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A Study of the Economic Potential of Organic Fruits and their Products in Uttarakhand

Mukesh Kumar Verma[1]*, Manish Kumar Sinha[2], Abhay Mishra[1] and Km. Kavita[1]
[1]Faculty of Commerce & Management, Maharaja Agrasen Himalayan Garhwal University, Uttarakhand, India
[2]Education Development and Research Foundation, New Delhi
***Corresponding E. mail:** mkvnoida@gmail.com

Abstract

This Research paper has aimed to provide deep analysis of organic fruits and fruits' products in Uttarakhand State. Agriculture plays a pivotal role in economic development of any state. Agricultural products play a crucial role in regional development, social upliftment and economic mobility of any society which enabling fruit growers and business persons' world for better prospects. By addressing these needs, policy-makers and development agencies can signify improve quality of life, bridge regional disparities, and preserve the socio-cultural fabric of this hilly state, making this state more self-sufficient and resilient. Good environment and supports from local authorities and State Government, farmers are growing organic products – vegetables, grains, pulses, fruits, etc. and their byproducts. have helped people of the State in improving living standard and directly affects the growth of society, villages, etc. Farmers have seen organic farming helpful in increasing soil fertility, foodgrains-fruits productivity. This type of farming is more profitable for farmers and fruit growers of the state. Farming using organic methods is directly increasing the income of farmers and makes more competitive in market.

Keywords: *Organic Fruit Products; Organic Farming; Soil Fertility; Fruit Productivity; Increases Income etc.*

Introduction

Uttarakhand State of India is situated in the northern part of India, is known for its challenging terrain, tourism, medicinal herbs, specialized masala - food grains – fruits – organic products etc. Due to the negative effects of traditional farming, the dangers of chemical inputs, and concerns about chemicals in food and its long-term sustainability, sustainable agriculture has grown to be a well-known agricultural movement worldwide. By farming without the use of herbicides, pesticides, or genetically modified organisms, it aims to protect the ecosystem. In addition to other natural pest treatments, it makes use of crop rotation, green manure, and animal waste (IFOAM, 2005). With an emphasis on regular integrated farming animal husbandry and a sustainable environment, Uttarakhand is one of the top states in India for organic farming practices. Due to farmers' restricted access to agrochemicals and the poor crop responses to chemical fertilizers in rainfed locations, the majority of traditional hill farming in Uttarakhand is maintained organically by default (Maikhuri *et al.,* 2015). On the trust scale, 40% of the state's farmers responded highly, suggesting that they usually have a favourable attitude of organic farming. They recognize the advantages of safe food, fertile land, and environmental sustainability, but they still lack sufficient understanding regarding criteria for input and certification procedures. The study emphasizes the significance of training, awareness initiatives, and dependable market backing to encourage the implementation of sustainable farming (Singh and George, 2012; Singh, *et al.,* 2025).

In this Research paper, the Researcher has tried to outline about organic fruits and fruits' products in this hilly State of India and their impact on economic development. As a Himalayan State with diverse agro-climate zones and rich biodiversity, Uttarakhand offers ideal conditions for organic farming. The growing demands for chemical-free, health-conscious foods have created a significant opportunity for the organic sector, particularly in fruits like kafal (bayberry), burans, bedu, hisalu, timla, apple, pear, plum, peach, walnut, siriphal, ghinguru,

mulberries, Khubani, citrus fruits – along with value-added products such as juices, jams and dry fruits. These fruits are low in calaries but beneficial in many health issues. These fruits are easily available in local markets of the state. Uttarakhand is leading producer of many organic fruits in India – khumani, bedu, hisalu, timla, kafal, malto etc. Among these fruits, have many anti-inflammatory, antioxidant properties and full of vitamins etc. whereas siriphal -known as the fruit of Goddess Laxmi. This fruit has a great role in holy rituals and is offered to God in almost all puja. Organic farming in this state area has increased upto 725% approx. in during the last 10 years (Singh, *et. al.,* 2025).

The Research identifies a rising trend in organic fruit farming across many districts of this state – Almora, Nainital, Pithoragarh, Pauri Garhwal, Rishikesh, Dehradun, Tehri Garhwal, Udham Singh Nagar etc. These changes for farming/growing of fruit and organic fruits have been possible due to support of State Government and local authorities as well as different schemes of Central and State Governments. However, fruits' growers face multiple challenges including limited market access, high certification costs, lack of awareness, difficult terrain locations in hilly areas, etc. Difficulty in providing infrastructure facilities due to locational disadvantages is also one of the main reasons for low fruits/organic fruits cultivation.

In recent years, the demand for organic products has witnessed a significant surge across the globe, driven by growing health consciousness, environmental awareness, and concerns about food safety. Among these products, organic fruits and their derivatives – such as juices, jams, preserves, pickles and dried fruits – have gained considerable popularity due to their perceived health benefits and natural production methods. In the Indian context, the organic movement has gained considerable momentum, with various states adopting organic farming practices to meet both domestic and international market demands. Uttarakhand, a hilly state in northern India, has emerged as a frontrunner in promoting organic farming, particularly in the domain of horticultural products.

Uttarakhand's geographical and climatic diversity, ranging from subtropical plains to alpine highlands, provides an ideal environment for cultivation of a wide variety of fruits such as apples, pears, plums, peaches, apricots, walnut, and citrus fruits, etc. The State's agro-climate conditions, combined with traditional and eco-friendly farming practices, have long favored organic methods – even before the term "organic" became a formal agricultural category. In Year 2003, the Uttarakhand Government officially declared its intention to become a fully organic state, aligning its agricultural policies to promote organic farming and minimize the use of synthetic chemicals. This initiative has resulted in the expansion of organically certified farmlands, the establishment of organic clusters, and an increase in awareness among farmers and consumers alike (UK.GOVT. (2026).

The organic fruit sector in Uttarakhand holds immense potential not only for enhancing rural livelihoods and promoting sustainable agriculture but also for contributing to the economic development of the state. Many small and marginal farmers in the hilly regions rely heavily on fruit cultivation as a primary source of income. By adopting organic practices, they not only reduce input costs but also gain access to premium markets that offer better returns. Furthermore, fruit-based value-added products such as juices, dried fruits, squashes, and jams have opened up new avenues for rural entrepreneurship, particularly among women and self-help groups.

In this modern era, due to continuous increasing population, environmental pollution, conservation of soil fertility and human health, the path of organic farming is truly very beneficial. For the long run, it in necessary that natural resources should not be polluted and nutritious food grains must be available. We have to adopt organic methods organic agricultural methods which shall be able to provide food items to all people without polluting the natural resources.

The main objectives of this are – I. to produce high quality food items is large quantities II. proper use of natural resources III. to maintain soil health and long-term fertility of the soil IV. to avoid all pollution caused by agriculture techniques V. to accelerate biological cycle by using plants and animals VI. to provide maximum to farmers of this state with safety.

In India and in many states, organic farming programs are running under centrally funded schemes apart from state government funded organic farming schemes:

I. Rashtriya Krishi Vikas Yojna II. Paramparagat Krishi Vikas Yojna III. Cleanliness Action Plan – Namami Gange Clean Campaign IV. National Mission on Natural Farming. (GOI 2025)

Despite these advantages, the organic fruit sector in Uttarakhand faces several challenges,

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including inadequate market linkages, lack of awareness about certification procedures, insufficient infrastructure for processing and storage, and limited research and extension services. The role of cooperatives, NGOs, and government schemes becomes crucial in addressing these gaps and creating a robust ecosystem that supports organic fruit production and marketing.

This study aims to explore the current status, opportunities, and challenges associated with the organic fruits and fruits' products sector in Uttarakhand. It seeks to access the impact of organic initiatives on local communities, evaluate the effectiveness of government policies, and identify areas for future development. By analyzing both the production and value chain dynamics, the study endeavors to provide comprehensive insights into how Uttarakhand can strengthen its position as a hub for organic fruit production and contribute to a more sustainable agriculture future.

As per the topic – "Study and Analysis of Organic Products specially Fruits and fruits' products in Uttarakhand and scopes in economic development of Uttarakhand State"; team members conducted survey and quarried to many peoples of the State. Two hundred designed questionnaires were put forward before people of different segments in the villages and cities of the State. The main objectives of the research were:

- To access the current status of organic fruit cultivation in Uttarakhand
- To analyze the value chain of organic fruit products
- To identify the major opportunities in the organic fruit sector
- To examine the challenges faced by organic fruit farmers and producers
- To evaluate the role of government policies and support programs
- To study consumer awareness and demand trends for organic fruit products
- To promote sustainable agricultural practices in the hill regions of Uttarakhand
- To recommend policy measures and strategies for strengthening the organic fruit sector

By using organic food products, people, farmers get following benefits:

1. Consuming higher nutritional value
2. Saving from consuming harmful chemicals
3. We enjoy better test and freshness
4. Consuming no harmful chemicals
5. Water Conservation and better drinking water quality
6. Biodiversity protection
7. It helps in reducing carbon footprint.
8. It improves soil fertility and structure
9. Farmers /businessmen get good prices for their products
10. Good export opportunities
11. People of Hilly areas have more employment opportunities
12. Farmers of this region receive traditional knowledge and how to keep strict vigil/ farming security and food security.
13. Farmers / businessmen get awareness about healthy lifestyles, safe eating food habit, environmental responsibilities at the community level.

Following are the disadvantages of growing organic fruit farming:

1. People have to pay high cost for organic food/fruits' products
2. Farmers, entrepreneurs get lower yield as compared to conventional farming using pesticides, chemical fertilizers etc.
3. It is shorter life span and need to consume quickly without use of preservatives on fruits.
4. There is always time consuming, costly and involves complex documentations for obtaining license / certification of organic fruit and fruit products.
5. Farming management and keeping insects in control due to different environmental issues and change of weather is difficult.
6. It increases labour cost as manual labour for activities like weeding, composting, pest control etc. which directly increase cultivation cost of fruits which impact the sale.
7. There is always difficult to access market and manage supply chain in hilly state Uttarakhand due to geographical reasons.
8. In India and specially Uttarakhand State, farmers or business persons are not able to meet the high demand of organic fruits in International and national market and believing on organic products among people are very difficult due to awareness and lack of knowledge, etc.

A structured questionnaires consisting of 10 questions were designed for conducting Survey by the researchers and team members in many parts of the State. Based on the survey reports, interviews, interactions with people and farmers; following are the findings question-wise:

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Table 1: findings questions

S.N.	Questions asked to different people	Finding of Survey Report in %
1.	Are people aware about the Organic fruits and organic fruits products?	72
2	Are farmers are getting benefits of government schemes for growing organic fruits?	67
3	Is transportation is main reasons in hilly areas for less interest in growing fruits and organic fruits?	61
4	Are insufficient infrastructure facilities one of the reasons for less interest among farmers/ people in growing fruits/ organic fruits?	48
5	Are people receiving financial aids/help without inconvenience from different financial institutions/banks?	78
6	Are you satisfied with the different schemes of District Industry Cell/Agriculture Department of the State in providing information or helping in obtaining loan from financial institutions?	65
7	Are you satisfied with behavior of the Officers/staff of State Govt. for helping people in providing helps, information, financial aids, infrastructural facilities?	70

This research paper will be instrumental to help people, farmers, entrepreneurs, policy makers, government establishment on following points:

1. It will help to address the rising demand for organic products
2. It will help to utilize Agro-Climatic advantages of the region
3. It will improve farmers' incomes and rural livelihoods
4. It will promote environmentally sustainable farming practices
5. It will help in identify gaps in infrastructure and market access
6. It will help in encouraging value addition and entrepreneurship
7. It will help in enhancing export potential
8. This research paper may act as instrument to educate and build trust among consumers, etc.

During research, we found the following major's players /organizations who are directly or indirectly involved in organic fruits farming/business: 1. Navdanya, Dehradun – Founder Dr. Vandana Shiva (NGO based cooperative) 2. Avani Bio Energy and Organic Products in Kumaon Region 3. Simond Tea and Organics, Haldwani 4. Uttarakhand Organic Commodity Board of Uttarakhand State Govt. etc.

People are earning money and getting benefits by selling their fruits and fruits' products in different markets of the state and other states of India and abroad. Obviously, income of farmers and people have increased and directly/indirectly helped their economic and social status. The dependents of fruits growers have also benefitted and their kids also benefitted by cashing good education, facilities and high living standard.

Conclusion

This research paper will help to the farmers & people of the State for increase their interest in growing fruits and fruits products as there are very good schemes of the State Govt. which are really helping in this fruits farming. There are good chances of becoming entrepreneurs in this sector and many start-ups will come forward in near future in this sector or segment. Uttarakhand is among top growing fruits in hilly states of India. Generally, in Kumaon Region, people are more interested in growing fruits in respect of Garhwal Region.

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