Economic Clustering Summary Report: Uganda 2016

Data Summary

Country Code-year: UG16

Number of observations: 19519

Number of variables used: 29

Variable set used: 1

Variables used in the algorithm: hv206, hv207, hv208, hv210, hv211, hv225, hv227, hv237, hv243a, hv243b, hv244, hv246, hv247, sh120a, sh121g, sh121h, sh121i, sh121j, sh121k, sh121l, sh121m, sh125, sh144b, water, toilet, floor, roof, cookfuel, wall

Top 10 Variable Sets (Sorted by ASW)

Set	ASW	Var.1	Var.2	Var.3	Var.4
1	0.9252	has electricity	has television	has cassette/cd/dvd player	has bed
2	0.9247	has television	has cassette/cd/dvd player	has bed	dwelling sprayed in the past 6 months
3	0.9231	has electricity	has television	has cassette/cd/dvd player	dwelling sprayed in the past 6 months
4	0.9217	has electricity	has television	has mobile telephone	has cassette/cd/dvd player
5	0.9125	has television	has cassette/cd/dvd player	floor	roof
6	0.9107	has television	has mobile telephone	has bank account	has cassette/cd/dvd player
7	0.9081	has electricity	has television	has cassette/cd/dvd player	roof
8	0.9073	has electricity	has television	has bed	dwelling sprayed in the past 6 months
9	0.9068	has television	has cassette/cd/dvd player	has sofa set	has bed
10	0.9057	has electricity	has cassette/cd/dvd player	has bed	dwelling sprayed in the past 6 months

Marginal Distributions

Variable	Description	% in Top Sets	Distribution
hv206	has electricity	60%	Binary, 26.2% (1/yes)
hv208	has television	90%	Binary, 14.7% (1/yes)
sh121g	has cassette/cd/dvd player	90%	Binary, 10.7% (1/yes)
hv243a	has mobile telephone	20%	Binary, 72% (1/yes)
sh121k	has bed	50%	Binary, 79.7% (1/yes)
floor	floor	10%	Categorical, 0 (37) = 0.1%, 1 (finished) = 33.3%, 2 (natural) = 65.8%, 3 (other) = 0.2%, 4 (rudimentary) = 0.6%
hv247	has bank account	10%	Binary, 46.5% (1/yes)
sh121j	has sofa set	10%	Binary, 23.4% (1/yes)
sh125	dwelling sprayed in the past 6 months	40%	Binary, 10.1% (1/yes)
roof	roof	20%	Categorical, 0 (finished) = 67.3%, 1 (natural) = 31.9%, 2 (other) = 0.1%, 3 (rudimentary) = 0.7%

Cluster Configuration (Set #1)

Cluster Group	has electricity	has television	has cassette/cd/dvd player	has bed	Proportion (%)
1	1	1	0	0	5.09
1	1	1	0	1	
2	0	1	1	0	9.80
2	0	1	1	1	
2	1	0	1	0	
2	1	0	1	1	
2	1	1	1	0	
2	1	1	1	1	
3	0	0	0	1	54.57
3	0	0	1	1	
3	0	1	0	1	
4	1	0	0	1	10.55
5	0	0	0	0	19.99
5	0	0	1	0	
5	0	1	0	0	
5	1	0	0	0	

Validation Tables

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

Cluster ID/Children Deceased	0%	1-33%	34-66%	67+%
2*	1,929 (89.3%)	174 (8.1%)	36 (1.7%)	20 (0.9%)
1	944 (87.8%)	103 (9.6%)	22 (2.0%)	6 (0.6%)
4	1,537 (80.1%)	302 (15.7%)	63 (3.3%)	18 (0.9%)
3	7,699 (75.9%)	1,915 (18.9%)	442 (4.4%)	91 (0.9%)
5	2,288 (72.7%)	677 (21.5%)	150 (4.8%)	33 (1.0%)
Total	14,397 (78.0%)	3,171 (17.2%)	713 (3.9%)	168 (0.9%)

*The chi-squared p-value is 0

a.2) Aggregating proportions greater than 0%

Cluster ID/Children Deceased	0%	>0%
2*	1,929 (89.3%)	230 (10.7%)
1	944 (87.8%)	131 (12.2%)
4	1,537 (80.1%)	383 (19.9%)
3	7,699 (75.9%)	2,448 (24.1%)
5	2,288 (72.7%)	860 (27.3%)
Total	14,397 (78.0%)	4,052 (22.0%)

*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	W. Avg.
2[*][a]	44 (2.0%)	423 (19.6%)	232 (10.7%)	791 (36.6%)	119 (5.5%)	550 (25.5%)	3.00
1	32 (3.0%)	232 (21.6%)	134 (12.5%)	400 (37.2%)	56 (5.2%)	221 (20.6%)	2.82
4	142 (7.4%)	778 (40.5%)	281 (14.6%)	522 (27.2%)	21 (1.1%)	176 (9.2%)	2.02
3	1,049 (10.3%)	5,377 (53.0%)	1,445 (14.2%)	1,903 (18.8%)	50 (0.5%)	323 (3.2%)	1.56
5	803 (25.5%)	1,728 (54.9%)	240 (7.6%)	320 (10.2%)	7 (0.2%)	50 (1.6%)	1.09
Total	2,070 (11.2%)	8,538 (46.3%)	2,332 (12.6%)	3,936 (21.3%)	253 (1.4%)	1,320 (7.2%)	1.77

[*]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]	259 (39.8%)	385 (59.1%)	7 (1.1%)
1	128 (40.1%)	189 (59.2%)	2 (0.6%)
4	336 (59.9%)	215 (38.3%)	10 (1.8%)
3	1,792 (66.7%)	873 (32.5%)	22 (0.8%)
5	403 (70.7%)	162 (28.4%)	5 (0.9%)
Total	2,918 (60.9%)	1,824 (38.1%)	46 (1.0%)

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

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