

Abstract :

The shortage of the water resource in Algeria inevitably' requires the recourse to the reuse of the water used in agriculture. However, this water can contain various pollution, in particular heavy metals.

Some of these elements generate rather frightening incidences on the environment and even on the health of the alive beings.

Their movements and their mobility are closely related to the physical and physicochemical characteristics of the environment.

This work rests on an experimental study of the influence of the physicochemical characteristics of a ground irrigated, on the behavior of **cadmium**, as well as the impact of this metal on the development and the growth of **tomato**.

Key words: heavy metals; cadmium; development; growth .