COF

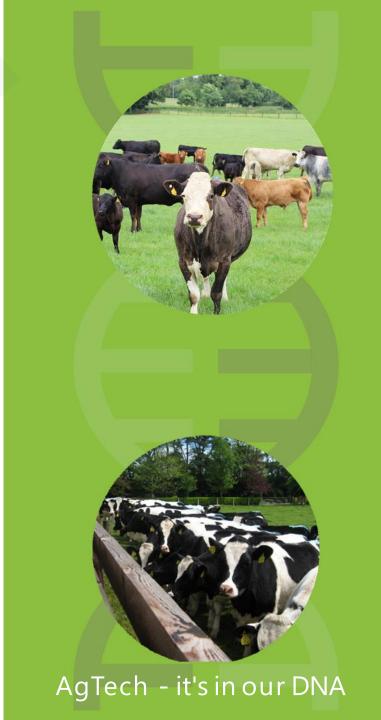
Using the DBI to generate quality dairy-beef calves

Siobhán Ring

sring@icbf.com

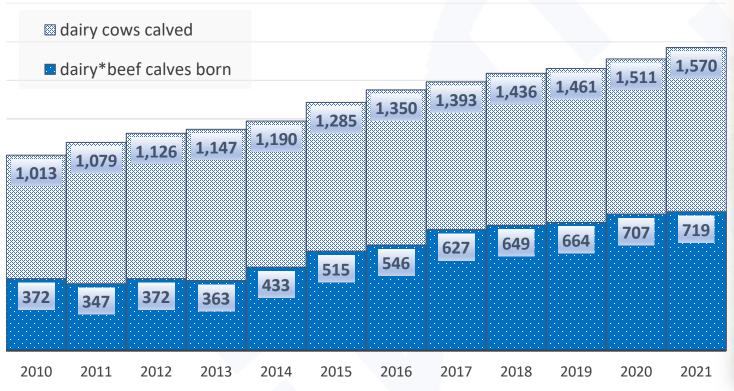
March 2023





The Irish Dairy Industry

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







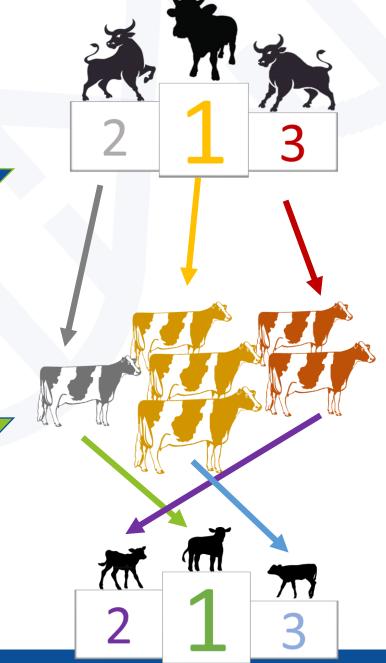


Sire Advice

Rank Sires

Rank Matings

Rank Progeny



Commercial Beef Value





Sire Advice

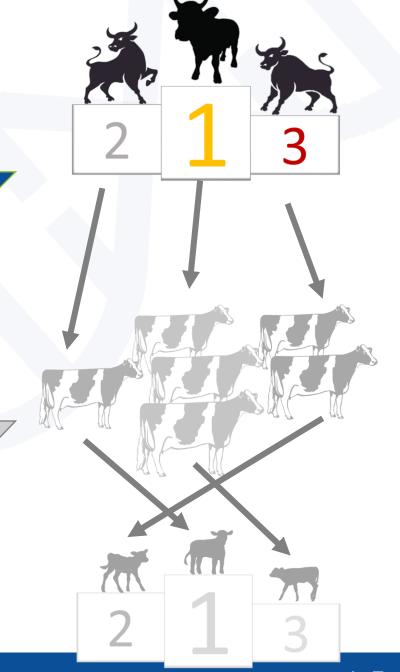
Commercial

Beef Value











The Dairy Beef Index (DBI)

DBI = Calving Merit + Beef Merit + Carbon Merit



- Dystocia
- Gestation
- Stillbirth

Feed intake

Carcass conformation

Docility

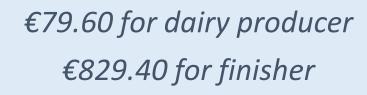
- Age at slaughter
- Carcass weight
- Gestation
- Carcass conformation
- Carcass fat
- Age at slaughter
- Factory-specification
- Polled

DBI = Traits relevant to breeder & rearer/finisher



It's Been Validated... It Works

Additional revenue (for 20 calves)





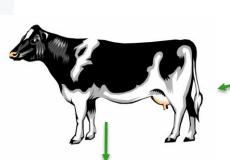
Use high ranked DBI bulls rather than high ranked calving bulls

Bull ranked top 20% for calving traits



1% Dystocia 283 d Gestation

> 301kg O+ 3+ 44% in spec



2% Dystocia 284 d Gestation

Bull ranked top 20%

for Dairy Beef Index



310kg O+ 3= 48% in spec



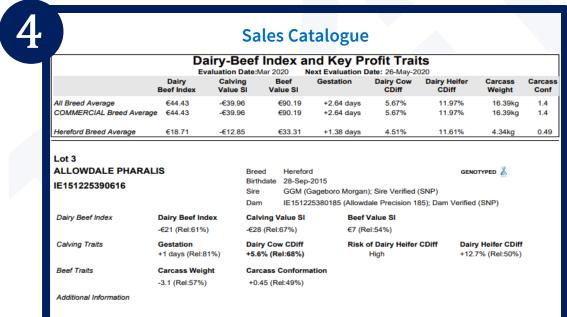
what does the DBI figure mean?





Accessing The Dairy Beef Index





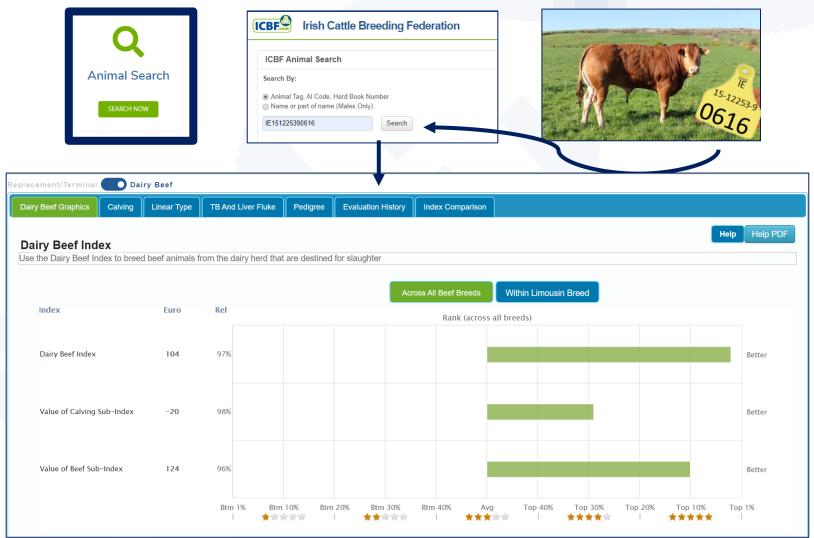






The Animal Search

Use to look up any AI bull, stockbull or pedigree female – need Tag number / name / AI code



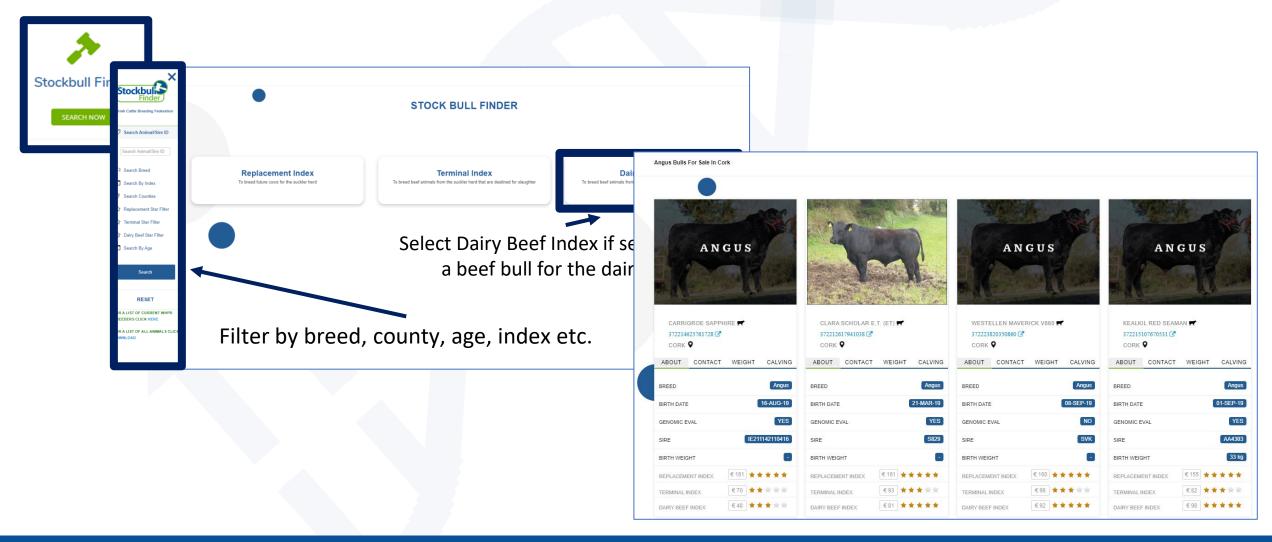






Stockbull Finder

Find a stockbull to meet your herd requirements – like Done Deal!



Active Bull Lists

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

©ICBF2019. For more information please call 0238820452 or log onto www.icbf.com

Bull D	etails		Dairy B	eef Index	(DBI) Sur	mmary			Calving Va	lue Traits	5	Beef Value 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	ВВ	€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	ВВ	€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



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

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



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

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Higher values for the value of beef traits is better



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

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Indication of progeny performance





Sire Advice

Commercial

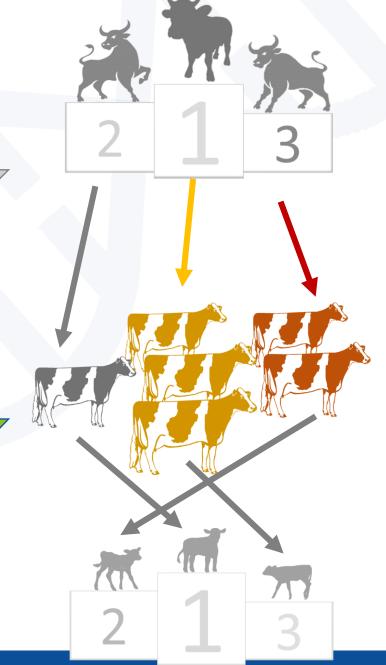
Beef Value





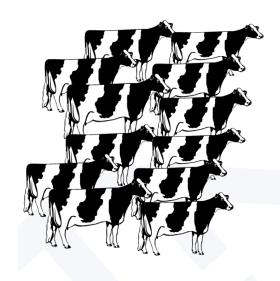
Rank







Females to mate to dairy bulls



Females to mate to beef bulls

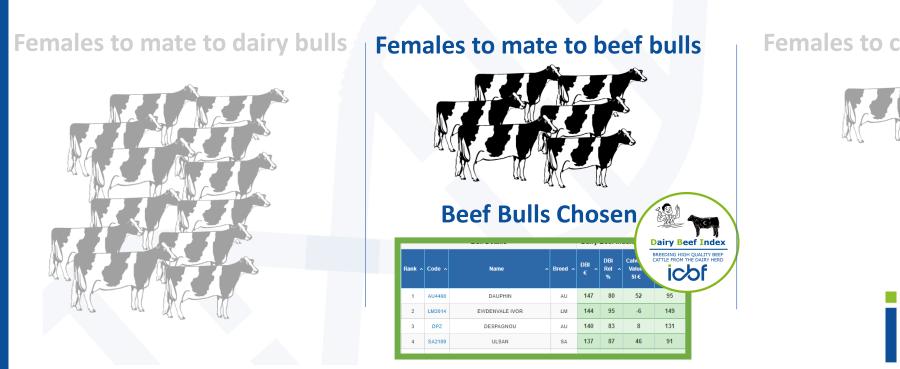


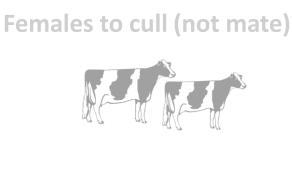
Females to cull (not mate)





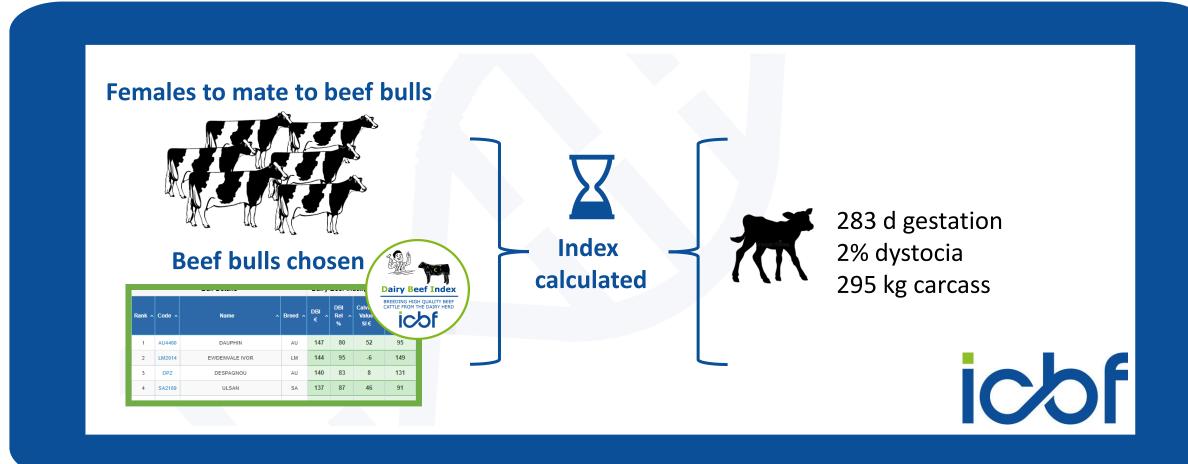






















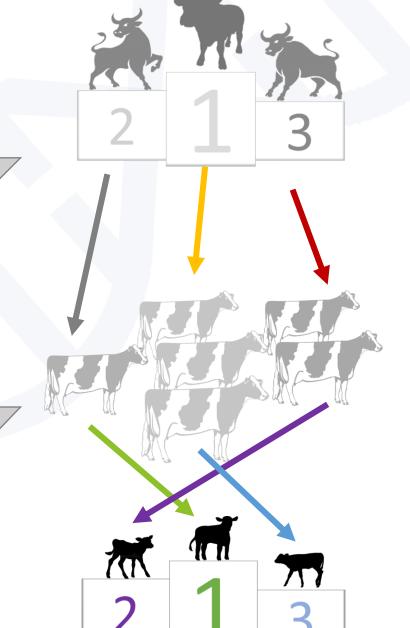






Rank Progeny





Commercial Beef Value



Commercial Beef Value









Commercial Beef Value (CBV)

CBV = Calving Merit + Beef Merit + Carbon Merit



- Dystocia
- Gestation
- Stillbirth

Feed intake

Carcass conformation

Docility

- Age at slaughter
- Carcass weight
- Gestation

- Carcass fat
- Age at slaughter
- Factory-specification

Carcass conformation

Polled

CBV = Traits relevant to rearer/finisher

CBV

- •Expressed as a € value; expected profit at point of slaughter relative to others of same type
- Available for non-breeding animals
 - Suckler (beef sire & beef dam)
 - Dairy * Beef (beef sire & dairy dam)
 - Dairy * Dairy (beef sire & dairy dam); males only not available on dairy females

Within & Across Breed star ratings

Table 1. Distribution of CBV percentiles within and across breed types based on the Jan'23 Evaluation

	*	**	***	***	****
Across Breed	-€37 to €35	€35 to €79	€79 to €189	€189 to €265	€265 to €374
Suckler	€37 to €178	€178 to €229	€229 to €267	€267 to €304	€304 to €391
Dairy*Beef	-€3 to €45	€45 to €62	€62 to €80	€80 to €123	€123 to €238
Dairy*Dairy	-€58 to -€1	-€1 to €16	€16 to €28	€28 to €41	€41 to €93



Commercial Beef Value All non-pedigree beef and dairy males and uncalved, non-pedigree beef females are displayed in this profile.

CBV Explanation Helpsheet

Showing 1 t	to 62 of 62 entries														Hide filter	ers Ø	Excel PDI	DF Print	
Lumba	A I Mumber	Dreed	From Dat		D	0:	1 2-70	Cimple	Dr. 46	From	From	From	From	From	From	From	From	From	
Jumbo	Animal Number	Breed	To Date] [*	Dam	Sire	Genc ∨	Sire' V	Bre V	То	То	То	То	То	То	То	То	То	
				Anima	al Details			,		Commercial Beef Value									
Jumbo ^	Animal Number	Breed ^	Birth Date	Sex ^	Dam ^		Genomic Eval	Sire Verified	Breed Type ^	Value ^	Star Ranking (Across Breed)	Star Ranking (Within ^ Breed Type)	Carcass Weight ^ (kg)	Carcass Conformation ^ (1-15 scale)	Carcass Fat (1-15 scale)	Age at Slaughter ^ (days)	Feed Intake (kg DM/day)	Docility (1-5 ^ scale)	
72398	372223401972398	HE (50%), HO (34%)		М	IE151313371400	37221777644100	008 N	Y	Dairy Beef		9 ★★★☆☆	* ***	4.9	0.09	0.27	-5	0.21	0.12	
42404	372223401942404	HE (50%), HO (47%)		М	IE151313371524	37221777644100	008 N	Y	Dairy Beef	11/	7 ★★ ★☆☆	* ****	8.4	0.04	0.01	-8	0.28	0.17	
22419	372223401922419	AA (50%), HO (44%)		М	372223401962133	3 37222557502006	066 N	N	Dairy Beef	97	****	* ***	4.7	0.14	0.22	-3	0.19	0.07	
2403	372223401932403	AA (50%), HO (41%)	'	F	372223401942107	7 37222557502006	066 N	N	Dairy Beef	29	***	* ****	2.1	0.27	0.26	0	0.14	0.07	
72415	372223401972415	AA (50%), HO (44%)		М	372223401992169	37222557502006	066 N	N	Dairy Beef	81	***	* ***	2.7	0.13	0.16	0	0.18	0.06	
2414	372223401962414	AA (50%), HO (41%)		F	372223401962166	37222557502006	066 N	N	Dairy Beef	/()	****	* ***	-0.2	0.10	0.21	1	0.14	0.08	
	•																		



Minimum Beef Bull Requirements to achieve High CBV progeny

•Required:

- Dairy Herd EBI Scorecard: Beef SI
- Beef SI of Beef Bull's DBI



Herd EBI Scorecard



Herd Number: D3250947 (Eval Nov 2022)	Your Herd	National Average	National Top 10%	Your National Rank	Star Rating ¹
Herd EBI	€202	€159	€194	95%	****
Milk Sub-Index (Milk, Fat & Protein)	€ 60	€44	€60	91%	****
Fertility Sub-Index (Calving Interval & Survival)	€ 97	€66	€82	97%	****
Carbon Sub-Index	€2	€7	€14	20%	*
Calving Sub-Index(Gestation, Calving Difficulty, Mortality)	€ 32	€28	€37	77%	****
Beef Sub-Index (Carcass Weight, Conformation & Fat)	€ -4	€-2	€4	39%	**
Maintenance Sub-Index (Cow Liveweight)	€7	€13	€20	7%	*
Management Sub-Index (Milking speed & Temperament)	€2	€1	€3	79%	***
Health Sub-Index (SCC, Mastitis, & Lameness)	€4	€6	€9	30%	* *
¹ Star Rating: $\star = 1 - 20\% \star \star = 21 - 40\% \star \star \star = 4$	1 - 60%	**** =	61 - 80%	****	* = 81- 100%

Figure 1. Example of Herd EBI Scorecard which gives dairy farmers an indication of their herd-rank and star rating on the Beef SI

Table 3. Minimum required DBI Beef SI of (AA/HE) beef bulls to achieve a 4* or 5* CBV dairy-beef calf categorized by dairy herd ranking on EBI Beef SI

Herd Rank on Dairy Beef SI (EBI)	Herd	Dairy Beef SI (EBI)	Beef Bull Beef SI (DBI) to achieve CBV of:							
			€80 [4*CBV]	€93 [4*CBV]	€123 [5*CBV]	€176 [5*CBV]				
Average of 1* Herds		-€13	€86	€99	€129	€182				
Average of 2* Herds		-€5	€78	€91	€121	€174				
Average of 3* Herds		-€2	€75	€88	€118	€171				
Average of 4* Herds		€0	€73	€86	€116	€169				
Average of 5* Herds		+€4	€72	€82	€112	€165				



Summary

- Dairy Beef Index
 - For selecting beef sires for use on the dairy herd
- Sire Advice
 - For identifying the optimum matings
- Commercial Beef Value
 - For identifying quality beef stock to buy

Our Farmer & Government Representation







Our Al & Milk Recording Organisations









Our Herdbooks

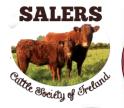




























Acknowledging Our Members