





Dairy Beef Index

An index to deliver quality beef calves from the dairy herd. How it can benefit you and how to use it

Siobhán Ring

#ISGC20



Motivation



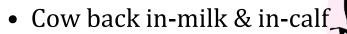


- Easy calving
- Short gestation
- Carcass merit



Market demands





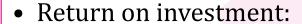
• Value for calf

• Calf word off-farm



Beef





- Production costs
- Carcass merit

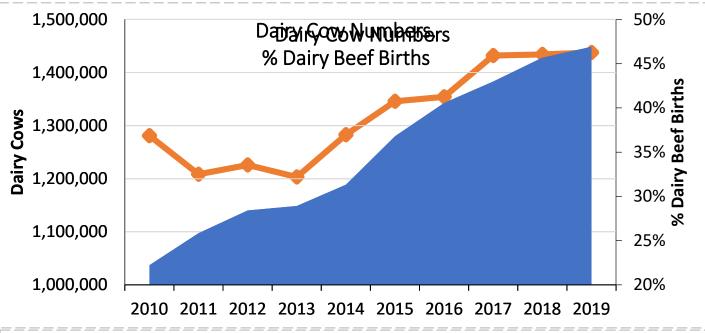


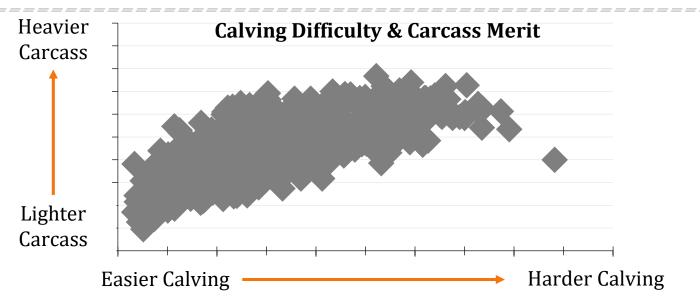




Motivation: Why Now?







- Dairy Herd Expansion
 - Improved fertility
 - More beef from dairy
- Consequences of Selection Decisions
 - Priority: easy calving, short gestation
 - Easier calving tendency for lower carcass merit
 - Dairy beef cattle not meeting spec
 - Viability of dairy beef system?





DBI Composition



Other, 9%

Carcass, 27%

Calving, 64%

• Dairy Focused:

- Easy calving (53%)
- Shorter gestation (10%)
- Less mortality (1%)

Beef Focused:

- Higher carcass merit (wt, conf, fat, spec; 27%)
- Less feed consumed (5%)
- Polled (3%)
- Docile (1%)

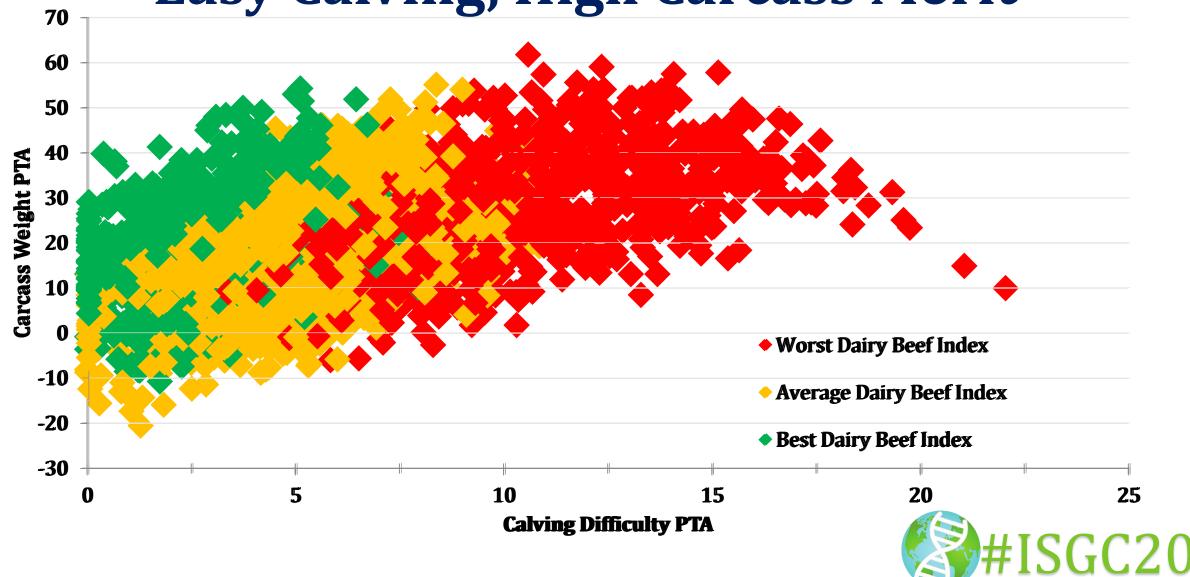




Moving the Cloud:



Easy Calving, High Carcass Merit





What's in a €uro



• Each €1 increase in Dairy Beef Index can be interpreted as a €1 expected increase in profit for that bull's progeny



DBI = €20



DBI = €100

- €80 additional profit expected from Bull B
 - Combination of calving and beef merit traits
 - Full benefit not achieved at sale of animal (mart/factory)





Changing Mindset



	On-farm difference	Value			
Dairy Beef Index	€57 higher				
Dairy Farmer Traits					
Gestation	1 day longer	Value to			
CD% Heifers	Assist 1 extra	Dairy Farmer +€9.67			
CD% Cows	Assist 1 less				
Mortality	No difference				
Calf Price	€18 higher				
Finisher Traits					
Carc. Weight	17 kg heavier	Value to			
Carc. Conf.	1 grade better	Finisher			
Carc. Fat	No difference	+€104.54			

- Benefit of using top DBI bulls (Spring '19) vs most used AI bulls (2015-2015)
 - Expected €57
 - Observed €114.57
 - (Feed intake, out of spec etc. not included)





Accessing DBI







- 1 Log on to <u>www.icbf.com</u>
- 2 Press 'Genetic Evaluations'
- 3 Press 'Dairy Beef Index'
- 4 Download the proofs by selecting from the available options



Animal Search from next week



Sales Catalogue from next week





DBI Active Bull List (Nov'19)



Ct. ČI	SP, 2		100			9%		
Prominent Breeds	Bulls	Dairy Beef Index	Value of Calving	Value of Beef	Gest	Old CD%	Carc Wt.	Carc Conf.
AA	27	€65	€30	€35	-1.7 d	2.1%	6.0	0.7
НЕ	5	€44	€12	€32	-0.9 d	3.2%	1.9	0.5
AU	6	€111	€1	€110	+0.2 d	3.0%	19.2	1.9
BB	15	€79	-€64	€143	-0.3 d	6.7%	24.3	2.5
LM	12	€82	-€53	€135	+3.2 d	5.1%	25.6	2.2

- Gestation -0.09 days
- Carcass weight 15 kg







ICBF Bull List of Active Beef AI Bulls with at least 100 Dairy Calvings, Ranked on the Dairy Beef Index

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Bull Details Dairy Beef Index (DBI) Summary								Calving Va	lue Traits	5		Beef Val	ue Traits		Progeny Records		
Rank	Breed	DBI	DBI Rel	Calving Value	Calving Value Rel	Beef Value	Beef Value Rel	Gest	Risk of Dairy Heifer CDiff	Dairy Heifer Calv Diff	Dairy Cow Calv Diff	Carc. Wt. (kg)	Spec: Carc. Wt.	Carc. Conf.	Spec: Carc. Conf.	Calving Diff	Carc. Wt.
1	AU	€149	58%	€36	75%	€113	41%	-1.33	Low	5.8%	2.6%	17.1	11%	2.38	1%	205	0
2	AU	€141	71%	€18	86%	€123	54%	-0.54	Moderate	7.6%	3.4%	23.1	9%	1.92	2%	468	3
3	ВВ	€135	93%	-€9	95%	€144	91%	-1.43	High	8.6%	4.0%	18.4	11%	2.5	1%	10686	5529
4	SA	€134	83%	€37	79%	€97	88%	-0.93	High	9.1%	3.6%	23.5	9%	1.17	5%	2570	363
5	AU	€133	65%	€10	73%	€122	56%	0.31	Low	5.7%	2.7%	24.4	9%	2.1	1%	182	6
6	LM	€129	91%	-€20	87%	€149	95%	3	Moderate	6.2%	3.4%	31.2	7%	2.48	1%	5153	568
7	BB	€109	80%	-€26	86%	€135	75%	-0.74	High	9.0%	3.5%	25	8%	2.21	1%	671	129
8	LM	€109	95%	-€11	98%	€120	92%	2.36	Moderate	7.7%	2.8%	19.7	10%	2.17	1%	31398	9550
9	BB	€107	90%	€3	92%	€104	88%	-0.18	Moderate	7.2%	2.8%	15.8	12%	1.93	2%	1340	1393
10	LM	€104	77%	-€25	80%	€128	75%	2.8	Low	5.9%	2.3%	20.6	10%	2.12	1%	2432	17

• Higher € values always more desirable







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• Separate CDiff for heifers & cows, with risk – use most appropriate trait





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Higher values for the value of beef traits is better







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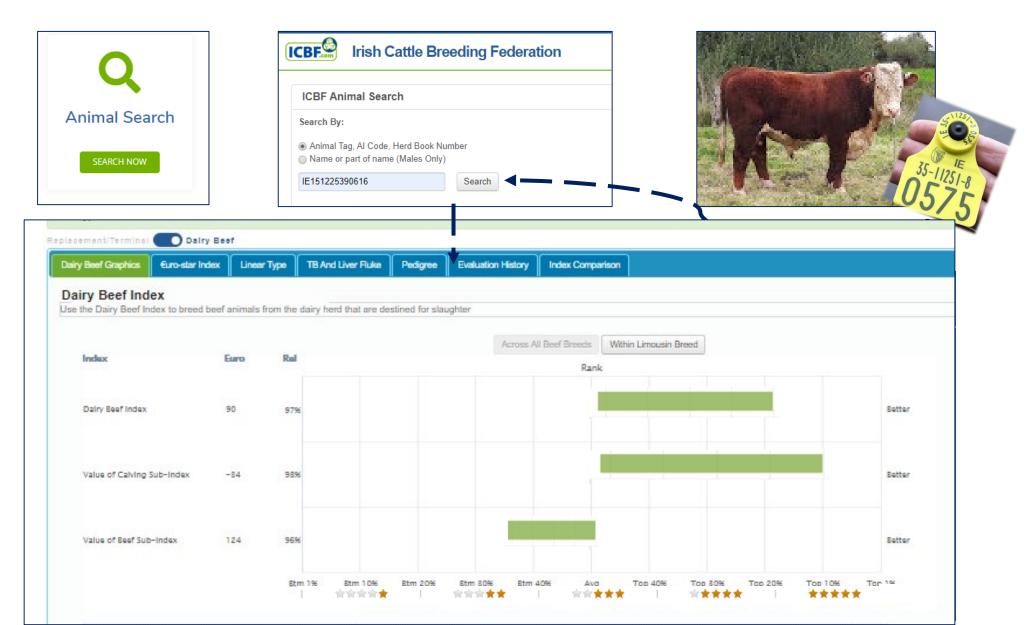
Indication of progeny performance





DBI on Animal Search

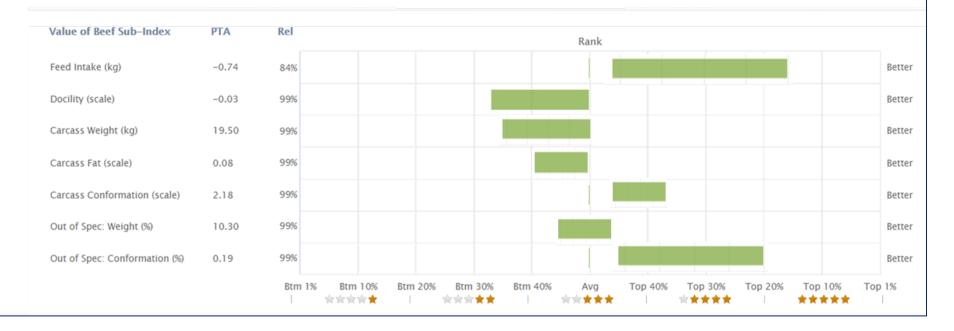


















Evaluation Date: S

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ARD

Mid-Section:

eep Ireland www.sheep.ie

Dairy Beer Cover

Replacement & Terminal

(Dairy Farmer)

Dairy Beef Index Dairy Beef Index

€48 (Rel:40%)

Calving Traits

Gestation

-2.4 days (Rel:38%)

4.7 kg (Rel:46%)

Additional Information Myostatin: F94L

Site Profitation Peter IE281398910327 Size Verified (SNP) Dam: Ryle Glen Sheila ∨ IE331186220499 Dam Verified (SNP) Ryle Glen Sheila ∨ IE331186220499 Dam Verified (SNP) Ryle Glen Sheila ≥ IR34186220499 Dam Verified (SNP) Ryle Glen Sheila ≥ IR34186220499 Evaluation Date: Sep 2019; Next Evaluation Date: 21 Nov 2019 Star Rating (Within Hereford breed) Replacement Replacement Evaluation Date: \$\frac{\pmathcal{2}}{\pmathcal{2}}\$\$ Hodes Index Ind	ŀ	C	alving Diffi When Mat		cons	iderable as Val	_	Rel	iability		
Owner: Joe Bloggs - Timbucktwo, Co. Clare Breeder: John Murphy - Causeway, Co. Kerry Sire: Portanob Peter IE281398910327 Goodman Dam: Ryle Glen Sheila V IE331186220499 Dam Verified (SNP) Ryle Glen Sheila Ardmulchan Q Maclone Ger (X) Ryle Glen Sheila Breaney Sam Ryle Glen She Ardmulchan W Portanob Julia 2 Maclone Ger (X) Hazeifield sha Breaney Sam Ryle Glen She	ļ	★★★ Terminal €48 44% (Average) ★									
Owner: Joe Bloggs - Timbucktwo, Co. Clare Breeder: John Murphy - Causeway, Co. Kerry Sire: Portanob Peter IE281398910327 Sire Verified (SNP) Dam: Ryle Glen Sheila V IE331186220499 Dam Verified (SNP) Ryle Glen Sheila V IE331186220499 Dam Verified (SNP) Ryle Glen Sheila Dam Verified (SNP) Ryle Glen Sheila Dam Verified (SNP) Ryle Glen Sheila Dam Verified (SNP) Evaluation Date: Sep 2019; Next Evaluation Date: 21 Nov 2019 Star Rating (Within)		*	Replacement				€28	40% (Average)	*		
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Owner: Joe Bloggs - Timbucktwo, Co. Clare Breeder: John Murphy - Causeway, Co. Kerry Sire: Portanob Peter IE:281398910327 Sire Verfied (SNP) Portanob Julia 2 Dam: Ryle Glen Sheila V IE:331186220499 Dam Verfied (SNP) Ryle Glen Sheila Breaney Sam Ryle Glen Sheila Breaney Sam Ryle Glen Sheila Breaney Sam Ryle Glen Sheila		Evaluation Date: Sep	2019; Next E	Evaluatio	on Date: 21 Nov 201	9					
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Owner: Joe Bloggs - Timbucktwo, Co. Clare Breeder: John Murphy - Causeway, Co. Kerry Sire: Portanob Peter Ardmulchan Goodman Westwood Upi		Sire Verified (SNP) Portanob Julia 2				_	Ardmulchan Wanderor GENOMIC Portanob Lady (X) EVALUATION				
Owner: Joe Bloggs - Timbucktwo, Co. Clare		IE281398910327	er			_		Westwood Uplift Ardmulchan Clo			
		Breeder: John Mu	ırphy - Cau	seway,	Co. Kerry						
Sex: Male DOB: 11-Nov-2017		Owner: Joe Blogg	gs - Timbuc	ktwo, C	co. Clare						
		Sex: Male		DOB:	11-Nov-2017						
ID: 372224752030955 Breed: Hereford	l	ID: 372224752030	0955 Breed: Hereford				<u></u>	Modified su	ICKICI	page	

Calving Difficulty (Births requiring considerable assistance)							
When Mated With:	Value	Reliability					
Beef cows Breed avg: 2.9%, All breeds avg: 4.0%	2.1%	70% (High)					
Beef heifers Breed avg: 6.8%, All breeds avg: 8.4%	4.1%	64% (High)					
Star Rating (within		Star Pating (agrees					

١	Hereford breed)	Key Replacement Profit Traits	Value	Reliability	all beef bree
		Expected Progeny Perfor	mance		
	**	Docility (1-5 scale) Breed avg: 0.1,All breeds avg: 0.01	0.07 scale	38% (Low)	****
	***	Carcass weight (kg) Breed avg: 4.43kg,All breeds avg: 16.19kg	+4.7kg	46% (Average)	*
l	****	Carcass conformation (1-15 scale) Breed avg: 0.49,All breeds avg: 1.38	+0.77 scale	45% (Average)	*
ı		Format d Boombian Boombian	D = f		

Expected Daughter Breeding Performance							
	Daughter calving diff (% 3 & 4) Breed avg: 5.98%,All breeds avg: 5.79%	+6.01%	39% (Low)				
**	Daughter milk (kg) Breed avg: 3.28kg,All breeds avg: 2.24kg	+2.2 kg	37% (Low)	***			
*	Daughter calving interval (days) Breed avg: -3.27days,All breeds avg: -0.77days	-0.76 days	37% (Low)	***			
Additional Informa	tion:		Linear compo	sites Value Reliabili			

Skeletal

nade or given by ICBF as to the accuracy, reliability, completeness of this Report, ICBF shall not be liable for any losses (whether direct or indirect

Carcass Weight	Carcass Conf
4.4 kg	+0.49
16.2 kg	+1.38
16.2 kg	+1.38
16.2 kg	+1.38





); Dam Verified (SNP)

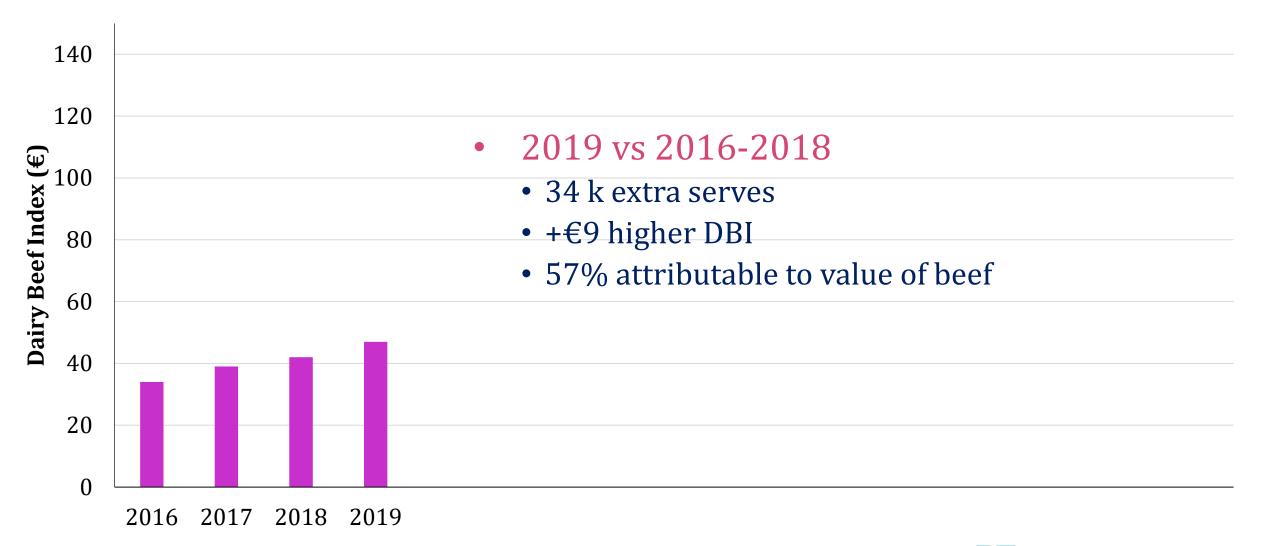
Dairy Heifer CDiff

12.1% (Rel:53%)



DBI, 2019 Serves in Review



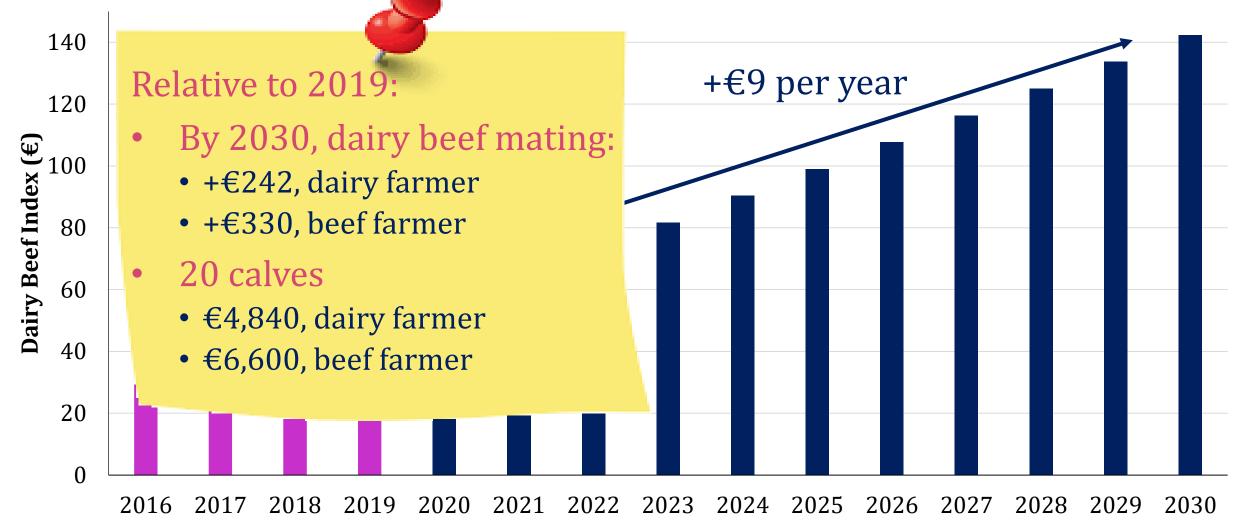






DBI, Projecting Forward









Guidelines



- For 2019, only beef AI bulls with ≥30 progeny in dairy herds
 - Select a team of bulls from the Active Bull List
- For 2020, extended to stock bulls
 - Ask breeder for DBI / animal tag
 - Sales Catalogue / Animal Search
 - Use DBI as tool to aid purchasing decisions
- For AI or stock bull usage
 - Select bulls with the highest Dairy Beef Index € value to maximize overall profitability
 - Use CD% for dairy cows and risk category for dairy heifers
 - Low risk category only for heifers (17% (AI) & 25% (stock bull) dairy*beef AI to heifers)
 - Cows generally can take more difficulty





Summary



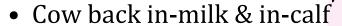


- Easy calving
- Short gestation
- Carcass merit



Market demands





- Value for calf
- Calf moved off-farm



Dairy armer

Beef

Farmer

- Return on investment:
 - Production costs
 - Carcass merit

