

Economic Clustering Summary Report: Mali 2018

Data Summary

Country Code-year: ML18

Number of observations: 9494

Number of variables used: 24

Variable set used: 1

Variables used in the algorithm: hv206, hv207, hv208, hv209, hv210, hv211, hv227, hv237, hv243a, hv243c, hv244, hv246, hv247, sh121g, sh121h, sh121k, sh121m, sh122g, water, toilet, floor, roof, cookfuel, wall

Top 10 Variable Sets (Sorted by ASW)

Set	ASW	Var.1	Var.2	Var.3	Var.4
1	0.9215	has refrigerator	has mosquito bed net for sleeping	has mobile telephone	wardrobe / bookcase
2	0.9015	has television	has refrigerator	has mosquito bed net for sleeping	has mobile telephone
3	0.9013	has refrigerator	has mosquito bed net for sleeping	has mobile telephone	internet
4	0.9009	has mosquito bed net for sleeping	has mobile telephone	has bank account	internet
5	0.8979	has mosquito bed net for sleeping	has mobile telephone	has bank account	wardrobe / bookcase
6	0.8961	has mosquito bed net for sleeping	has mobile telephone	wardrobe / bookcase	internet
7	0.8959	has electricity	has television	has refrigerator	has mosquito bed net for sleeping
8	0.8944	has refrigerator	has mosquito bed net for sleeping	has mobile telephone	has bank account
9	0.8939	has television	has refrigerator	has mobile telephone	wardrobe / bookcase
10	0.8938	has electricity	has refrigerator	has mosquito bed net for sleeping	has mobile telephone

Marginal Distributions

Variable	Description	% in Top Sets	Distribution
hv209	has refrigerator	70%	Binary, 12% (1/yes)
hv208	has television	30%	Binary, 42.3% (1/yes)
hv227	has mosquito bed net for sleeping	90%	Binary, 86% (1/yes)
hv206	has electricity	20%	Binary, 47.1% (1/yes)
hv243a	has mobile telephone	90%	Binary, 85.5% (1/yes)
hv247	has bank account	30%	Binary, 14% (1/yes)
sh121h	wardrobe / bookcase	40%	Binary, 21.4% (1/yes)
sh121m	internet	30%	Binary, 17% (1/yes)

Cluster Configuration (Set #1)

Cluster Group	has refrigerator	has mosquito bed net for sleeping	has mobile telephone	wardrobe / bookcase	Proportion (%)
1 0	1	1	0	57.14	
1 1	1	1	0		
2 0	0	0	0	14.00	
2 0	1	0	0		
2 1	0	0	0		
2 1	1	0	0		
3 0	0	1	0	7.48	
3 1	0	1	0		
4 1	0	0	1	8.48	
4 1	0	1	1		
4 1	1	0	1		
4 1	1	1	1		
5 0	0	0	1	12.90	
5 0	0	1	1		
5 0	1	0	1		
5 0	1	1	1		

Validation Tables

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

Cluster ID/Children Deceased	0%	1-33%	34-66%	67+%
4*	1,115 (90.9%)	80 (6.5%)	22 (1.8%)	10 (0.8%)
3	578 (85.1%)	65 (9.6%)	28 (4.1%)	8 (1.2%)
5	1,249 (81.3%)	196 (12.8%)	75 (4.9%)	17 (1.1%)
2	800 (78.9%)	149 (14.7%)	54 (5.3%)	11 (1.1%)
1	4,249 (70.2%)	1,308 (21.6%)	418 (6.9%)	77 (1.3%)
Total	7,991 (76.0%)	1,798 (17.1%)	597 (5.7%)	123 (1.2%)

*The chi-squared p-value is 0

a.2) Aggregating proportions greater than 0%

Cluster ID/Children Deceased	0%	>0%
4*	1,115 (90.9%)	112 (9.1%)
3	578 (85.1%)	101 (14.9%)
5	1,249 (81.3%)	288 (18.7%)
2	800 (78.9%)	214 (21.1%)
1	4,249 (70.2%)	1,803 (29.8%)
Total	7,991 (76.0%)	2,518 (24.0%)

*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	5	W. Avg.
4 ^a	360 (29.3%)	105 (8.6%)	55 (4.5%)	569 (46.4%)	138 (11.2%)	2.13
5	766 (49.8%)	156 (10.1%)	87 (5.7%)	492 (32.0%)	36 (2.3%)	1.29
1	4,415 (73.0%)	592 (9.8%)	223 (3.7%)	800 (13.2%)	22 (0.4%)	0.59
3	522 (76.9%)	58 (8.5%)	18 (2.7%)	75 (11.0%)	6 (0.9%)	0.51
2	898 (88.6%)	62 (6.1%)	14 (1.4%)	38 (3.7%)	2 (0.2%)	0.21
Total	6,961 (66.2%)	973 (9.3%)	397 (3.8%)	1,974 (18.8%)	204 (1.9%)	0.83

*The chi-squared p-value is 0

^a0=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
4 ^a	159 (67.4%)	74 (31.4%)	3 (1.3%)
5	215 (72.1%)	82 (27.5%)	1 (0.3%)
1	630 (78.0%)	175 (21.7%)	3 (0.4%)
3	42 (80.8%)	10 (19.2%)	0 (0.0%)
2	43 (81.1%)	10 (18.9%)	0 (0.0%)
Total	1,089 (75.3%)	351 (24.3%)	7 (0.5%)

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

^a0=public/government, 1=private, 2=other