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Environmental and Economical Impact Of Organic Farming on Rural Area Of Kolhapur District

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Abstract: Organic farming is providing various types of benefits to human but it's also protecting Environment. Organic farming plays important role in economy. It helps to increase Economic Growth Rate. Organic farming provides long term effect to environment and economy. Its maintained biodiversity, soil fertility, water conservation, livestock productivity for long term and provide long term stability. Organic farming avoids the use of chemical fertilizer, pesticides. Organic farming practice more traditional method of fertilization and pest control, such as crop rotation, mulching, natural pest and insect control method.

Keywords: Organic farming, Environmental impact, Economical impact.

1.0 INTRODUCTION

1.1 CONCEPTUAL BACKGROUND OF ORGANIC FARMING

Organic agriculture is defined formally by governments. Farmers must be certified for their produce and products to be labeled "Organic" and there is specific organic standard for crops, animal and wild-craft products and for the processing of agriculture products. Organic farming agriculture system that uses ecological fertilizer derived largely from animal and plant wastes and nitrogen-fixing cover crop. Modern organic farming was developed as a response to the environment harm caused by the use of chemical pesticides and synthetic fertilizer in conventional Agriculture and it has numerous ecological benefits. (shi-ming MA, Saureborn Joachim March 2006) Compared with conventional agriculture, organic farming uses fewer pesticides, reduces soil erosion, decreases nitrate leaching into groundwater and surface water, and recycles animal wastes back into the farm. These benefits are counterbalanced by higher food cost for

consumers and generally lower yields. The challenge for future organic agriculture will be to maintain its environment benefits, increase yield and reduce price while meeting the challenges of climate change and an increasing world population.

1.2 CHARACTERISTICS OF ORGANIC FARMING INCLUDE:

1. Organic farming helps to protect soil fertility, soil structure and also help to encourage biodiversity. (SmrutiSohani 2019)
2. Organic farming provides more nutritional product. Organic fruit, vegetable is free from chemical.
3. In organic farming different methods are used like biological nitrogen fixation, livestock, and manures. (Me. Elayaraja, Dr,C.Vijai 2020)
4. For control weed, pest, and diseases use the crop rotation method organic manure and resistance free varieties.

1.3 Scope of organic farming

Organic farming provides more benefits than conventional farming. Large scale farming provides employment opportunity and economic benefits to local communities. It helps to increase economic growth rate and protect environment, animal welfare. Its free from

2. **Soil Management** : In agriculture practices the crops are affect the soil structure and soil nutrients. Organic farming is help to increase soil structure, soil fertility, soil nutrients.000
3. **Weed Management** : In agriculture for control weed, pest, diseases use different type of chemical, fertilizer and pesticides it is harmful for the Soil, Human, and Animal. Organic farming product is fully free from chemical and pesticides use compost and fertilizer, vermicompost for required good soil structure. Organic products are more nutritional value and maintain good health. (Madhusudhan L. J 2016)
4. **Livestock** : In organic farming livestock method is most importantit helps to improve soil fertility and increase diversity of the farm system.
5. **Genetic Modification** : Organic farming is using the organic components like compost, vermicompost for control weed, pest and diseases it helpful for soil, plant, Human, Animal also, in organic farming different method are used like crop rotation, weed management, soil management.

1.5 ADVANTAGES OF ORGANIC FARMING

synthetic and chemical fertilizer. (Mr.Sunil Kumar, 2019)

1.4 ORGANIC FARMING METHODS

1. **Crop Diversity** : In organic agriculture crop diversity means a various type of verities of crop can be cultivated for increasing the demand of crop in market.
1. **Economical**: In organic farming use homemade fertilizer it helpful for minimize fertilizer cost and not need to required high yield verities for more production. (Food and Agriculture organization of the united Nation)
2. **Good return on investment**: In organic farming not need the more costly equipment use the cheaper and low inputs for cultivation of organic farming.
3. **High Demand**: Organic products are more demanded it is grow naturally its more nutritional values and protect the human health.
4. **Nutritional**: Comparison of agriculture products organic products are more nutritional value because it is free from insecticides and pesticides.

1.6 Organic farming effect on environment

Organic agriculture is applied a long-term effect on eco-system. Its provide protective approach towards the environment. (TizianoGomiero, David Pimentel and Maurizio G. Paoletti, 2011).Some of the environmental area which gets impact by use of chemical fertilizer is follow.

1. **Soil** : Highly usage of chemical fertilizer and pesticides affect the soil fertility, soil structure and reduce soil

nutrition capacity. For this organic farming help to practices of soil building like crop rotation, intercropping, use of homemade fertilizer.

2. Water : Use of chemical fertilizer, pesticides is create bad effect on pollution of groundwater in organic farming use a fertilizer like earthworm, green manure, animal west it helps to maintain soil biodiversity and water infiltration is significant enhanced.
3. Biodiversity : Nitrogen is a major ingredient in inorganic fertilizer its affect on biodiversity. In Organic farming fertilizer no use any harmful substance than organic farming provide safe haven to wildlife, local ecosystems to maintain environment. (UrsNiggli 2014)
4. Long term Sustainability : Organic farming provide a positive and protective approach towards the environment it helpful for maintain long term sustainability for production of food.
5. Air and climate change : Inorganic fertilizer is a toxic substance it's not good for human and environment. In organic farming homemade fertilizer and different organic farming method like crop rotation is practiced. It enhances the return of carbon in the soil mains it does provide good potential of agriculture against climate change.

2.0 OBJECTIVES

1. To evaluate the environmental impact of organic farming.
2. To Analysis the impact of organic farming on rural economy.

3.0 METHODOLOGY

SECONDARY DATA

1. The internet was accessed for related valuable information on the subject matter.
2. Literature such as related thesis and journals was reviewed on impact organic farming

PRIMARY DATA

1. Questionnaires containing close and open-ended questions was prepared and administered in the study area to obtain facts opinions views of respondents (farmers)

1.1 SAMPLING DESIGN:

There are 12 Talukas in Kolhapur district the researcher will be select four talukas (Panhala, Shahuwadi, Kagal, GaganBavada) for research study in organic farming is maximum in the four Talukas. PanhalaTaluka there are 131 villages, in Shahuwaditaluka 146 villages, Kagalataluka 86 villages and GaganBavada 45 villages. The researcher selected 5 villages in each Taluka selected for research study. 10 Farmers were selected by convenience sampling from each village.

District: Kolhapur, Talukas:12

Selected Talukas	Villages	Number of farmers selected
Panhala	Kotoli	10
	Malwadi	10
	Wayoli	10
	Majnal	10
	Asurleporle	10
Shahuwadi	Kekatwadi	10
	Ghungur	10
	Thamkewadi	10
	Bambawade	10

	Pushire	10
Kagal	Tembli	10
	Bachni	10
	Vanali	10
	Vadkshivale	10
	Beldvde	10
Gaganbavada	Kerve	10
	Asandole	10
	Tesange	10
	Salvan	10
	Mhalunge	10
Total		200

Hence number of villages studied was 20
Total number of farmers' studies was 200

4.0 DATA ANALYSIS

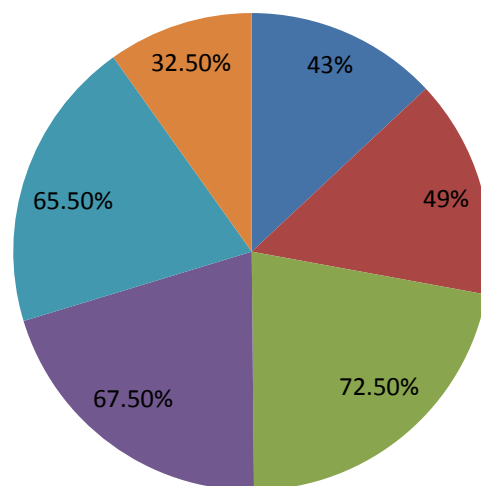
Organic farming is protecting environmental and maintains long term stability. This table shows that the majority of farmers is Agree and strongly agrees for organic farming impact of environment and economy.

Table Number: 4.1

Particulars	Response	Number of farmers	Percentage
Organic farming improve soil fertility and soil structure	Agree	86	43%
Organic farming protect animal welfare	Strongly agree	68	49%
Protect environment	Strongly agree	145	72.5%
Fights again global warming	Strongly agree	135	67.5%
Encourage biodiversity	Strongly agree	131	65.5%

Minimize all forms of pollutants and bring sustainability	Agree	65	32.5%
Total		200	

Graph Number: 4.1



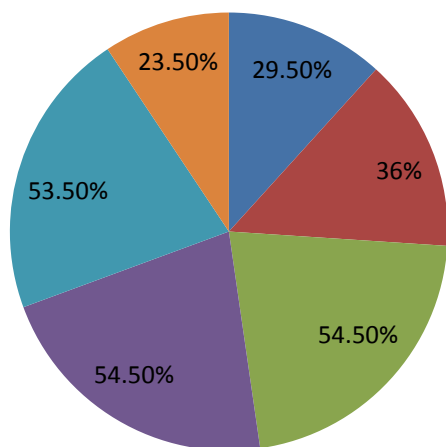
- Organic Framing Improve Soil Fertility and Soil Structure
- Organic farming protect animal welfare
- Protect environment
- Fights again global warming

Table Number: 4.2

Particulars	Response	Number of farmers	Percentage
Organic farming helps to solve money problem if you grow	Neither Agree nor disagree	59	29.5%

organic plant			
Save production cost	Strongly agree	72	36%
Receive higher pries	Agree	109	54.5%
Improve crop production and livestock production	Strongly agree	108	54.5%
Increase cropping intensity	Agree	107	53.5%
Provide good opportunity to rich other market	Agree	47	23.5%
Total		200	100

Graph Number: 4.2



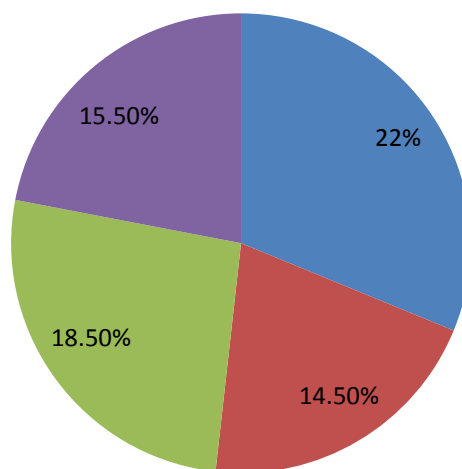
- Organic Framing helps to solve money problem if you grow organic plant
- Save production cost
- Receive higher pries
- improve crop production and livestock production
- increase cropping intensity

Table Number: 4.3

How to help organic farming saving money if you grow your own organic plant

Particulars	Number of farmers	Percentage
Use compost for fertilizer	44	22%
Use different irrigation method	29	14.5%
Less cultivation cost	37	18.5%
Use mulching than required less quantity of labour	59	15.5%
Total	200	100

Graph number: 4.3

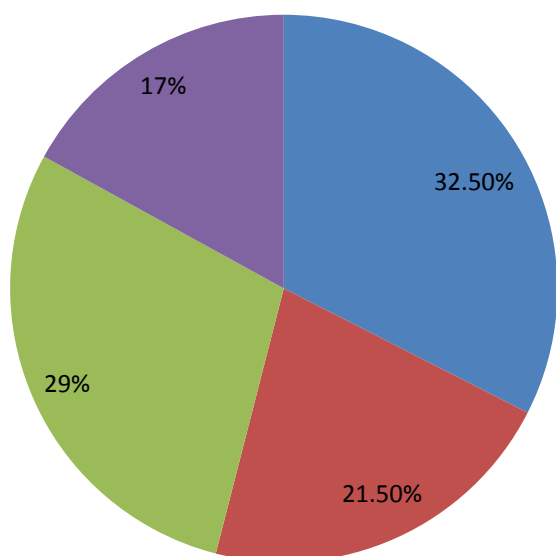


- Use compost for Fertilizer
- Use Different Irrigation
- Less Cultivation Cost
- Use mulching than required less quantity of labour

Table number: 4.4
Organic farming can protect the environment

Particulars	Number of farmers	Percentage
Free from pesticide	65	32.5%
Maintain soil fertility	43	21.5%
Water conservation	58	29%
Free from insecticides	34	17%
Total	200	100

Graph number: 4.4



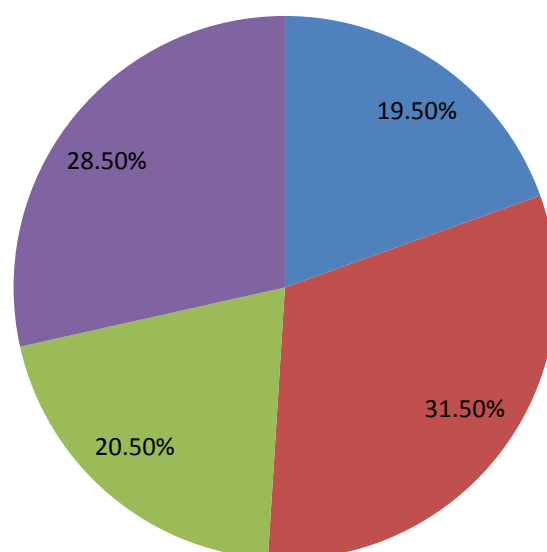
- Free from pesticide
- Maintaining soil fertility
- Water conservation
- Free from insecticides

Table Number: 4.5
Organic farming Fights against Global Warming

Particulars	Number of farmers	Percentage
Build farmer knowledge to maintain climatic changes	39	19.5%

Help to adopt to climate change through strengthening Agro ecosystem	63	31.5%
Maintain soil fertility	41	20.5%
Maintain ecosystem	57	28.5%
Total	200	100

Graph Number: 4.5



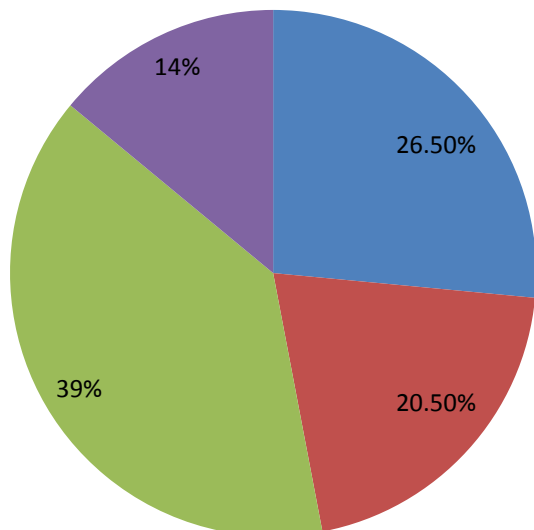
- Build farmer knowledge to maintain climatic changes
- Help to adopt to climate change through strengthening Agro ecosystem
- Maintain soil fertility
- Maintain Ecosystem

Table Number: 4.6
Organic farming saves production cost

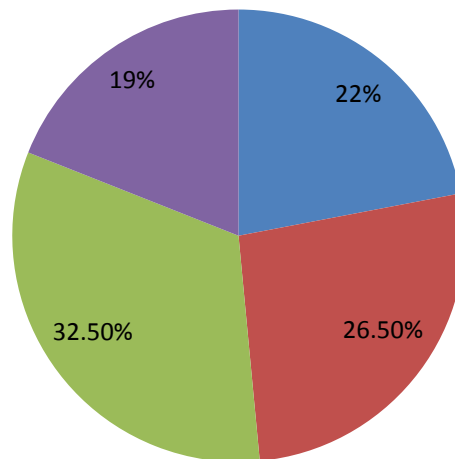
Particulars	Number of farmers	Percentage
No use of chemical fertilizer to save production cost	53	26.5%
Use different method	41	20.5%

Use homemade compost	78	39%
Use mulching	28	14%
Total	200	100

Graph number: 4.6



- On use of Chemical Fertilizer to save production cost
- Use different method
- Use home made compost
- Use Mulching



- Use Compost
- Use different irrigation method
- Use different cultivation
- Earthworm Fertilizer

5.0 CONCLUSION

Organic farming is good scenario for environment and animal is protecting the human life and encourage farmers to grow organic. It's providing good employee opportunity for rural people. Organic farming is protecting environment, maintain biodiversity and livestock productivity helps to increase economic growth rate for long term. Hence organic farming method is providing good opportunity for farmers.

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Table Number: 4.7
Usefulness of organic farming in improvement of crop productivity and livestock productivity of rural economy

Particulars	Number of farmers	Percentage
Use Compost	44	22%
Use different irrigation method	53	26.5%
Use different cultivation method	65	32.5%
Earthworm Fertilizer	38	19%
Total	200	100

Graph Number: 4.7

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