

# **ROLE OF WATER RESOURCES IN THE DEVELOPMENT OF AGRICULTURE OF RUSSIA IN CONDITIONS OF CHANGE OF THE CLIMATE**

**Academician of Russian Agricultural Academy B.Kizyaev,  
director of VNIIGiM name of A.N.Kostyakov**

Agriculture is the largest socially significant sector of national economy of Russia. In agrarian and industrial complex it is made about third of total public product, 30% of number of the workers occupied in the material sphere, a quarter of a fixed capital, manufacture more than 70 % of consumer goods for the population and agricultural raw material for 60 branches of a process industry are concentrated. Efficiency of functioning of agrarian and industrial complex renders deciding influence on health and quality of a life of the population, ecological both food safety and a condition of economy of Russia as a whole. Ecologically safe, economically effective and socially focused development of agrarian and industrial complex appreciably depends on a condition and functioning of a land reclamation-water-economic complex in particular in connection with change of climatic conditions.

Water resources play determining role in the development of rural territories, an industrial and social infrastructure, manufacture of agricultural production and maintenance of food safety of Russia. In social and economic development of agrarian and industrial complex ecological compatibility and safety of water use and functioning of a water-economic complex, the prevention and liquidation of negative influence of catastrophic consequences of flooding, access to qualitative water resources has great value.

In Russia each second inhabitant is forced to use the potable water mismatching on a number of parameters to sanitary-and-hygienic requirements, almost third of population of the country use the decentralized sources of water supply without corresponding water-preparation. It conducts to the growth of some diseases and to the reduction of life expectancy.

In the system of maintenance with water resources of the processing enterprises of agrarian and industrial complex, cattle-breeding complexes, farms and integrated poultry farms quality of water renders the essential influence on high quality and harmlessness of agricultural production, the viability and efficiency of animals, the efficiency of functioning of the enterprises. In irrigated agriculture - on soils fertility, water consumption, productivity, quality of agricultural production, and also on safety, durability and reliability of functioning of technical equipment for irrigation, mechanisms and constructions of irrigating systems.

Essential influence on development of agrarian and industrial complex consequences of harmful influence of waters - render flooding of the grounds by subsoil waters, flooding of the grounds, settlements and objects of economy at flooding, and also environmental contamination. The reduction in harmful influence of waters on an environment has the important social and economic value.

Thus, water resources essentially influence social and economic development of agrarian and industrial complex. In process of the further development of agriculture with the purpose of maintenance of food safety of Russia on the basis of expansion of the area of the irrigated grounds, the guaranteed maintenance with water of agricultural population and objects of agrarian and industrial complex, the role of the water factor will increase.

Especially these problems are actual in connection with change of climatic conditions. There is also a problem on water-security by qualitative water resources of the Russian regions boundary with Kazakhstan (the Orenburg, Kurgan, Chelyabinsk and Omsk areas).

In these conditions the formation of strategic directions of development of a land reclamation -water-economic complex of agrarian and industrial complex should be carried

out on the basis of the analysis of a modern condition and problems of its development in close interrelation with the general directions and scales of social and economic development of the country.