

## **Introduction**

Water is a necessity in Georgian's daily lives. Georgians constantly use water for things like cooking, cleaning, drinking, bathing, and industrial use. In fact, Georgians use an average of 50 gallons a day, without clean water they may not be able to proceed with their day-to-day routines. Droughts are when an area doesn't receive rainfall for a long time. Droughts in Georgia would be a big problem because a decrease in water would cause the focus of trash to increase. A Flood is when an area gets an overwhelming amount of water. Floods could cause problems with clean water by picking up everything in the streets and bringing them down to the catch basin.

## **How do floods affect clean water?**

Too much collection of roadside litter can cause a lot of flooding in Georgia. The litter could block the catch basin which would compel the water to rise. When the runoff from a flood goes into a stream, river, or lake, it causes the cleaning process to continue longer than usual. If water from a flood were to sink down into a groundwater aquifer it also might cause the cleaning process to be longer, and a lot of people local to the area heavily rely on that water source.

Climate change can cause floods indirectly. Warmer oceans can cause a spike in the amount of water that evaporates into the atmosphere which causes heavy precipitation. In order to recover quickly from the effects of climate change, Georgia can create a professional water filter that could be sold in stores in case of an emergency and build houses to be higher on the ground to control the damage.

## **How do droughts affect clean water?**

Droughts cause an area to have no rain for a period of time. Therefore, causing that area to rely on other sources of water. Lengthy droughts can cause groundwater aquifers to decline, negatively affecting the people who depend on that water source. Droughts would cause less water which in the end could cause a focus on the trash.

Climate change is increasing the temperature of the world. As a result, more droughts have occurred. In order for families to recover from a drought quickly, they will have to do little things to save water. If Georgia families were already using a little water then a drought wouldn't affect them as much, for example, you could turn the water off when brushing your teeth, scraping your dishes before you wash them or put them in the dishwasher, and drink all the water that you take from the tap just to conserve water.

## **Conclusion**

Water is needed for Georgians' everyday routines while floods and droughts make it hard to have access to clean water. Floods can affect the clean water in Georgia by making the water dirty thus, causing the cleaning process to become longer than normal. When droughts occur it can increase the amount of trash, and Fat, oil, and grease in the water source.

## Works Used

“Climate Change | US EPA.” *EPA*, <https://www.epa.gov/climate-change>. Accessed 4 October 2022.

“Conserve Our Water – My Drop Counts.” *My Drop Counts*, <https://mydropcounts.org/consERVE-our-water/>. Accessed 4 October 2022.

“Health Implications of Drought | CDC.” *Centers for Disease Control and Prevention*, <https://www.cdc.gov/nceh/drought/implications.htm>. Accessed 4 October 2022.

Hersher, Rebecca. “How climate change drives floods.” *NPR*, 3 August 2022, <https://www.npr.org/2022/08/03/1115384628/how-climate-change-drives-inland-floods>. Accessed 4 October 2022.

“Live Exploration: Georgia's Water.” *Georgia Public Broadcasting*, <https://www.gpb.org/education/liveexplorations/water#support-materials>. Accessed 4 October 2022.

“Water Conservation in and Around Your Home.” *H2ouse*, <https://www.h2ouse.org/water-conservation/>. Accessed 4 October 2022.