

ISSN: 2357-1330

https://doi.org/10.15405/epsbs.2019.12.04.192

SCTCMG 2019

International Scientific Conference «Social and Cultural Transformations in the Context of Modern Globalism»

SOCIOECONOMIC PREREQUISITES FOR DEVELOPMENT OF ORGANIC FOOD PRODUCTION IN SOUTHERN MACROREGION

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Abstract

The paper presents the sociological study "Attitude of the population of the south of Russia to organic food" conducted in Stavropol Krai in October, 2018. The survey of 235 respondents of different age groups revealed the readiness of the population and producers to develop the market of organic food in the region. The study covered the analysis of the need of local organic production and consumption by the population of eco-friendly goods for the Russian conditions in terms of regional social and economic conditions of the consumer market. According to almost a half of survey participants from among the residents of Stavropol Krai, the expansion of organic food production in Russia is quite urgent and is perspective these days. Thus, the respondents were positive about the prospects of expanding the production and sale of organic food. The survey assessed the existing mechanisms of development of the market of organic food production in Russia. Ranking of possible actions, which, according to survey participants, may positively impact the development of the market of organic food production in Russia, demonstrates that in order of importance the outright ban on the use of pesticides, stimulators, GMOs takes the first place. The government subsidies to farmers and producers of organic products take the second place. The propaganda of healthy diet holds the third place. The adoption of laws and clear norms on certification of organic products in Russia takes the fourth place. Public awareness on advantages of organic products takes the fifth place.

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Keywords: Organic food, social and economic prerequisites, consumers, producers.



1. Introduction

Modern global consumer trends in the sphere of food confirm the interest in the issue of social and economic prerequisites to develop the production of organic food. The increasing need for quality food appeared against the background of conditions and requirements to develop the modern market of food consumption: the need to expand agricultural production to the detriment of its quality, to increase the terms of storage due to development of distribution networks and transportation of goods, etc.

Traditionally the South of Russia is the territory where small producers, farmers, personal households account for a considerable share of organic food in terms of their characteristics. Therefore, the development of organic food production from the perspective of consumers and producers of these products seems quite relevant.

2. Problem Statement

In recent years the increased attention to healthy diet, and hence to organic food and eco-friendly agricultural products became a relevant global trend, which is confirmed by the review of publications in the Scopus database. The publications refer to the study of such issues as consumer preferences in the choice of organic food, evidence-based improvement of the quality of organic food, organic production of agricultural goods as safe raw materials for processing industry (Gerhardt, Schwolow, Rohn, Arce, & Weller, 2019; Elias, Okoth, & Smaling, 2019, Tirloni, Stella, Bernardi, Dalgaard, & Rosshaug, 2019; Siedler, Balti, & Neves, 2019).

Some publications characterizing organic food are devoted to the optimization of chemical composition of organic food that makes them more useful. Thus, the publication *Effect of organic acids on bread quality improvement* (Su, Wu, Zhang, Jin, & Xu, 2019) presents the study aimed to improve the quality of bread by adding the ingredients of acetic, dairy, apple and lemon acids. The basic mechanism was studied through changes in barmy activity. All organic acids gave bread higher specific volume, lower moisture content, lower pH value and lower hardness. The study proved that the addition of organic acids in the course of cooking positively affects the quality of bread and its flavor characteristics.

Similar comparative study of the chemical composition of organic products was conducted to define the concentration of biologically active components in organic and standard marinated red paper. This is described in the publication *Polyphenols and carotenoids in pickled bell pepper from organic and conventional production* in (Hallmann, Marszałek, Lipowski, Średnicka-Tober, & Rembiałkowska, 2019). The experiments confirmed that fruits have different content of solids, polyphenols and carotenoids: standard marinated red pepper fruits were richer with phenolic acids, while organic samples contained much more flavonoids.

In general, it is possible to conclude that the scientific community shows a lot of interest in organic food. The publications are devoted to the attitude of the population to organic food and to their conditions and stages of production. The review of publications confirms the relevance of the study (Iweala, Spiller, & Meyerding, 2019; Petousi, Daskalakis, Fountoulakis, Stentiford, & Manios, 2019; Zahedipour, Asghari, Abdollahi, Alizadeh, & Danesh, 2019; Yin, Hu, Chen, Wang, & Chen, 2019).

3. Research Questions

The study covers the analysis of consumers and producers of organic food in the south of Russia, as well as their opinion on the development of the global "organic" trend in a particular region.

4. Purpose of the Study

The purpose of the study is to define social and economic prerequisites of development of organic food in southern Russia.

5. Research Methods

The sociological study "Attitude of the population of the south of Russia to organic food" conducted in in 2018 via the questionnaire-based survey. In total 235 people participated in the survey.

Social and demographic parameters of respondents: by gender – 59.7% women, 40.3% men; by type of settlement – 57.9% of respondents live in a city, 34.0% – in a village, 7.2% – in urban-type settlements, 0.9% – in a farm; by education – 35.6% of respondents have higher education, 53.4% – incomplete higher education, 11.0% – general secondary education; by marital status – 63.8% of respondents represent families with 1-2 children; 10.3% belong to large families; 14.3% of respondents – representatives of incomplete families; 6.7% – belong to "young families" (one of the spouses is under 30 years old); insignificant share of respondents are unemployed pensioners – 3.6% and disabled people – 1.3%. The survey also addresses agricultural producers to define their attitude to healthy diet. Among all respondents 15.8% – agricultural producers, 84.2% – not producers.

6. Findings

The participants of the survey shared their opinion on the development of organic production in Russia.

Table 01 shows the distribution of answers to a question on the opportunities of local production and consumption of eco-friendly goods by the population.

Table 01. Distribution Of Answers To A Question: "Do You Think Russia Needs Local Organic Production And Consumption By The Population Of Eco-Friendly Products?" (%)

Answers	Place Of Residence		Education	Are You A Producer?			
	Village	City	Without A Degree	Higher	Yes	No	Total
No, This Is Not	-	3.7	1.4	3.9	3.1	1.8	2.1
Important At All							
Not Urgent. Maybe	17.2	16.4	18.7	13.0	12.5	18.3	16.7
Later							
Quite Urgent But Our	36.4	28.4	29.5	33.8	31.3	30.8	31.8
Producers Will Not							
Solve The Issue							
The State Shall Care Of	46.4	51.5	50.4	49.3	53.1	49.1	49.4
The Health Of Its Nation							

The majority of respondents believe that the state shall care of the health of its nation and therefore the development of organic production and consumption of eco-friendly products by the population is, first of all, the responsibility of the state. Out of all groups within the segmentation the group of producers is more in favor of this opinion. If on average 49.4% of respondents believed that the "state shall care of health of its nation", then 53.1% of respondents within the "producers" group were up to this option.

Table 02 shows the distribution of answers to a question on prospects of increasing the production of organic food in the next 5 years by Russian agricultural producers and farmers.

Table 02. Distribution of answers to a question: "Do you think that Russian agricultural producers and farmers will increase the production of organic food in the next 5 years?" (%)

	Place Of Residence		Education	Are You		ı A	
Answers				Producer?			
	Village	City	Without	Higher	Yes	No	Total
			A Degree				
No	16.2	6.7	8.6	12.8	9.4	10.6	10.7
Very Unlikely. Maybe	24.2	29.6	29.5	20.5	15.6	31.2	27.4
Later							
Rather Yes. Long	22.2	31.1	28.8	28.2	31.3	27.1	27.4
Pending Issue							
Yes. It Has Its Potential	26.3	23.0	22.3	26.9	28.1	22.9	24.4
Unlikely. Low Demand	11.1	9.6	10.8	11.6	15.6	8.2	10.1

According to almost a half of survey participants from among the residents of Stavropol Krai the expansion of organic food production in Russia is quite urgent (27.4% of respondents) and is perspective (24.4% of respondents) these days. Thus, the respondents were positive about the prospects of expanding the production and sale of organic food.

Besides, almost a half of respondents highlights lack of readiness to expand the Russian market of organic food: 10.7% of respondents gave "no" answer; 27.4% of respondents – "very unlikely, maybe production and sale will expand later"; 10.1% of respondents – "unlikely, low demand".

Table 03 presents data on the opinion of respondents to the development of the market of organic food production in Russia.

Table 03. Distribution Of Answers To A Question: "According To Your Opinion, What Would Contribute To The Development Of The Market Of Organic Food Production In Russia?" (%)

Place Of		Education		Are You A			
Answers	Residence				Producer?		
	Village	City	Without	Higher	Yes	No	Total
			A Degree				
Propaganda Of	26.3	26.9	26.8	23.1	15.6	27.2	26.6
Healthy Diet							
Public Awareness On	16.2	16.4	15.2	15.4	25.0	14.8	16.3
Advantages Of							
Organic Products							
Government Subsidies	35.4	36.3	36.0	41.0	43.8	34.1	35.9
To Farmers And							

Producers Of Organic							
Products							
Adoption Of Laws	20.2	19.3	18.7	21.8	25.0	16.5	19.7
And Clear Norms On							
Certification Of							
Organic Products In							
The Russian							
Federation							
Outright Ban On The	36.4	36.3	33.8	38.5	43.8	37.1	36.3
Use Of Pesticides,							
Stimulators, Gmos							
Prohibitive Duties On	14.1	11.1	10.8	14.1	18.8	12.4	12.4
Import Of Organic							
Food							

Ranking of possible actions, which, according to survey participants, may positively impact the development of the market of organic food production in Russia, demonstrates that in order of importance the outright ban on the use of pesticides, stimulators, GMOs takes the first place – 36.3% of respondents. The government subsidies to farmers and producers of organic products take the second place (35.9% of respondents). The propaganda of healthy diet holds the third place (26.6% of respondents). The adoption of laws and clear norms on certification of organic products in the Russian Federation – the fourth place (19.7% of respondents). Public awareness on advantages of organic products (16.3% of respondents) – the fifth place.

7. Conclusion

Summing up the results of the study on the development of production and consumption of organic food in the south of Russia it may be concluded that the market of such products will progressively expand. Even a region where the farms already produce a lot of goods has social and economic prerequisites for the expansion of production and consumption of organic food, which is demonstrated by the answers of the population not dealing with the production of such products and by the answers of the survey participants being producers.

Acknowledgments

The study is performed within the grant No. 18-410-230030 ra of the Russian Foundation for Basic Research.

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