# Animals in Extensive Production Systems

### VETS30031 / VETS90123















# Challenges for the dairy industry – animal welfare

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## Welfare issues

- Cows
  - Lameness
  - Mastitis
  - Nutrition
  - Problems around calving
  - Heat stress
- Calves
  - Bobby calves
  - Neonatal disease
  - Disbudding





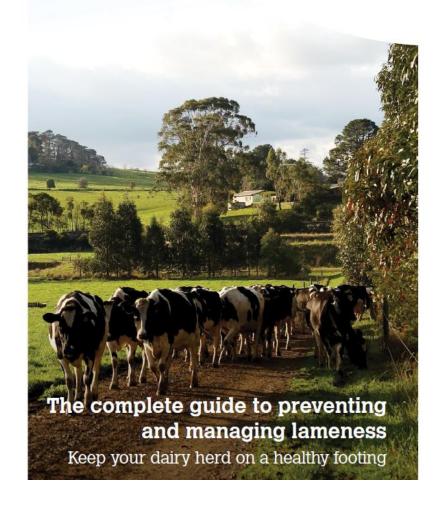




## Lameness



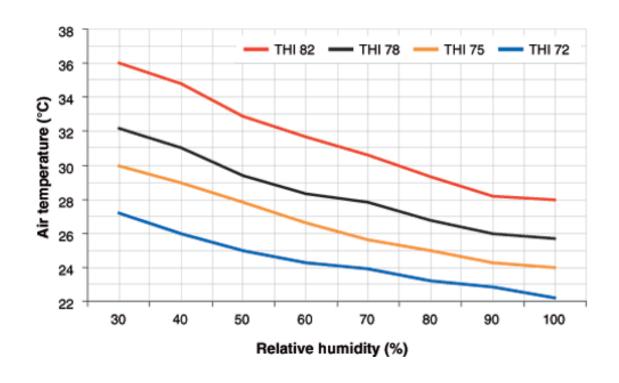
- Number 1 welfare concern for dairy worldwide
- Incidence in Australia probably lower than in N. hemisphere, but actual rates unknown
- Most common risk factors for lameness in Aus/NZ are management-related = PREVENTABLE



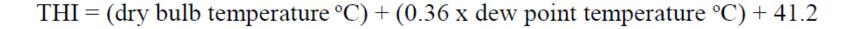




## Heat stress Temperature Humidity Index (THI)











## **Heat stress**

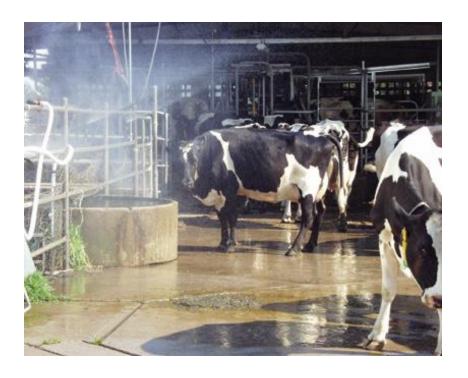
### Moderate (THI 75)

- Provide shade
- ↑ energy density of diet
- Sprinklers at PM milking
- Ensure access to cool drinking water



### High (THI 78)

- Minimise walking distance to dairy
- Utilise coolest paddocks
- High quality pastures at night
- Sprinklers AM/PM milking
- Delay milking time



### Severe (THI 82+)

- Use fans to increase air movement
- Alter diet if appropriate
- Provide access to dams





## **Heat stress**



### OUR FARM'S COOL COW ACTION PLAN

Managing heat stress helps us maintain our summer milk production and maximise cow comfort.

We use Cool Cows' daily Temp. Humidity Index (Trill forecasts' to determine actions to help keep cows cool. We record our cows' breathing rate daily" to check these actions are helping cows manage their heat bad.

| Heat stress risk level | Actions   | Who is responsible?   | Notes  |  |  |  |  |  |  |
|------------------------|---|-----------------------|--|--|--|--|--|--|--|
| Severe (THI 82+)       |   |                       |  |  |  |  |  |  |  |
| High (THI 78)          |   |                       |  |  |  |  |  |  |  |
| Moderate (THI 75)      |   |                       |  |  |  |  |  |  |  |
| Low-mild (THI 475)     |   |                       |  |  |  |  |  |  |  |
| o bpm                  | At 80+, cow heat load is severe<br>At 70, cows are starting to struggle<br>40–60 breaths / minute is normal | 'Weather Forecaster'. | our local area, visit coolcows.com.au and click on s'average breathing rate, visit coolcows.com.au and |  |  |  |  |  |  |

| Month: |                |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
|--------|----------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
|        | Day of month   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 3 |
|        | Max THI        |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
|        | Breaths/minute |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
|        |                |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |





## **Transport**

Home / Livestock and animals / Animal Welfare Victoria / Prevention of Cruelty to Animals (POCTA) Act



#### **Animal Welfare Victoria**

- > New animal welfare Act for Victoria
- > Animal welfare
- > Pets and emergencies
- > Animals used in research and teaching
- > Domestic Animals Act
- > Choosing a pet
- > Cats
- > Dogs
- Other pets
- > Domestic animal businesses

#### > Prevention of Cruelty to Animals (POCTA) Act

- > About the Prevention of Cruelty to Animals Legislation
- > Victorian codes of practice for animal
- > Land transport of livestock standards and guidelines
- > Bobby calf transport standards and
- > Land Transport Standards for livestock
- > Land Transport Standards for salevards

### Prevention of Cruelty to Animals (POCTA) Act 1986

#### About the Prevention of **Cruelty to Animals** Legislation

The Prevention of Cruelty to Animals legislation consists of the principal Act, principal Regulations, Domestic Fowl Regulations and Codes of Practice.

Bobby calf transport

include requirements and

calves.

guidelines specific to bobby

standards and guidelines

The Land Transport Standards

#### Victorian codes of practice for animal welfare

Codes of practice set out recommended minimum standards and practices for the keeping of a wide range of species and animal related activities.

#### Land transport of livestock standards and guidelines

All livestock operators involved in the livestock transport process are required to comply with the Livestock Transport Standards.

#### Land Transport Standards for livestock agents

Requirements livestock agents must comply with to ensure the welfare of livestock under their control.

#### Land Transport Standards for saleyards

Saleyard operators, livestock agents and transporters involved in the livestock transport process must comply with the Land Transport Standards.





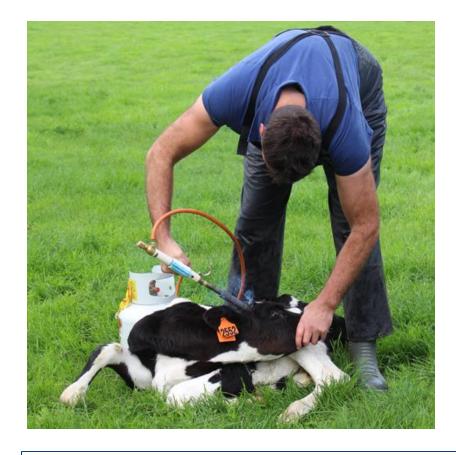




## **Disbudding**

### Veterinary disbudding

- Heavy sedation/pain relief
- Local anaesthetic
- Antiseptic spray
- Non-steroidal anti-inflammatory (q3d)
- ~\$8.00 per calf



Veterinary disbudding with sedation and local anaesthetic, results in an average of 1.4kg greater growth over the 2 week period following disbudding (this is a 17% increase in growth rate over the period). Gemma Chuck (FVAS Dairy resident)









