

REVIEWER'S REPORT

Manuscript No.: JNAVES-028

Title: Climate Change and Livestock Production: Impacts, Adaptation Strategies, and Sustainable Management.

Recommendation:

Accept as it is

Accept after minor revision.....

Accept after major revision

Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality		✓		
Techn. Quality		✓		
Clarity	✓			
Significance	✓			

Reviewer Id: JPR-157

Reviewer's Comment for Publication.

The manuscript addresses a highly important and globally relevant topic concerning the impacts of climate change on livestock production systems and the development of sustainable adaptation strategies. The review is well structured, clearly presented, and provides a comprehensive discussion of major climate-related challenges affecting livestock, including heat stress, disease emergence, feed and water limitations, and extreme weather events. The manuscript effectively highlights the importance of climate-smart livestock management, genetic improvement, sustainable feeding practices, technological innovations, and policy support for improving resilience and sustainability in livestock systems.

Some minor revisions are recommended to further strengthen the manuscript. The authors should incorporate more recent scientific studies and updated global data regarding climate change impacts on different livestock species and production systems. The discussion on adaptation strategies would benefit from additional examples of successful implementation of climate-resilient livestock practices across different climatic regions. The mitigation section could be expanded with further discussion on emerging approaches for reducing livestock greenhouse gas emissions. Additionally, the reference list should be reviewed for completeness, accuracy, and consistency according to the journal's required formatting style. Minor language editing and proofreading are also suggested to improve readability and eliminate any repetitive statements.

Overall, the manuscript provides valuable insights into climate change challenges and sustainable livestock management strategies. Subject to the incorporation of the suggested minor revisions, the manuscript is recommended for publication.