



# ECONOMIC-STATISTICAL ANALYSIS OF THE PROCESSES OF GROWING FRUIT AND VEGETABLE PRODUCTS IN THE REGIONS IN THE CONDITIONS OF MODERNIZATION OF THE ECONOMY

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## ANNOTATION

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*This article describes the cultivation of fruits and vegetables and grapes in the country and its regions, their economic and statistical analysis, the problems in the field of fruits and vegetables in farms of Tashkent region and ways to overcome them.*

**KEYWORDS:** *agriculture, agricultural production, gross domestic product, gross regional product, agriculture, animal husbandry, structural changes, investments, regional economy, economic and statistical analysis, agrarian reform, socio-economic processes.*

## INTRODUCTION

In the field of studying socio-economic processes, the study of specific network characteristics of regions and specific aspects of their development increases the accuracy of the structural analysis of the entire region. In the structural structure of our country's economy, until today, the share of the agricultural sector has a significant share among the main sectors and industries, but its share is decreasing as the volume of agricultural products created as a result of structural changes is increasing. As the main reason for such changes, it is possible to indicate the rapid development of industry, service and other sectors in the national and regional sectors of the economy [1].

Important legal, organizational and economic measures are being implemented in our country to develop forms of business activity within the framework of agrarian reforms. In particular, in the 2020-2030 strategy for the development of agriculture of the Republic of Uzbekistan, implementation of pilot investment programs to support the development and diversification of entrepreneurship in the agricultural

sector, improving the activities of the state fund for the support of entrepreneurship under the Small Business and Entrepreneurship Development Agency special attention is paid [12].

If we take into account that one of the important sectors of our country's economy was the agricultural sector in the context of the pandemic that brought the countries of the world into a difficult economic situation at the end of 2019, determining the strategic directions of its development based on the trends of change in the agricultural sector by region is one of the most urgent issues today.

## ANALYSIS OF LITERATURE ON THE TOPIC

It has been widely studied by many domestic and foreign scientists and experts on the improvement of the efficiency of the production of agriculture, especially fruit and vegetables at the macro and meso level, and the statistical analysis of the factor. For example, Yo. Abdullaev [15] and N. Soatov [16] studied theoretical aspects of economic-statistical

analysis, T. Shodiev theoretically and practically studied econometric models of agricultural network development, D. Parmakli theoretically studied specific aspects and laws of agricultural economy, V. Somov analyzed the economic and statistical development of agriculture of a separate territorial unit.

Although the economic and statistical analysis of the development of the agricultural network at the macro and meso levels was theoretically studied in the above studies, until today, the agricultural network of the territorial units of our country has been thoroughly analyzed at the meso level, and based on the identification of the trends of change in it, researches have been sufficiently carried out to determine the main directions of the development of the regional network. not increased.

## RESEARCH METHODOLOGY

In the process of research, analysis and synthesis, induction and deduction, methods such as statistical grouping, expert assessment, scientific abstraction, dynamic series, economic indices, statistical tables and graphs were widely used.

The object of the study activities of farmers and farms specializing in the cultivation of fruit and vegetable products in our republic were selected as

The purpose of the research is to produce fruit and vegetable products in our country and its regions, to analyze their changes and main trends in statistical methods, to assess its impact on the country's economy, and to develop scientific proposals and practical recommendations for future directions.

The task of the research is to statistically evaluate the processes of growing fruit and vegetable products in our country and its regions, to study researches related to the analysis of economic activity by statistical methods, and to carry out an economic-statistical analysis of the state of development and efficiency of fruit and vegetable activity in the regions of Tashkent region, and to develop conclusions and proposals based on the results achieved consists of output., it expands the possibilities of making alternative management decisions for the future and defining the main directions.

## ANALYSIS AND RESULTS

Special attention is being paid to the development of the agricultural network and its sectors and to increase its efficiency. In this regard, a number of laws, Presidential Decrees, decisions of the Cabinet of Ministers and other normative-legal documents related to the development of the field have been adopted, which have a positive effect on the

development of the entrepreneurship field [9,12].

In particular, in the Action Strategy for the further development of Uzbekistan in 2017-2021, in order to modernize and rapidly develop agriculture as well as all other sectors, "deepening structural changes and consistent development of agricultural production, further strengthening the country's food security, expanding the production of environmentally friendly products, "significantly increasing the export potential of the agricultural sector[9]", the most important tasks are clearly defined, and their consistent implementation serves as a guarantee of great success.

In his address to the Oliy Majlis on December 22, 2017, President Sh. Mirziyoev said, "It is known that more than 51 percent of the population of our country lives in rural areas. However, the share of agricultural products in the country's gross domestic product does not exceed 17 percent. The processing volume of agricultural products does not even reach 10%. However, in developed countries, this figure is more than 50 percent. In this regard, they emphasized that it is necessary to develop a comprehensive program for further reform of agriculture[10] and emphasized the need to widely introduce scientific achievements and innovative developments to the agricultural sector.

In the analysis of the agricultural network and its structure, the classification method, which is considered one of the important tools of statistics, is widely used. What is classification? Classification in statistics refers to the distribution of events and objects in sections, groups, classes, situations and types based on similarities and differences. This implies the rational use of a grouping method containing wider data [11].

It is known that agriculture is an important sector that determines the well-being of the population in providing food products in connection with the level of economic development. Particular importance is attached to this in paragraph 3.1 of the "Strategy of Actions" developed under the leadership of the President of the Republic of Uzbekistan Shavkat Mirziyoyev [9]. In the following years, we can see that many changes are observed in the field of statistics in our country. In the practice of the statistics of the Republic of Uzbekistan, the classification until 2016 was presented by large groups based on the national classification of public economic sectors. Some time after that, the types of economic activities were changed to the version of IFUT-1, and from January 1, 2017, to IFUT-2, which conforms to international standards [13]. In IFUT-2, the grouping of activities is based on the uniformity of final products, production factors and processes, that is, one economic entity can perform activities related to different classes and even

sections. This, in turn, facilitates the analysis of the object under study and becomes the basis for the preparation of statistical data, which is used in: statistical units to a q dim reached primary in statistics, as well as in the process of summarizing statistical data; in the implementation of macroeconomic calculations based on the national accounting system; x alkara in the exchange of statistical data; republic \_ and to perform economic-statistical analysis at regional levels; in the daily economic practice of administrative bodies, ministries and institutions, research institutions.

Over the next several years, the growth of agricultural production, the continuous increase in the volume of food products per capita is a clear evidence of the provision of stable growth indicators in all aspects of the sector. At the moment, there is a great potential not only to maintain the achieved indicators, but also to

improve them, to further deepen the structural changes implemented in agriculture, to optimize the composition of cultivated areas, to use land and water resources effectively, to introduce intensive, resource-saving technologies in the cultivation of agricultural products. , it is possible to raise the development of the sector to higher levels by ensuring the financial stability of farms and increasing their economic efficiency [7].

Economic-statistical analysis in the field of fruit and vegetable growing under competitive conditions is of great importance in calculating the change in gross yield. It is possible to calculate the change (increase or decrease) by comparing the amount of the gross crop grown in the reporting year with the amount of the gross crop in the base year (or contract plan). Then, the reasons for this change can be identified and a scientific assessment of the state of fruit and vegetable production can be made [1].

**1 -Table**  
**The Main Indicators Representing the Land Area and Composition of Farmers' Farms in Tashkent region (as of January 1) [5]**

	2018 _	2019 _	20 20	202 1	Change	
					(+,-)	(%)
Total area planted with agricultural crops , thousand hectares	248.7	247.6	190.9	172.6	-76.1	69.4
Fruit and berry area, thousand hectares	23.5	24.6	21.5	20.1	-3.4	85.3
The area of fields is one thousand hectares	9.8	10.5	10.6	10.9	1.1	111.2
Potato planting area, thousand hectares	0.9	1.5	0.9	1.0	0.1	111.1
vegetable cultivation is one thousand hectares	9.0	9.6	7.0	7.2	-2.2	80.0

The land areas attached to the farms of Tashkent region were statistically analyzed .

According to our analysis, in the years under study, the regional village q The total area planted with vegetables increased by 76.1 thousand hectares (69.4%) , the area of fruits and vegetables increased by 3.4 thousand hectares (85.3%) , and the area planted with vegetables increased by 2.2 thousand . hectare (80.0%) decreased. At the same time, the area of vineyards in the region increased by 11.2% , and the area planted with potatoes by 11.1%.

In the regions, measures are being taken to improve the activities of farms specializing in fruit and vegetable growing, their low scientific and technical support, and to eliminate it, but these activities are not sufficiently effective. At the same time, it shows that the introduction of advanced innovations and the attraction of investments are at a low level. Therefore, it is necessary to analyze these factors in depth and to

determine ways to eliminate them, which in turn will lead to further improvement of the activities of farms specializing in fruit and vegetable growing in the regions [3,4].

The sub-complex of fruit and vegetable growing and viticulture of Uzbekistan has competitive advantages, namely: ease of natural and climatic conditions; high quality of fruit and vegetable products; cheapness of highly qualified labor force; relatively developed infrastructure (transport communication, electrification) [8].

At the same time, our republic is a leader in the cultivation and export of fruit and vegetable products among the countries of Central Asia. This creates a relative competitive advantage in this region. The transport costs spent by Uzbekistan in the export of these types of products to territorially close countries are much lower compared to the costs of industrialized countries in this regard. In fact, Uzbekistan has great

opportunities to increase the competitiveness of the products of the fruit and vegetable complex in the markets of territorially close countries [6].

As a result of the conducted research, a SWOT analysis of the activities of farms specializing in fruit and vegetable growing in the Tashkent region is carried out (Table 2).

**Table 2**  
**SWOT analysis of farms specializing in fruit and vegetable growing in Tashkent region<sup>1</sup>**

<b>Strengths</b>	<b>Weaknesses</b>
<ul style="list-style-type: none"> <li>- high potential of fruit and vegetable industry;</li> <li>- favorable climate for growing many agricultural products (fruits, vegetables, sugarcane, fodder crops, viticulture, etc.)</li> <li>- h fertile plant availability of fields ;</li> <li>- favorable geographical situation, transport infrastructure and sufficiently developed motor transport system;</li> <li>- sufficient labor resources necessary for the development of the industry;</li> <li>- existence of scientific research institutions in the field of agriculture;</li> <li>- financing , lending _ and insurance of organizations i developed system .</li> </ul>	<ul style="list-style-type: none"> <li>- lack of basic production funds in farms, their high physical and moral obsolescence;</li> <li>- lack of modern technologies for production of high-quality and processing products and services;</li> <li>- lack of sufficient production capacity for processing fruit and vegetable and grape products;</li> <li>- that the population does not have enough information about the opportunities provided.</li> </ul>
<b>Opportunities</b>	<b>Threats</b>
<ul style="list-style-type: none"> <li>- effective use of regional resources (land, real estate), improvement of accounting of real estate, vacant land areas;</li> <li>- increasing the production of fruits and vegetables: fruits and vegetables, grapes, etc.;</li> <li>- the possibility of delivering agricultural products grown in the region to other regions of the country (fruits and vegetables, apples, grapes);</li> <li>- creation of the necessary opportunities for the organization of fruit and vegetable clusters;</li> <li>- development of social infrastructure facilities in rural areas.</li> </ul>	<ul style="list-style-type: none"> <li>- the instability of the price of fruit and vegetable products during the pandemic;</li> <li>- non-observance of technologies for growing agricultural products, as a result of which land productivity and productivity decrease;</li> <li>- environmental pollution;</li> <li>- purchase of products grown at low prices based on the monopoly position of some fruit and vegetable processing enterprises;</li> <li>- insufficient storage space.</li> </ul>

Based on the above information, we offer the following in order to further develop and increase the efficiency of farms specializing in fruit and vegetable growing in the Tashkent region:

Expanding the provision of necessary financial support (leasing, preferential credit) for the provision of new equipment and technologies to farms specializing in fruit and vegetable and viticulture;

Establishment of new product storage facilities by agricultural companies based on foreign credit lines;

Establishing special allocation of preferential credit lines from commercial banks to representatives of this sector.

We believe that it is necessary to pay special attention to the following aspects of the projects offered by the regional commercial banks when allocating loans to agricultural entities in the field of fruit and vegetable production and to support them:

1. Projects aimed at developing small businesses in rural areas and creating new jobs;
2. Promotion of projects focused on storage and processing of fruit and vegetable products;
3. Projects aimed at the production of products intended for export;
4. Formation of an information base on indicators such as the foreign and domestic market, processing enterprises, population consumption of products, their prices, purchase volumes, etc.

**REFERENCES**

1. Khojaev A.A. *Economic-statistical analysis of the activity of farms specializing in fruit and vegetable growing (in the case of Fergana region)*. . Doctor of Philosophy in Iqt. ilm.dar dis written to get. autoref.- T.: -2019. -63 p.
2. *Information of the State Statistics Committee of the Republic of Uzbekistan*
3. Khushvaktova H.S. *Organizational and economic problems of the development of agro-industry integration in the fruit-vegetable small complex*

<sup>1</sup>Based on the Author's Research

- under market conditions. *Iqt.fan. name.ilm.dar. dis written to get. autoref.*- T.: -2005. - p. 25.
4. Ergashev E.I. *The main directions of development of horticulture and viticulture network in the conditions of economic liberalization. Iqt . science \_ name science \_ narrow get for written diss . autoref.*- T.: -2009. -p.22.
  5. *Uzbekistan \_ agriculture 2017-2020. Statistical collection.- Tashkent, State Statistics Committee, 2021 -169 pages.*
  6. Mukhitdinova U.S. *Development directions of the market of fruit and vegetable products in the conditions of modernization of the economy. Iqt.fan. name.ilm.dar. dis written to get. autoref.*- T.: -2010. - p. 38.
  7. Khojakulov Kh.D., Rashitova N.Kh., Askarov N.N., Sayfullaev S.N. *Development of effective ways of structural changes in the context of modernization and diversification of the economy based on statistical methods. Monograph. - T.: ECONOMY-FINANCE, 2018. - 206 p.*
  8. Mukhitdinova U.S. *The market of fruit and vegetable production and the effectiveness of its functioning and the economic relationship of the liberalization of conditions. Monograph. - Tashkent: - Science, 2008. - 125 p.*
  9. *Decree of the President of the Republic of Uzbekistan dated February 7, 2017 No. PD-4947 "Strategy of Actions on the five priority areas of development of the Republic of Uzbekistan in 2017-2021".*
  10. Mirziyoev Sh.M. *Address to the Oliy Majlis. // People's word, December 23, 2017.*
  11. Shodiev X and others. *Statistics. Textbook. T.: "Boston of Thought", 2013, p. 40.*
  12. *Decree of the President of the Republic of Uzbekistan dated October 23, 2019 "On approval of the strategy of agricultural development of the Republic of Uzbekistan for 2020-2030" No. PD-5853 (<https://lex.uz/>)*
  13. *Resolution of the Cabinet of Ministers of the Republic of Uzbekistan dated August 24, 2016 No. 275 "On measures to transition to the international system of classification of economic activities".*
  14. *PD-3165 dated July 31, 2017 of the President of the Republic of Uzbekistan Resolution "On measures to improve the activities of the State Statistics Committee of the Republic of Uzbekistan " .*
  15. Abdullaev Yo.A. *Statistical theory. Textbook. - T.: "Teacher", 2003. - 214 p;*
  16. Soatov N.M. *Statistics: a textbook for higher educational institutions. - T.: Ibn Sina, 2003. - 744 p.*