

Heat stress in mature dairy cows

- Cattle are homeotherms, just like humans 😊
- Maintain core temperature at a set-point of $\sim 38.5^{\circ}\text{C}$ (101.3°F) despite the changing environment
- Lactating cow's thermoneutral zone -15°C to 22°C (5°F LCT | 71.6°F UCT)
 - become **heat stressed** when the heat load exceeds the ability to dissipate heat effectively, and they start accumulating heat

