

Impact of Flooding on Food Calorie Intake and Health Outcomes among Small Holder Farm Households in Koton Karfe Local Government Area of Kogi State, Nigeria

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Abstract : The research examined the impact of flooding on food calorie intake and health challenges among smallholder farm households in Koton Karfe Local Government Area of Kogi State, Nigeria. Purposive and random sampling techniques were used to select 130 farm households in selected villages in the area. Primary data were generated through the administration of a well-structured questionnaire. Data were analyzed with descriptive statistics, Double Difference Estimator (DDE), Calorie Intake Estimation Function, t-test, and multiple regressions. The result shows that farm households lost an average of 132, 950kg of selected crops amounting to about N20m (\$56, 542) loose in income. Food daily calorie intake indicates a loss of an average of 715.18Kcal, showing a significant difference in calorie intake before and after flooding ($t = 2.0629$) at 5% probability. Furthermore, the health challenges most prevalent during flooding were malaria fever, typhoid fever, cholera, and dysentery. The determinants of daily calorie intake were age, household size, level of income, flooding, health challenges, and food price. The study concluded that flooding had negative impacts on crop output and income, daily food calorie intact, and health challenges of a farm household in the study area. It was recommended that the State Government should make adequate and proper arrangements to relocate residents of the area at the warning of possible flooding by the National Metrological Centre and should, through the State Emergency Management Agency (SEMA), provide relieve items to the residents to cushion the effects of the flooding.

Keywords : calorie, cholera, flooding, health challenges, impact

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