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METHODOLOGY OF FORMING A MODEL FOR INTEGRATED ASSESSMENT OF EFFECTIVENESS AND QUALITY OF ENVIRONMENTAL MANAGEMENT OF FOOD INDUSTRY ENTERPRISES

Production activity of food industry enterprises considerably affects the environment, which is why environmental problems are particularly topical problems of our time. One of the primary eco-directed tasks of modern enterprises should be minimization of the negative impact on the environment. The problem of harmonizing the interests of enterprises and stakeholders can be solved by attracting modelling potential that can provide additional knowledge to understand the complex relationships between quality and effectiveness.

Procedure of construction of a model for integrated assessment of effectiveness and quality of environmental management and preparation of managerial decision based on economic and mathematical methods should be carried out by a series of interrelated stages.

1. Setting problem and research objectives.

2. Construction of a conceptual model. The conceptual model of integrated assessment of quality and effectiveness of environmental unit is understood as a complex of indicators that determine their overall level and significance of each of them.

3. Formation of information base for the model of integrated assessment of effectiveness and quality of environmental management.

4. Construction of a numerical economic and mathematical model for integrated assessment of effectiveness and quality of environmental management.

5. Numerical solution of the problem of integrated assessment of effectiveness and quality of environmental management. Taking into account the scope and complexity of calculations it is advisable to implement this stage using spreadsheet application MS EXCEL.

6. Analysis of numerical results of modelling and decision making. At this stage we solve an important question concerning the accuracy and completeness of modelling results, and as a result, development of recommendations for practical use in making appropriate decisions or improving the model.

Thus, the downward trends of actual impact of food industry enterprises are possible only under conditions of effective and high-quality functioning of environmental management. Therefore, methodical research aiming to form the model for

integrated assessment of effective- management for food industry en-
ness and quality of environmental terprises is a topical problem.