

Identifying, Measuring, and Mitigating Heat Stress in Cattle Systems

Animal-Level Measurements

Increased respiration



Outstretched neck

Heat stress will always be present in cattle systems.

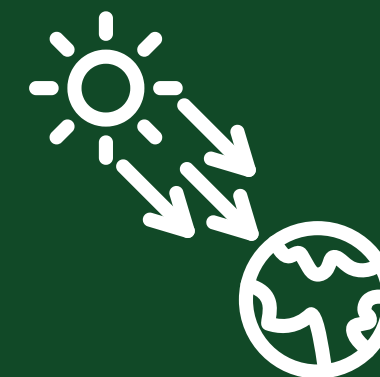
It is important to have methods to identify signs of heat stress to reduce the frequency, duration, and intensity.

Farm-Level Measurements

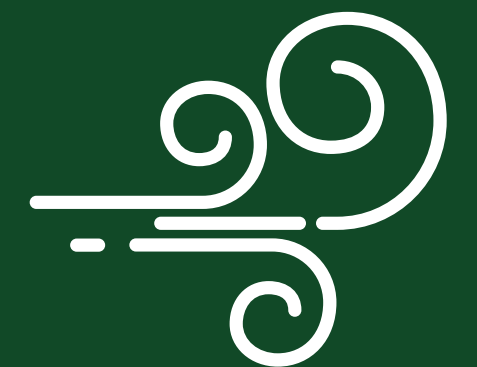
Temperature



Relative humidity



Solar radiation



Wind speed

Mitigation Strategies:

Providing shade relative to the sun

Having access to clean water with limited competition

Utilizing sprinklers on the animals and to wet the ground

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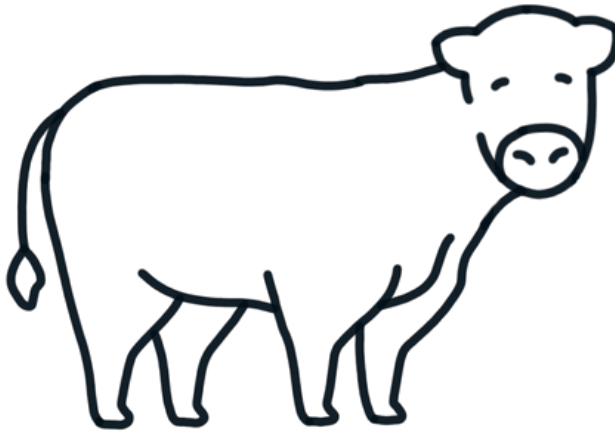
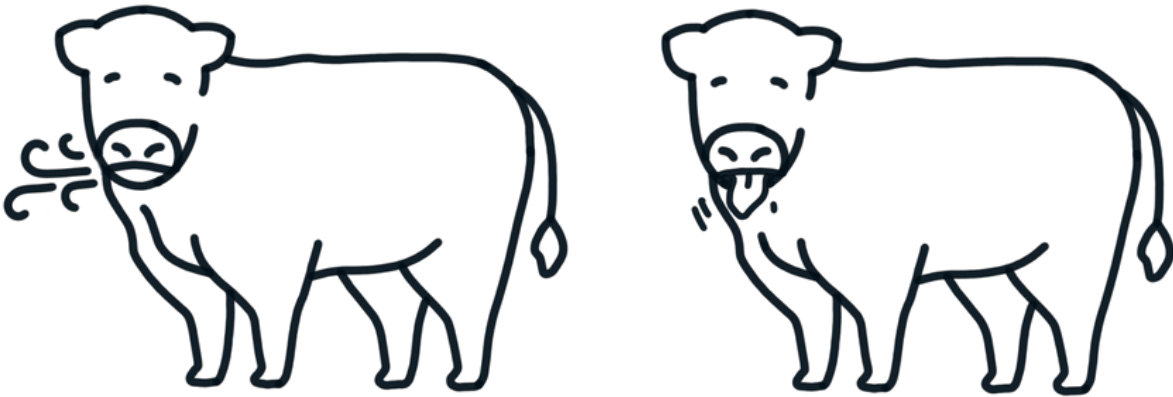
COLORADO STATE UNIVERSITY

SUSTAINABLE SOLUTIONS
FOR ANIMAL AGRICULTURE

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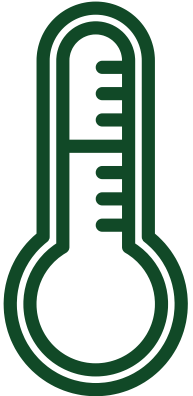
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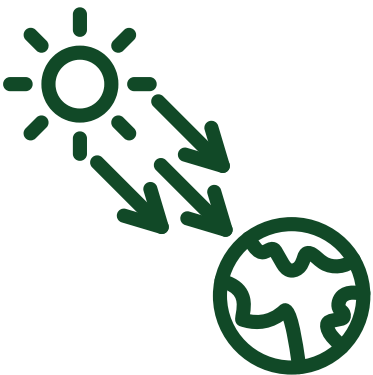
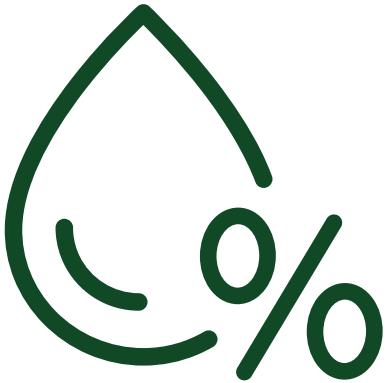
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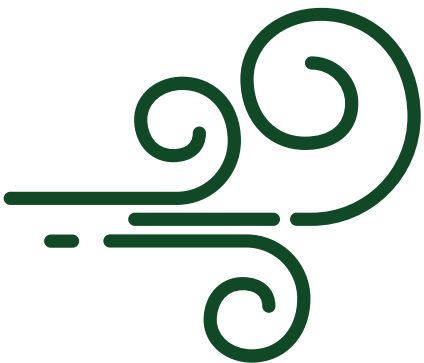
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Graphic informed by: Dr. Diego Manriquez (AgNext, 2023)