

Household survey data set: all: 777 households
Income < 10000 deleted: 717 households
(1 household with income=15476750 was deleted)

Results of linear regression

$$Y_{ij} = \alpha_i + \varepsilon_{ij} \quad \begin{array}{l} i=1,\dots,25 \text{ (k= 25 villages and respective sectors in Nouna town)} \\ j=1,\dots, i_j \text{ (ca. } i_j = 20\text{-}58 \text{ households)} \end{array}$$

$$\rho = \frac{ms_b - ms_w}{ms_b + (m_0 - 1)ms_w}$$

ρ = intra class correlation coefficient

R^{*2} = reliability coefficient

m_0 = mean cluster size (here $m_0 = 31$ = mean number of households per village)

ms_b and ms_w = mean square errors between and within cluster from standard ANOVA

	Y-Variable	data set	R^{*2}	ρ
1	Income	< 10000 delete	0.09	0.066
2	Income	All	0.09	0.06
3	Log (10) [income]	< 10000 delete	0.09	0.069
4	Log (10) [income+1]	All	0.07	0.04
5	Income/household size	< 10000 delete	0.09	0.066
6	Log (10) [income+1]/household size	All	0.05	0.022
7	Total number of people in HH reporting at least fair health /household size	All	0.05	0.0186
8	Total household expenditure on drugs	all , only: 290 HH	0.08	-0.0075
9	Log(10)[Drugs+1]	all , only: 290 HH	0.13	0.054
10	Log (10) [Income+1]/household size	rural: 453 HH	0.03	-0.0068
	Stratified rural/urban	all urban: 287 HH	0.04	0.017
mean				0.036
median				0.04