The article considers the regulation of economic security of the agricultural production as a complex integrated element of the general system of innovative development of agricultural production at all levels of its regulation, and provides for the implementation of appropriate measures (organizational-technological, preventive, propaganda, controlling, protective) that are used to counteract the negative impact on the economic security of agricultural production. In this connection, the strategic objectives of regulating the economic security of the agricultural production have been identified, which will contribute to the development of specific measures to eliminate threats in this area. The list of institutional factors (economic, environmental, social and technical and technological) and the components of regulation of economic security of agricultural production has been presented, a comprehensive set of which provides the most accurate reflection of the essence and direction of the dangers and threats that the national economy, in particular, agricultural production, may suffer in the process of functioning and innovative development.

**Keywords:** economic security, agricultural production, regulatory policy, institutional aspects, strategy, innovation development.

**Statement of the problem and its connection with important scientific and practical tasks.** In the conditions of complete economic independence, the subjects of the agricultural production themselves determine their economic policy, organize the production process and sale of products and bear full responsibility for the results of their production and economic activity. All this largely requires from managers to form an effective system for regulating economic security, which operates under the influence of a combination of factors. The main purpose of the regulation of the economic security of the agricultural production is to ensure its stability and the most efficient operation in terms of the innovative development. Regulation of the economic security of the agricultural production includes the following areas: protection of material and financial values; protection of intellectual property and human resources; protection of the information and consulting environment; protection and prospects updating the material and technical base; environmental protection (compliance with the principle of environmental production).

The analysis of the latest publications on the problem. The scientific works of I. Grishov [3], A. Dyachenko [9], S. Kushnir [6], M. Malik [7], A. Nikolyuk [8], V. Rusan [9], P. Sabluka [10] and others are devoted to. The study of the problems of regulation to ensure the economic security of the agricultural production. The basis for deepening the theoretical and practical aspects of agricultural production were the works of such domestic scientists as V. Andriychuk [1], T. Gnatievoi [2], V. Kozlovsky [4], A. Konarivskoi [5], A. Shpikulyak [7], I. Gryshova [11], N. Kuprina [13], I. Myshchak [14], T. Stupnytska [15] and others. Noting the importance of scientific and practical developments of these authors, it should be noted that there is a need to deepen the theoretical approaches to the regulation of economic security of agricultural production. The issue of ensuring the economic security of the agricultural production is explained in a fragmented manner in the theory of state regulation. The components of the strategy to ensure the economic security of agricultural production based on innovative development require further scientific study. The urgency of solving the problems of ensuring the economic security of agricultural production as an important component of ensuring food security of the national economy of Ukraine, the search for new approaches to the formation of an appropriate strategy, mechanisms for regulating the economic security of agricultural production and their organizational and informational support determined the formulation of the research objectives.
Forming of the aims of the research. The purpose of the article is to substantiate the theoretic-methodological foundations and develop the practical recommendations for improving the institutional aspects of regulating the economic security of the agricultural production in Ukraine; it identified a number of tasks: to reveal the components of the system of regulation of the economic security of the agricultural production in Ukraine; to carry out a comprehensive analytical assessment of the effectiveness of state regulation of ensuring the economic security of the agricultural production in Ukraine; to formulate proposals for the development of a strategy for ensuring the economic security of the agricultural production in Ukraine and the stages of its implementation.

Giving an account of the main results and their substantiation. The result of the regulation of the economic security of the agricultural production is the stability of its operations, the effectiveness of financial and economic activity and the safety of each employee. Depending on subjective conditionality, all negative phenomena affecting the economic security of agricultural production can be divided into objective and subjective. Objective problems are those that arise not through the fault of the subjects of agricultural production or its individual participants. Subjective problems arise from the ineffective functioning of agricultural entities. In order to neutralize the impact of negative phenomena on the activities of the agricultural production, in the framework of this study, a systematization of internal and external factors, affecting the regulation of the economic security of the agricultural production was carried out. This approach is intended to combine internal goals in the system of regulating the economic security of the agricultural production aimed at neutralizing possible risks, increasing the efficiency of the agricultural production, developing rural territories and meeting the social needs of peasants with external ones that ensure food security, export potential, innovative development of the agricultural production and preserving of the surrounding natural environment in the country (Fig. 1.).

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**Fig. 1. The environment of the regulatory policy of the economic security of the agricultural production**

* compiled by the authors
This approach to the functioning of the environment of regulation of the economic security of the agricultural production makes it possible to comprehensively apply all types of regulation regarding agricultural production (regulatory-legal, investment and financial, information-analytical; innovation-scientific; moral-motivational), especially taking into account that historically the key carrier and the factor of effective activity of agrarian production is the person with the whole complex of his own moral, ethical, mental and religious preferences.

However, even the unquestioned understanding that all socio-economic macroeconomic processes occur at the level of individuals does not in any way deny the existence of systemic synergistic effects that arise in complex systems, and therefore cannot be explained by the properties of their component parts.

Regulation of the economic security of the agricultural production is primarily determined by the characteristics of socio-economic relations in the agricultural sector. Thus, sharing the views of scientists, V. Andriychuk, T. Gnatiev, S. Kushnir, M. Malik, P. Sabluka [1, 2, 6, 7, 10], we systematized the functioning factors of agricultural production, which affect its regulation of economic security (table 1).

Table 1

Factors of agricultural production functioning that affect the regulation policy of economic security *

<table>
<thead>
<tr>
<th>Factor</th>
<th>Characteristics of a factor</th>
<th>Methods of optimizing the influence of factors</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Technological conditions of production</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Natural phenomena</td>
<td>Crop failure, floods, droughts and other natural disasters</td>
<td>Creation of state, regional, sectoral and internal-economic insurance and reserve funds</td>
</tr>
<tr>
<td></td>
<td>Dependence on weather and climatic conditions</td>
<td>Interaction with banks, on the formation of the system of preferential lending, state financial support in the form of compensation of interest on loans</td>
</tr>
<tr>
<td>Seasonality</td>
<td>The discrepancy between the production period and the sales period of production is related to the duration of the production cycle</td>
<td></td>
</tr>
<tr>
<td><strong>The nature of work and production technology</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Land</td>
<td>Is not amortized and therefore is not involved in the formation of production costs</td>
<td>State regulation of differentiated income (rent) of farmers, depending on the level of fertility and location</td>
</tr>
<tr>
<td>Breeding and working livestock</td>
<td>Depreciation is not calculated on breeding livestock, its value is not transferred to the cost of production, but it is calculated on working livestock</td>
<td>Organization of financing the reproduction directly in the industry through the rearing of young animals</td>
</tr>
<tr>
<td>Self-reproduction</td>
<td>A considerable part of the received production is not sold on the side, but remains on the farm. It is not a part of commodity products and does not acquire a monetary form, but takes part in the domestic trade</td>
<td>Special taxation of products involved in internal – economic turnover</td>
</tr>
<tr>
<td>The presence of biological laws in crop production and livestock</td>
<td>Determines the peculiarities of the circulation of circulating assets of agricultural producers: their comparative turnover, the gradual increase of costs, the release of circulating assets from the circulation at the same time, that is, in the periods of output and sales</td>
<td>State subsidization of individual industries and compensation of consumed means of production</td>
</tr>
<tr>
<td><strong>Material and technical</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Technical weapons</td>
<td>The level and conditions of use of the equipment</td>
<td>Creation of depreciation funds, development of leasing relations</td>
</tr>
<tr>
<td>Organization of production, labor and management</td>
<td>Displayed of the level of the effectiveness of management</td>
<td>Application of methods and levers of enterprise finance management. Implementation of financial, tax, insurance, investment management.</td>
</tr>
<tr>
<td><strong>Socio-economic</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capital expenditure</td>
<td>Displayed on costs and prices of agricultural products</td>
<td>State and regional programs providing financing and capital investments for land irrigation, reconstruction of existing land reclamation systems</td>
</tr>
<tr>
<td>The price level of agricultural and industrial products</td>
<td>Implementation of agricultural products does not allow to cover the costs associated with the acquisition of industrial products</td>
<td>State price regulation and support for agricultural production, reserve stocks, reserve funds, government interventions in commodity markets, international trade agreements</td>
</tr>
</tbody>
</table>
Functionally agricultural production is influenced by the regulatory mechanism, as a system of constraints and incentives, which are institutional formations. Institutions of socio-economic relations create institutional norms, form the policy of the state, structure the interaction of all participants of trade through the institutionalization of market processes. The interactions of organizations and institutions in the market mechanism provide the relevant socio-economic "substances" of institutional design. Among them: labor, property, management and regulation, power, social capital, market, competition, entrepreneurship, price, pricing, infrastructure. It is the identification of institutions by importance that reveals their special nature and role in ensuring the economic security of agricultural production.

To institutional formations in the direction of regulating the economic security of agricultural production, we include human capital as a set of ties, a system of socio-economic relations, institutions, collectives, associations, structures, a consolidating factor in the roles of the individual in society and economic activity. Human capital is determined by the number of community associations created, including cooperatives, in a certain territory.

In our opinion, one of the main reasons for not implementing the basic principles of innovative development in the system of regulation of the economic security of the agricultural production is the presence of a set of institutional problems, which, as we propose, consists of: coordination and integration of the components of the new institutional approach to regulation of economic security of agricultural production; integration of economic, social and environmental policies into agricultural policy; improvement of land relations; development of cooperation and integration; increasing the efficiency of the system of state regulation of economic security of agricultural production; instability of agrarian reforms; pricing, budget and tax policies; the absence of a state body to coordinate and integrate the policy of regulating the economic security of agricultural production under current conditions; the absence of non-state structures to protect peasants' interests. The presence of institutional problems has its consequences and results in ensuring the economic security of the agricultural production (table 2).

The institutional aspects of regulatory policy economic of security of the agricultural production

<table>
<thead>
<tr>
<th>Problems</th>
<th>Consequences</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coordination and integration of components of a new institutional approach to regulation of the economic security of the agricultural production</td>
<td>Strategic planning is not focused on regulation of the economic security of the agricultural production and planning of the innovative development</td>
<td>Innovative development is carried out without taking into account the factors of the economic security of the agricultural production</td>
</tr>
<tr>
<td>The instability of agricultural policy</td>
<td>Frequent changes in the &quot;rules of the game&quot;</td>
<td>Palliability (negative results) of economic interactions</td>
</tr>
<tr>
<td>Pricing and price politics</td>
<td>Price disparity, non-equivalence of inter-sectoral exchange</td>
<td>Shortfall in revenue, losses of individual industries</td>
</tr>
<tr>
<td>Improvement of land relations</td>
<td>Loss of property</td>
<td>The non-market nature of the redistribution of land assets</td>
</tr>
<tr>
<td>Development of cooperation and integration</td>
<td>Lack of co-operative areas</td>
<td>Losses from marketing actions</td>
</tr>
<tr>
<td>Improving the efficiency of the state regulation of agricultural production</td>
<td>Absence of self-regulatory structures</td>
<td>The limited possibilities of professional associations</td>
</tr>
<tr>
<td>Protectionism</td>
<td>Distribution of support not to all economic entities</td>
<td>Restricting of the ability of entrepreneurs to operate in equal competition conditions</td>
</tr>
<tr>
<td>Incompleteness of agrarian reform</td>
<td>Lack of institutional conditions for land capitalization</td>
<td>Preservation of peasant alienation from the land; development of the shadow land market</td>
</tr>
<tr>
<td>The absence of non-government organizations which protect the interests of the rural population</td>
<td>Limited opportunities to bring to power their problems and protect their interests</td>
<td>Significant divergence of state policy measures with peasants' real needs</td>
</tr>
<tr>
<td>Absence of a state body for coordination and integration of regulation of the economic security of the agricultural production</td>
<td>Disability, inefficiency</td>
<td>Increasing of ecodestructive impact of agricultural production on agro-landscapes</td>
</tr>
</tbody>
</table>
The formation of an effective institutional structure of the regulatory policy of the economic security of the agricultural production involves the creation of a favorable motivational climate for the functioning of the agricultural production and marketing of agricultural products; formation of fair market prices that will ensure the equivalence of the reproduction of capital invested in production; improving marketing and agrarian logistics; introduction of innovations and regulation of the general competitiveness of the agricultural production.

That is, agricultural production is defined as a complex socio-economic and at the same time vulnerable agrobiological system of nature and society with diversified functions - life management (production of agro-food and raw materials), livelihoods (employment, conditions and quality of life of economic entities, rural communities, nation as a whole), living arrangement (development of territorial habitat). The rational implementation by the agrarian sector of these various functions serves as a basis for regulating its economic security. The presence of a large number of aspects of regulation of economic security of agricultural production, the difficulty of choosing the optimal variant of its guarantee objectively encourages application of the complex approach to systematization factors (Fig. 2) [9, p. 120].

**The purpose of the regulation of economic security of agricultural production** - to guarantee its stable and maximally effective functioning in modern conditions and high potential of innovative development in the long term.

**Key complex factors of the regulation of economic security of agricultural production**

- **Focused on production and economic activity**
  - The presence of persistent threats to the production and financial system, sufficient level of financial independence of agricultural production
  - High efficiency of managerial decisions, the adequacy of the organizational structure of management, the qualification of managers and their professional level
  - Regulation of the environmental safety of the agricultural production and reduction of negative impacts on the environment
  - Regulation of protection of information space, protection of trade secrets and effective information regulation of work of all internal divisions and external contractors of subjects of agricultural production

- **Innovation-oriented factors**
  - Possibility of access to the use of the latest technologies, introduction of advanced technological methods in the production process
  - Effective use of all types of resources, readiness for implementation, use and production of innovations
  - High level of the personnel qualification and their intellectual potential, the efficiency of the corporate innovations
  - Legal support and protection of the interests of the agrarian production which is a participant of the socio-economic relations in the country, regulation of safety of all stakeholders in conditions of the innovative development of agrarian production

**Fig. 2. Complex factors of the regulatory policy of economic security of agricultural production**

*Developed by the authors*
Summarizing the above mentioned, we see that the regulation of the economic security of the agricultural production, is considered as a complex integrated element of the overall system of innovative development of the agricultural production at all levels of its regulation, and provides for the implementation of appropriate measures (organizational, technological, preventive, propaganda, control, protective) in order to counteract the negative impact on the economic security of the agricultural production. In this regard, there is a need to define strategic goals for regulating the economic security of the agricultural production (Fig. 3).

**Fig. 3. Strategic objectives of regulatory policy of economic security of agricultural production**

*developed by the authors*

**Conclusions and prospects of the further investigations.** Thus, the necessity of separating the factors of influence on the regulation of the economic security according to the following classification criteria is substantiated by the following facts:

1) oriented to industrial and economic activities (the presence of a threat-resistant production and financial system, a sufficient level of financial independence of agricultural production, high efficiency of management decisions, and the adequacy of the organizational structure management, qualification of managers and their professional level; regulation of environmentalists, the integrity of the activities of agricultural production and the reduction of negative environmental impacts in them; regulation of the protection of the information space, observance of trade secrets and effective information regulation of the work of all internal divisions and external contractors of agricultural production entities);

2) innovation-oriented (the ability to access the latest technologies, the introduction of advanced technological methods in the production process, the effective use of all types of resources, the willingness to introduce, use and produce innovations, the high level of staff qualification and their intellectual potential, the effectiveness of corporate innovations; legal support and protection of interests of agricultural production as a participant in socio-economic relations in the country, regulation pretensions of all stakeholders in terms of innovative development of agricultural production). Such an approach made it possible to substantiate the directions of regulating the economic security of agricultural production and propose approaches to choosing the optimal combination of means to counter the threats to the development of the latter.
The necessity of forming a strategy for ensuring the economic security of the agricultural sector based on innovative development has been proved. The necessity of taking into account socio-economic, national-strategic, demographic and other aspects of ensuring economic security and the implementation of innovative processes in the agricultural sector has been justified, provides for the establishment of optimal relations between financial, credit, industrial, scientific, technical and innovative policies. It is such a relationship that can ensure economic security through the reproduction of the innovation process, and stimulate scientific and technological innovations and technological changes. Consequently, the achievement of a set of strategic goals that we have determined will contribute to the development of specific measures to eliminate threats to the economic security of agricultural production. The combination of such measures and the consideration of the economic security of agricultural production from the standpoint of a systematic regulation will contribute to more practical research results in this direction.

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Институциональные аспекты регулирования экономической безопасности аграрного производства

В статье рассмотрено регулирование экономической безопасности аграрного производства, как сложный комплексный элемент общей системы инновационного развития аграрного производства на всех уровнях его регулирования, и предполагает выполнение соответствующих мероприятий (организационно-технологических, профилактических, пропагандистских, контролирующих, защитных), применяемых с целью нейтрализации негативного влияния на экономическую безопасность аграрного производства. В связи с этим определены стратегические цели регулирования экономической безопасности аграрного производства, что будет способствовать разработке конкретных мер по устранению угроз в данной сфере. Представлен перечень институциональных факторов (экономические, экологические, социальные и технико-технологические) и составляющих регулирования экономической безопасности аграрного производства, комплексный набор которых обеспечивает точное отображение сущности и направленности опасностей и угроз, воздействие которых может понести национальная экономика, в частности аграрное производство в процессе своего функционирования и инновационного развития.

Доказана необходимость формирования стратегии обеспечения экономической безопасности аграрного сектора на основании инновационного развития. Обосновано необходимость учета социально-экономических, национально-стратегических, демографических и других аспектов обеспечения экономической безопасности и реализации инновационных процессов в аграрном секторе, что предусматривает налаживание оптимальных связей финансово-кредитной, промышленной, научно-технической и инновационной политики. Именно такая связь способна обеспечить экономическую безопасность на основании развития инновационного процесса, стимулировать научно-технологические новшества и технического прогресса.

Ключевые слова: экономическая безопасность, аграрное производство, регуляторная политика, институциональные аспекты, стратегия, инновационное развитие.
Доведено необхідність формування стратегії забезпечення економічної безпеки аграрного сектору на засадах інноваційного розвитку. Обґрунтовано необхідність врахування соціально-економічних, національно-стратегічних, демографічних та інших аспектів забезпечення економічної безпеки та реалізації інноваційних процесів в аграрному секторі, що передбачає налагодження оптимальних зв’язків фінансово-кредитної, промислової, науково-технічної та інноваційної політики. Саме такий зв’язок спроможний забезпечити економічну безпеку на основі відтворення інноваційного процесу, стимулюючи науково-технологічних нововведень і технічних зрушень.

Ключові слова: економічна безпека, аграрне виробництво, регуляторна політика, інституційні аспекти, стратегія, інноваційний розвиток.

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