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Climate changes caused by the floods, non centralized drinking water supply and evaluation of water hygienic quality in the certain region of Georgia

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The world lives in the disaster epoch caused by global warming processes. Climate change in different regions of the planet is caused by unprecedented floods cascade. Georgia is no exception in this regard. This was induced by non centralized water supply, and increased risk of contamination of drinking water. We examined Small-scale water supply systems, sanitary - hygienic conditions and drinking water quality at the certain of the region, Dusheti and Marneuli in Georgia.

Sanitary-hygienic and sanitary-technical condition of individual wells, natural springs and low power rural water-supply systems of these regions was not satisfactory. Mineralization, fluorine content is mainly equal to 0 or is very low and it is found in spring water in Dusheti. Drinking water in Marneuli region is characterized by satisfactory and optimal mineralization, fluorine content is not foxed in many sample. According to microbiological indicators, it is mainly noted high microbe contamination of well and spring water. The water quality of non-centralized water supply systems does not provide population with supply of epidemiologically safe drinking water.

Thus global warming caused by climate change in Georgia may induce flooding, which in turn increases the risk of a decentralized drinking water (wells, springs), pollution and the spread of infectious diseases.