

SESSION 3

How can we redesign dairy living spaces to improve cow wellbeing?

What makes a happy cow?





Make a list of things that need to be thought about when planning for the **health** and **wellbeing** of dairy cows.



Temperature Space Rest Bed Comfort Water Food Light Cleanliness Ventilation Air Grooming Socialise Freedom



Hair or coat is healthy? Hair or coat is Walk easily and

smooth and shiny.

Breathing is smooth and regular.

Eyes are bright and alert.

No dribbling or saliva.

steadily with regular steps. When lying down, can get up quickly. Ears are upright,

move to pick up sounds and flick off flies.

Alert and aware of surroundings.

Credit: Keith Weller/USDA

Is this a happy and healthy cow?



Where do dairy cows spend their time?

Spring and summer in the fields.



Indoors in the autumn and winter.

- Why do you think that dairy cows live in different places in different seasons?
- How might living indoors be different for the cows compared with spending time in the fields?

How do we recognise a cow's normal behaviour?



An **experimental ethogram** is where scientists or vets make a **list** of all the known **behaviours or actions** for a species. They will make observations over time.

Credit: Farm Sanctuary

Make your own **ethogram** for dairy cows in a field.



Make a list of all the actions and behaviours you see.

Credit: Farming Online

Behavior	Description	
tanding head down	Head level with or below brisket	
tanding head up	Head above brisket	
tanding stiff-tailed	Standing with tail held stiffly away from body	
ying sternal recumbency	Lying on sternum or partially on sternum with hind-quarters to one side	
ying lateral recumbency	Lying on side, fully-recumbent	
ocomotion	Walking, trotting	
eeding	Taking hay into mouth and/or chewing hay and/or grazing and/or browsing	
Drinking	Consuming water	
uminating standing	Standing, generally with a relaxed posture with regular chewing and regurgitation movements	
luminating lying	As above, but lying sternum	
icking standing/lying	Standing or lying on sternum, turning to lick or attempt to lick body (body region noted)	
ub/scratch	Rubbing/scratching head or body against an object	
ocalization	Bellow or low	
eeth-grinding	Grinding molars together	
hiver/tremble	Whole of body shivering, shaking or trembling	
Butt	Butt or attempted butt directed at another animal	
Charge	Charges at another animal and stops	
ush	Pushes another animal out of the way	6
Thase	Chases another animal (pursuit continues for some seconds)	
letreat	Moves away from butt, charge, push or chase	
brooms another	Licks another animal	
teceives grooming	Recipient of grooming	

How does your ethogram compare?

- How many different behaviours or actions did you observe?
- Did this scientist observe behaviours/actions that you didn't see? Why might that be?
- What do you think cows spend most of their time doing?

What do cows spend most of their time doing?



Use your ethogram to make observations of cow behaviour over time.

711 I



Credit: holsteincowboy/Storth Ltd



demonstrate their

Credit: David Dixon/MJ Harrison/

natural behaviours.

Cows will be kept clean and safe.

Explore this article about Creating an

enriching life for cows

Use the **Problem on a Page** handout to imagine and plan the ultimate indoor cow environment.

Example design for a dairy barn



