

Economic Clustering Summary Report: Nigeria 2018

Data Summary

Country Code-year: NG18

Number of observations: 40403

Number of variables used: 25

Variable set used: 1

Variables used in the algorithm: hv206, hv207, hv208, hv209, hv210, hv211, hv227, hv243a, hv243b, hv244, hv246, hv247, sh121g, sh121h, sh121j, sh121k, sh121m, sh121n, sh121o, water, toilet, floor, roof, cookfuel, wall

Top 10 Variable Sets (Sorted by ASW)

Set	ASW	Var.1	Var.2	Var.3	Var.4
1	0.8879	has refrigerator	has mobile telephone	has electric iron	has fan
2	0.887	has refrigerator	has mobile telephone	has fan	roof
3	0.8765	has television	has refrigerator	has mobile telephone	roof
4	0.869	has television	has refrigerator	has mobile telephone	has electric iron
5	0.8684	has electricity	has refrigerator	has mobile telephone	has electric iron
6	0.8666	has mobile telephone	has electric iron	has fan	roof
7	0.8608	has electricity	has refrigerator	has mobile telephone	has fan
8	0.8606	has refrigerator	has mobile telephone	has chair	has fan
9	0.8578	has refrigerator	has chair	has electric iron	has fan
10	0.8556	has mobile telephone	has generator	has fan	roof

Marginal Distributions

Variable	Description	% in Top Sets	Distribution
hv209	has refrigerator	80%	Binary, 20.3% (1/yes)
hv208	has television	20%	Binary, 47% (1/yes)
hv206	has electricity	20%	Binary, 55.3% (1/yes)
hv243a	has mobile telephone	90%	Binary, 87% (1/yes)
sh121m	has electric iron	50%	Binary, 30.1% (1/yes)
sh121h	has chair	20%	Binary, 80.2% (1/yes)
sh121n	has generator	10%	Binary, 27.7% (1/yes)
sh121o	has fan	70%	Binary, 49% (1/yes)
roof	roof	40%	Categorical, 0 (finished) = 87.9%, 1 (natural) = 9.8%, 2 (other) = 0.4%, 3 (rudimentary) = 2%

Cluster Configuration (Set #1)

Cluster Group	has refrigerator	has mobile telephone	has electric iron	has fan	Proportion (%)
1	0	0	1	1	12.10
1	0	1	1	1	
2	0	0	0	0	11.71
2	0	0	1	0	
2	1	0	0	0	
3	0	0	0	1	17.39
3	0	1	0	1	
4	1	0	0	1	19.80
4	1	0	1	0	
4	1	0	1	1	
4	1	1	0	1	
4	1	1	1	0	
4	1	1	1	1	
5	0	1	0	0	39.01
5	0	1	1	0	
5	1	1	0	0	

Validation Tables

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

Cluster ID/Children Deceased	0%	1-33%	34-66%	67+%
4*	7,999 (87.1%)	872 (9.5%)	256 (2.8%)	55 (0.6%)
1	4,020 (83.3%)	570 (11.8%)	188 (3.9%)	49 (1.0%)
3	5,509 (80.7%)	922 (13.5%)	322 (4.7%)	73 (1.1%)
5	12,045 (70.0%)	3,367 (19.6%)	1,504 (8.7%)	285 (1.7%)
2	2,442 (64.8%)	797 (21.2%)	441 (11.7%)	86 (2.3%)
Total	32,015 (76.6%)	6,528 (15.6%)	2,711 (6.5%)	548 (1.3%)

*The chi-squared p-value is 0

a.2) Aggregating proportions greater than 0%

Cluster ID/Children Deceased	0%	>0%
4*	7,999 (87.1%)	1,183 (12.9%)
1	4,020 (83.3%)	807 (16.7%)
3	5,509 (80.7%)	1,317 (19.3%)
5	12,045 (70.0%)	5,156 (30.0%)
2	2,442 (64.8%)	1,324 (35.2%)
Total	32,015 (76.6%)	9,787 (23.4%)

*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.
4 ^a	741 (8.1%)	171 (1.9%)	693 (7.5%)	1,592 (17.3%)	3,299 (35.9%)	2,686 (29.3%)	3.59
1	678 (14.0%)	131 (2.7%)	527 (10.9%)	1,030 (21.3%)	1,817 (37.6%)	644 (13.3%)	3.06
3	1,588 (23.3%)	313 (4.6%)	937 (13.7%)	1,581 (23.2%)	1,909 (28.0%)	498 (7.3%)	2.50
5	8,856 (51.5%)	1,057 (6.1%)	1,949 (11.3%)	2,647 (15.4%)	2,208 (12.8%)	484 (2.8%)	1.40
2	2,535 (67.3%)	233 (6.2%)	367 (9.7%)	393 (10.4%)	213 (5.7%)	25 (0.7%)	0.83
Total	14,398 (34.4%)	1,905 (4.6%)	4,473 (10.7%)	7,243 (17.3%)	9,446 (22.6%)	4,337 (10.4%)	2.20

*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	638 (49.5%)	643 (49.8%)	9 (0.7%)
1	338 (52.7%)	298 (46.5%)	5 (0.8%)
3	388 (54.5%)	319 (44.8%)	5 (0.7%)
5	690 (62.2%)	418 (37.7%)	2 (0.2%)
2	104 (62.3%)	62 (37.1%)	1 (0.6%)
Total	2,158 (55.1%)	1,740 (44.4%)	22 (0.6%)

*The chi-squared p-value is 0

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