Economic Clustering Summary Report: Sierra Leone 2019

Data Summary

Country Code-year: SL19

Number of observations: 13141

Number of variables used: 18

Variable set used: 1

Variables used in the algorithm: hv206, hv207, hv208, hv209, hv211, hv227, hv237, hv243a, hv243b, hv244, hv246, hv247, water, toilet, floor, roof, cookfuel, wall

Top 10 Variable Sets (Sorted by ASW)

Set	ASW	Var.1	Var.2	Var.3	Var.4
1	0.9363	has electricity	has television	has refrigerator	has mobile telephone
2	0.9315	has electricity	has television	has refrigerator	floor
3	0.9303	has electricity	has refrigerator	has motorcycle/scooter	has mobile telephone
4	0.9238	has television	has refrigerator	has motorcycle/scooter	has mobile telephone
5	0.9115	has electricity	has television	has refrigerator	has motorcycle/scooter
6	0.9101	has electricity	has television	has motorcycle/scooter	has mobile telephone
7	0.907	has electricity	has refrigerator	floor	roof
8	0.9069	has television	has refrigerator	floor	roof
9	0.9062	has electricity	has television	has refrigerator	owns land usable for agriculture
10	0.8964	has electricity	has refrigerator	has mobile telephone	cookfuel

Marginal Distributions

Variable	Description	% in Top Sets	Distribution
hv206	has electricity	80%	Binary, 17.8% (1/yes)
hv208	has television	70%	Binary, 16.1% (1/yes)
hv209	has refrigerator	90%	Binary, 9.3% (1/yes)
hv211	has motorcycle/scooter	40%	Binary, 10.6% (1/yes)
floor	floor	30%	Categorical, 0 (finished) = 50.9%, 1 (natural) = 48.9%, 2 (other) = 0.1%, 3 (rudimentary) = 0.1%
hv243a	has mobile telephone	50%	Binary, 70.4% (1/yes)
roof	roof	20%	Categorical, 0 (finished) = 87.6%, 1 (natural) = 8.9%, 2 (other) = 0%, 3 (rudimentary) = 3.4%
hv244	owns land usable for agriculture	10%	Binary, 58.7% (1/yes)
cookfuel	cookfuel	10%	Binary, Mode: wood

Cluster Configuration (Set #1)

Cluster Group	has electricity	has television	has refrigerator	has mobile telephone	Proportion (%)
1	1	0	0	1	2.98
2	1	1	0	0	6.16
2	1	1	0	1	
3	0	1	1	0	8.99
3	0	1	1	1	
3	1	0	1	0	
3	1	0	1	1	
3	1	1	1	0	
3	1	1	1	1	
4	0	0	0	0	29.38
4	0	0	1	0	
4	0	1	0	0	
4	1	0	0	0	
5	0	0	0	1	52.49
5	0	0	1	1	
5	0	1	0	1	

Validation Tables

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

Cluster ID/Children Deceased	0%	1-33%	34-66%	67+%
3*	1,578 (89.2%)	117 (6.6%)	55 (3.1%)	20 (1.1%)
2	854 (88.6%)	58 (6.0%)	38 (3.9%)	14 (1.5%)
1	347 (83.2%)	46 (11.0%)	19 (4.6%)	5 (1.2%)
5	6,571 (75.6%)	1,294 (14.9%)	649 (7.5%)	175 (2.0%)
4	2,364 (69.2%)	650 (19.0%)	320 (9.4%)	83 (2.4%)
Total	11,714 (76.8%)	2,165 (14.2%)	1,081 (7.1%)	297 (1.9%)

*The chi-squared p-value is 0

a.2) Aggregating proportions greater than 0%

Cluster ID/Children Deceased	0%	>0%
3*	1,578 (89.2%)	192 (10.8%)
2	854 (88.6%)	110 (11.4%)
1	347 (83.2%)	70 (16.8%)
5	6,571 (75.6%)	2,118 (24.4%)
4	2,364 (69.2%)	1,053 (30.8%)
Total	11,714 (76.8%)	3,543 (23.2%)

*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]	314 (17.7%)	88 (5.0%)	37 (2.1%)	818 (46.2%)	219 (12.4%)	294 (16.6%)	2.80
2	251 (26.0%)	66 (6.8%)	35 (3.6%)	420 (43.6%)	104 (10.8%)	88 (9.1%)	2.34
1	142 (34.1%)	31 (7.4%)	14 (3.4%)	170 (40.8%)	40 (9.6%)	20 (4.8%)	1.99
5	4,363 (50.2%)	896 (10.3%)	312 (3.6%)	2,610 (30.0%)	358 (4.1%)	150 (1.7%)	1.33
4	2,368 (69.3%)	395 (11.6%)	132 (3.9%)	492 (14.4%)	24 (0.7%)	6 (0.2%)	0.66
Total	7,438 (48.8%)	1,476 (9.7%)	530 (3.5%)	4,510 (29.6%)	745 (4.9%)	558 (3.7%)	1.43

*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]	300 (67.0%)	146 (32.6%)	2 (0.4%)
2	183 (68.3%)	85 (31.7%)	0 (0.0%)
1	87 (75.0%)	29 (25.0%)	0 (0.0%)
5	1,779 (83.6%)	345 (16.2%)	5 (0.2%)
4	532 (91.6%)	45 (7.7%)	4 (0.7%)
Total	2,881 (81.3%)	650 (18.4%)	11 (0.3%)

*The chi-squared p-value is 0

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