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An application of dynamic games with complete and perfect information to central asian water conflict resolution

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Abstract

This paper uses dynamic games with complete and perfect information in solution of water conflict in Central Asia. The benefits and costs of the countries for their actions are modelled as payoffs for decision-makers within the frame of game theory concept. The equilibrium increasing the expected benefits, supporting rational use of water resources, contributing to preservation of political stability and environmental protection is identified. Confirmation of expediency of cooperation among countries of the region in long-term management of water resources is the main purpose of the paper.

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