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## **THE ENVIRONMENTAL INFLUENCE OF ECOLOGICAL SECURITY FACTORS OF FOREST ENTERPRISES EXPORT ACTIVITIES**

**Yurkiv Nadiia Mukolaivna**

*Postgraduate Student of the Department of Foreign Economic Activity,  
Ukrainian National Forestry University, Ukraine*

*It was established a system of environmental safety factors of the production process of exports wood products that was based on the concept of environmental security of forest enterprises. The classification of these factors at various stages of the production process was made. An analysis of environmental safety factors on the environment in the course of forest enterprises export was done.*

**Keywords:** *environmental security, export activities of forest enterprises, the factors of environmental safety, technological process, manufacturing exports products.*

**Introduction.** Environmental safety of the forestry enterprises activities including the requirements of sustainable forest management is the result of transforming the ecological human and society needs influenced intensify the negative effects of manufacturing.

The feature of forestry as the importing component of the whole national economic complex is that it is completely based on the natural forest resources. In addition, the forest industry makes a significant natural and social loading. The great damage caused to the environment in the stocking process, and also during the technological wood elaboration.

There is a contradiction between the economic benefits of exports and negative environmental and social impacts of wood production. One of the stages of resolving such conflict is to respect the environmental safety requirements for the process of wood manufacturing. Because of that an actual is to systematize and comprehensive research the factors that affect the environmental safety for their negative environmental impact preventing.

**Analysis of recent researches and publications.** For the determination of environmental safety factors of the production process of wood products export, you must first to find out a concept of environmental safety.

Today there are various approaches of the interpretation the term “environmental security”. Professor A. Kachynskij defines environmental security as a part of national security, providing protection of vital human needs, society and the environment needs and also the state needs of real or potential threats posed by anthropogenic or natural factors concerning to the environment [3].

Professor M. Reimers explain environmental safety as a set of actions, states and processes of direct or indirectly lead to serious environmental and individuals losses, and human damages in general [6].

A. Ursul describes the importance of environmental safety as “a set of specific environmental properties and created purposeful human activity impacts on ... which provides for the preservation of health and people life and makes impossible the remote consequences of this effect for present and future generations” [7].

The necessity of providing the ecology-economic safety of management subjects activity has been led by a professor V. Kravciv. He has exposed economic maintenance of this concept and has explained theoretical-methodical principles of regional ecological policy forming as the integral management system of ecological safety, and also has developed the suggestions how to develop the mechanisms of its realization [2, 4, 5].

**Previously unsettled problem constituent.** In the directed interpretations an ecological safety is examined, mostly, on global and state levels. However, the basic and system loading on the nature is carried out from the subjects of economic activity – enterprises of different economic branches. Especially important this problem is for those enterprises which operating activity is based on natural resources, separately, for the forest enterprises.

Today there is no expressly formed system of ecological safety factors of forest enterprises export activity and the description of their influence on the environment.

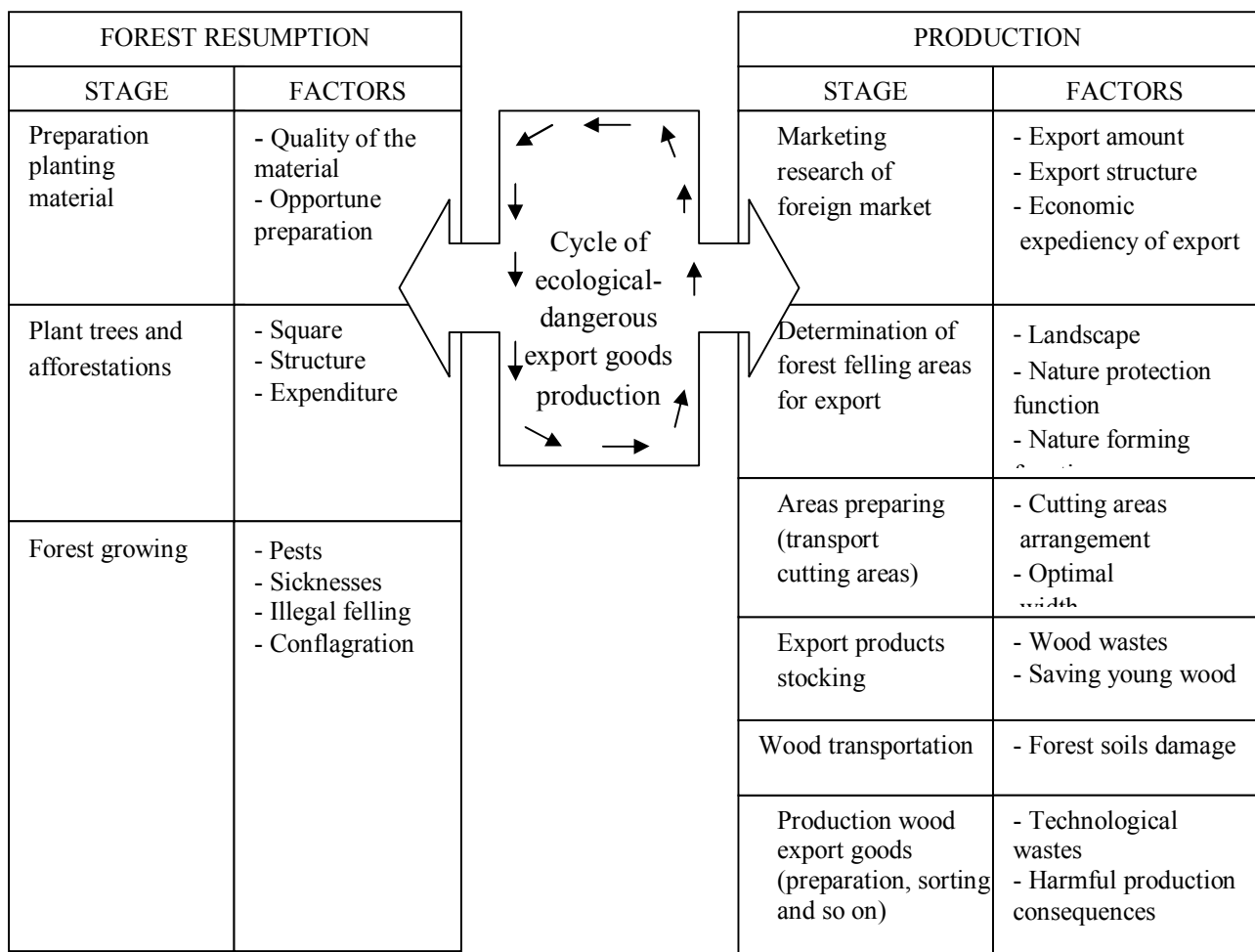
**Main purpose of the article.** The research of the environmental factors influence of ecological safety of forest enterprises export activity, their systematization on the stages of production process is the purpose of the article.

**Results and discussions.** Every direction or type of economic activity has its loading degree on forest resources. For example, wood production for domestic coal industry and production of export goods makes a different influence on forest resources. Export wood must be conformity with the rough standards that considerably increases operating areas during the necessary wood selection, and also during the production of export goods. Stocking process and technological cultivation of export wood make plenty of wastes, which, usually, do not find the subsequent complete alteration because of low, by comparison to an export, profitability of such

productions. The export products of the Ukrainian enterprises are mostly made by hardwood and softwood. The considerable fellings exactly of these breeds for export may make a violation of forests natural structure, even during intensive and purposeful process of forests resumption.

Probable opportunities to achieve environmentally safe conditions of export activity company determines with using the method of diagnosing the current state of the process and compare this condition with established standards, requirements and needs at every stage of production. That is, it has find problems, time of their appearing and development degree.

We had elaborated the factors system of ecological safety of technology export production cycle, as the most important in the integrative process of environmental safety forming of export activity and which is necessary for diagnose and determine strategies for environmental safety, which are shown in Figure 1.



**Fig. 1. Environmental safety factors of the technology export production cycle (developed by the author)**

The production of export goods is explained the necessities of external market, which are the article of everyday marketing researches. Ecological safety of this process is arrived at determination of optimum, not overloaded for ecology amount of the export fellings, safe structure of export products for eco-balance of forest areas, economic advantageous export contracts. The research and analysis an external market, optimization of export deliveries, in accordance with enterprise possibilities and market structure is constituents of general management process of ecological safety of forest enterprises export activity.

Determination of concrete wood areas for the export fellings provide with ecological safety foresees the account of natural functions of enterprise forest territories such as landscape, protection of natural ecosystems, and so on.

Preparation of export cutting areas foresees such ecologically dangerous measures, as felling of transport cutting areas which must not break natural gutters and must not make erosion of forest soils.

The procurement of export wood is accompanied by big amount of wastes which are the results of hard standards of export products. Ecologically safe state requires their minimization.

The stage of transporting the wood to the places of the final alteration makes the considerable ecological loading on the enterprises forest territories. Powerful transport vehicles destroy the fertile layer of forest soils and violate natural gutters.

The stage of final production of export goods in an ecological plan is dangerous because of considerable wastes of bark, wood residues, and harmful emissions into the atmosphere.

Process of forests recreation also must have an ecological orientation – it is important to follow to balance of export fellings areas and young planting taking into account the losses of planting in the process of long period of commodity products growing. A recreation of primary forests structure is important. It is the condition of forest ecosystem conservation. The process of export production and compensation of such production loading during the forests resumption process is determined the internal factors of enterprise.

The causes of the emergence and development the problem of an eco-dangerous state may be only partially determine during the diagnostics of internal factors of the ecological condition of the company activity. Environmental security of enterprises activities is influenced by a large number of factors in the external environment that, in many cases, is the cause of environmental problems.

We suggest, that according to the results and the degree of managerial influence from the subject of the economy the environmental external factors can be divided into two groups:

- factors associated with satisfaction of human needs as a living organism and part of the overall biosphere (the social functions of forests);

- factors associated with public production and modern society being (counteraction process of harmful effects because of material production, human livelihoods and forest conservation).

Forest farms areas withstand significant social load for the satisfaction of human needs for rest, recuperation, informational and aesthetic human development. At the same time, the factors of such external influences may be, in a certain way, managed the household by a limitation tourist routes, recreation areas, hunting grounds, depending on the capabilities of the forest areas of the economy to withstand such stress and to make a profit, which would allow to compensate such load.

High public awareness and scientific-technical progress actively influence the formation of consumer preferences. Such changes in preferences can have positive and negative aspects for environmental security. The positive aspect is that people are more aware of the importance of natural resources for their existence and the real price that they must to pay nature for the use of its resources. The negative aspects are nature overload and the formation of a social infrastructure of forest areas that violate the primary natural balance.

A group of social factors that are associated with the production and livelihoods of people is a much more dangerous threat to the export resource base of the forest enterprises.

Huge amounts of harmful industrial emissions, intensive use of fertilizers, herbicides and pesticides in agriculture, rivers and reservoir pollution from sewage grains, make a negative influence on the cultivation processes and timber quality, and also lead to violations of forest ecosystems and reduce significantly the natural resource potential of the forestry enterprises [1].

In spite of a number of government measures to compensate the consequences of such nature loads by paying enterprises significant environmental taxes, such external factors are the greatest threat to environmental forests safety and respectively, for environmental safety of such activities as the production of export products.

Consequently, ecological conditions of forest enterprises export activities are influenced by a system of factors determining the enterprise interests (internal factors), and factors that determine the interests of society and nature in their harmonious combination (external factors).

**Conclusions and further researches directions.** Factors of ecological safety of the technological production cycle, as the most important in the integrated processes of ecological safety of export activities formation we proposed to divide into external and internal. After the researching their influence and comparing activity conditions with the established standards, requirements and needs at every stage of production, we had determined the environmental security strategy of the activity.

Given the fact that the forest industry carries significant nature and social burden, and also that at some stages of the technological process of the production of export goods they make significant damage to the environment, such production should be environmentally friendly and economically profitable.

Installed and systematized factors of environmental security can be a powerful tool in the development of sustainable strategies of foreign economic activity of forest enterprises.

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**ВПЛИВ ФАКТОРІВ ЕКОЛОГІЧНОЇ БЕЗПЕКИ ЕКСПОРТНОЇ ДІЯЛЬНОСТІ  
ЛІСОВИХ ПІДПРИЄМСТВ НА ДОВКІЛЛЯ**

**Юрків Надія Миколаївна**

*аспірант кафедри зовнішньоекономічної діяльності,  
Національний лісотехнічний університет України, Україна*

*Виходячи з поняття екологічної безпеки лісових підприємств, встановлено систему факторів екологічної безпеки процесу виробництва експортної продукції з деревини. Здійснено класифікацію цих факторів на окремих етапах виробничого процесу. Виконано аналіз факторів екологічної безпеки на навколишнє природне середовище в процесі здійснення експортної діяльності лісових підприємств.*

***Ключові слова:** екологічна безпека, експортна діяльність лісових підприємств, фактори екологічної безпеки, технологічних процес, виробництво експортної продукції.*

**ВЛИЯНИЕ ФАКТОРОВ ЭКОЛОГИЧЕСКОЙ БЕЗОПАСНОСТИ ЭКСПОРТНОЙ  
ДЕЯТЕЛЬНОСТИ ЛЕСНЫХ ПРЕДПРИЯТИЙ НА ОКРУЖАЮЩУЮ СРЕДУ**

**Юрків Надежда Николаевна**

*аспірант кафедри внешнеэкономической деятельности,  
Національний лісотехнічний університет України, Україна*

*Исходя из понятия экологической безопасности лесных предприятий установлена система факторов экологической безопасности процесса производства экспортной продукции из древесины. Осуществлена классификация этих факторов на отдельных этапах производственного процесса. Выполнен анализ факторов экологической безопасности на окружающую природную среду в процессе осуществления экспортной деятельности лесных предприятий.*

***Ключевые слова:** экологическая безопасность, экспортная деятельность лесных предприятий, факторы экологической безопасности, технологических процесс, производство экспортной продукции.*