

A Simmental surprise in Tully performance figures



Shane Murphy looks over the intake data of beef bulls and steers in Tully since 2012

ince 2012, the ICBF has been testing commercial cattle in Tully. Over this time, 1,849 steers or bulls from a major beef breed have been tested.

Much of this has been to improve the data going into the €uro-Star indices, particularly in relation to terminal traits such as carcase weight, carcase conformation and, most importantly, feed intake.

A quick analysis of the data gives great insight into how each breed performed. While not exact, as animal ages vary, average daily gain (ADG) at each stage is beneficial information.

Looking at Table 1, we see the steer intake information and kill performance. Most breeds have a significant data pool of in excess of 100, with the exception of the Hereford and Belgian Blue breeds.

One point to note in this data pool is that the Simmental breed average age is 48 days less than the next nearest, that of the Charolais breed. This is particularly important when compared with the Blue breed, which is on average 80 days older than the Simmental.

That said, the Simmental breed still clocked up an R= average grade and got within 16kg in carcase weight of the Charolais.

Table 2 perhaps emphasises this point more. Assuming a birth weight of 42kg for all breeds, Simmental had the highest daily gains; pre-trial, on-trial and overall from birth.

Compensatory growth always needs to be considered when looking at the results of the trials.

In basic terms, if animals have not achieved their optimum growth pretrial, they have more capacity for higher thrive on trial.

Because the Simmentals had the highest pre-trial growth, they would have also had the lowest capacity for compensatory growth.

When you look at the carcase weight gain figures for steers, you can see that the Simmental breed also achieved the highest at 0.63kg/day. The other breeds ranged from 0.57kg/day to 0.61kg/day.

It must also be noted that the Simmental breed had the best feed efficiency, which could also be associated with the

ounger age. That said, if left on trial for longer, the

Table 1: Steer liveweight and kill performance

Sire breed	Sample no	Start age	End age	Slaughter age	Initial weight	Final weight	Carcase weight	Avg grade	Avg fat score
Simmental	112	486	579	583	520.16	660.26	361.82	R=	3=
Charolais	126	534	627	631	549.94	670.24	377.89	R+	3=
Hereford	28	535	621	624	524.89	655.14	352.09	R-	4-
Limousin	204	537	628	632	527.85	649.77	370.14	R+	3=
Angus	116	543	634	636	540.17	661.54	355.97	R-	4-
Belgian Blue	24	566	661	664	564.08	673.54	387.89	U-	3=

Table 2: Steer daily gain performance along with feed efficiency and terminal index

Sire breed	Pre-trial ADG	On-trial ADG	Total ADG	Carcase weight DG	Feed efficency	Terminal index
Simmental	0.99	1.51	1.07	0.63	9.44	73.65
Charolais	0.96	1.32	1.01	0.61	10.57	89.53
Hereford	0.91	1.5	1	0.57	11	34.09
Limousin	0.91	1.36	0.98	0.6	9.9	88.75
Angus	0.93	1.39	0.99	0.57	11.19	51.92
Belgian Blue	0.93	1,21	0.97	0.59	13.07	91,99

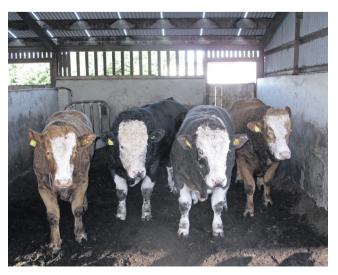
Table 3: Bull liveweight and kill performance

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Sire breed	Sample no	Start age	End age	age	weight	Final weight	weight	Avg grade	score
Simmental	210	375	475	480	499.75	703.75	402.2	U=	3-
Belgian Blue	166	378	483	486	482.93	684.11	415.97	U+	2+
Charolais	266	380	482	486	495.77	694.88	411.9	U=	2+
Limousin	506	383	485	489	474.28	667.79	396.51	U=	3-
Angus	79	390	488	492	464.15	653.43	375.47	U-	3=
Hereford	12	419	518	522	499.33	678	382.98	U-	3+

Initial

Table 4: Bull daily gain performance along with feed efficiency and terminal index

Sire breed	Pre-trial ADG	On-trial ADG	Total ADG	Carcase weight DG	Feed efficency	Terminal index
Simmental	1.22	2.06	1.39	0.85	6.94	78.5
Belgian Blue	1.17	2.01	1.33	0.86	6.78	100.95
Charolais	1.2	2.08	1.36	0.86	6.75	96.24
Limousin	1.13	1.97	1.29	0.82	6.49	95.06
Angus	1.09	1.96	1.25	0.77	6.8	59.04
Hereford	1.09	1.86	1.23	0.74	7.5	62.02



Simmental topped steer carcase weight DG.

breed could have seen its carcase weight, along with carcase grade, increase significantly.

Bull performance

If you look at the bull performance in Tables 3 and 4, you can see that trial age is much more even, with the exception of Hereford. When you look at the continental breeds, there are only eight days between all breeds.

Here we see the Simmental breed topped the initial and final liveweights.

Looking at carcase weight, the increased kill-out of Belgian Blue meant that it topped the table. That said, due to a heavier liveweight, the Charolais breed was only 4kg behind Blue. Carcase grades and fat scores remained even enough among continental breeds.

On-trial weight gain was topped by the Charolais breed, which put on 2.08kg/day. This was closely followed by the Simmental breed at 2.06kg/day and the Blues at 2.01kg/day. However, when looked at total average daily gain, the Simmental breed again came out on top.

Carcase weight again was very consistent among the top bulls, with the Charolais and Blue breeds gaining o.86kg/day, while Simmental achieved o.85kg/day.

What's interesting to look at is the average terminal indices which follow these records.

Looking at the data, we see the Simmental steer average was €15 to €18 behind the other continental breeds. This increased further when we look at the bull average. Simmental stood at €78, while the next-nearest continental breed was Limousin at €95.

This is why the headline leads with Simmental surprise, as, despite topping a number of key trials, their indices remain much lower than that of other continental breeds.

The Simmental breed is renowned for its replacements, but with so much going for it on the terminal side, is it time the indices reflected that?