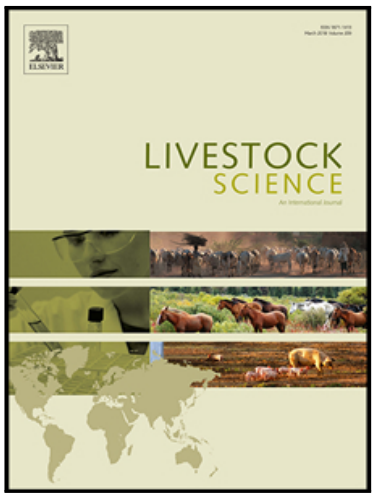

Haematological changes and plasma fluid dynamics in livestock during thermal stress, and response to mitigative measures

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Highlights

- High thermoregulatory body fluid economy with reduction in the magnitude of hyperthermia is important for efficient adaptation to heat stress.
- Erythrocyte parameters decrease in livestock that are poorly adapted to cold, but increase in the highly adapted ones.
- Skin morphology and respiratory rhythmicity may influence the expected decrease or increase in erythrocyte parameters during heat stress.
- Changes in size of erythrocytes and platelets during heat stress can potentially serve as biomarker of heat stress.