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FOUNDATION OF OPTIMAL STRUCTURE OF SOWING AREAS AND CROP ROTATIONS FOR DEVELOPMENT OF ORGANIC AGRICULTURE IN ECONOMIES OF UKRAINE IN BEGINNING OF XXI OF CENTURY

Summary

It is set that at the beginning XXI of century in the conditions of rational agricultural production in Ukraine of large value purchased the ground of optimal structure of sowing areas and crop rotations with an effective satiation, placing and correlation of cultures taking into account ground-climatic terms and specializations of economies, that provided application of optimal norms of organic fertilizers, use of after reaping, after hay-crops and sideration cultures. Basic principle of construction and introduction of rational crop rotations in economies, placing of sowing of winter wheat, corn, sugar beets and other leading cultures became then scientifically reasonable predecessors with the observance of norms of their return into previous place of growing. This was provide the fertility-improving of soil, productivity of agricultural cultures and their quality.

The large economies of Ukraine, in that in quality of model of optimization of land-tenure effective organic technologies were used on the basis of optimization of

structure of sowing areas and crop rotations, are analysed. It is well-proven that the increase of production of grain in economies was related to intensification of the technological process of growing, sent to the increase of the productivity, improvement of quality of grain and diminishing of losses from weeds, illnesses and wreckers at the terms of maintenance of ecological safety of environment. First of all it touched such grain-crops, as a winter wheat, barley, oat, peas, corn on grain, and also industrial and forage crops. Mastering of the newest technologies required minimum till of soil, use of complex and broad-cut aggregates to till of soil, terms of bringing of organic fertilizers taking into account providing of soil the elements of feed. The proper place was taken to application of organic measures, to that the use of side products of predecessors, intermediate sowing is attributed on a green feed and siderations, application of the systems of the integrated defence of sowing from weeds, wreckers, illnesses and lying.

Certainly, that forming of strategy of development of organic agriculture in economies by the ground of optimal structure of sowing areas and crop rotations got development on the basis of researches of research establishments that extended effective research work. Possibility of introduction of the dynamic crop rotations of intensively-ecological aspiration, adapted to the different ground-climatic terms with corresponding organic measures, appeared on the basis of works of scientists. In fact, negative consequences from a failure to observe of scientifically reasonable crop rotations and excessive growing of high-performance cultures caused distorting the ecological balance of natural landscapes of Ukraine and strengthening of erosive processes in soil, that resulted in the decline of production of high-quality agricultural goods.

Key words: *development, optimization, structure of sowing areas, crop rotation, organic agriculture, organic measures, economies.*