



A study about micro-climate changes in the Medadumbara Divisional Secretariat Division after the construct of Victoria Reservoir.

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Abstract

Climate has been changing throughout history, and there has been a steady evolution in climate conditions. But in the past, most of these changes took place as part of natural processes, over which humanity didn't have any control or say, even now such changes continue to take place. However, what is worrying about the entire world today is the climate change that is taking place as a result of human intervention of a different kind of development. The reservoirs constructed under the development project have been subjected to subtle changes in the climate of the surrounding areas. The main objective of this research is, to investigate the effects of Micro-Climate Change (MCC) due to the construction of the Victoria Reservoir (VR). For this study, fifty families were elected from the left bank of the VR, Medadumbara DSD. Primary and secondary data were used for this study. Primary data was collected through questionnaires, interviews, and direct observation, while corporate reports, research dissertations, and meteorological data were used as secondary data. The results were represented with maps, graphs, and tables. According to the analysis, after the construction of the VR, MCC was detected. The spatial and temporal patterns of rainfall, temperature, and humidity were changes due to VR and it has helped to change the land use pattern as well of this area. Therefore, the state institutions should pay attention to minimize the issues due to MCC in the surrounding area of VR.

Keywords: micro-climate changes, Victoria reservoir, development project

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