



Retracted: Climate Resilient Vegetable Farming: A Review

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Authors' contributions

This work was carried out in collaboration among all authors. Author S designed the study, performed the statistical analysis, wrote the protocol and wrote the first draft of the manuscript and managed the analyses of the study. Author PB managed the literature searches. All authors read and approved the final manuscript.

Article Information

DOI: 10.9734/JEAI/2021/v43i330657

Editor(s):

(1) Dr. Edgar Omar Rueda Puente, University of Sonora, Mexico.

Reviewers:

(1) Roberlucia Araújo Candeia, Universidade Federal de Campina Grande, Brazil.

(2) Mike Boni Bazza, Veritas University, Nigeria.

Complete Peer review History: <http://www.sdiarticle4.com/review-history/60833>

Review Article

Received 25 July 2020

Accepted 30 September 2020

Published 12 May 2021

ABSTRACT

Climate change is one of the global challenges faced by the mankind today with the continuously rising temperature, triggering a host of extreme weather events such as heat waves, drought, and flooding. These climate induced challenges are manifesting themselves rapidly, causing socio-economic insecurities and health challenges, particularly in marginalized communities. There is increasing evidence of indirect associations between climate change and the rise in the rates of malnutrition, poor health, hunger and starvation, as well as food and water insecurity. In addition, climate-change impacts have put an additional pressure on already stressed natural resource base, reducing the resilience of agro-ecosystems that are, in part, providing food and nutritional security in rural communities. Tackling these challenges requires a paradigm shift from the current incremental adaptation strategies towards transformative alternatives that also place an equal emphasis on human nutrition and health, as well as environmental sustainability. In the context of marginalized farming communities, a transformative adaptation strategy is defined as one that causes a disruptive, but desirable and sustainable change to the social– ecological state of the system. In the context of this paper, the inclusion of adaptable nutrient dense vegetable crops into marginalized agricultural systems and dominant food systems is considered part of transformative adaptation.

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