

THE IMPORTANCE OF MODELING PROCESSES FOR FOOD SAFETY

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Abstract: This article provides insights into the role and importance of food safety in human health. An opinion was expressed about the advantages of modeling the processes of ensuring food safety for the population.

Key words: Food products, food safety, human health, ICT capabilities, practical applications, modeling.

Food products are among the most traded goods in the world. As markets become increasingly global and the world's population continues to grow, the complexity of global food supply will continue to increase. Food industry – an area that directly affects human health. Every year, millions of people suffer from foodborne illnesses and even have serious problems that can lead to death. It's a preventable problem that hurts both people and the economy. Today, in the production of agricultural products, it is of particular importance to reduce the consumption of resources, increase efficiency, ensure food safety, develop the scientific basis for solving such problems, and use the possibilities of information communication technologies and practical programs in their implementation.

Therefore, the issue of food safety is a guarantee of ensuring the independence, socio-economic and political stability of Uzbekistan as well as all other countries. This problem has not lost its relevance in our country. At the same time, the demand for food products is increasing, and the per capita consumption is increasing due to the growth of the population. Consequently, in the last three years in our country, the approach to ensuring food safety, increasing the quality of products and export potential has completely changed, and it has been turned into a priority direction of state policy. One of the main reasons for this is the pandemic. The negative impact of the coronavirus pandemic on the world economy has caused various problems. It was predicted that the economy of developed and developing countries will slow down.

This situation, in turn, deepened the problems of unemployment, food shortages and food security on a global scale. That is why special attention is being paid today to measures aimed at effective development of food safety processes.

The decree of the President of January 16 of this year "On measures to further ensure the food safety of the country" brings the qualities in this regard to a qualitatively higher level. Improving the regulatory and legal framework in the field of food safety in ensuring food safety, increasing economic opportunities for providing

food products to all segments of the population, state regulation and control of food safety and similar main directions were defined. The basis of these efforts lies only in improving the lifestyle of the population, creating enough opportunities for them to lead a healthy life, and focusing on food safety.

It is important to further ensure the country's food security, fill the market with high-quality, safe and affordable food products, strengthen the purchasing power of the population, liberalize foreign economic activity and develop a healthy competitive environment. At the same time, the modeling of food safety processes serves as a message about healthy and safe food, as well as statistical information to the population.

Analysis, modeling and forecasting of the main indicators of the production of agricultural products are of great importance in ensuring food security in the regions. Because the failure to study these indicators over time can lead to poverty at a time when the demand for food products is increasing.

To conclude, it is important to study the changes in the processes of providing the population with agricultural products over time using economic and statistical methods. As a result of studying the processes of providing the population with agricultural products in the regions through economic-statistical models, the scientific analysis and prediction of the current state and future changes of one or another economic indicators will give the expected result.

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