

Appendix:

Appendix 1: Weighting system for socioeconomic score by primary component analysis.

Measurement of Socioeconomic Status (Variables)	Mean	Standard Deviation	Factor Score (Weigh)	SES Score (Factor Score*100)	More-than-one Options
Household Infrastructure					
Number of bedrooms	2.321	0.94	0.124	12.415	
Number of windows	2.551	2.278	0.252	25.16	
Number of doors	1.722	0.47	0.14	14.034	
House covered with ceiling	0.041	0.199	0.143	14.285	
House with crack openings	0.881	0.324	-0.133	-13.253	
House equipped with mosquito net	0.917	0.275	0.066	6.596	

House light supplied by electricity source	0.812	0.391	0.113	11.293
House light supplied by flame source	0.127	0.333	-0.087	-8.663
House with no light or supplied by other source	0.091	0.287	-0.071	-7.093
Wall material is brick	0.109	0.311	0.215	21.486
Wall material is sticks and/or plaster	0.305	0.46	0.077	7.66
Wall material is mud or other	0.587	0.492	-0.207	-20.733
Roof material is metal and/or tile	0.539	0.498	0.253	25.314
Roof material is plant piece (grass, leaves, branches) or other	0.461	0.498	-0.253	-25.314

Floor material is tile	0.005	0.068	0.08	7.96
Floor material is cement	0.296	0.457	0.288	28.834
Floor material is mat	0.001	0.031	-0.01	-1.005
Floor material is soil or other	0.698	0.459	-0.298	-29.791
Private flush toilet	0.083	0.218	0.191	19.057
Shared flush toilet	0.825	0.115	0.075	7.539
Private pit latrine	0.014	0.38	-0.132	-13.249
Shared pit latrine	0.05	0.276	0.019	1.94
Bush or the toilet	0.028	0.166	-0.031	-3.126
Water supplied by private well/pump/pipe	0.014	0.118	0.1	9.976

Water supplied by public tank/well/pump/pipe/sellings	0.817	0.387	0.055	5.48
Water supplied by river/stream	0.17	0.375	-0.088	-8.781

Ownership and Property

Keep animal in household	0.559	0.496	-0.057	-5.651
Car transportation	0.004	0.063	0.058	5.797 *
Motor transportation (motor bicycle, motor tricycle)	0.16	0.367	0.103	10.348 *
Manual labor transportation (bicycle, boat, canoe)	0.452	0.498	0.044	4.445 *
Animal labor transportation	0.011	0.102	0.064	6.401 *
No transportation method or other method	0.453	0.498	-0.087	-8.659 *
Own radio	0.385	0.487	0.122	12.159 *
Own mobile phone	0.882	0.322	0.107	10.73 *
Own electric fan	0.02	0.139	0.14	14.049 *
Own TV	0.11	0.312	0.256	25.575 *

Own electric iron	0.022	0.147	0.177	17.66	*
Own refrigerator	0.016	0.126	0.158	15.76	*
Own satellite signal receiver	0.062	0.241	0.224	22.393	*
Own other valuable item	0.002	0.047	0.026	2.566	*
Own no valuable item	0.09	0.286	-0.113	-11.284	*
Own the house	0.126	0.332	0.077	7.659	

Social Potential

Earn income by industries or commercial (skilled labor, driver, salary, business, pension)	0.174	0.379	0.167	16.689	*
Earn income by agriculture (fishing, farming, livestock keeping)	0.829	0.377	-0.129	-12.939	*
Earn income by other method or casual labor	0.025	0.156	0.012	1.213	*
No income or receive donation	0.035	0.183	-0.012	-1.153	*
Household highest education is university degree or higher	0.006	0.075	0.07	6.957	*
Household highest education is secondary school to diploma	0.217	0.412	0.109	10.94	*

Household highest education is primary school	0.679	0.467	-0.084	-8.4 *
Household highest education is no education	0.098	0.298	-0.037	-3.727 *
Hold insurance	0.108	0.31	0.114	11.427 *

***:Participant has more-than-one options among the category.**

Proportion of variance: 12.56%.

Eigenvalue: 6.404