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Measures Taken to Develop the Irrigation System in the Country

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Abstract: After the independence of Uzbekistan, as in all areas, the water management system has undergone significant reforms and a number of measures. Today, in the irrigation system of the republic, special attention is paid to the rational and economical use of water resources, and the process of modernization in this area is gradually improving from year to year. It was during this period that a number of decisions, laws were developed and implemented in order to develop the system and legally guarantee it. The article describes the decisions on the development of the water management system in Uzbekistan, ways of efficient use of water resources and the ongoing reforms in agriculture.

Keywords: water resources, decision, land reclamation and irrigation, investment projects, reservoirs, drainage and collectors, reform.

At the same time that the processes of globalization are deepening in the world, intensive development of the irrigation system on a global scale, effective management of water management and improvement of irrigation infrastructure, application of agrotechnical measures in farming, implementation of innovations for improving the meliorization of irrigated lands, economical and rational use of water resources are of great importance. . It should be noted that the basis of agricultural and industrial production, development of social life, without a doubt, is the water management system. After all, the development of agriculture and the economy is directly connected with the fields of irrigation and melioration.

The main part. The Decree of the President of the Republic of Uzbekistan "On the Strategy of Actions for the Further Development of the Republic of Uzbekistan" adopted on February 7, 2017 on the priority directions for the modernization and rapid development of agriculture contains ideas on the modernization of the irrigation system, including "improvement of irrigated areas in terms of melioration, irrigation development of facilities, implementation of intensive methods of agricultural production, first of all, advanced agro-technologies that save water and resources, and effective use of agricultural machinery with high productivity" are set to be carried out on a systematic basis [1].

The action strategy for the further development of the Republic of Uzbekistan envisages the implementation of the following measures in order to further improve the reclamation of irrigated lands, develop irrigation and reclamation facilities, ensure their safe and stable operation, rational and economical use of water resources and, on this basis, to achieve the stability of the production of agricultural products :

- 734.9 km. highway, inter-district, inter-farm collectors, 348.3 km. construction and reconstruction of closed-bed drainage systems, 6 reclamation pumping stations, 79 reclamation vertical wells, hydrotechnical facilities in 131 reclamation facilities;
- 14537.2 km. open collectors, 1330.5 km. repair and restoration of closed-bed drainage networks, 15 reclamation pumping stations, 791 reclamation vertical wells, 2277 hydrotechnical facilities in reclamation facilities;
- 500 km. channels, 74 km. irrigation tray system, 106 hydrotechnical facilities, 10 km. pressure water pipelines, capacity 625 mln. m. construction and reconstruction of water reservoirs equal to 0.5 km. protection and protection of the coastal region;
- Leasing 142 reclamation techniques and equipment to contracting organizations specializing in water management;
- On the basis of a critical study of the effectiveness of the work carried out within the framework of the "2013-2017 State Program for the Improvement of Land Reclamation and the Rational Use of Water Resources", the development of the "2018-2022 State Program for the Improvement of the Land Reclamation and the Rational Use of Water Resources" project;

A total of 905,000 mln. soums, including 457,273 mln. It was decided to spend state budget funds of soums. As a result of these works, 270.5 thousand hectares of irrigated land were maintained in a stable meliorative state, and 276.2 thousand hectares of irrigated land were guaranteed water supply.

According to the State Program of the Republic of Uzbekistan "Improving the reclamation of irrigated lands and rational use of water resources in 2013-2017" in 2013-2017, it is planned to introduce modern methods of irrigation on a total of 104,600 hectares. According to the data, in 2011-2015, drip irrigation was introduced in 47,356 hectares of cultivated land, and irrigation technologies were introduced in 18,418 hectares through portable flexible pipes. Implementation of advanced irrigation technologies under the action strategy has been systematically continued, and this will help increase water supply and productivity of crops in the context of global water scarcity. In the decision of the President of Uzbekistan on April 20,

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2017 "On the program for the comprehensive development and modernization of drinking water supply and sewage systems in 2017-2021" during the above-mentioned years, it is necessary to apply important changes in the drinking water supply and sewage system and to introduce modernization in this area, water the goal of applying relevant information technologies in the field of supply was determined.

Also, in this decision, 13 thousand km in the next six years. important water pipelines and water supply networks, more than 1.6 thousand water wells, 1.4 thousand new towers and reservoirs that generate pressure of water resources were built and reconstruction started. As a result, due to attracting appropriate grants and targeted loans from international financial organizations, many settlements that were not provided with drinking water were provided with water that meets modern requirements for quality and safety.

It was also recognized in the decision that several unsolved problems of providing quality drinking water to some regions, first of all, the Republic of Karakalpakstan, Bukhara, Jizzakh, Kashkadarya, Surkhandarya, Syrdarya and Khorezm regions.

On May 4, 2017, the decision of the President of the Republic "On measures to regulate the rational use and accounting of underground water reserves in 2017-2021" was adopted, the main focus of which is the economical use of natural water resources, the amount of water resources used direct attention was paid to the establishment of appropriate accounting, prevention and protection of their pollution and scarcity.

In this decision, as a result of the non-operation of surface water supply networks and many drainages in some areas and the unsatisfactory condition of the functioning drainage networks, the intensive rise of the underground seepage water level, as well as the fact that a planned special hydrogeological investigation was not carried out here, many cities and other residents the rise of underground seepage water level was observed in some places, its negative aspects were emphasized.

In conclusion, it should be noted that after Uzbekistan gained independence, special attention was paid to the issue of objective and scientific research of the history of our country, and the attitude towards the history of the past changed fundamentally. Among a number of historical topics, special emphasis is placed on the historical study of the irrigation system and the history of irrigated farming culture based on a theoretical-conceptual approach. In particular, in the priorities of the Action Strategy for the Five Priority Areas of the Development of the Republic of Uzbekistan in 2017-2021, in the priority directions for the modernization and rapid development of agriculture, "improving the reclamation condition of irrigated lands, developing networks of reclamation and irrigation facilities, intensive methods in the field of agricultural production, the most first of all, important tasks such as introduction of modern agro-technologies that save water and resources, use of agricultural machinery with high productivity" were defined.

Based on the above, it should be noted that the research of the modern period of the history of the water management system in Uzbekistan is of great importance today. Also, the decision of the President of the Republic of Uzbekistan №PQ-2731 of January 18, 2017 "On the State Program for the Development of the Aral Bay Region in 2017-2021", No. PF-4947 of February 7, 2017 "On the Action Strategy for Further Development of the Republic of Uzbekistan" and The ideas in the article are useful to a certain extent in the implementation of the tasks defined in the decree No. PF-5134 of August 4, 2017 "On measures to fundamentally improve the activities of the Ministry of Agriculture and Water Management of the Republic of Uzbekistan"

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