



Commercial Beef Value (CBV)

A new selection tool for non-breeding beef farmers

Date: 06 Dec 2021

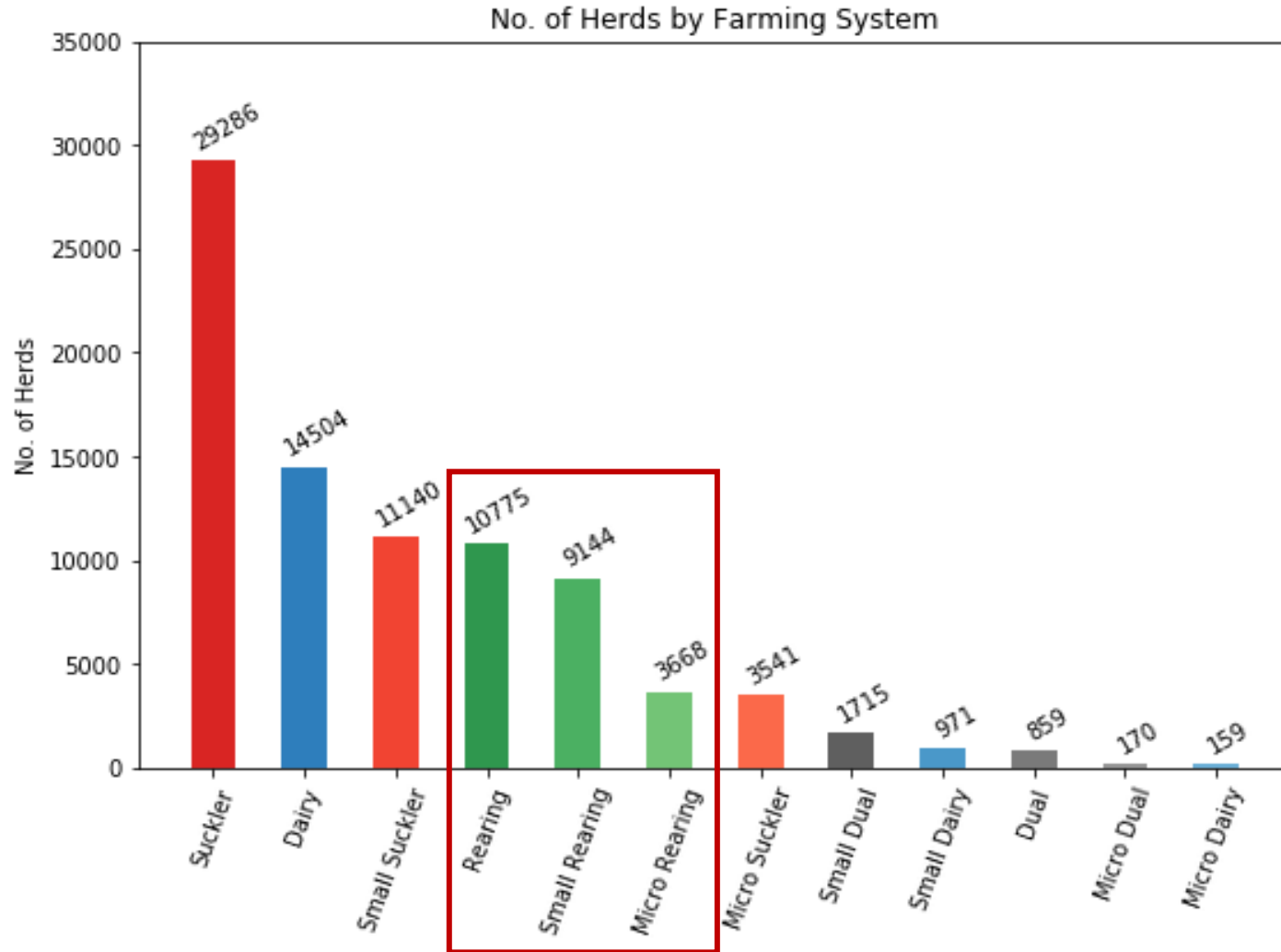


An Roinn Talmhaíochta,
Bia agus Mara
Department of Agriculture,
Food and the Marine



AgTech - it's in our DNA

Commercial Beef Value (CBV) Background



- Significant number of rearing herds in Ireland (approx. 23k)
 - Non-breeding (drystock) beef herds
 - Purchasing animals to take through to slaughter or sell on live.

Commercial Beef Value (CBV)

Background

How can I tell the good from the bad?!?!



Farmers need a tool which gives them an insight into the genetic merit of an animal to help them make more informed purchasing decisions



I'm 25% JE and my daddy is a low carcass merit AA bull.

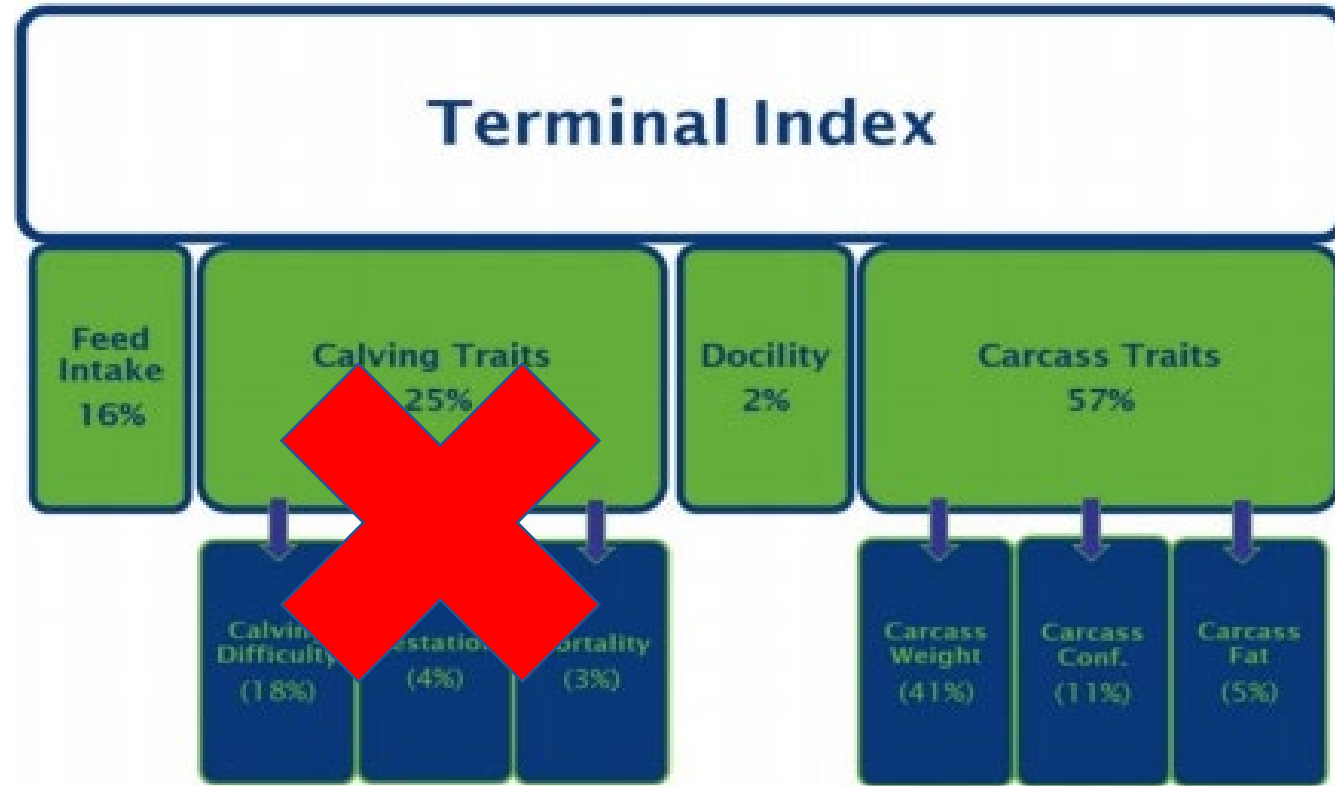
-€20
★

€87
★★★★★

I have 0% JE and my daddy is a high carcass merit HE bull.

Commercial Beef Value (CBV)

What is it?



- Terminal Index less the calving traits (calving diff, gestation and mortality).
- Carcass weight, conf and fat, feed intake and docility.

Commercial Beef Value (CBV)

How will it be displayed?

Suckler Example

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) ^	Feed Intake (kg DM/day) ^	Docility (1-5 scale) ^
Suckler	318	★★★★★	★★★★★	35.5	2.15	-0.59	-0.28	0.02
Suckler	282	★★★★★	★★★★★	34.4	1.82	-0.57	0.01	0.10
Suckler	282	★★★★★	★★★★★	31.5	2.14	-0.39	-0.18	0.02
Suckler	278	★★★★★	★★★★★	29.8	1.90	-0.67	-0.25	0.13
Suckler	270	★★★★★	★★★★★	32.6	1.87	-0.36	-0.02	0.08
Suckler	269	★★★★★	★★★★★	34.7	1.69	-0.33	0.06	0.02
Suckler	263	★★★★★	★★★★★	29.1	1.95	-0.59	-0.16	0.03
Suckler	260	★★★★★	★★★★★	25.9	2.29	-0.42	-0.27	0.07

- Online profile displaying CBV € value, stars and trait values.

Commercial Beef Value (CBV)

How will it be displayed?

Dairy x Beef Example

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) ^	Feed Intake (kg DM/day) ^	Docility (1-5 scale) ^
Dairy x Beef	9	★★★★☆	★★★★☆	2.0	0.12	-0.03	0.14	0.09
Dairy x Beef	6	★★★★☆	★★★★☆	4.3	0.21	0.43	0.27	0.00
Dairy x Beef	5	★★★★☆	★★★★☆	1.2	0.13	0.07	0.09	0.06
Dairy x Beef	3	★★★★☆	★★★★☆	3.0	0.11	0.10	0.25	0.05
Dairy x Beef	3	★★★☆☆	★★★★☆	2.5	0.11	0.13	0.20	0.04
Dairy x Beef	2	★★★★☆	★★★★☆	2.8	0.19	0.09	0.28	0.05
Dairy x Beef	-3	★★★☆☆	★★★★☆	-0.2	0.13	0.12	0.08	0.06
Dairy x Beef	-4	★★★★☆	★★★★☆	0.2	0.16	0.11	0.12	0.04

- Online profile displaying CBV € value, stars and trait values.

Commercial Beef Value (CBV)

How will it be displayed?

Dairy x Dairy Example

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) ^	Feed Intake (kg DM/day) ^	Docility (1-5 scale) ^
Dairy x Dairy	-2	★★★★★	★★★★★	1.0	-0.52	-0.37	0.04	0.13
Dairy x Dairy	-14	★★★★★	★★★★★	1.0	-0.66	-0.23	0.09	0.07
Dairy x Dairy	-14	★★★★★	★★★★★	1.0	-0.53	-0.14	0.15	0.14
Dairy x Dairy	-24	★★★★★	★★★★★	1.0	-0.70	-0.25	0.20	0.07
Dairy x Dairy	-28	★★★★★	★★★★★	-2.0	-0.63	-0.27	0.05	0.09
Dairy x Dairy	-48	★★★★★	★★★★★	-3.0	-0.87	-0.20	0.13	0.11
Dairy x Dairy	-51	★★★★★	★★★★★	-4.0	-0.62	-0.18	0.16	0.07
Dairy x Dairy	-53	★★★★★	★★★★★	-5.0	-0.57	-0.25	0.17	0.12
Dairy x Dairy	-60	★★★★★	★★★★★	-7.0	-0.70	-0.17	0.03	0.12
Dairy x Dairy	-69	★★★★★	★★★★★	-7.0	-0.77	-0.13	0.09	0.07
Dairy x Dairy	-75	★★★★★	★★★★★	-9.0	-0.63	-0.15	0.07	0.09
Dairy x Dairy	-86	★★★★★	★★★★★	-9.0	-0.90	-0.18	0.12	0.12
Dairy x Dairy	-115	★★★★★	★★★★★	-15.0	-0.92	-0.44	0.05	0.09

- Online profile displaying CBV € value, stars and trait values.

Commercial Beef Value (CBV)

What animals will receive it?



Commercial suckler males and uncalved females



Dairy males



Dairy x beef males and uncalved females

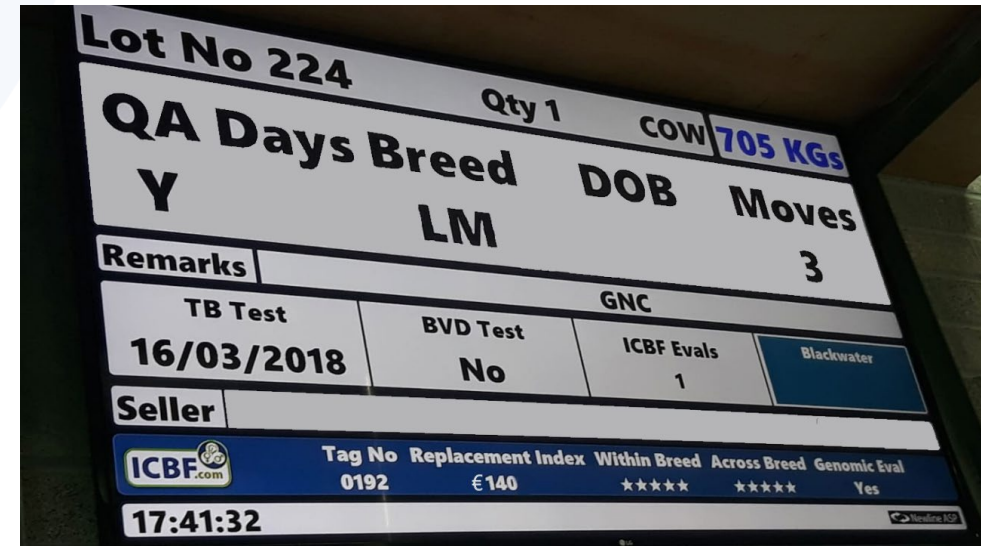
- The following will not have a CBV available:
 - Pedigree beef males and females
 - Dairy females
 - Calved females

Commercial Beef Value (CBV)

Where will it be visible?

- Online profile for HerdPlus herds.
- Plan to roll out to mart boards >>> 2022
- Report to be developed for HerdPlus herds.

Commercial Beef Value						
Value €	Star Ranking (Across Breed)	Carcass Weight (kg)	Carcass Conformation (1-15 scale)	Carcass Fat (1-15 scale)	Feed Intake (kg DM/day)	Docility (1-5 scale)
317	★★★★★	70.6	4.26	-1.14	-0.58	0.02
283	★★★★★	63.2	4.30	-0.80	-0.38	0.02
277	★★★★★	67.6	3.62	-0.96	0.02	0.26
275	★★★★★	58.8	3.76	-1.32	-0.52	0.26
274	★★★★★	66.4	3.78	-0.74	-0.04	0.14
268	★★★★☆	59.2	4.00	-1.14	-0.34	0.06
262	★★★★☆	58.0	4.04	-0.70	-0.28	0.22
259	★★★★☆	66.8	2.78	-1.06	0.02	0.04
254	★★★★☆	50.4	4.50	-0.80	-0.54	0.12
247	★★★★☆	61.0	2.66	-1.16	-0.14	0.08
246	★★★★☆	65.6	3.66	-0.70	0.56	0.12
246	★★★★☆	60.6	2.92	-0.62	-0.22	-0.08



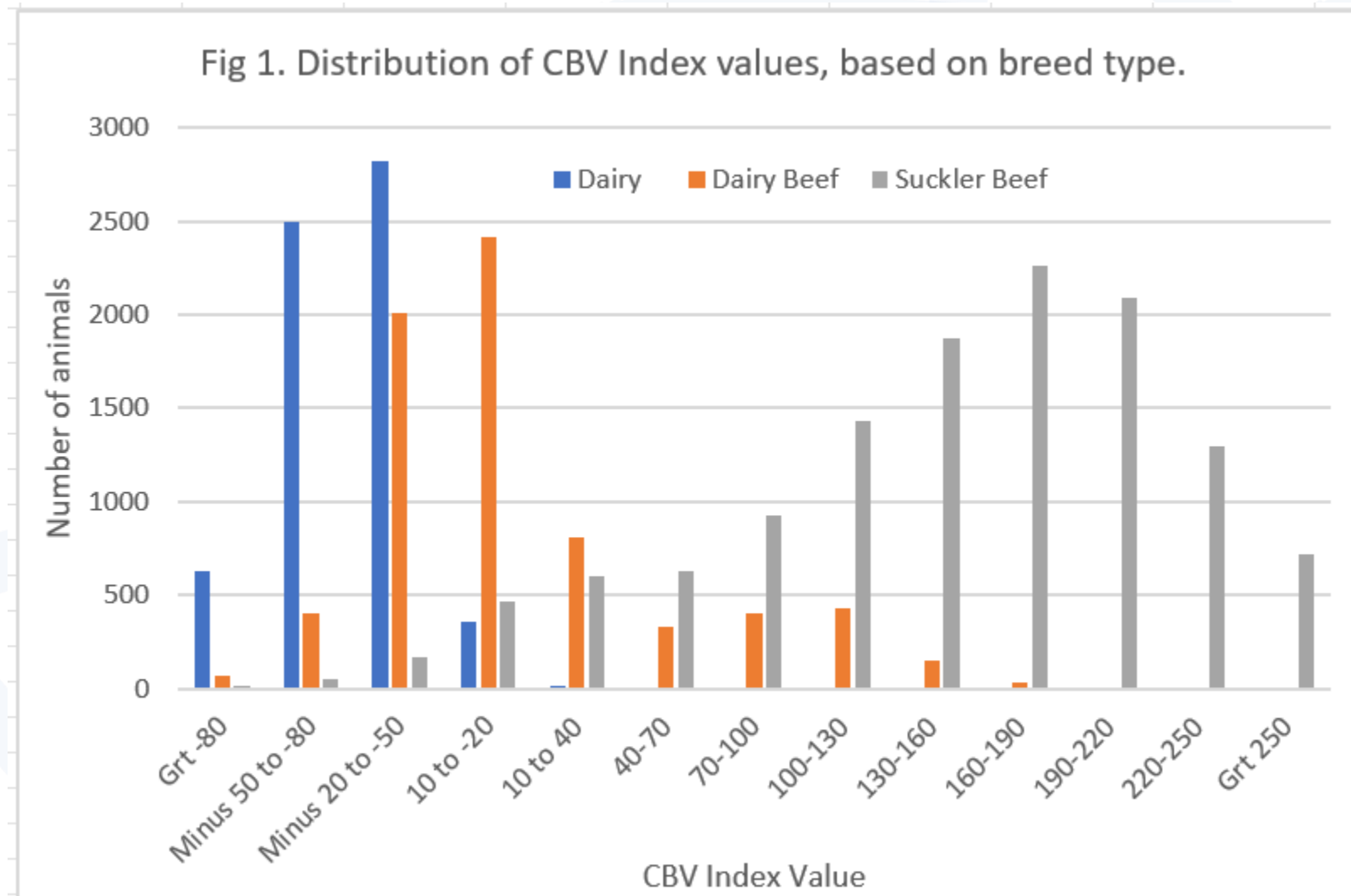
Commercial Beef Value (CBV)

Validation Work

- Analysis of 40k steers slaughtered in Nov 2021
- Nov 2021 evaluation (carcass data not included in evaluations).
- Important questions:
 - What is the distribution of the CBV?
 - How well does it predict future performance?
 - Does it work across all animal types e.g. suckler, dairy x beef, etc.

Commercial Beef Value (CBV)

Distribution of CBV's within 40k steers



Commercial Beef Value (CBV)

Are higher CBV generating higher value carcasses?

Suckler Animals

	Count	CBV	PD Cwt kg	Cwt kg	n Spec Con	In Spec Fat	Price	€-value	Age Slau
- 5 stars - Top 20%	1462	€239.3	24.6	438.4	100%	85%	€4.44	€1,947	30.4
- 4 stars - 21-40%	1500	€195.1	19.0	419.9	100%	90%	€4.40	€1,850	30.5
- 3 stars - 40-60%	1456	€161.6	15.7	411.6	100%	90%	€4.38	€1,802	30.5
- 2 stars - 21-40%	1287	€120.3	11.8	399.1	100%	92%	€4.35	€1,739	30.5
- 1 star - Btm 20%	1019	€38.2	3.8	367.8	98%	90%	€4.33	€1,594	30.3
- No Sire = No stars	2499			395.2	98%	90%	€4.37	€1,731	30.2

Commercial Beef Value (CBV)

Are higher CBV generating higher value carcasses?

Dairy x Beef Animals

	Count	CBV	PD Cwt kg	Cwt kg	n Spec ConIn	Spec Fat	Price	€-value	Age Slau
- 5 stars - Top 20%	716	€95.5	8.7	378.0	95%	91%	€4.23	€1,601.3	31.3
- 4 stars - 21-40%	383	€13.9	3.1	356.1	84%	92%	€4.23	€1,507.3	31.3
- 3 stars - 40-60%	437	-€9.5	0.3	352.4	77%	94%	€4.20	€1,479.0	31.3
- 2 stars - 21-40%	515	-€24.4	-1.9	347.2	72%	91%	€4.17	€1,446.8	31.5
- 1 star - Btm 20%	678	-€49.8	-5.9	335.7	69%	93%	€4.15	€1,393.3	31.6
- No Sire = No stars	2571			350.4	81%	92%	€4.23	€1,481.3	31.1

Commercial Beef Value (CBV)

Are higher CBV generating higher value carcasses?

Dairy x Dairy Animals

	Count	CBV	PD Cwt kg	Cwt kg	n Spec	ConIn Spec Fat	Price	€-value	Age Slau
- 5 stars - Top 20%	430	-€23.6	-1.1	352.5	29%	89%	€3.98	€1,403	32.5
- 4 stars - 21-40%	454	-€38.6	-3.0	345.6	28%	91%	€3.98	€1,376	32.6
- 3 stars - 40-60%	456	-€49.5	-4.8	339.7	24%	90%	€3.96	€1,347	32.6
- 2 stars - 21-40%	504	-€60.6	-6.0	341.4	24%	93%	€3.96	€1,353	32.7
- 1 star - Btm 20%	541	-€84.7	-10.1	326.2	13%	91%	€3.93	€1,284	32.7
- No Sire = No stars	1325			336.2	27%	89%	€3.96	€1,335	32.0

Commercial Beef Value (CBV) Rollout



Early spring nitrogen

Edited by
Pearse Kelly
Head of Drystock
Knowledge Transfer



Teagasc Green Acres
Calf to Beef Farm Walk

Wednesday,
11th March

Shane Granny,
Ullard, Myshall,
Co. Carlow.
Eircode: R21 X224

Start Time: 12pm



A Teagasc Joint Programme supported by:



Lot No 224		Qty 1	cow	705 KGs
QA Days Breed	LM	DOB	Moves	
Y			3	
Remarks		GNC		
TB Test	BVD Test	ICBF Evals	Blackwater	
16/03/2018	No	1		
Seller				
ICBF.com	Tag No	Replacement Index	Within Breed	Across Breed
	0192	€140	★★★★	★★★★
17:41:32		Genomic Eval		
		Yes		



Farming
Independent 

Commercial Beef Value (CBV)

Summary

- CBV has the potential to be a vital tool for drystock farmers.
- High CBV animals exhibit higher performance >>> higher value carcasses.
- Equally effective across all breed types =>> suckler, dairy x beef, dairy
- Increase the onus on dairy farmers to use “better quality” beef sires.
- Accurate parentage recording will be critical.
- Rollout to marts in 2022 will be the next step.