

RANCHING, RANGELANDS, AND RESILIENCE

*ensuring adaptive capacity in an increasingly
variable climate*

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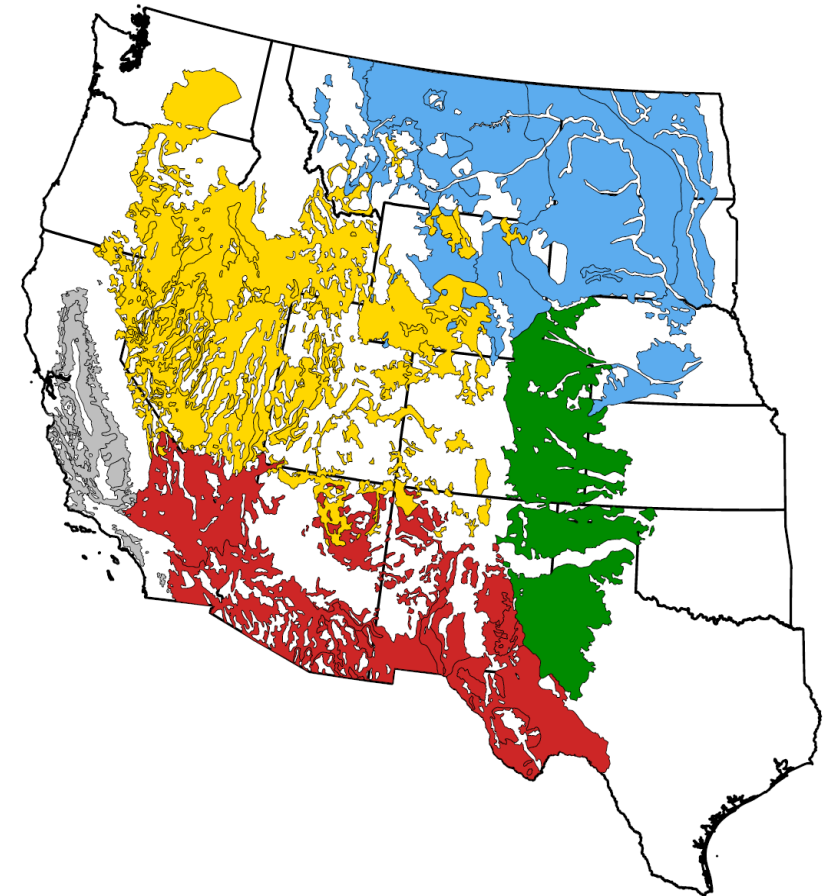
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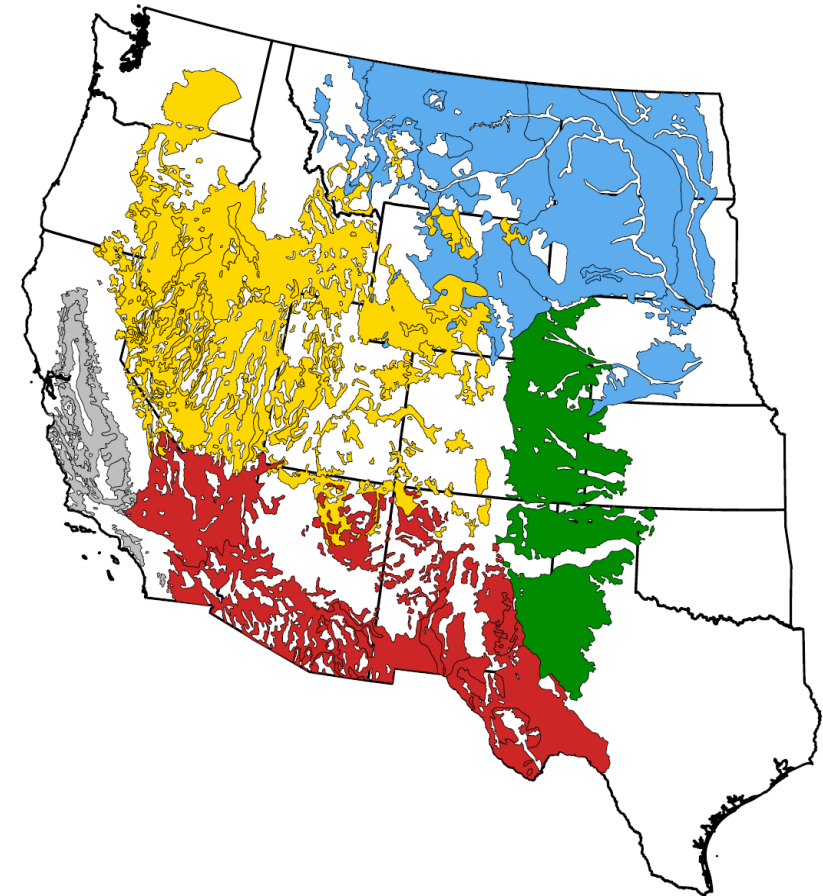


How will climate change impact rangeland production?

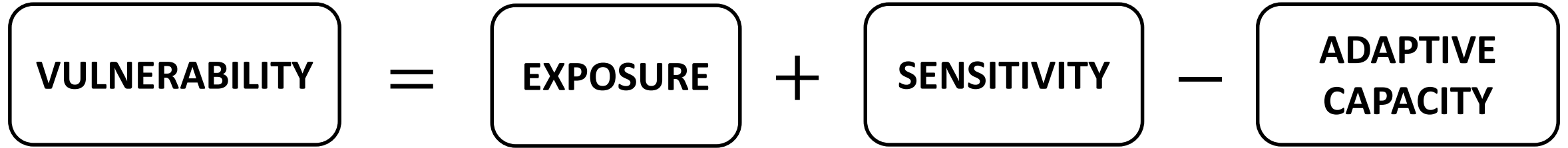


How will climate change impact
rangeland production systems?

**Where will climate change pose a
high priority threat to rangeland
production systems?**



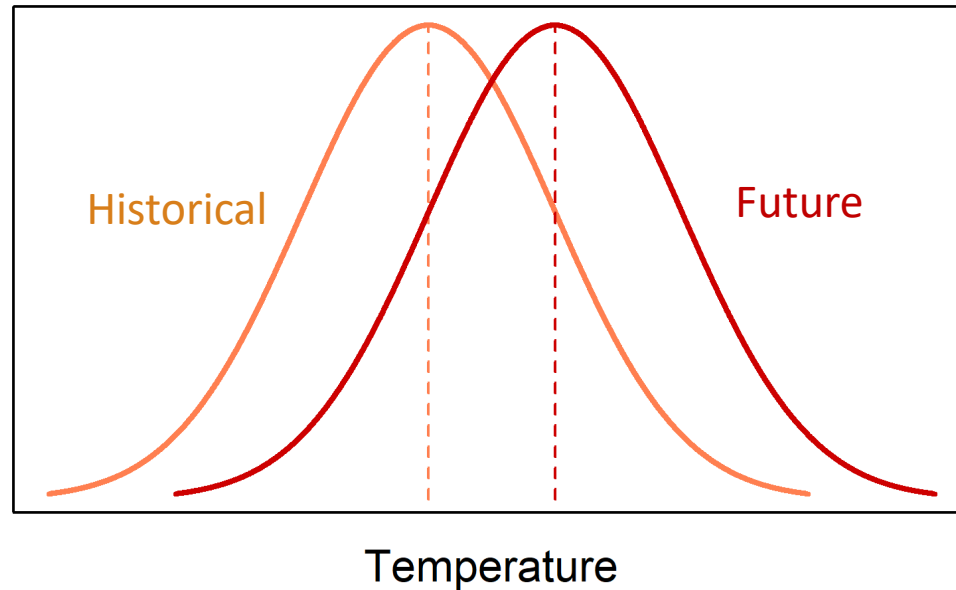
Vulnerability Assessment



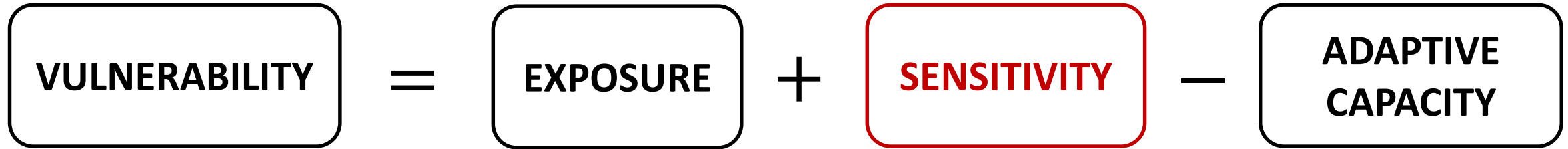
Vulnerability Assessment

$$\text{VULNERABILITY} = \text{EXPOSURE} + \text{SENSITIVITY} - \text{ADAPTIVE CAPACITY}$$

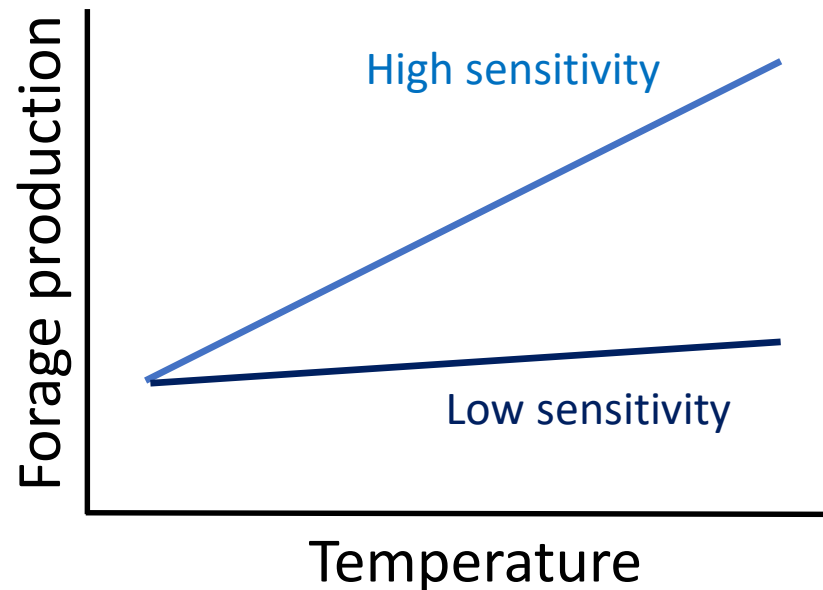
The magnitude of climatic change



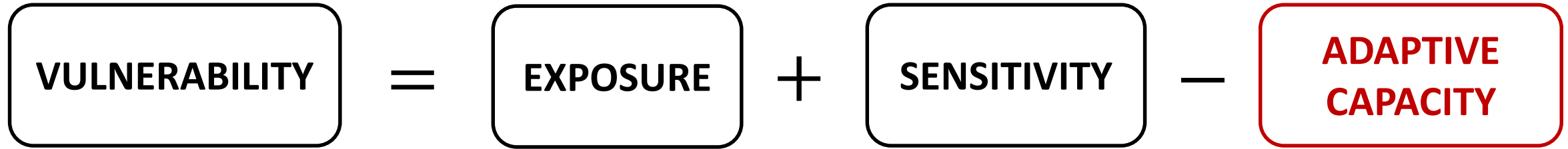
Vulnerability Assessment



The change in the response per unit of change in climate



Vulnerability Assessment



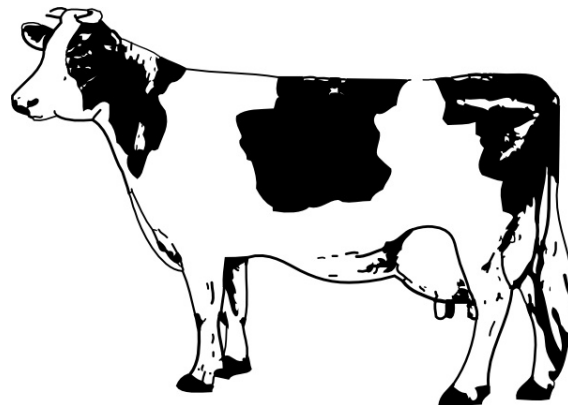
Potential for the system to change to reduce exposure or sensitivity

Natural Selection



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Artificial Selection



Range management



National programs

Disaster assistance (LFP)

Vulnerability Assessment

- Prioritize: where should producers and managers worry a lot about climate change impacts, and where should they worry more about other threats?

