

Review of: "Revitalizing Key Conditions and Integrated Watershed Management Approach to Sustain Water Availability and Agriculture in Semi-Arid Regions"

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Potential competing interests: No potential competing interests to declare.

Comments and suggestions:

1. The section on the characteristics and challenges of water availability and agriculture in drylands provides a good overview of the key factors that contribute to the challenges faced by farmers in semi-arid regions. However, it would be helpful for the author to provide more information on the geomorphometric characteristics of the watershed and how they impact water availability and agriculture. Below is the link for additional literature on watershed geomorphometry:

https://www.gjesm.net/article_34769_47aaa147f7962777b119a3e6b138e599.pdf

1. The author could discuss how changes in precipitation patterns and increased evapotranspiration rates due to rising temperatures are affecting crop yields and water availability. Providing more specific examples would help to illustrate the severity of the challenges faced by farmers in semi-arid regions and make the section more engaging for readers.
2. The article could benefit from more specific information on how to integrate the key conditions into the approach and how to implement the recommendations in practice. Providing more practical examples and case studies would help readers understand how to apply the recommendations in real-world situations.
3. The author could provide more information on the potential impact of climate change on the success of the integrated watershed management approach. Climate change is a critical issue that could significantly affect the success of the approach, and it would be helpful to include more information on how to address this challenge.
4. The section on stakeholder engagement could be expanded to provide more information on how to effectively engage stakeholders in the approach and the benefits of doing so. Additionally, the author could discuss how to address the challenges of stakeholder engagement, such as competing priorities among stakeholders or lack of trust in government institutions.
5. The section on monitoring and evaluation could be expanded to provide more information on how to effectively monitor and evaluate the approach and the benefits of doing so. The author could discuss specific metrics for evaluating the performance of the approach and how to address the challenges of monitoring and evaluation, such as lack of resources or technical capacity.
6. The article could benefit from more discussion on the role of community participation in the approach and how to effectively engage communities in the approach. The author could discuss specific strategies for engaging

communities and the benefits of doing so, such as increased ownership and sustainability of the approach.

7. The author could provide more information on the potential economic benefits of the integrated watershed management approach, such as increased productivity and income for farmers. Including more information on the economic benefits of the approach would help to make the article more relevant to policymakers and practitioners.
8. The article could benefit from more discussion on the potential challenges of implementing the integrated watershed management approach, such as lack of political will or competing priorities. Including more information on the challenges of implementation would help readers understand the potential barriers to success and how to address them.
9. The author could provide more information on the potential role of technology in the integrated watershed management approach, such as the use of remote sensing or precision agriculture. Including more information on the potential role of technology would help readers understand how to leverage technological advancements to improve the success of the approach.
10. The article could benefit from more discussion on the potential role of partnerships and collaborations in the integrated watershed management approach. The author could discuss how to build effective partnerships and collaborations among stakeholders and the benefits of doing