

Considering Climate Change in Food Security: A Sociological Study Investigating the Modern Agricultural Practices and Food Security in Bangladesh

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Abstract : Despite being a food-sufficient country after revolutionary changes in agricultural inputs, Bangladesh still has food insecurity and undernutrition. This study examines the association between agricultural practices (as social practices) and food security concentrating on the potential impact of sociodemographic factors and climate change. Using data from the 2012 Bangladesh Integrated Household Survey (BIHS), this study shows how modified agricultural practices are strongly associated with climate change and different sociodemographic factors (land ownership, religion, gender, education, and occupation) subsequently affect the status of food security in Bangladesh. We used linear and logistic regression models to analyze the association between modified agricultural practices and food security. The findings indicate that socioeconomic statuses are significant predictors of determining agricultural practices in a society like Bangladesh and control food security at the household level. Moreover, climate change is adversely impacting even the modified agricultural and food security association version. We conclude that agricultural practices must consider climate change while boosting food security. Therefore, future research should integrate climate change into the agriculture and food-related mitigation and resiliency models.

Keywords : food security, agricultural productivity, climate change, bangladesh

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