



Study on the Environmental Impacts of Human Induced Soil Erosion Processes on Vegetable Cultivation Lands in Upper Uma Oya Catchment Area.

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Abstract

Soil erosion is a major threat for all around the world. Soil erosion occurs due to natural causes and human induced activities. This soil erosion creates many problems due to these causes. This research focuses on the environmental impacts of human induced soil erosion processes on vegetable cultivation lands in Upper Uma Oya Catchment Area (UUOCA). The main objective of this research is to identify the human activities related to the vegetable cultivation taking place in Upper Uma Oya Catchment, identify environmental issues arising due to soil erosion and identify the current use of soil conservation methods in this catchment area. As well as we focus about the water supply methods for vegetable cultivation, environmental causes due to soil conservation in UUOCA. And also, we have identified what are the soil erosion causes and what are the soil conservation methods that available for vegetable cultivation lands in UUOCA. In this area soil erosion is a major problem due to vegetable cultivation. There are many causes for soil erosion in this area. They are lack of awareness regarding the soil conservation methods, use of chemical fertilizers and pesticides and use of technical instruments for their cultivation activities are some major causes for soil erosion in vegetable lands in UUOCA. In this research data collection was guided by field observation and guided and informal interviews. Also study area were created using QGIS software. The study found that there is a soil erosion in vegetable cultivation lands in this area due to the human activities. Therefore, this study stressed that needs of soil conservation measures to be implemented for long term protection of soil.

Keywords: Soil erosion, Vegetable cultivation, Human activities, Soil conservation, Upper Uma Oya Catchment Area (UUOCA)

