## Assessment of climate change impacts on earthdamreservoirsinVietnam

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## **ABSTRACT**

Climate changes have impacted to many sectors including water resources in Vietnam. Vietnam is agricultural development country having more than 6,000 earth dam reservoirs. These reservoirs play a very important role in flow regulation for water supply to economic sectors. In the context of undesirable impacts of climate change such as increasing temparature, evaporation, and changing rainfall and rainfall pattern, water demands and inflow to reservoirs also are being influenced. This leads to changes of resevoir exploitation effects that needs to be assessed for adaptation solutions. This article summarizes evaluations on climate change impacts to 16 reservoirs in 4 regions of North-West, North-East, Central Part, and Central Highland of Vietnam. Research results showed that in the context of climate change, safety of these reservoirs will be decreased from 8% to 20% in both water supply and flood control capacity.

Key words: Climate change, reservoir, safety

## Acknowledgment

This work was supported by a grant from the Ministry of Agriculture and Rural Development of Vietnam