From Consumption to Context: Assessing Poverty and Inequality across Diverse Socio-Ecological Systems in Ghana

Supplemental Information

SI Table 1

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Variable | Region | | | | | | | | | |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| **Education** |  |  |  |  |  |  |  |  |  |  |
| Head of household's highest level of education is middle school | 1 |  |  |  |  |  |  |  |  |  |
| Head of household's highest level of education is post secondary education | 1 |  | 1 | 1 | 1 |  |  |  |  |  |
| Proportion of household that is illiterate |  | 1 |  | 1 | 1 | 1 |  | 1 | 1 | 1 |
| Proportion of household that has a middle school education |  |  | 1 | 1 | 1 | 1 | 1 |  | 1 | 1 |
| Proportion of household that has post secondary education |  |  |  |  |  |  |  | 1 |  |  |
| Proportion of household that has primary education | 1 | 1 |  |  |  |  | 1 | 1 |  |  |
| Proportion of household that has secondary education |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Employment** |  |  |  |  |  |  |  |  |  |  |
| Household produces agriculture | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Any working age member of household works in agriculture |  |  |  |  |  |  |  | 1 |  |  |
| Any working age member of household works in wholesale | 1 |  |  |  |  |  |  |  |  |  |
| Head of household's occupation is agriculture work |  |  |  |  |  |  |  |  | 1 |  |
| Head of household's occupation is in craft related trades |  |  |  | 1 |  |  |  |  |  |  |
| Head of household's occupation is managerial |  |  | 1 |  |  |  |  |  |  |  |
| Head of household is unemployed |  |  |  |  |  | 1 |  |  |  |  |
| Proportion of any members of the household is in primary sector |  |  |  |  |  |  |  | 1 |  |  |
| Proportion of working age members of the household is in secondary sector |  |  |  |  | 1 | 1 | 1 |  | 1 | 1 |
| Proportion of working age members of the household is in tertiary sector |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Housing** |  |  |  |  |  |  |  |  |  |  |
| Number of bedrooms |  |  |  | 1 |  |  |  | 1 |  |  |
| Household uses charcoal for cooking fuel |  |  | 1 |  |  | 1 |  |  |  |  |
| Household uses gas for cooking fuel | 1 | 1 | 1 | 1 | 1 | 1 | 1 |  |  |  |
| Household uses wood for cooking fuel |  |  |  |  |  |  |  |  | 1 |  |
| District level proportion of dwellings that are separate houses |  |  |  |  |  | 1 |  |  |  |  |
| Urban district |  | 1 |  |  |  |  |  |  |  |  |
| Dwelling is a compound house |  |  |  |  |  |  |  |  |  | 1 |
| Dwelling is a huts or buildings on the same compound |  |  |  |  |  |  |  | 1 |  |  |
| Dwelling is a semi detached house |  |  |  |  |  |  |  |  | 1 |  |
| Dwelling is a separate house |  |  |  |  |  |  | 1 |  |  |  |
| Floor is earth/mud |  | 1 |  |  |  |  |  | 1 |  |  |
| Household lighting powered by mains electricity |  |  |  | 1 |  |  | 1 | 1 | 1 | 1 |
| Household lighting is flashlight/torch |  |  | 1 |  |  |  |  |  |  | 1 |
| Household lighting is kerosene lamp |  |  |  |  | 1 |  |  |  |  |  |
| Household roof is metal sheet |  |  |  |  | 1 | 1 |  |  |  | 1 |
| Household roof is thatch/palm leaf/raffia |  |  |  |  |  |  | 1 |  |  |  |
| Number of rooms | 1 | 1 | 1 |  | 1 | 1 | 1 | 1 | 1 | 1 |
| Household rubbish is burned | 1 |  | 1 |  |  |  |  |  |  |  |
| Household rubbish is collected |  |  | 1 |  |  |  |  | 1 | 1 |  |
| Household rubbish is dumped indiscriminately | 1 |  |  | 1 |  |  |  | 1 |  |  |
| Household rubbish is disposed at public dump |  |  | 1 |  |  |  |  |  |  | 1 |
| Household rents |  |  | 1 |  |  |  |  |  |  |  |
| Household uses KVIP as toilet |  | 1 |  |  |  | 1 |  |  |  |  |
| Household has no facilities/ and uses bush/beach/field | 1 |  | 1 | 1 | 1 |  | 1 | 1 |  | 1 |
| Household uses pit latrine as toilet |  |  |  | 1 |  |  |  |  | 1 |  |
| Household uses public toilet/wc/kvip/pit latrine |  |  |  |  |  |  |  | 1 |  |  |
| Household uses wc | 1 |  |  |  |  |  |  |  |  |  |
| Urban household | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Household uses cement blocks/concrete for wall material | 1 |  |  |  |  |  |  | 1 | 1 |  |
| Household uses bore hole/pump tube/ well for drinking water |  | 1 |  |  |  |  | 1 |  | 1 | 1 |
| Household uses inside pipeborne water for drinking water |  |  | 1 | 1 | 1 |  |  |  |  |  |
| Household uses satchet water for drinking water | 1 |  |  |  | 1 |  | 1 |  |  |  |
| Household uses bore hole/pump tube/ well for general water | 1 |  |  |  |  |  |  |  |  |  |
| Household uses inside pipeborne water for general water |  |  |  |  |  | 1 |  |  |  |  |
| Household uses public tap/ standpipe for general water |  | 1 |  |  |  |  |  |  |  |  |
| Household uses unprotected well for general water |  |  |  |  |  |  |  | 1 |  |  |
| **Socio-Demographic** |  |  |  |  |  |  |  |  |  |  |
| Average age of household | 1 | 1 | 1 | 1 |  | 1 |  | 1 | 1 |  |
| Average age in district |  | 1 |  |  | 1 |  |  |  | 1 |  |
| Average age of head of household in district | 1 | 1 |  |  |  |  |  |  |  |  |
| Proportion of head of households with traditional religion in district |  |  |  |  |  |  |  | 1 |  |  |
| Proportion of males in district |  |  |  | 1 |  |  |  |  |  |  |
| Proportion of married people in district |  |  |  | 1 |  |  |  |  |  |  |
| Dependency ratio | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Female head of household | 1 |  |  | 1 | 1 | 1 | 1 |  | 1 | 1 |
| Head of household age |  |  |  |  |  | 1 |  |  |  |  |
| Head of household born in Ashanti Region |  |  |  |  |  | 1 |  |  |  |  |
| Head of household born in Eastern Region |  |  | 1 |  |  |  |  |  |  |  |
| Head of household's ethnicity is Dangme |  |  |  |  | 1 |  |  |  |  |  |
| Head of household's ethnicity is Ewe |  |  |  | 1 |  |  |  |  |  |  |
| Head of household's ethnicity is Nankansi |  |  |  |  |  |  |  |  | 1 |  |
| Head of household's ethnicity is Sisala |  |  |  |  |  |  |  |  |  | 1 |
| Head of household has no religion |  |  |  |  |  | 1 |  |  |  |  |
| Head of household has other religion |  |  |  |  |  | 1 |  |  |  |  |
| Number of native born Ghanaians | 1 | 1 | 1 |  | 1 | 1 | 1 | 1 | 1 | 1 |
| Number of native born Ghanaians who were born in enumerated EA |  |  |  | 1 |  |  |  |  |  |  |
| Proportion of males in household |  | 1 |  |  |  |  |  | 1 |  |  |
| Proportion of married people in household | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

Table presents variables used in the sae model for each region.

SI Figure 1: Built up areas only

A picture containing text, screenshot

Description automatically generated

Box plots show the median and interquartile range of EA-level rates of improved well-being measures for households by consumption decile and SES type in built-up areas. Average rates of improved status (*)* for each row describe the overall rate of improvement for that SES type. Percentages for each cell show the average improvement rate across consumption deciles for that SES type. Consumption deciles are represented from lowest to highest, represented by shaded and tinted hues, respectively*.*