

Table S1 Non-collinear variables used in hierarchical agglomerative cluster analysis

Variables		Elevation of village	Cultivated area	Pasturing period	Off-farm income
Elevation of village	Pearson Correlation	1.00	0.096	0.011	-0.047
	Sig. (2-tailed) ¹		0.144	0.867	0.477
	N	233	233	233	233
Cultivated area	Pearson Correlation	0.096	1.00	-0.017	-0.024
	Sig. (2-tailed)	0.144		0.799	0.721
	N	233	233	233	233
Grazing period	Pearson Correlation	0.011	-0.017	1.00	0.051
	Sig. (2-tailed)	0.867	0.799		0.435
	N	233	233	233	233
Off-farm income	Pearson Correlation	-0.047	-0.024	0.051	1.00
	Sig. (2-tailed)	0.477	0.721	0.435	
	N	233	233	233	233

¹The Sig. (2-Tailed) values are >0.05 indicating no statistically significant correlations among variables.

Table S2 Independent samples test

	Levene's Test for Equality of Variances		t-test for Equality of Means		Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
	F	Sig.	t	df				Lower	Upper
Elevation of village	6.50	0.01	-18.53	231	0.00	-1.552	0.084	-1.717	-1.387
			-18.65	225.7	0.00	-1.552	0.083	-1.716	-1.388
Cultivated area	25.93	0.00	-2.706	231	0.00	-0.352	0.13	-0.608	-0.096
			-2.966	153.57	0.00	-0.352	0.119	-0.586	-0.117
Grazing period	7.71	0.01	6.124	231	0.00	0.75	0.123	0.509	0.992
			6.512	200.7	0.00	0.75	0.115	0.523	0.977
Off-farm income	6.94	0.01	2.049	231	0.042	0.268	0.131	0.01	0.526
			1.958	167.0	0.052	0.268	0.137	-0.002	0.539