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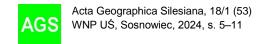
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## Gennadii Golub, Taras Pohrebskyi, Sergiy Golub, Alla Potapova

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# Socio-geographical characteristics of rural settlement of the Volyn Region

Golub G., Pogriebskij T., Golub S., Potapowa A. Cechy społeczno-geograficzne osadnictwa wiejskiego w obwodzie wołyńskim. Artykuł poświęcony jest społeczno-geograficznym cechom rozmieszczenia ludności wiejskiej w granicach obwodu wołyńskiego. Podano opis geograficzny wiejskiego układu osadniczego obwodu. Uwzględniono także cechy struktury przestrzennej osadnictwa wiejskiego na omawianym obszarze. Wykazano, że na kształtowanie się rozmieszczenia ludności wpływa kilka grup czynników, w tym zwłaszcza poziom rozwoju społeczno-gospodarczego regionu administracyjnego. Określono tendencje rozwoju sytuacji demograficznej na obszarach wiejskich obwodu wołyńskiego. Zilustrowano dynamikę powstawania osad wiejskich, ich klasyfikację według liczby ludności, a także różnice terytorialne w układach osadniczych regionu. Szczegółowa analiza wskaźników w rejonach obwodu pozwala na identyfikację i ukazanie prawidłowości rozmieszczenia ludności wiejskiej na terenie obwodu.

Голуб Г., Погребский Т., Голуб С., Потапова А. Общественно-географические особенности сельского расселения Волынской области. Статья посвящена общественно-географическим особенностям расселения сельского населения Волынской области. Авторы дают географическую характеристику системы сельского расселения Волынской области. В исследовании рассмотрены особенности пространственной структуры сельских населенных пунктов в Волынской области. Показано, что на формирование расселения населения влияет несколько групп факторов, в частности, уровень социально-экономического развития административного региона. Выявлены тенденции развития демографической ситуации в сельской местности Волынской области. Проиллюстрирована динамика формирования сельских поселений, их группировка по населению и территориальные различия в системах расселения региона. Подробный анализ показателей в административных районах области позволяет выявить и показать закономерности распределения сельского населения по территории области.

Голуб Г., Погребський Т., Голуб С., Потапова А. Суспільно-географічні особливості сільського розселення Волинської області. Стаття присвячена суспільно-географічним особливостям розселення сільського населення Волинської області. Автори дають географічну характеристику системи сільського розселення Волинської області. В дослідженні також розглянуто особливості просторової структури сільських населених пунктів у Волинській області. Показано, що на формування розселення населення впливає декілька групп факторів, зокрема рівень соціально-економічного розвитку адміністративного регіону. Виявлено тенденції розвитку демографічної ситуації сільської місцевості Волинської області. Проілюстровано динаміку формування сільських поселень, їх групування за людністю та територіальні відмінності в системах розселення регіону. Детальний аналіз показників у адміністративних районах області дає змогу виявити і показати закономірності розподілу сільського населення по території області.

Keywords: population, population resettlement, rural population, Volyn region Słowa kluczowe: populacja, przesiedlenia ludności, populacja wiejska, obwód wołyński Ключевые слова: население, расселение населения, сельская популяция, Волынская область Ключові слова: населення, розселення населення, сільське населення, Волинська область

### **Abstract**

The article is devoted to the socio-geographic features of the resettlement of the rural population of the Volyn region. The authors give a geographical description of the rural settlement system of the Volyn region. The study also considered the features of the spatial structure of rural settlements in the Volyn region. It is shown that the formation of population settlement is influenced by several groups of factors, in particular the level of socio-economic development of the administrative region. Trends in the development of the demographic situation in the rural areas of the Volyn region were revealed. The dynamics of the formation of rural settlements, their grouping by population and territorial differences in the settlement systems of the region are illustrated. A detailed analysis of the indicators in the administrative districts of the region makes it possible to identify and show the regularities of the distribution of the rural population on the territory of the region.

### Introduction

The study of territorial features of the grid of settlements and population settlement systems is one of the priority areas of socio-economic geography. The current state of the economy of Ukraine and its regions is characterized by radical changes in all spheres, including population dynamics, settlement systems of both urban and rural populations. The decrease in the birth rate in recent years in our country, first of all, has sharply worsened the situation (demographic, economic, labor resources) in rural areas. Unfortunately, the population aging process is developing at a very fast pace, the population structure is changing, small villages are completely disappearing, the average size of rural settlements is noticeably decreasing, that is, there is a process of changing rural settlement. Rural settlement is represented by a grid of settlements and systems of settlements, at the same time it is the carrier of: a) the production base of the agricultural economy; b) geographical conditions of life of the population. It is obvious that the change in rural settlement has an important impact on both the agricultural economy and people's living conditions. In connection with this, there is a need for complex socio-geographical studies of rural resettlement at the regional level.

The research is based on the fundamental provisions of the theory of geographical science, the approaches of Ukrainian and foreign scientists to the comprehensive study of the settlement system. The methodology of socio-geographical research was developed by Yu. Saushkin, O. Topchiev, O. Shabliy, Ya. Zhupansky, Ya. Oliynyk, M. Pistun.

G. Anisimova, V. Dzhaman, A. Dotsenko, B. Zastavetsky, M. Malsky, M. Palamarchuk, Yu. Pityurenko and others studied regional settlement systems. Their works identified the features of the territorial settlement systems, their relationships with other territorial systems (economic, industrial, natural, etc.), studied the structure of such systems and the relationships between them, established the principles of territorial organization of settlement systems.

Socio-geographical research of the population of the Volyn region was conducted by S. Pugach, A. Slaschuk, V. Poruchynskyi, I. Poruchynska, T. Pohrebskyi (POTAPOVA et al., 2022), G. Golub (POTAPOVA et al., 2022).

The purpose of the article. The purpose of the article is to study the geographical and demographic features of rural settlement in the Volyn region.

## Research methodology

The research used the following methods: analysis and synthesis (for the analysis of the re-

gional population resettlement system of the Volyn region as a whole and each individual district socio-geosystem, as well as for the analysis of the conceptual and terminological apparatus of the study), mathematical and statistical (for the formation and processing of the information database), factorial analysis (to assess the influence of general factors in the development of the regional population resettlement system), cartographic (to visualize the obtained research results), systematization (to identify the territorial features of the development of the resettlement system of the Volyn region, formulating research conclusions), literary (to study scientific literature).

### Results of the research

Rural settlement is a form of territorial organization of the life of the population in non-urban areas in the form of a set of rural settlements of various types (permanent or temporary). Rural resettlement is one of the two historically existing types of population resettlement: urban and rural. The border between them is to some extent conditional and in practice is established on the basis of legislative acts classifying settlements as urban or rural. But in general, rural settlement differs from urban settlement in that it ensures the performance of such economic functions as agricultural production, forestry and forestry, recreational services for the urban population, and environmental protection functions (Соціально-демографічне..., 2020). Rural settlement is represented by a grid of rural settlements, i.e. those settlements, the main activity of the population of which is agricultural, recreational, transport and service activities, etc. It is the general idea of it that gives an indicator of the number of rural settlements in a certain territory, preferably in the most detailed territorial section (administrative district, territorial community, agricultural enterprise of various forms of ownership), the average density of settlements (that is, the number of settlements per 100 sq. km or per 10 sq. km) of ter-

ritory and the average population of settlements for the same territorial objects. The population of the Volyn region as of January 1, 2022 was 1,021.4 people which is 2.28% of the total Ukrainian population (Волинь у..., 2021). Compared to the last population census conducted in 2001, its number decreased by almost 36,000 people or by 3.5%. The urban population is 533.5 (52.2%), rural 490.2 (47.8%). Since the last census, the number of residents of urbantype cities and towns has increased by almost 3.4%, and the number of people living in rural areas has decreased by 8.8% of the total population of the region. Thus, according to the population census on January 1, 2001, the population of the Volyn region was 1,057,200 people, including 526,700 residents of urban-type cities and towns, and 530,500 residents of rural areas (Волинь у..., 2021). As we can see from the above data, the rural population was predominant in 2001, although its number was constantly decreasing in the following years. The reasons for the constant reduction of the rural population were: its outflow to the cities, outside the region and abroad.

In the total number of rural settlements of the Volyn region, settlements with a population of 500 to 999 people (25.4%) and 300 to 499 people (20.4%) predominate; settlements in groups of 100 to 199 and 200 to 299 people (16.2 and 16.0%). The largest population lives in settlements of the group from 500 to 999 people (25.4%) (table 1) (fig. 1 and 2). The average population of rural settlements in the regional resettlement system is 465 people (as of 2021). The value of the average population of rural settlements in the former administrative districts of the region ranges from 225 to 803 people. The lowest average population can be traced in Turiyskyi (225.7), Volodymyrskyi (298.6), Lokachynskyi (322.2), Kovelskyi (348.4) districts, and the highest in Kamin-Kashyrskyi (803.1), Lutskyi (720.9), Lyubeshivskyi (634.8), Ratnivskyi (559.7), Manevytskyi (556.5) districts (Cmaтистичний щорічник..., 2020).

Table 1. Grouping of rural settlements of the Volyn region by the number of permanent residents\* Tabela 1. Grupowanie osad wiejskich obwodu wołyńskiego według liczby stałych mieszkańców\* Таблица 1. Группировка сельских населенных пунктов Волынской области по численности постоянного населения\*

|   | Number of rural settlements | Share in the total number, % | Their population, persons |
|---|-----------------------------|------------------------------|---------------------------|
| All settlements  Of them with the number of inhabitants (persons) | 1054                        | 100                          | 493463                    |
| <49   | 39                          | 3,8                          | 717                       |
| 50–99   | 75                          | 7,1                          | 5111                      |
| 100–199   | 171                         | 16,2                         | 21899                     |
| 200–299   | 169                         | 16,0                         | 31304                     |
| 300–499   | 215                         | 20,4                         | 74474                     |
| 500–999   | 268                         | 25,4                         | 189968                    |
| >1000   | 117                         | 11,1                         | 170124                    |

<sup>\*</sup>Compiled from the materials of the Main Department of Statistics in the Volyn region

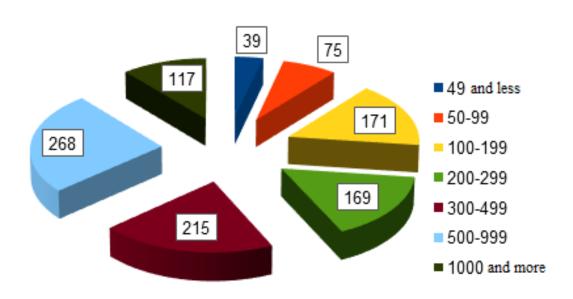


Fig. 1. Grouping of rural settlements of the Volyn region Rys. 1. Grupowanie osad wiejskich obwodu wołyńskiego Рис. 1. Группировка сельских населенных пунктов Волынской области

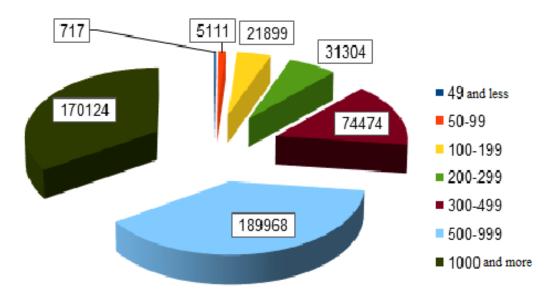


Fig. 2. Grouping by population of rural settlements of the Volyn region Rys. 2. Grupowanie według liczby ludności osad wiejskich obwodu wołyńskiego Рис. 2. Группировка по населению сельских населенных пунктов Волынской области

As of January 1, 2021, the rural settlement of the Volyn region is represented by 1,054 rural settlements, the main part of whose population is engaged in agricultural production. The average number of rural settlements per administrative district is 66. The number of rural settlements in the districts varies: the smallest in Shatskyi (30), Lyubeshivskyi (46), Starovyzhivskyi (46) districts and the highest in Kovelskyi (91), Horokhivskyi (90), Lutskyi (86) districts. The average of the densely populated settlements of the Volyn region is 5 rural settlements per 100 square km. The average density in the districts of the region ranges from 3-4 settlements (Manevytskyi, Kamin-Kashirskyi, Lyubeshivskyi districts) to 8-9 per 100 sq. km (Lutskyi, Ivanychivskyi, Horokhivskyi districts). The number of rural settlements within one village council (as of January 1, 2019) varied from 8 (1 village council) to 1 settlement (50 village councils). In the region, rural settlements were administratively subordinated to 374 village councils (as of January 1, 2019). Some rural settlements were subject to the Ustyluh and Kamin-Kashyrskyi city councils and the Ivanychiv, Tsuman, Goloby, Lublynets, Stara Vyzhivka, Rokyni, Holovne, Shatsk and Zabolottya settlement councils (Волинь у..., 2021). In 2020, the

Cabinet of Ministers of Ukraine formed the basic level of local self-government: on June 12, 2020, the government approved a new administrative and territorial system. In accordance with the orders of the Cabinet of Ministers, 1,469 territorial communities were formed in Ukraine (COKOAOBA, PATOIIIHIOK, 2020).

On July 17, 2020, the Verkhovna Rada of Ukraine adopted Resolution No. 3650 "On the Formation and Liquidation of Districts" (Ποςmaнова Верховної Ради..., without date). According to the document, there are now 136 districts in Ukraine. 4 administrative districts were formed in the Volyn region: Volodymyr-Volynskyi, Kamin-Kashyrskyi, Kovelskyi and Lutskyi. According to the decentralization, the largest population is concentrated in the Lutsk district — 457,287 people, the smallest in the Kamin-Kashyrskyi district - 131,600 people. Administrative districts include 54 territorial communities, which were also formed as a result of decentralization. Out of 54 communities, the largest number is in Kovelskyi (23), the smallest in Kamin-Kashyrskyi (5), Lutskyi and Volodymyrskyi districts, respectively (15 and 11). The average number of rural settlements per administrative district is 264 units. The number of rural settlements in the districts is: in Kamin-

Kashyrskyi (172), Volodymyrskyi (191), Lutskyi (333), Kovelskyi (358). The average density in the districts of the region varies from 37-47 settlements (Kamin-Kashyrskyi, Kovelskyi districts) to 63-75 per 100 sq. km (Lutskyi, Volodymyrskyi districts). The economic and cultural development of rural settlements is influenced by their location in relation to settlement centers and transport networks (Волинь y..., 2021). In the region, 4 types of rural settlements are distinguished according to the distance from the district centers: close, medium-distance, remote and peripheral. They are located at a distance from the district center, respectively: up to 3 km, from 3 to 5 km, from 5 to 10 km and more than 10 km. Peripheral type settlements predominate – 82.8%, remote settlements make up 12.1%, medium-remote – 3.2%, close – 1.9%. Among the peripheral rural settlements, the settlements with the number of 200-499 inhabitants prevail. In terms of distance to village councils, and after the decentralization reform and the appearance of starosta districts, medium-distance rural settlements predominate (254). Among them, settlements with a population of up to 200 and 200-400 people predominate. The smallest number is made up of peripheral rural settlements (42). There are no paved roads in 299 rural settlements of the region. Among these settlements, in terms of distance to paved roads, nearby settlements predominate, and peripheral Isil settlements make up the smallest part. Among nearby rural settlements, the most numerous are settlements with a population of up to 200 inhabitants, and among peripheral ones - with a population of 200–499 inhabitants (Волинь у..., 2021).

Among the rural settlements of the Volyn region, the main part of which is occupied by agriculture, 33% combine production and administrative functions, that is, they are the centers of village councils (starosta districts), and 36% of them combine production and production-administrative functions. The functional typology of rural settlements in the region is as follows:

- 1. Rural settlements, the main part of the population of which is engaged in agriculture: a) rural settlements in which branches, brigades and farms of joint-stock and joint-stock unions, agricultural enterprises and production sites and subdivisions of industrial enterprises and various organizations are located (49% of all rural settlements);
  - **b)** other rural settlements (50%).
- 2. Rural settlements, the main part of whose population is not engaged in agriculture (*Co-ціально-демографічне...*, 2020).

The time of mass liquidation of small settlements has been rejected by life itself, there is an immediate need to develop a direction for the general strengthening of rural settlements. Obviously, in modern conditions in the Volyn region, it is necessary to preserve the settlement that has developed; improve the improvement of villages, create all the necessary conditions for their residents, which is very important for the elimination of socio-economic divisions between the city and the village. Of special importance are the intelligent solution to the problems of rural life, the intensive development of social and industrial infrastructure in rural areas, the development of roads and means of communication, including individual transport, an essential condition for the complex transformation of the network of settlements - the expansion of the scope of employment and, above all, the employment of the population outside agriculture, the development of pendulum migration, which acts as a factor that stabilizes the social structure of the village, which restrains the migration of the rural population to the city. The change in rural settlement is associated with the industrialization of agriculture, the complication of the function of rural areas due to the promotion of industries that serve agricultural production and process its products, as well as nonproductive industries, the expansion of the use of rural recreational opportunities, etc. (ДРАГОмирецька, 2019). All this contributes not only to the expansion of inter-settlement ties, but also to the strengthening of interaction between the village and the city. The development of integral processes between the city and the village, the establishment of a single "city-village" system on this basis characterizes the main current trend in the development of resettlement (CO-KOAOBA, PATOIIIHIOK, 2020).

In our time, it is necessary to conduct a purposeful policy to stabilize the population in rural areas, to attract the young able-bodied population to agricultural production. It is necessary to preserve rural settlements. In our time, new trends began to appear. Due to a number of reasons (food, economic and ecological crisis), the population's interest in rural areas, including the urban population, is growing, and therefore it is necessary to reduce the outflow of the population from the countryside. In a number of places, there is an influx of population into rural areas. Part of the houses in the villages are bought by city dwellers as second homes, places of rest and production of products for their own use and sale on the market.

# Conclusions and prospects of further research

Therefore, the system of rural resettlement in the Volyn region is heterogeneous in social and economic terms. This is reflected in the differences in external functions performed by rural administrative districts, territorial communities in the specifics of their economic development, in the specifics of the demographic composition, natural and migratory movement, and the settlement of the rural population. The creation of sub-district maps of rural settlement with characteristics at the level of land users and the creation of a map of the region "rural settlement of the Volyn region" with sub-district (starosta) characteristics can be promising.

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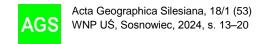
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# The current state, problems and prospects for the development of organic agriculture in Ukraine

Pogriebskij T., Golub G., Golub S., Potapowa A. **Stan obecny, problemy i perspektywy rozwoju rolnictwa ekologicznego na Ukrainie.** Artykuł poświęcony jest rozwojowi rolnictwa ekologicznego na Ukrainie. Przedstawiono czynniki rozwoju rolnictwa ekologicznego. Uwzględniono także specyfikę obecnego stanu tego typu rolnictwa na Ukrainie, wyjaśniono przestrzenne różnice w jego rozwoju. Zidentyfikowano problemy rolnictwa ekologicznego i podzielono je na grupy. Na podstawie analizy SWOT zbadano zewnętrzne i wewnętrzne czynniki tego rolnictwa na Ukrainie w kontekście zrównoważonego rozwoju obszarów wiejskich. Określono przesłanki i perspektywy rozwoju rolnictwa ekologicznego w tym państwie.

Погребский Т., Голуб Г., Голуб С., Потапова А. Современное состояние, проблемы и перспективы развития органического сельского хозяйства в Украине. Авторы дают характеристику факторов развития органического сельского хозяйства. В исследовании рассмотрены особенности современного состояния органического сельского хозяйства в Украине. Выяснены пространственные отличия развития органического сельского хозяйства в Украине. Выявлены и разделены на группы проблемы в органическом сельском хозяйства. Исследованы внешние и внутренние факторы органического сельского хозяйства в Украине в контексте сбалансированного развития сельских территорий на основе проведенного SWOT-анализа. Определены предпосылки и перспективы развития органического сельского хозяйства в Украине.

Погребський Т., Голуб Г., Голуб С., Потапова А. Сучасний стан, проблеми та перспективи розвитку органічного сільського господарства в Україні. Стаття присвячена розвитку органічного сільського господарства в Україні. Автори дають характеристику чинникам розвитку органічного сільського господарства. В дослідженні також розглянуто особливості сучасного стану органічного сільського господарства в Україні. З'ясовано просторові відмінності розвитку органічного сільського господарства в Україні. Виявлено та розділено на групи проблеми у органічному сільському господарстві. Досліджено зовнішні та внутрішні фактори органічного сільського господарства в Україні в контексті збалансованого розвитку сільських територій на основі проведеного SWOT-аналізу. Визначено передумови та перспективи розвитку органічного сільського господарства в Україні.

Keywords: organic agriculture, development of rural areas, SWOT analysis, Ukraine Słowa kluczowe: rolnictwo ekologiczne, rozwój obszarów wiejskich, analiza SWOT, Ukraina Ключевые слова: органическое сельское хозяйство, развитие сельских территорий, SWOT-анализ, Украина

**Ключові слова:** органічне сільське господарство, розвиток сільських територій, SWOT-аналіз, Україна

#### Abstract

The article is devoted to the development of organic agriculture in Ukraine. The authors describe the factors of development of organic agriculture. The study also considered the peculiarities of the current state of organic agriculture in Ukraine. Spatial differences in the development of organic agriculture in Ukraine have been clarified. Problems in organic agriculture are identified and divided into groups. External and internal factors of organic agriculture in Ukraine in the context of balanced development of rural areas were studied on the basis of the SWOT analysis. Prerequisites and prospects for the development of organic agriculture in Ukraine are determined.

### Introduction

Organic agriculture ensures a balanced state of ecosystems, which is a guarantee of sustainable development of the economic and social sphere of the entire society. During the entire life cycle of organic products, it is mandatory to comply with a number of requirements, which, in the end, contribute to the sustainable socio-economic development of agricultural production, providing for a balanced solution of socio-economic tasks, problems of preserving a favorable state of the environment and natural resource potential in order to satisfy public needs of contemporaries and future generations. The social benefits of organic production are the creation of additional jobs in rural areas and the emergence of new prospects for small and medium-sized farms, increasing the viability of rural communities, etc. Clarifying the state of development of organic agriculture in Ukraine is relevant, as it is defined as an agrarian country and has significant potential in the production and consumption of organic food products.

The problems and prospects of the development of organic agricultural production are investigated by foreign scientists: M. Gzybovska, M. Grunda, H. Villiers, M. Okada, J. Rodale, R. Steiner, and others, and Ukrainian scientists: V. Artysh, T. Zaichuk, N. Holovachenko,

T. Zinchuk and others (APTVIII, 2011). O. Shkuratov, P. Stetsyshyn, V. Rekunenko, and V. Pindus were engaged in the analysis of the foundations of the development of organic production (ШКУРАТОВ, 2011; ШКУРАТОВ, ЧУДОВСЬКА, Вдовиченко, 2015), studying the international experience of using organic farming technologies in Ukraine: M. Kobets, O. Yatsenko, Yu. Zavadska (КАРУНСЬКИЙ, ВОЄЦЬКА, ГАР-БАДЖІ, without date), clarifying the state of formation of demand for organic food products in Ukraine: O. Rudnytska, V. Chudovska, O. Shubravska (ПАСХАВЕР, ШУБРАВСЬКА, МОЛ-ДОВАН, 2009; ЧУДОВСЬКА, 2013), O. Shkuratov, V. Chudovska, and A. Vdovychenko dealt with the problems of the development of the market of organic agricultural products in the state, and trends in its efficiency (ШКУРАТОВ, 2011; ЧУ-ДОВСЬКА, 2013; ШКУРАТОВ, ЧУДОВСЬКА, ВДО-ВИЧЕНКО, 2015), socio-geographic aspects of the development of organic agriculture in the country: Ya. Sosnytska (СОСНИЦЬКА, КАРПЮК, ШЕВЧУК, 2019). But many issues related to the development of organic agriculture and the market for organic products still require further research.

The purpose of the article. The purpose of the article is to characterize the current state, identify problems and prospects for the development of organic agriculture in Ukraine.

## Research methodology

In the process of researching the current state and development of organic agriculture in Ukraine, materials from the Department of Agrarian Policy and Agriculture of Ukraine, the Federation of the Organic Movement in Ukraine, the Research Institute of Organic Agriculture (RIOA), the International Federation of Organic Agriculture, etc. were used. The methods used during the writing of the scientific article are systematic, ecological and geographical analysis and synthesis, modeling, comparison, analogy and statistical.

### Results of the research

Ukraine, having a significant potential for the production of organic agricultural products, its export, and consumption in the domestic market, has achieved certain results regarding the development of its own organic production. Thus, the area of certified agricultural land in Ukraine, used for the cultivation of various organic products, is already more than three hundred thousand hectares, and our state occupies an honorable twentieth place among the world leaders of the organic movement. The share of certified organic areas among the total volume of agricultural land in Ukraine is about 1.3% including the area of agricultural land with organic status – 370,110 ha, the area of agricultural land in the transition period – 52,189 ha. According to the structure of certified organic agricultural land, 76.4% is arable land, 21.3% – pastures, 1.8% – fallow and 0.5% – perennial plantations. The market of organic products in Ukraine is at the stage of formation. According to the Ministry of Agrarian Policy and Food, 504 operators operate on the organic market of Ukraine, including 304 agricultural producers (Opraнічна карта України..., without date). The total area of agricultural land with the status of organic and transition period is 381.2 thousand ha, while the share of organic land from the total area of agricultural land is 1%. At the same time, Ukraine ranks first in the Eastern European region in terms of certified area of organic arable land, specializing mainly in the production of grains, legumes and oil crops. This production has its own regional characteristics: most organic farms, which usually have a narrow specialization and are focused on the production of one or two types of agricultural products on a small scale – on several tens of hectares, concentrated in Odesa, Kyiv, Kherson, Poltava, Vinnytsia, Zakarpattia, Lviv, Ternopil and Zhytomyr regions. On the Ukrainian organic market, plant products prevail over livestock products in the ratio of 73 to 27%.

The potential of Ukraine in the cultivation of organic products is significant, but the deve-

lopment of organic land use is limited by many factors. This production process is characterized by high costs, which are more expensive than traditional, long-term methods of transition to organic agriculture, which usually last from two to five years. Problems in organic agriculture are also related to the lack of innovative activities in agriculture, underdevelopment market of organic products, low level of state support for organic agriculture. The study of obstacles to the wide implementation of organic farming methods allows us to divide them into three large groups: social-psychological, institutional-legal, and financial-economic. The socio-psychological problems associated with the introduction of organic farming methods in Ukraine are primarily: low level of awareness of the population and producers about organic farming (understanding of the main characteristics and advantages of these methods, as well as possible problems during the implementation process). Another difficult problem is the low environmental awareness of the population, primarily rural, and the low technological efficiency of agricultural production at all levels, from the fields of individual farmers to large organizations engaged in agriculture. This type of problem includes the lack of appropriate training in the theory and practice of organic farming in educational institutions of various accreditation levels. In addition to insufficient education and environmental awareness, there is a reluctance to overcome long-standing stereotypes related to the intensification of agriculture, as well as a low level of innovative activity on the part of managers and the state. In addition, rural areas have a difficult demographic situation and a low standard of living for residents. In the context of necessity, people distrust everything new and do not hesitate to risk existing assets.

The institutional and legal problems associated with the introduction of organic farming in Ukraine are as follows: the absence of an appropriate legislative and regulatory framework that meets the requirements of international law, an insufficient national system of certifica-

tion and supervision of organic farms and their products. Among other problems related to land reform, there is the need to preserve large farms, the prohibition of combining field and soil-protective crop rotation or the destruction of the latter – all of this is related to the implementation of land reform. The process of soldering land should be carried out on areas that are already structured by contour lines, this is necessary because it is necessary to follow the description of the project. The financial and economic problems associated with the implementation of organic farming are as follows: lack of market research for organic products, potential changes in market conditions for organic products during the transition period, and lack of support from the state during the conversion period or the provision of benefits or subsidies for the production of organic products. The growth of the state market for organic products could be faster if it were not for the current barrier, which is the relatively high cost of organic products and services. Prices for organic produce are usually higher than conventional produce. For example, according to European standards, the percentage of markup on organic products and goods is reasonably 20-30%, but in Ukraine this indicator sometimes exceeds 50%. For example, if you compare the price of organic groceries with regular groceries, the price ratio will be several times higher: bread – 3-6 times; 10 times more sugar; 2–3 times more milk; eggs, 4–5 times more; chicken, 3 times higher; 7–12 times more potatoes; 2–4 times more apples; and honey is 2 times higher. First of all, this is explained by the significant costs associated with the production process. Production costs in organic agriculture are significantly higher than in conventional agriculture. For example, the procedure for raising animals and poultry using organic methods has a high cost, and the organic fodder base is expensive. In addition, organic products are usually produced at a higher cost per unit because the product components are more expensive and the existing handling and storage regulations result in higher overall production costs

(Органік в Україні, 2010). The costs of organic products have increased due to their high prices, this is also due to the limited volume of production and the short distance that organic products travel. In addition, there are labor costs, administrative costs, the inspection and certification process, and the price premium associated with organic products. However, the high cost of organic products is compensated by their special quality and exceptional benefits, as a result of which the demand for products is growing, and the world movement towards naturalness is progressing. Many people see it as a lifestyle philosophy. The FAO assessment of the future development of agriculture in the world is based on the concept of organic agriculture, which is characterized by a careful approach to nature, the farmer and the consumer (Можливості державної підтримки..., without date).

Active promotion of organic production methods in Ukraine requires the active participation of agricultural producers and their associations, authorities and state institutions, private companies and certification institutions, consumer organizations, scientific and educational institutions, as well as non-governmental organizations, both environmental and, dealing with issues of development, consulting services and rural development. In the near future, it is necessary to develop the following directions regarding the production and distribution of organic agricultural products: to popularize organic farming, to increase the environmental awareness of Ukrainian farmers by highlighting its advantages in the mass media, to hold seminars and conferences on the topic of organic farming, to create associations and unions of farmers engaged in the cultivation of organic products, study the requirements of international standards regarding the certification of organic farms and their products. Informatization in a broad sense is crucial for the development of agricultural production, as it is the basis of sustainable agriculture. The responsibility for creating a comprehensive information system dedicated to agro-industry is immediate. Informa-

tion technologies, which are developing at an alarming pace, allow making long-term decisions that are based on information about the processes taking place both in regional and global product markets. In addition, it is necessary to be able to make changes in agricultural technology, based on the current state of crops and weather conditions during the growing season. This information can be obtained using satellite images of agricultural landscapes and analyzed using a geographic information system (GIS) (Органічне без меж, without date). Since the costs of producing organic products and raw materials are higher than the costs of traditional agriculture, it is important to increase state support for the period of transition to organic agriculture, first of all, it should concern the financing of technical costs for the repair of agricultural enterprises and farms. In addition, the typical budget of expenses related to the payment of preferential subsidies should be included in the state budget for the period of development of organic agriculture. To increase the level of knowledge of small and medium-sized commercial farmers in Ukraine, it is advisable to strengthen the activities of advisory services in certain regions of the country. As a result, in order to activate the export potential and solve environmental problems of Ukrainian agriculture, it is recommended that the state support farms during the transition period and in the process of certification for compliance with organic production, and create infrastructure for the market of organic products. However, the evolution of the legislative framework for organic production has led to an increase in the number of investors interested in this field, increased information available to consumers, and the development of organic production has led to an increase in the number of consumers who demand high-quality food products. This will positively affect the preservation of the environment, the restoration of soil and biodiversity, and the improvement of the quality of life in rural communities.

In Ukraine, the implementation of organic agriculture is particularly relevant, as it contri-

butes to the restoration of soil fertility and the preservation of the environment, the development of rural areas and the improvement of the standard of living of their inhabitants, which are the advantages of the agrarian profession. the need to improve Ukraine's reputation as a producer and exporter of high-quality, healthy organic products and the goal of ensuring Ukraine's food security. The contradictions surrounding the improvement of the conditions of organic agriculture, the attraction of investments in this area and the entry into new global food markets are still not resolved (Моніторинг земельних відносин..., 2018). As a result, in order to activate the export potential and solve the environmental problems of Ukrainian agriculture, it is necessary to develop a legislative framework, ensure state support for farms in the transition period and in the process of certification for compliance with organic production, and a market infrastructure must be created. Organic production makes it possible to realize the concept of sustainable development of the agricultural sector while maintaining a balanced socio-economic and natural resource composition. Its principles are dedicated to the preservation and reproduction of the natural environment and its biodiversity, maintaining the ecological balance of the environment, saving resources and reducing the intensity of agricultural production, increasing the volume of environmentally friendly products of high quality and improving health. people. The study of external and internal factors based on the conducted SWOT analysis led to the identification of several problems in the development of organic agriculture in Ukraine, in particular, the lack of regulatory support and legal certainty regarding organic agriculture; lack of state financial support, lack of official certification regarding organic agriculture, lack of economic risk insurance regarding organic agriculture, lack of professional knowledge regarding the implementation of organic agriculture, lack of investment resources and a complex procedure for certification of organic agriculture in accordance with current international standards,

primarily the standards of the European of the Union (table 1) (*Органічне без меж*, without date). The transition to an organic system of production is a significant step in the development of the agricultural economy of Ukraine and is necessary for the expansion of agricul-

tural production. The successful development of organic agriculture is possible through the creation of an effective economic and legal mechanism of development, which is implemented through the interaction of legal, economic and institutional components.

Table 1. SWOT – analysis of organic agriculture in Ukraine in the context of balanced development of rural areas

Tabela 1. Analiza SWOT rolnictwa ekologicznego na Ukrainie w kontekście zrównoważonego rozwoju obszarów wiejskich

Таблица 1. SWOT – анализ органического сельского хозяйства в Украине в контексте сбалансированного развития сельских территорий

| Tr Tr  |   |
|--|---|
| Strengths  | Weaknesses  |
| 1. The growing role of ecological production in the world  | 1. The organic sector is in its infancy.  |
| and the dynamic expansion of demand for its products.  | 2. Absence of a state strategy and program for  |
| 2. Resource conservation and reduction of energy inten-  | the development and support of organic agri-  |
| sity of agricultural production.   | cultural production.  |
| 3. Reduction of production costs.  | 3. Imperfect regulatory and legal support.  |
| 4. Significant potential for the development of the orga-  | 4. Absence of a clear, state-approved organic   |
| nic sector (the availability of an available network of  | production certification system.  |
| ecological lands and the number of labor resources).   | 5. Low level of awareness of the population   |
| 5. Production of high-quality ecologically clean products,   | and producers regarding the opportunities   |
| safe for human health, which contributes to the presser-   | and prospects for the development of organic  |
| vation of the nation.  | production.   |
| 6. High export potential.  | 6. Insufficient development of organic product  |
|  | sales markets.  |
|  | 7. Special storage conditions for organic pro-  |
|  | ducts.  |
|  | 8. Insufficient level of market infrastructure de-  |
|  | velopment.  |
| 0 4 111  | mot .   |
| Opportunities  | Threats   |
| 1. Development of the internal market of organic pro-  | 1. Economic and political instability in the state.   |
| 1. Development of the internal market of organic products.   | <ol> <li>Economic and political instability in the state.</li> <li>Legislative non-regulation of the production</li> </ol>  |
| <ol> <li>Development of the internal market of organic products.</li> <li>Guaranteeing the quality and safety of agricultural</li> </ol>   | <ol> <li>Economic and political instability in the state.</li> <li>Legislative non-regulation of the production of organic products.</li> </ol>   |
| <ol> <li>Development of the internal market of organic products.</li> <li>Guaranteeing the quality and safety of agricultural products for the consumer.</li> </ol>  | <ol> <li>Economic and political instability in the state.</li> <li>Legislative non-regulation of the production of organic products.</li> <li>Lack of qualified quality control of organic</li> </ol>   |
| <ol> <li>Development of the internal market of organic products.</li> <li>Guaranteeing the quality and safety of agricultural products for the consumer.</li> <li>Increasing the competitiveness of product manufactu-</li> </ol>  | <ol> <li>Economic and political instability in the state.</li> <li>Legislative non-regulation of the production of organic products.</li> <li>Lack of qualified quality control of organic products by the state.</li> </ol>  |
| <ol> <li>Development of the internal market of organic products.</li> <li>Guaranteeing the quality and safety of agricultural products for the consumer.</li> <li>Increasing the competitiveness of product manufacturers on the domestic and foreign markets.</li> </ol>  | <ol> <li>Economic and political instability in the state.</li> <li>Legislative non-regulation of the production of organic products.</li> <li>Lack of qualified quality control of organic products by the state.</li> <li>Floating prices for organic products.</li> </ol>   |
| <ol> <li>Development of the internal market of organic products.</li> <li>Guaranteeing the quality and safety of agricultural products for the consumer.</li> <li>Increasing the competitiveness of product manufacturers on the domestic and foreign markets.</li> <li>Strengthening the export potential of the state.</li> </ol>  | <ol> <li>Economic and political instability in the state.</li> <li>Legislative non-regulation of the production of organic products.</li> <li>Lack of qualified quality control of organic products by the state.</li> <li>Floating prices for organic products.</li> <li>Absence of an effective risk insurance mecha-</li> </ol>  |
| <ol> <li>Development of the internal market of organic products.</li> <li>Guaranteeing the quality and safety of agricultural products for the consumer.</li> <li>Increasing the competitiveness of product manufacturers on the domestic and foreign markets.</li> <li>Strengthening the export potential of the state.</li> <li>Preservation and reproduction of natural soil fertility.</li> </ol>  | <ol> <li>Economic and political instability in the state.</li> <li>Legislative non-regulation of the production of organic products.</li> <li>Lack of qualified quality control of organic products by the state.</li> <li>Floating prices for organic products.</li> <li>Absence of an effective risk insurance mechanism in agriculture.</li> </ol>   |
| <ol> <li>Development of the internal market of organic products.</li> <li>Guaranteeing the quality and safety of agricultural products for the consumer.</li> <li>Increasing the competitiveness of product manufacturers on the domestic and foreign markets.</li> <li>Strengthening the export potential of the state.</li> <li>Preservation and reproduction of natural soil fertility.</li> <li>Minimizing the impact of agricultural production pro-</li> </ol>   | <ol> <li>Economic and political instability in the state.</li> <li>Legislative non-regulation of the production of organic products.</li> <li>Lack of qualified quality control of organic products by the state.</li> <li>Floating prices for organic products.</li> <li>Absence of an effective risk insurance mechanism in agriculture.</li> <li>Development of inflationary processes and</li> </ol>  |
| <ol> <li>Development of the internal market of organic products.</li> <li>Guaranteeing the quality and safety of agricultural products for the consumer.</li> <li>Increasing the competitiveness of product manufacturers on the domestic and foreign markets.</li> <li>Strengthening the export potential of the state.</li> <li>Preservation and reproduction of natural soil fertility.</li> <li>Minimizing the impact of agricultural production processes on the environment and preserving biological</li> </ol>   | <ol> <li>Economic and political instability in the state.</li> <li>Legislative non-regulation of the production of organic products.</li> <li>Lack of qualified quality control of organic products by the state.</li> <li>Floating prices for organic products.</li> <li>Absence of an effective risk insurance mechanism in agriculture.</li> <li>Development of inflationary processes and decrease in the purchasing power of the po-</li> </ol>  |
| <ol> <li>Development of the internal market of organic products.</li> <li>Guaranteeing the quality and safety of agricultural products for the consumer.</li> <li>Increasing the competitiveness of product manufacturers on the domestic and foreign markets.</li> <li>Strengthening the export potential of the state.</li> <li>Preservation and reproduction of natural soil fertility.</li> <li>Minimizing the impact of agricultural production processes on the environment and preserving biological and landscape biodiversity.</li> </ol>   | <ol> <li>Economic and political instability in the state.</li> <li>Legislative non-regulation of the production of organic products.</li> <li>Lack of qualified quality control of organic products by the state.</li> <li>Floating prices for organic products.</li> <li>Absence of an effective risk insurance mechanism in agriculture.</li> <li>Development of inflationary processes and decrease in the purchasing power of the population.</li> </ol>  |
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The constructed matrix of SWOT analysis regarding the development of organic agriculture in Ukraine is the reason for the growing popularity of ecologically clean agriculture throughout the world. In addition, the dynamic growth of demand for organic products contributes to increasing the potential of domestic agriculture, saving resources and reducing energy consumption in agriculture. The effective interaction of these components is designed to increase the competitiveness of the producer in the organic food industry. In addition, the state should take on a role in creating an ideal environment for the development of organic agriculture. The economic subsystem of the mechanism includes economic instruments of influence on the competitiveness of agricultural companies through state supervision and the market mechanism (Органічне виробництво в Україні..., without date). The main purpose of the organizational subsystem is to promote the development of organic production by creating appropriate conditions for the internal economic behavior of the company, external factors and the market. The formal component of the mechanism is regulatory assistance to agricultural enterprises that produce organic products. The main tasks of creating and implementing an economic and organizational mechanism for increasing the efficiency of production of organic agricultural products are: increasing the natural fertility of soils; preservation of the environment; improving the quality of organic products produced in Ukraine; increase in the number of employed population; increasing the competitiveness of producers of organic products and attracting external financing.

Ukraine has all the prerequisites for the development of organic agriculture – powerful natural resources, favorable climate, high soil fertility, large areas of ecologically clean agricultural land, low level of use of chemical fertilizers, pesticides or additives. However, at the moment, the potential of Ukrainian producers of organic food products is not fully utilized.

# Conclusions and prospects of further research

Therefore, the potential of Ukraine in the cultivation of organic products is significant. With the improvement of the legislative framework for conducting organic production, the attracttion of investments in this industry, the widespread informing of consumers and the development of organic production, the consumer market will be provided with high-quality food products, this will contribute to the preservation and improvement of the environment, the restoration of soils and biodiversity, and the improvement of the level of development of rural areas.

The strategic objectives of the effective development of organic agriculture in Ukraine are: improvement of the regulatory and legal framework; promoting the competitiveness of domestic organic products on the international and national markets; development of the system of state certification of organic products; ensuring clear state control over the quality of organic food; introduction of innovative technologies in organic agriculture and improvement of the infrastructure of the market of organic products.

In general, the development of organic agriculture will contribute to the improvement of the economic, social and ecological situation in Ukraine, the comprehensive development of rural areas and the improvement of the health of the country's population.

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