Economic Clustering Summary Report: Niger 2012

Data Summary

Country Code-year: NI12

Number of observations: 10505

Number of variables used: 20

Variable set used: 1

Variables used in the algorithm: hv206, hv207, hv208, hv210, hv211, hv227, hv237, hv243a, hv243b, hv243c, hv244, hv246, sh110d, sh110m, water, toilet, floor, roof, cookfuel, wall

Top 10 Variable Sets (Sorted by ASW)

Set	ASW	Var.1	Var.2	Var.3	Var.4
1	0.9532	Has electricity	Has television	Anything done to water to make safe to drink	VCR/DVD
2	0.9425	Has electricity	Has television	VCR/DVD	Plow
3	0.9403	Has electricity	Has television	Has mobile telephone	VCR/DVD
4	0.9313	Has electricity	Has television	Has mosquito bed net for sleeping	VCR/DVD
5	0.9276	Has electricity	Has television	Has animal-drawn cart	VCR/DVD
6	0.9193	Has electricity	Has television	Anything done to water to make safe to drink	wall
7	0.9179	Has television	Anything done to water to make safe to drink	VCR/DVD	floor
8	0.9178	Has electricity	Has television	Owns land usable for agriculture	VCR/DVD
9	0.9176	Has electricity	Has television	Has motorcycle/scooter	VCR/DVD
10	0.9174	Has electricity	Has television	Has bicycle	VCR/DVD

Marginal Distributions

Variable	Description	% in Top Sets	Distribution
hv206	Has electricity	90%	Binary, 22.6% (1/yes)
hv208	Has television	100%	Binary, 18.6% (1/yes)
hv237	Anything done to water to make safe to drink	30%	Binary, 13.9% (1/yes)
sh110d	VCR/DVD	90%	Binary, 14% (1/yes)
hv243a	Has mobile telephone	10%	Binary, 55.3% (1/yes)
hv227	Has mosquito bed net for sleeping	10%	Binary, 73.5% (1/yes)
hv243c	Has animal-drawn cart	10%	Binary, 18.5% (1/yes)
hv244	Owns land usable for agriculture	10%	Binary, 72% (1/yes)
hv211	Has motorcycle/scooter	10%	Binary, 14.5% (1/yes)
hv210	Has bicycle	10%	Binary, 11% (1/yes)
sh110m	Plow	10%	Binary, 9.6% (1/yes)
wall	wall	10%	Categorical, 0 (finished) = 12.1%, 1 (natural) = 85.8%, 2 (other) = 1.6%, 3 (rudimentary) = 0.5%
floor	floor	10%	Categorical, 0 (finished) = 25%, 1 (natural) = 74.1%, 2 (other) = 0.3%, 3 (rudimentary) = 0.6%

Cluster Configuration (Set #1)

Cluster Group	Has electricity	Has television	Anything done to water to make safe to drink	VCR/DVD	Proportion (%)
1	1	1	0	0	5.11
1	1	1	1	0	
2	0	0	1	0	13.33
2	0	0	1	1	
2	0	1	1	0	
2	1	0	1	0	
3	1	0	0	0	4.91
4	0	1	0	1	13.17
4	0	1	1	1	
4	1	0	0	1	
4	1	0	1	1	
4	1	1	0	1	
4	1	1	1	1	
5	0	0	0	0	63.47
5	0	0	0	1	
5	0	1	0	0	

Validation Tables

a.1) Using Children Deceased (Sorted by proportion of 0%)

Cluster ID/Children Deceased	0%	1-33%	34-66%	67+%
4*	1,522 (85.1%)	204 (11.4%)	48 (2.7%)	14 (0.8%)
1	524 (79.8%)	99 (15.1%)	26 (4.0%)	8 (1.2%)
3	357 (69.9%)	109 (21.3%)	42 (8.2%)	3 (0.6%)
5	3,897 (59.9%)	1,721 (26.5%)	751 (11.6%)	133 (2.0%)
2	781 (53.2%)	456 (31.0%)	207 (14.1%)	25 (1.7%)
Total	7,081 (64.8%)	2,589 (23.7%)	1,074 (9.8%)	183 (1.7%)

*The chi-squared p-value is 0

a.2) Aggregating proportions greater than 0%

Cluster ID/Children Deceased	0%	>0%
4*	1,522 (85.1%)	266 (14.9%)
1	524 (79.8%)	133 (20.2%)
3	357 (69.9%)	154 (30.1%)
5	3,897 (59.9%)	2,605 (40.1%)
2	781 (53.2%)	688 (46.8%)
Total	7,081 (64.8%)	3,846 (35.2%)

*The chi-squared p-value is 0

b) Using Individual Education Level Attained (Sorted by weighted average by row)

Cluster ID/Education	0	1	2	3	4	5	9	W. Avg.
4[*][a]	619 (34.6%)	341 (19.1%)	50 (2.8%)	641 (35.9%)	37 (2.1%)	93 (5.2%)	7 (0.4%)	1.70
1	264 (40.2%)	144 (21.9%)	27 (4.1%)	192 (29.2%)	9 (1.4%)	19 (2.9%)	2 (0.3%)	1.40
3	368 (72.0%)	56 (11.0%)	18 (3.5%)	66 (12.9%)	0 (0.0%)	0 (0.0%)	3 (0.6%)	0.62
5	5,657 (87.0%)	502 (7.7%)	100 (1.5%)	233 (3.6%)	0 (0.0%)	3 (0.0%)	7 (0.1%)	0.23
2	1,266 (86.2%)	140 (9.5%)	18 (1.2%)	42 (2.9%)	1 (0.1%)	0 (0.0%)	2 (0.1%)	0.22
Total	8,174 (74.8%)	1,183 (10.8%)	213 (1.9%)	1,174 (10.7%)	47 (0.4%)	115 (1.1%)	21 (0.2%)	0.54

[*]The chi-squared p-value is 0

[a]0=none, 1=incomplete primary, 2=primary, 3=incomplete secondary, 4=secondary, 5=higher

c) Using Primary Healthcare Source (Sorted by % enrolled in public healthcare [ascending order])

Cluster ID/Primary Healthcare Source	0	1	2
2[*][a]	77 (55.4%)	42 (30.2%)	20 (14.4%)
5	357 (58.5%)	151 (24.8%)	102 (16.7%)
1	96 (73.3%)	29 (22.1%)	6 (4.6%)
4	286 (75.1%)	75 (19.7%)	20 (5.2%)
3	49 (77.8%)	13 (20.6%)	1 (1.6%)
Total	865 (65.3%)	310 (23.4%)	149 (11.3%)

[*]The chi-squared p-value is 0

[a]0=public/government, 1=private, 2=other