



Faculty of Land and Food Systems



Climate adaptive solutions? Public views on dairy cattle heat stress management strategies

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Introduction

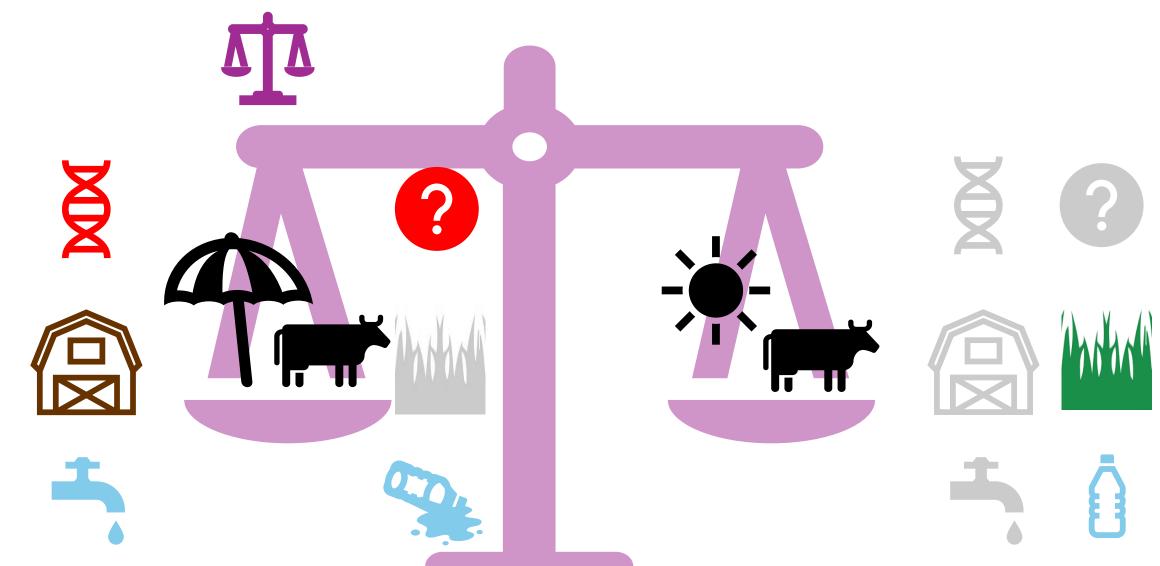
Sustainability



(EAAP, 2024)

(redrawn from von Keyserlingk et al., 2013)

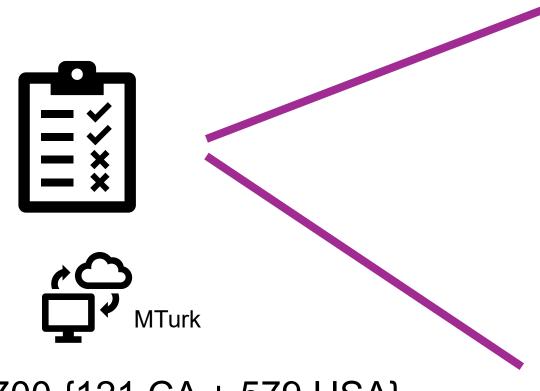
Heat stress management strategies vs. Concerns



(e.g., Yunes et al., 2021; Hendricks et al., 2022; Cardoso et al., 2018; Stampa et al., 2020; Drwencke et al., 2020)

Methods: Mixed Methods Factorial Survey

















= 2³ Farm Scenarios s

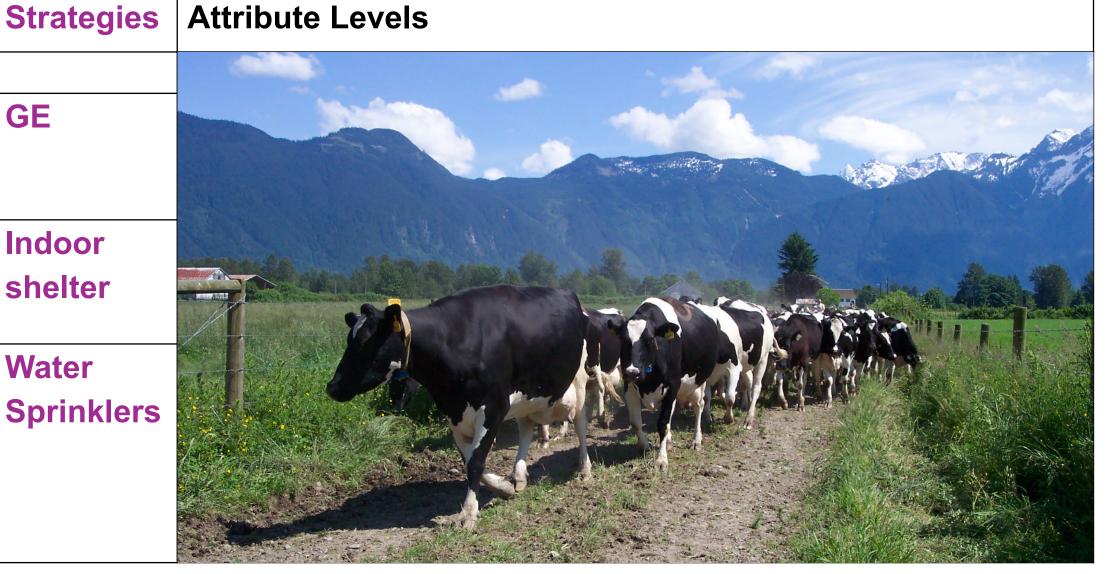














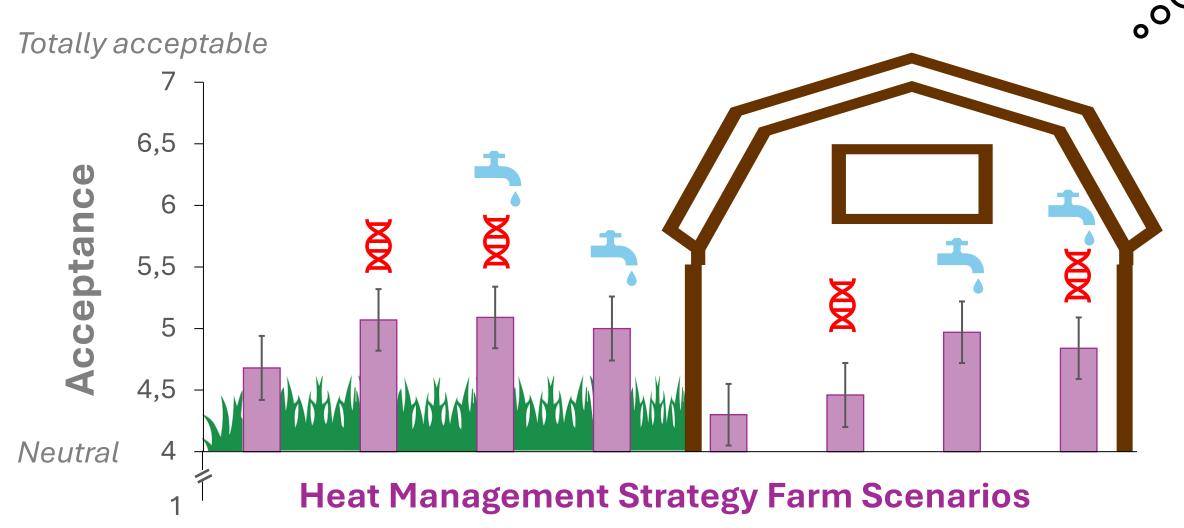
Results

Acceptance

Standard of Care

Quality of Life

Acceptance



Totally unacceptable



Outcome	Independent Variable		
Measurement (Perceptions)	X		-
Acceptance			+
Standard of Care			†
Quality of Life	\(\beta\)		†

Qualitative Responses

"It feels cruel to not provide the cows with any sort of time outdoors - even though it is to keep them safe, I feel that the cattle should ideally be allowed at least short intervals to pasture, even if it requires using extra water for cooling."

"...If dairy cows cannot survive in an environment, find another solution. Move to a more appealing climate. Don't bulldoze through Mother Nature for your convenience..."







(P876; Farm scenario using: GE, Indoor shelter, Sprinklers)

(P55; Farm scenario using: No GE, No Indoor shelter, Sprinklers)



Take Home





Multiple Strategies to Balance Trade-Offs

Technical or Restrictive "Panaceas"

Forced Trade-Offs

Thank you!









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