Economic Clustering Summary Report: Benin 2017

Data Summary

Country Code-year: BJ17

Number of observations: 14028

Number of variables used: 18

Variable set used: 1

Variables used in the algorithm: hv206, hv207, hv208, hv210, hv211, hv243a, hv243b, hv244, hv246, hv247, sh121j, sh123a, water, toilet, floor, roof, cookfuel, wall

Top 10 Variable Sets (Sorted by ASW)

Set	ASW	Var.1	Var.2	Var.3	Var.4
1	0.8996	has television	has mobile telephone	vcd/dvd player	roof
2	0.8922	has television	has mobile telephone	has bank account	vcd/dvd player
3	0.8882	has mobile telephone	has bank account	vcd/dvd player	roof
4	0.8857	has television	has mobile telephone	vcd/dvd player	credit union
5	0.8841	has mobile telephone	has bank account	credit union	roof
6	0.8829	has mobile telephone	vcd/dvd player	credit union	roof
7	0.8806	has mobile telephone	has watch	has bank account	roof
8	0.8797	has mobile telephone	has watch	vcd/dvd player	roof
9	0.8795	has television	has mobile telephone	credit union	roof
10	0.8787	has television	vcd/dvd player	floor	roof

Marginal Distributions

Variable	Description	% in Top Sets	Distribution
hv208	has television	50%	Binary, 29.4% (1/yes)
hv243a	has mobile telephone	90%	Binary, 83.9% (1/yes)
hv247	has bank account	40%	Binary, 14.3% (1/yes)
sh121j	vcd/dvd player	70%	Binary, 21.9% (1/yes)
hv243b	has watch	20%	Binary, 29.4% (1/yes)
sh123a	credit union	40%	Binary, 12.1% (1/yes)
floor	floor	10%	Categorical, 0 (finished) = 68.4%, 1 (natural) = 30.3%, 2 (other) = 0.2%, 3 (rudimentary) = 1.1%
roof	roof	80%	Categorical, 0 (finished) = 91.6%, 1 (natural) = 5.9%, 2 (other) = 1.1%, 3 (rudimentary) = 1.4%

Cluster Configuration (Set #1)

Cluster Group	has television	has mobile telephone	vcd/dvd player	roof	Proportion (%)
1	0	1	0	natural	3.71
1	0	1	1	natural	
2	0	1	0	finished	51.42
2	0	1	0	other	
2	0	1	0	rudimentary	
2	0	1	1	finished	
2	0	1	1	rudimentary	
3	1	1	0	finished	8.25
3	1	1	0	natural	
3	1	1	0	other	
3	1	1	0	rudimentary	
4	0	0	0	finished	15.76
4	0	0	0	natural	
4	0	0	0	other	
4	0	0	0	rudimentary	
4	0	0	1	finished	
4	1	0	0	finished	
5	1	0	1	finished	20.85
5	1	0	1	other	
5	1	1	1	finished	
5	1	1	1	natural	
5	1	1	1	other	
5	1	1	1	rudimentary	

Validation Tables

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

Cluster ID/Children Deceased	0%	1-33%	34-66%	67+%
3*	1,249 (86.3%)	148 (10.2%)	43 (3.0%)	8 (0.6%)
5	3,149 (85.9%)	348 (9.5%)	139 (3.8%)	30 (0.8%)
2	6,411 (76.4%)	1,460 (17.4%)	457 (5.4%)	64 (0.8%)
1	397 (72.2%)	101 (18.4%)	47 (8.5%)	5 (0.9%)
4	1,248 (70.8%)	368 (20.9%)	125 (7.1%)	22 (1.2%)
Total	12,454 (78.7%)	2,425 (15.3%)	811 (5.1%)	129 (0.8%)

*The chi-squared p-value is 0

a.2) Aggregating proportions greater than 0%

Cluster ID/Children Deceased	0%	>0%
3*	1,249 (86.3%)	199 (13.7%)
5	3,149 (85.9%)	517 (14.1%)
2	6,411 (76.4%)	1,981 (23.6%)
1	397 (72.2%)	153 (27.8%)
4	1,248 (70.8%)	515 (29.2%)
Total	12,454 (78.7%)	3,365 (21.3%)

*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.
5[*][a]	1,195 (32.6%)	731 (19.9%)	90 (2.5%)	1,351 (36.9%)	66 (1.8%)	233 (6.4%)	1.74
3	575 (39.7%)	299 (20.6%)	28 (1.9%)	463 (32.0%)	15 (1.0%)	68 (4.7%)	1.48
2	5,178 (61.7%)	1,494 (17.8%)	115 (1.4%)	1,522 (18.1%)	25 (0.3%)	58 (0.7%)	0.80
4	1,306 (74.1%)	264 (15.0%)	10 (0.6%)	180 (10.2%)	3 (0.2%)	0 (0.0%)	0.47
1	447 (81.3%)	56 (10.2%)	8 (1.5%)	39 (7.1%)	0 (0.0%)	0 (0.0%)	0.34
Total	8,701 (55.0%)	2,844 (18.0%)	251 (1.6%)	3,555 (22.5%)	109 (0.7%)	359 (2.3%)	1.03

[*]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
3[*][a]	99 (50.5%)	77 (39.3%)	20 (10.2%)
5	272 (51.1%)	217 (40.8%)	43 (8.1%)
2	612 (66.5%)	207 (22.5%)	101 (11.0%)
1	41 (82.0%)	7 (14.0%)	2 (4.0%)
4	122 (83.6%)	16 (11.0%)	8 (5.5%)
Total	1,146 (62.1%)	524 (28.4%)	174 (9.4%)

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

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