Economic Clustering Summary Report: Ivory Coast 2011

Data Summary

Country Code-year: CI11

Number of observations: 9677

Number of variables used: 23

Variable set used: 1

Variables used in the algorithm: hv206, hv207, hv208, hv209, hv210, hv211, hv227, hv237, hv243a, hv243b, hv244, hv246, hv247, sh110h, sh110j, sh110k, 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	0.8964	has television	has mobile telephone	owns cable subscription	owns cd/dvd player
2	0.8956	has television	owns cable subscription	owns cd/dvd player	floor
3	0.8948	has television	has refrigerator	has mobile telephone	owns cd/dvd player
4	0.8939	has television	has refrigerator	owns cd/dvd player	floor
5	0.8894	has television	has mobile telephone	owns stove or burner	owns cd/dvd player
6	0.8889	has television	owns stove or burner	owns cd/dvd player	floor
7	0.8787	has electricity	has television	owns cable subscription	floor
8	0.8786	has television	has mobile telephone	owns cable subscription	owns stove or burner
9	0.876	has television	owns cable subscription	owns stove or burner	floor
10	0.875	has electricity	has refrigerator	owns cable subscription	floor

Marginal Distributions

Variable	Description	% in Top Sets	Distribution
hv208	has television	90%	Binary, 40.1% (1/yes)
hv206	has electricity	20%	Binary, 53.5% (1/yes)
hv243a	has mobile telephone	40%	Binary, 79.3% (1/yes)
sh110h	owns cable subscription	60%	Binary, 11.4% (1/yes)
hv209	has refrigerator	30%	Binary, 10.5% (1/yes)
sh110j	owns stove or burner	40%	Binary, 10.4% (1/yes)
sh110l	owns cd/dvd player	60%	Binary, 24.1% (1/yes)
floor	floor	60%	Categorical, 0 (finished) = 77.2%, 1 (natural) = 22.5%, 2 (other) = 0.2%, 3 (rudimentary) = 0.1%

Cluster Configuration (Set #1)

Cluster Group	has television	has mobile telephone	owns cable subscription	owns cd/dvd player	Proportion (%)
1	0	1	0	0	40.77
1	0	1	0	1	
1	0	1	0	NA	
1	0	1	1	0	
1	0	NA	0	0	
1	NA	1	0	0	
2	1	0	0	1	14.93
2	1	1	0	1	
2	1	1	0	NA	
2	1	1	NA	1	
3	0	1	1	1	8.62
3	1	0	1	1	
3	1	1	1	1	
3	1	NA	1	1	
4	0	0	0	0	19.13
4	0	0	0	1	
4	0	0	NA	0	
5	1	0	0	0	16.55
5	1	0	1	0	
5	1	1	0	0	
5	1	1	1	0	
5	1	1	NA	0	
5	1	NA	0	0	

Validation Tables

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

Cluster ID/Children Deceased	0%	1-33%	34-66%	67+%
3*	1,031 (89.0%)	83 (7.2%)	32 (2.8%)	13 (1.1%)
2	1,403 (81.8%)	191 (11.1%)	95 (5.5%)	27 (1.6%)
5	1,504 (79.7%)	263 (13.9%)	94 (5.0%)	26 (1.4%)
1	2,850 (71.0%)	757 (18.9%)	337 (8.4%)	71 (1.8%)
4	825 (64.7%)	283 (22.2%)	136 (10.7%)	32 (2.5%)
Total	7,613 (75.7%)	1,577 (15.7%)	694 (6.9%)	169 (1.7%)

*The chi-squared p-value is 0

a.2) Aggregating proportions greater than 0%

Cluster ID/Children Deceased	0%	>0%
3*	1,031 (89.0%)	128 (11.0%)
2	1,403 (81.8%)	313 (18.2%)
5	1,504 (79.7%)	383 (20.3%)
1	2,850 (71.0%)	1,165 (29.0%)
4	825 (64.7%)	451 (35.3%)
Total	7,613 (75.7%)	2,440 (24.3%)

*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.
3*[a]	385 (33.2%)	161 (13.9%)	123 (10.6%)	309 (26.7%)	75 (6.5%)	106 (9.1%)	1.87
2	730 (42.5%)	299 (17.4%)	177 (10.3%)	394 (23.0%)	63 (3.7%)	53 (3.1%)	1.37
5	965 (51.1%)	272 (14.4%)	167 (8.9%)	367 (19.4%)	70 (3.7%)	46 (2.4%)	1.17
1	2,664 (66.4%)	628 (15.6%)	293 (7.3%)	367 (9.1%)	39 (1.0%)	24 (0.6%)	0.65
4	996 (78.1%)	175 (13.7%)	50 (3.9%)	51 (4.0%)	4 (0.3%)	0 (0.0%)	0.35
Total	5,740 (57.1%)	1,535 (15.3%)	810 (8.1%)	1,488 (14.8%)	251 (2.5%)	229 (2.3%)	0.97

*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]	65 (23.7%)	183 (66.8%)	26 (9.5%)
1	117 (26.5%)	256 (57.9%)	69 (15.6%)
3	56 (28.6%)	126 (64.3%)	14 (7.1%)
5	84 (29.2%)	176 (61.1%)	28 (9.7%)
4	18 (30.0%)	30 (50.0%)	12 (20.0%)
Total	340 (27.0%)	771 (61.2%)	149 (11.8%)

*The chi-squared p-value is 1e-04

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