Climatic Parameters: Determinants of Rice Production in Chitwan, Nepal

Tirtha R Panthi and Resham B Thapa

[1] Nepal Climate Change Support Program, Nepal
[2] Tribhuvan University, Nepal

Abstract

Farmers' survey was conducted to assess the climatic parameters as determinants of rice production in Chitwan, Nepal. For this purpose, 90 households, 30 each from western (Gunjanagar and Patihani VDCs), middle (Gitanagar VDC and Ratnanagar Municipality), and eastern (Bhandara and Piple VDCs) parts of Chitwan were randomly selected and interviewed to gather necessary information using semi-structured questionnaires. Secondary information using from different sources were also collected, and both primary and secondary information were entered in MS Excel and analyzed using SPSS 16.0 software to assess the climatic parameters on the main season rice production in Chitwan. Study revealed that annual increment of temperature was 0.02^0C, while the rainfall was erratic though there was no decline in total rainfall in Chitwan. Farmers' experiences in rice production indicated that each additional value of rainfall (x) increased rice production (y) while each additional value of temperature (x) decreased rice production (y) under Chitwan condition of Nepal.

Key words—*Climate, Rainfall, Relative humidity, Rice production, Temperature*

Professional Biography

Tirtha Raj Panthi has completed Bachelor of Science in Agriculture from Tribhuvan University, Nepal and Master of Science in Environment Management from Pokhara University, Nepal. He has been serving as Regional Climate Change Coordinator at Nepal Climate Change Support Program, Executed by Government of Nepal/Ministry of Forest and Environment, and technically supported by United Nations Development Program (UNDP). He has published one paper in Journal of Environment Science, a reputable journal of Nepal and one project book at Multi-Dimensional Resource Centre, Nepal, a National NGO of Nepal.



Email Id: trpanthi5@gmail.com

Any Comments: None