

FORECASTING THE EFFICIENCY OF THE MANAGEMENT OF RESOURCE-SAVING DEVELOPMENT OF AGRICULTURAL ENTERPRISES

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Abstract

The complexity of forecasting resource-saving development of enterprises and the variety of factors that determine the effectiveness of the implementation of resource-saving agri-food sector, require new innovative approaches in the field of business management. At the present stage of development of the world economy there have been changes in the paradigm of management of resource conservation and greening of production. In addition to the changes in the principles and methods of resource conservation management, there have been changes in the methods of forecasting resource conservation management at the enterprise. Given the lack of tools for assessing the effectiveness of management of resource-saving development of agri-food enterprises in the scientific world, there is a need to intensify further research in this area. The aim of the article is to model the forecasting of the efficiency of management of resource-saving development of agri-food enterprises in today's conditions.

The materials for forecasting the effectiveness of resource-saving development management were statistical data of agricultural enterprises of Poltava, Zaporizhia and Luhansk regions. In order to model the forecasting of the effectiveness of management of resource-saving development of agri-food enterprises, we used adaptive models. These models have the ability to adjust their parameters according to the dynamics of the indicators for which they are used to predict. A dynamic regression model was used to predict integrated assessments of the effectiveness of resource-saving development management of agri-food enterprises in Ukraine. The dynamic regression model was used to determine forecasts of integrated assessments of economic efficiency of material, human, financial, intangible, informational, time resources, financing of resource-saving measures, social and environmental efficiency of resource-saving development management. The results of modeling the forecasting of the effectiveness of management of resource-saving development of agri-food enterprises were tested on a group of Ukrainian enterprises (according to the data of 2011 - 2020).

The study revealed common problems of resource-saving development management for groups of enterprises in Poltava, Zaporizhia and Luhansk regions. Negative trends in the use of material resources are a decrease in capital efficiency, lower profitability of fixed assets, reducing the turnover ratio of inventories. There are no positive trends in the dynamics of most financial indicators, which reduces the efficiency of financial resources. There are also no positive trends in the dynamics of the coefficient of completeness of information, which negatively affects the management decision-making process. Our forecast of integrated assessments of the effectiveness

of management of resource-saving development of agri-food enterprises showed that most of the studied enterprises need to improve the management system of resource-saving development. This necessitates the development of recommendations for organizational and personnel support, the formation of resource-saving behavior of staff, a comprehensive assessment of the effectiveness of this area of management.

The proposed modeling of forecasting the effectiveness of resource-saving development of agri-food enterprises will be appropriate for practical use in the current activities of market participants in order to save production and improve its environmental friendliness.

Key words: *Resource-saving development, Management; Agri-food enterprises, Forecasting.*