

Economic Clustering Summary Report: Madagascar 2021

Data Summary

Country Code-year: MD21

Number of observations: 20494

Number of variables used: 22

Variable set used: 1

Variables used in the algorithm: hv201a, hv206, hv207, hv208, hv210, hv227, hv237, hv243a, hv243b, hv244, hv246, sh121g, sh121h, sh121i, sh121j, sh121m, water, toilet, floor, roof, cookfuel, wall

Top 10 Variable Sets (Sorted by ASW)

Set	ASW	Var.1	Var.2	Var.3	Var.4
1	0.9118	has electricity	has television	has a bed	has a dvd / divx player
2	0.9111	has television	has a bed	has a chair	has a dvd / divx player
3	0.8864	has electricity	has television	has a table	has a dvd / divx player
4	0.8863	has television	has a bed	has a table	has a dvd / divx player
5	0.8818	has television	has a table	has a chair	has a dvd / divx player
6	0.8797	has electricity	has television	has a bed	has a chair
7	0.8783	has electricity	has a bed	has a chair	has a dvd / divx player
8	0.8756	has a bed	has a table	has a chair	has a dvd / divx player
9	0.8734	has electricity	has television	has a chair	has a dvd / divx player
10	0.8727	has a bed	has a table	has a chair	has a sofa

Marginal Distributions

Variable	Description	% in Top Sets	Distribution
hv206	has electricity	50%	Binary, 33.2% (1/yes)
hv208	has television	70%	Binary, 21.4% (1/yes)
sh121g	has a bed	70%	Binary, 77% (1/yes)
sh121h	has a table	50%	Binary, 65% (1/yes)
sh121i	has a chair	70%	Binary, 55.4% (1/yes)
sh121m	has a dvd / divx player	80%	Binary, 14.7% (1/yes)
sh121j	has a sofa	10%	Binary, 18.9% (1/yes)

Cluster Configuration (Set #1)

Cluster Group	has electricity	has television	has a bed	has a dvd / divx player	Proportion (%)
1	1	1	0	0	7.88
1	1	1	1	0	
2	0	0	0	0	22.84
2	0	0	0	1	
2	0	1	0	0	
2	1	0	0	0	
3	0	1	1	1	13.77
3	1	0	0	1	
3	1	0	1	1	
3	1	1	0	1	
3	1	1	1	1	
4	1	0	1	0	11.43
5	0	0	1	0	44.09
5	0	0	1	1	
5	0	1	1	0	

Validation Tables

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

Cluster ID/Children Deceased	0%	1-33%	34-66%	67+%
1*	1,492 (90.8%)	109 (6.6%)	33 (2.0%)	9 (0.5%)
3	2,807 (90.7%)	207 (6.7%)	63 (2.0%)	17 (0.5%)
4	1,836 (87.7%)	187 (8.9%)	53 (2.5%)	17 (0.8%)
5	6,875 (84.0%)	916 (11.2%)	315 (3.8%)	76 (0.9%)
2	2,994 (77.8%)	624 (16.2%)	178 (4.6%)	50 (1.3%)
Total	16,004 (84.9%)	2,043 (10.8%)	642 (3.4%)	169 (0.9%)

*The chi-squared p-value is 0

a.2) Aggregating proportions greater than 0%

Cluster ID/Children Deceased	0%	>0%
1*	1,492 (90.8%)	151 (9.2%)
3	2,807 (90.7%)	287 (9.3%)
4	1,836 (87.7%)	257 (12.3%)
5	6,875 (84.0%)	1,307 (16.0%)
2	2,994 (77.8%)	852 (22.2%)
Total	16,004 (84.9%)	2,854 (15.1%)

*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.
1 ^a	45 (2.7%)	232 (14.1%)	125 (7.6%)	836 (50.9%)	168 (10.2%)	237 (14.4%)	2.95
3	119 (3.8%)	487 (15.7%)	201 (6.5%)	1,587 (51.3%)	330 (10.7%)	370 (12.0%)	2.85
4	197 (9.4%)	619 (29.6%)	195 (9.3%)	880 (42.0%)	105 (5.0%)	97 (4.6%)	2.18
5	1,585 (19.4%)	3,344 (40.9%)	777 (9.5%)	2,291 (28.0%)	137 (1.7%)	48 (0.6%)	1.53
2	1,483 (38.6%)	1,678 (43.6%)	212 (5.5%)	446 (11.6%)	17 (0.4%)	10 (0.3%)	0.93
Total	3,429 (18.2%)	6,360 (33.7%)	1,510 (8.0%)	6,040 (32.0%)	757 (4.0%)	762 (4.0%)	1.82

^aThe 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
3 ^a	577 (61.3%)	347 (36.8%)	18 (1.9%)
1	321 (64.7%)	170 (34.3%)	5 (1.0%)
4	569 (76.8%)	164 (22.1%)	8 (1.1%)
5	2,508 (85.9%)	392 (13.4%)	18 (0.6%)
2	988 (89.6%)	114 (10.3%)	1 (0.1%)
Total	4,963 (80.0%)	1,187 (19.1%)	50 (0.8%)

*The chi-squared p-value is 0

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