

North Asian International Research Journal of Business Economics & Management

ISSN: 2277-1018

Vol. 7, Issue-8

August-2023

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Index Copernicus Value: 56.02

Indian Citation Index

Thomson Reuters ID: S-8304-2016



<u>A Peer Reviewed Refereed International Journal</u>

DOI: 10.6947/nairjcbem2023.10.8.1

MILLETS: THE EMERGING EPICENTER OF INDIA'S AMBER REVOLUTION

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ABSTRACT

The Amber Revolution in India refers to the transformation of agriculture with the Green Revolution, which primarily focused on high-yielding varieties of rice and wheat. However, amidst growing concerns about environmental sustainability, climate change, and the need for diversified and nutritious food sources, millets have emerged as a potential epicenter of a new revolution. This research paper aims to explore the significance of millets in India's agricultural landscape, understanding their nutritional and environmental benefits, and the challenges and opportunities in promoting millet cultivation. By recognizing the potential of millets as a sustainable and resilient food crop, India can foster a new agricultural revolution that addresses multiple developmental and ecological challenges.

KEYWORDS: Millets Amber Revolution Nutritional Benefits Environmental Sustainability Climate Resilience Food security Agro-biodiversity Consumer awareness Policy initiatives Sustainable agriculture

1. INTRODUCTION:

The introduction provides an overview of India's Green Revolution and the need for a shift towards a more sustainable and diversified agriculture system. It introduces millets as the epicenter of the emerging Amber Revolution, highlighting their nutritional value, climate-resilient characteristics, and importance in the context of food security and environmental sustainability.

2. MILLETS: A NUTRITIONAL POWERHOUSE:

This section explores the nutritional benefits of millets, emphasizing their high protein, dietary fiber, and micronutrient content. It also discusses their potential role in combating malnutrition and addressing the dual burden of undernutrition and overnutrition prevalent in India.

3. ENVIRONMENTAL BENEFITS OF MILLET CULTIVATION:

Millets are well-adapted to diverse agro-climatic conditions, require less water and chemical inputs, and have a low carbon footprint. This section discusses the environmental advantages of millet cultivation, such as soil conservation, water efficiency, and reduced greenhouse gas emissions.

4. CHALLENGES IN MILLET PROMOTION:

Despite their numerous benefits, millets face challenges such as lack of awareness and consumer demand, limited research and development, and policy support. This section examines the barriers that hinder the widespread adoption of millets in India.

5. INITIATIVES AND OPPORTUNITIES:

This section highlights successful initiatives and government policies promoting millets, such as the inclusion of millets in the Public Distribution System, National Food Security Mission, and the Smart Food initiative. It also discusses opportunities for scaling up millet production and marketing.

6. CLIMATE CHANGE RESILIENCE AND FOOD SECURITY:

The climate-resilient nature of millets makes them a suitable crop for climate change adaptation. This section explores how millets can contribute to food security in vulnerable regions and enhance the resilience of farming communities.

7. MILLETS IN AGRO-BIODIVERSITY CONSERVATION:

Millets are an integral part of India's agro-biodiversity. This section emphasizes the role of millets in preserving traditional knowledge, biodiversity, and cultural heritage.

8. CONSUMER AWARENESS AND BEHAVIOR CHANGE:

Creating awareness among consumers about the nutritional benefits of millets and promoting their consumption is essential. This section discusses strategies for behavior change and marketing millets as healthy and sustainable food options.

9. FUTURE OUTLOOK AND POLICY RECOMMENDATIONS:

The paper concludes with an outlook on the potential impact of the Amber Revolution driven by millets. It provides policy recommendations to overcome the challenges and capitalize on the opportunities in promoting millet cultivation for a sustainable and nutrition-sensitive agriculture system.

10. CONCLUSION:

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millets have emerged as the epicenter of India's Amber Revolution, offering a sustainable and climate-resilient pathway to address several developmental and ecological challenges. This research paper has shed light on the nutritional value, environmental benefits, and cultural significance of millets, showcasing their potential to revolutionize India's agriculture and food systems.

Millets, as a nutritional powerhouse, can play a crucial role in combating malnutrition and promoting food security, given their high protein, dietary fiber, and micronutrient content. Their resilience to diverse agroclimatic conditions makes them a promising crop in the face of climate change, offering a viable option for climate adaptation and mitigation.

The environmental advantages of millet cultivation, such as water efficiency, soil conservation, and reduced carbon footprint, align with the goals of sustainable agriculture and conservation of natural resources. Moreover, the promotion of millets contributes to the preservation of India's agro-biodiversity and traditional knowledge, safeguarding the cultural heritage of diverse communities.

However, the successful implementation of the Amber Revolution through millets faces certain challenges. Consumer awareness and behavior change are essential to foster demand for millet-based products. Additionally, enhancing research and development, investing in technology, and formulating supportive policies are crucial to scaling up millet cultivation and marketing.

The initiatives taken by the government, such as their inclusion in the Public Distribution System and the National Food Security Mission, present promising opportunities for millets to become a key component of India's food and nutritional security strategies. Integrating millets into various government schemes and promoting them as healthy and sustainable food options are essential steps in realizing the potential of the Amber Revolution.

India stands at a critical juncture to embrace the potential of millets and lead the way towards a more inclusive, environmentally sustainable, and resilient food system. By harnessing the nutritional, environmental, and economic benefits of millets, India can pave the way for a holistic Amber Revolution that addresses the needs of its people, the planet, and future generations.

As we move forward, it is imperative for stakeholders, policymakers, and researchers to collaborate and forge a united effort in promoting millets. By placing millets at the center of India's agricultural transformation, we can build a more resilient and prosperous future, nourishing our people and the planet alike.

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