Economic Clustering Summary Report: Democratic Republic of the Congo 2013-14

Data Summary

Country Code-year: CD13

Number of observations: 18171

Number of variables used: 19

Variable set used: 1

Variables used in the algorithm: hv206, hv207, hv208, hv210, hv227, hv243a, hv243b, hv244, hv246, sh110h, sh110i, sh110j, sh110l, water, toilet, floor, roof, cookfuel, wall

Top 10 Variable Sets (Sorted by ASW)

Set	ASW	Var.1	Var.2	Var.3	Var.4
1	0.9058	has electricity	has television	has mobile telephone	has chair
2	0.8894	has electricity	has television	has bed	roof
3	0.8855	has electricity	has television	has bicycle	has mobile telephone
4	0.8828	has electricity	has television	floor	roof
5	0.8817	has electricity	has television	has mobile telephone	roof
6	0.8813	has electricity	has television	has mobile telephone	has lights
7	0.88	has electricity	has television	has chair	roof
8	0.8792	has electricity	has television	has chair	floor
9	0.8789	has electricity	has television	has watch	has chair
10	0.8788	has electricity	has television	has mosquito bed net for sleeping	has mobile telephone

Marginal Distributions

Variable	Description	% in Top Sets	Distribution
hv206	has electricity	100%	Binary, 10.8% (1/yes)
hv208	has television	100%	Binary, 12% (1/yes)
hv243a	has mobile telephone	50%	Binary, 34.4% (1/yes)
sh110i	has bed	10%	Binary, 75.6% (1/yes)
hv210	has bicycle	10%	Binary, 25.5% (1/yes)
floor	floor	20%	Categorical, 0 (finished) = 14.3%, 1 (natural) = 85.1%, 2 (other) = 0.2%, 3 (rudimentary) = 0.4%
sh110h	has chair	40%	Binary, 73.1% (1/yes)
hv243b	has watch	10%	Binary, 29.7% (1/yes)
hv227	has mosquito bed net for sleeping	10%	Binary, 69.9% (1/yes)
roof	roof	40%	Categorical, 0 (finished) = 29.9%, 1 (natural) = 69.5%, 2 (other) = 0.1%, 3 (rudimentary) = 0.5%
sh110j	has lights	10%	Binary, 58.6% (1/yes)

Cluster Configuration (Set #1)

Cluster Group	has electricity	has television	has mobile telephone	has chair	Proportion (%)
1	0	0	1	0	3.32
1	0	1	1	0	
1	1	0	1	0	
1	NA	0	1	0	
2	0	1	1	1	12.80
2	1	0	1	1	
2	1	1	0	0	
2	1	1	0	1	
2	1	1	1	0	
2	1	1	1	1	
2	1	1	1	NA	
3	0	0	1	1	18.49
3	0	0	1	NA	
3	0	NA	1	1	
3	NA	0	1	1	
4	0	0	0	0	23.39
4	0	0	NA	0	
4	0	1	0	0	
4	1	0	0	0	
4	NA	0	0	0	
5	0	0	0	1	42.00
5	0	0	0	NA	
5	0	0	NA	1	
5	0	1	0	1	

Cluster Group	has electricity	has television	has mobile telephone	has chair	Proportion (%)
5	0	NA	0	1	
5	1	0	0	1	
5	NA	0	0	1	
5	NA	NA	0	NA	

Validation Tables

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

Cluster ID/Children Deceased	0%	1-33%	34-66%	67+%
2[*]	2,944 (86.0%)	351 (10.3%)	93 (2.7%)	34 (1.0%)
3	2,899 (75.1%)	670 (17.4%)	233 (6.0%)	59 (1.5%)
1	438 (73.1%)	104 (17.4%)	45 (7.5%)	12 (2.0%)
5	5,362 (72.0%)	1,383 (18.6%)	556 (7.5%)	148 (2.0%)
4	2,503 (71.6%)	612 (17.5%)	298 (8.5%)	83 (2.4%)
Total	14,146 (75.1%)	3,120 (16.6%)	1,225 (6.5%)	336 (1.8%)

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

a.2) Aggregating proportions greater than 0%

Cluster ID/Children Deceased	0%	>0%
2[*]	2,944 (86.0%)	478 (14.0%)
3	2,899 (75.1%)	962 (24.9%)
1	438 (73.1%)	161 (26.9%)
5	5,362 (72.0%)	2,087 (28.0%)
4	2,503 (71.6%)	993 (28.4%)
Total	14,146 (75.1%)	4,681 (24.9%)

[*]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]	53 (1.5%)	261 (7.6%)	150 (4.4%)	1,725 (50.4%)	768 (22.4%)	465 (13.6%)	3.25
3	364 (9.4%)	1,004 (26.0%)	386 (10.0%)	1,702 (44.1%)	328 (8.5%)	77 (2.0%)	2.22
1	100 (16.7%)	203 (33.9%)	54 (9.0%)	204 (34.1%)	30 (5.0%)	8 (1.3%)	1.81
5	1,650 (22.2%)	2,810 (37.7%)	784 (10.5%)	1,987 (26.7%)	208 (2.8%)	10 (0.1%)	1.51
4	1,190 (34.0%)	1,380 (39.5%)	288 (8.2%)	593 (17.0%)	44 (1.3%)	1 (0.0%)	1.12
Total	3,357 (17.8%)	5,658 (30.1%)	1,662 (8.8%)	6,211 (33.0%)	1,378 (7.3%)	561 (3.0%)	1.91

[*]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]	108 (23.4%)	349 (75.7%)	4 (0.9%)
3	119 (36.3%)	207 (63.1%)	2 (0.6%)
1	17 (37.0%)	29 (63.0%)	0 (0.0%)
5	107 (37.8%)	175 (61.8%)	1 (0.4%)
4	39 (37.9%)	62 (60.2%)	2 (1.9%)
Total	390 (31.9%)	822 (67.3%)	9 (0.7%)

[*]The chi-squared p-value is 2e-04

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