

Effectiveness of Stocking Density Reduction on Mitigating Lameness in a Charolais Finishing Beef Cattle Farm

Martina Cortese, Marta Brščić, Nicola Ughelini, Iginò Andrighetto, Barbara Contiero and Giorgio Marchesini

Table S1. Ethogram of bulls.

CATEGORY OF BEHAVIOUR	BEHAVIOUR	DEFINITION
<i>Posture</i>	Standing	Bull stands at three or four legs
	Lying	Bulls lies on side with four legs stretched, with 1, 2 or 3 legs stretched but close to the body, or lies on the sternum with four legs under its body
<i>Behaviour</i>		
<i>General</i>	Walking	Bull walks through the pen at a regular pace (not run/jump/frolic behaviour) performing 3 or more steps without stopping
	Exploring	Bull licks, nibbles, sniffs, sucks, or bites at the fence, wall, or other object not in a stereotypical way
	Inactive	Bull just looking ahead; no activity
	Other	Behaviour not included in the ethogram; behaviour of the bull is not visible for the observer
<i>Feeding behaviour</i>	Eating	Bull actively intakes the feed at the manger including chewing it in the manger space Bull performs chewing movements; it begins when the bull starts to chew a regurgitated bolus and it ends when the bolus is swallowed back.
	Ruminating	
<i>Comfort and social behaviours</i>	Drinking water	Bull drinks water out of the pressure bowl
	Resting	Bull lies, not moving or ruminating
	Self-grooming	Bull licks himself; including snout/head licking
	Allogrooming	Bull licks or nibbles a pen mate not in a stereotypical way