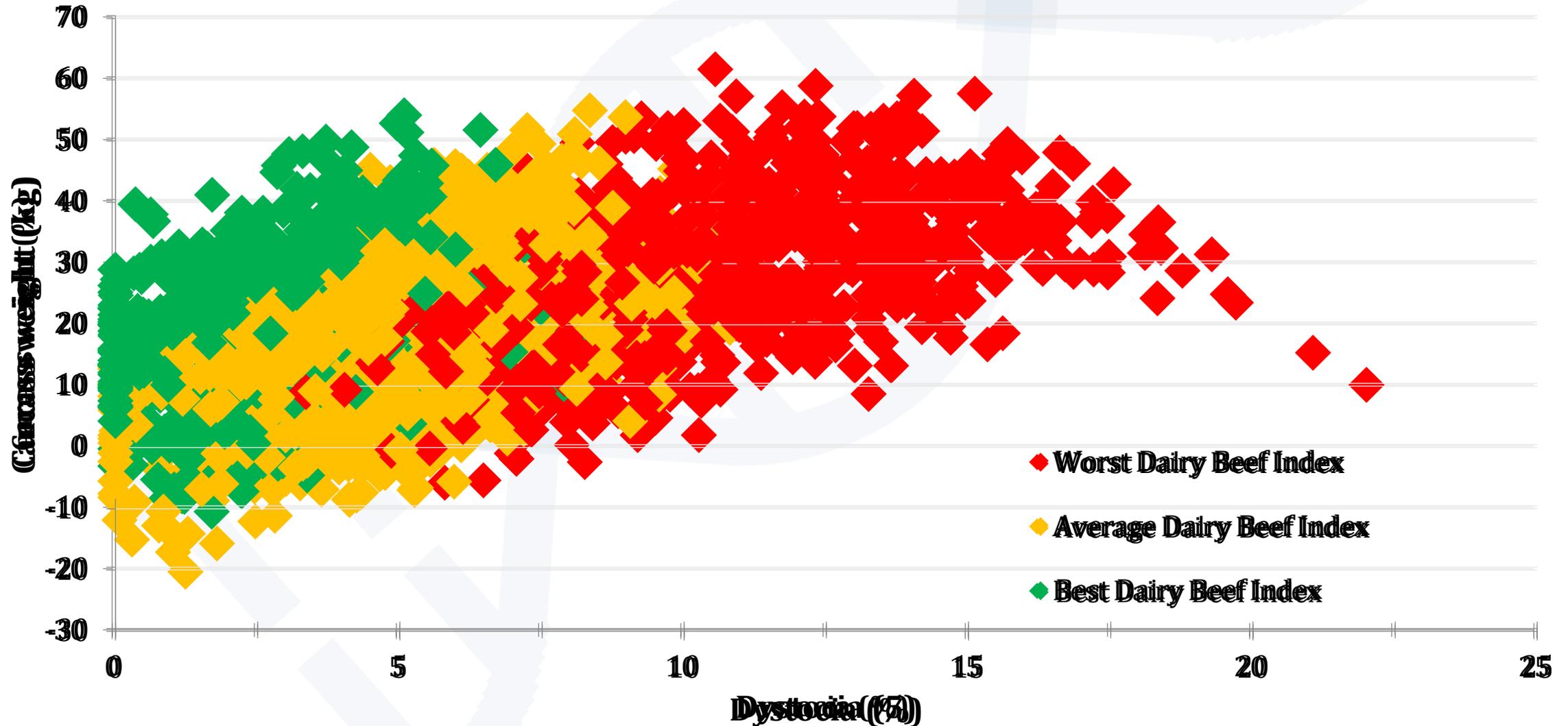
D. P. Berry,^{1*} P. R. Amer,² R. D. Evans,³ T. Byrne,² A. R. Cromie,³ and F. Hely²
¹Teagasc, Animal and Grassland Research and Innovation Centre, Moorepark, Fermoy P61 P302, Co. Cork, Ireland
²AbacuBio Ltd., Dunedin 9016, New Zealand
³Irish Cattle Breeding Federation, Highfield House, Shinagh, Bandon P72 X050, Co. Cork, Ireland


J. Dairy Sci. 103:2523–2533
<https://doi.org/10.3168/jds.2019-17431>
 © American Dairy Science Association®, 2020.

Observed progeny performance validates the benefit of mating genetically elite beef sires to dairy females

D. P. Berry^{1*} and S. C. Ring²
¹Teagasc, Animal & Grassland Research and Innovation Centre, Moorepark, Fermoy P61 P302, Co. Cork, Ireland
²Irish Cattle Breeding Federation, Highfield House, Shinagh, Bandon P72 X050, Co. Cork, Ireland

Dairy Beef Index Objective: Move the Cloud

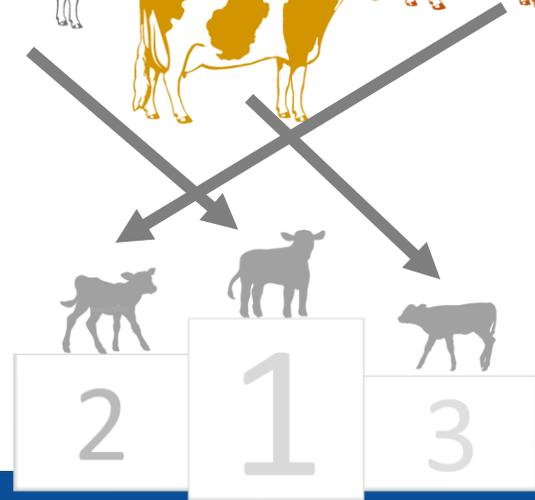
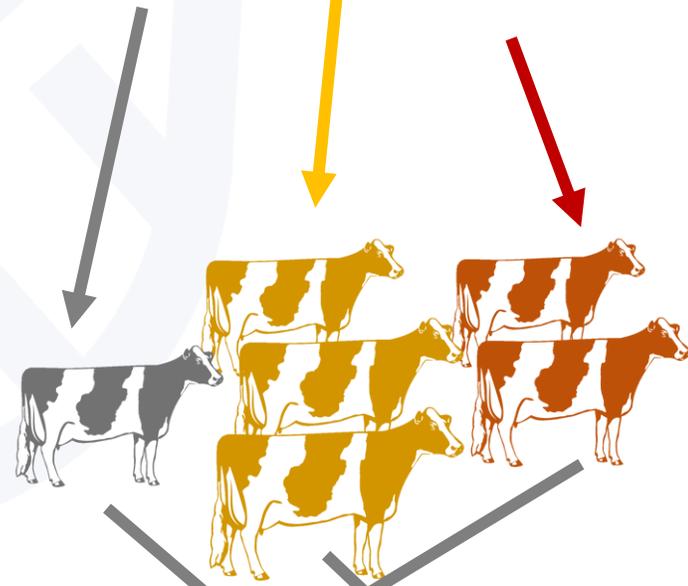
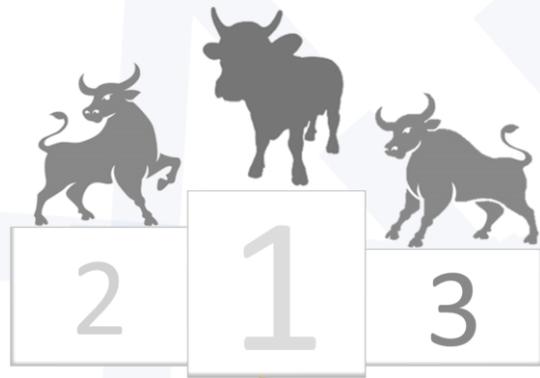




Rank Sires

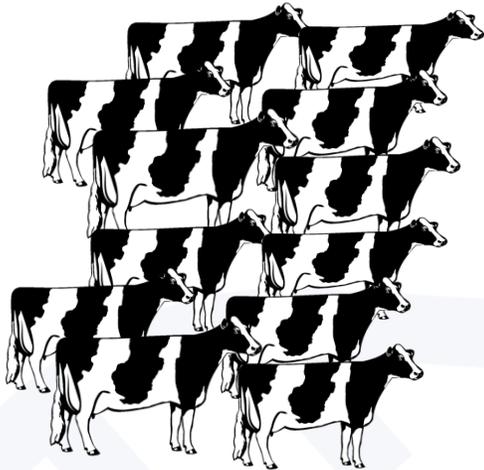
Rank Matings

Rank Progeny

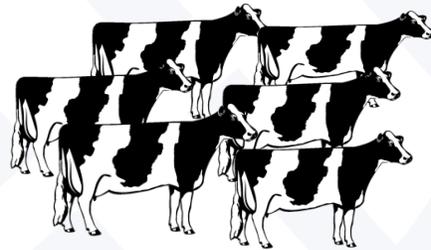


Tailored Mating Advice

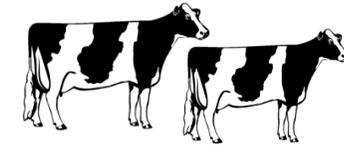
Females to mate to dairy bulls



Females to mate to beef bulls



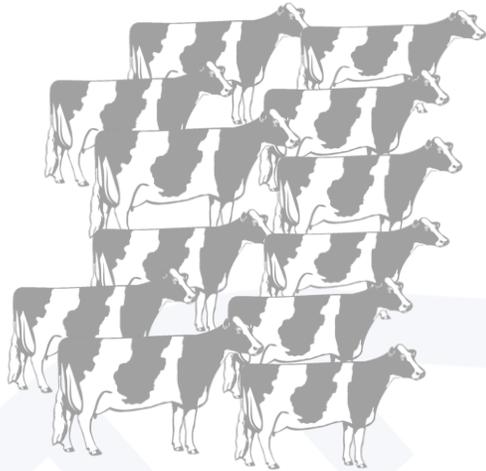
Females to cull (not mate)



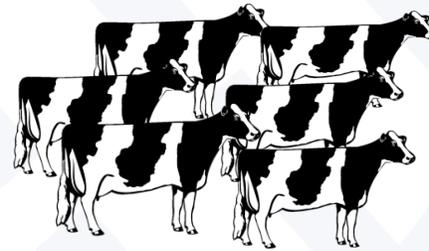
icbf

Tailored Mating Advice

Females to mate to dairy bulls



Females to mate to beef bulls



Females to cull (not mate)



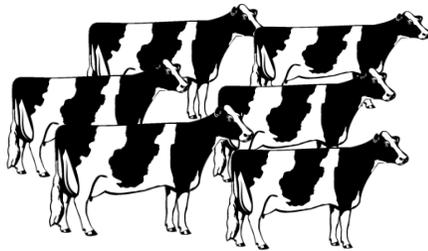
Beef Bulls Chosen

Rank	Code	Name	Breed	DBI €	DBI Rel %	Calving Value SI €	
1	AU4480	DAUPHIN	AU	147	80	52	95
2	LM2014	EWDENVALE IVOR	LM	144	95	-6	149
3	DPZ	DESPAGNOU	AU	140	83	8	131
4	SA2189	ULSAN	SA	137	87	46	91



Tailored Mating Advice

Females to mate to beef bulls



Beef bulls chosen

Rank	Code	Name	Breed	DBI €	DBI Rel %	Calv. Value SI €	
1	AU4460	DAUPHIN	AU	147	80	52	95
2	LM2014	EWDENVALE IVOR	LM	144	95	-6	149
3	DP2	DESPAGNOU	AU	140	83	8	131
4	SA2189	ULSAN	SA	137	87	46	91



Index
calculated



283 d gestation
2% dystocia
295 kg carcass

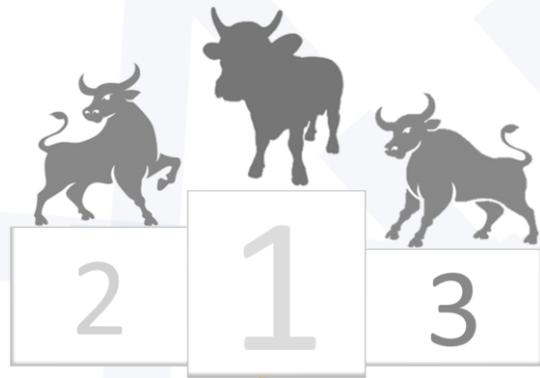


Tailored Mating Advice

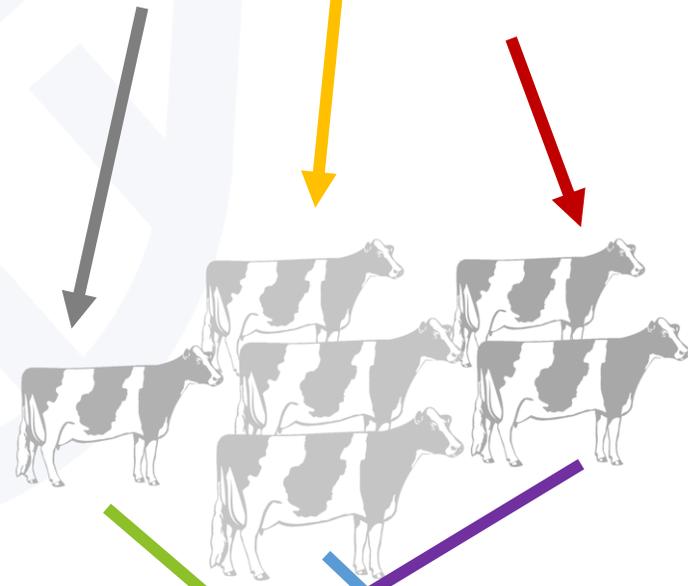




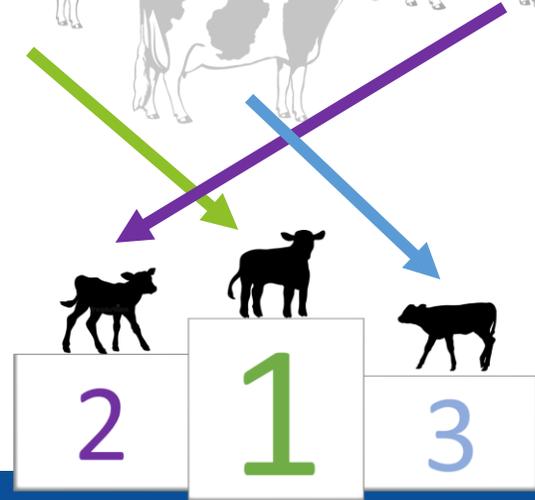
Rank Sires



Rank Matings



Rank Progeny



Commercial Beef Value



DNA
Verified

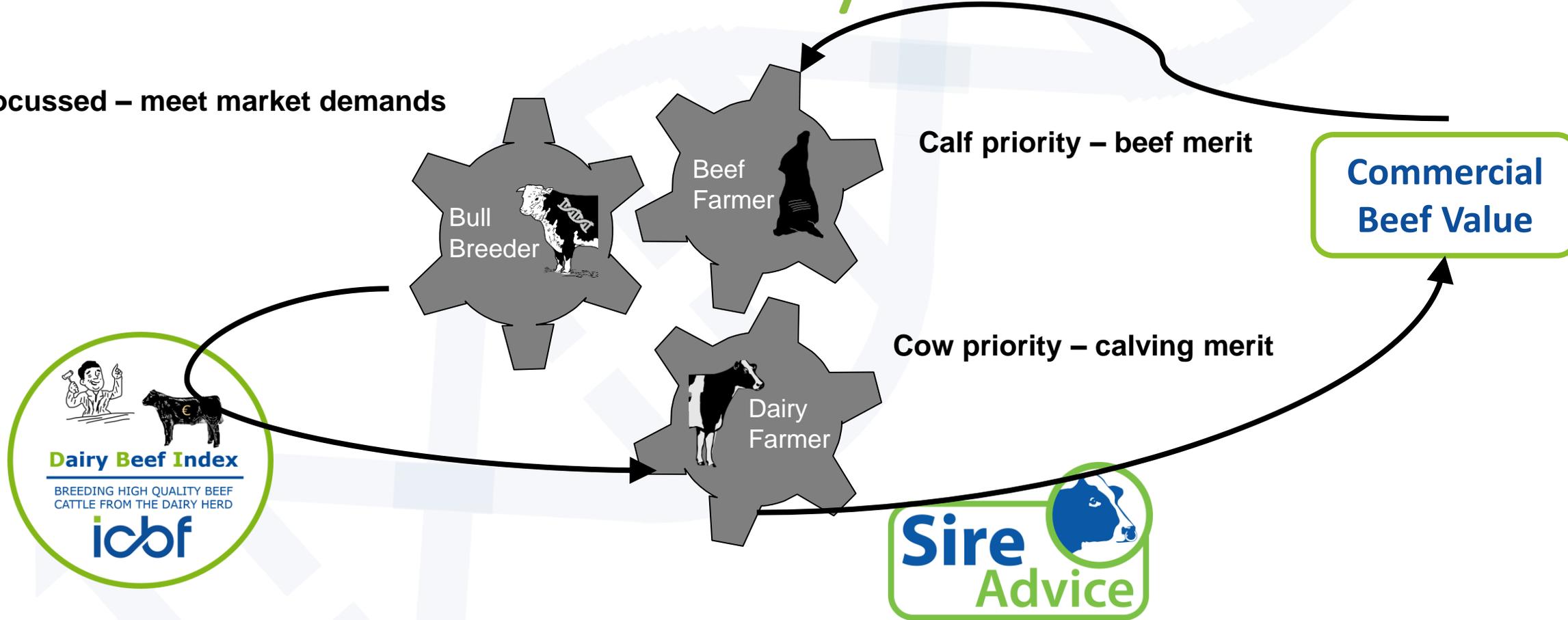


How can I tell the good from the bad?

ELSEV
Formu
non-g
marke
F.L. Dur

Summary

Bull focussed – meet market demands



Dairy Beef Index

BREEDING HIGH QUALITY BEEF
CATTLE FROM THE DAIRY HERD

icbf

Sire
Advice

Challenges and Next Steps

NATURAL SERVICE SIRES



ARTIFICIAL INSEMINATION SIRES



Our Farmer & Government Representation



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



Our AI & Milk Recording Organisations



Our Herdbooks



Acknowledging Our Members