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Perceptions of Climate Change and Adaptation of Climate-Smart Technology by the Paddy Farmers: A Case Study of Kandy District in Sri Lanka

Authors: W. A. D. P. Wanigasundera, P. C. B. Alahakoon

Abstract: Kandy district in Sri Lanka has small scale and rain-fed paddy farming, and highly vulnerable to climate change. In this study, the status of climate change was assessed using meteorological data and compared with the perceptions of paddy farming community. Factors affecting the adaptation to the climate smart farming were also assessed. Meteorological data for 33 years were collected and the changes over time compared with the perceptions of farmers. The temperature, rainfall and number of rainy days have increased in both locations. The onset of rains also has shifted. The perceptions of the majority of the farmers were in line with the actual changes. The knowledge and attitudes about the causes of climate change and adaptation were medium and related to level of adoption. Formulating effective communication strategies, and a collaborative approach involving state, private sector, civil society to make Sri Lankan agriculture 'climate-smart' is urgently needed.

Keywords: adaptation of climate-smart technology, climate change, perception, rain-fed paddy

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