

Economic Clustering Summary Report: Ghana 2022

Data Summary

Country Code-year: GH22

Number of observations: 17819

Number of variables used: 27

Variable set used: 1

Variables used in the algorithm: hv201b, hv206, hv207, hv208, hv209, hv210, hv211, hv227, hv243b, hv243e, hv244, hv246, hv247, hv253, hv263, sh132g, sh132l, sh132m, sh132n, sh132o, sh132p, water, toilet, floor, roof, cookfuel, wall

Top 10 Variable Sets (Sorted by ASW)

Set	ASW	Var.1	Var.2	Var.3	Var.4
1	0.9306	has electricity	has a computer	has freezer	roof
2	0.9299	has electricity	has refrigerator	has freezer	roof
3	0.9266	has electricity	has freezer	has chair	roof
4	0.9261	has electricity	has a computer	has chair	roof
5	0.9244	has electricity	has a computer	mobile phone used financial transactions	roof
6	0.9234	has electricity	has a computer	floor	roof
7	0.9225	has electricity	has freezer	floor	roof
8	0.9223	has electricity	has freezer	has table	roof
9	0.9216	has electricity	has television	has freezer	roof
10	0.9211	has electricity	has a computer	has table	roof

Marginal Distributions

Variable	Description	% in Top Sets	Distribution
hv206	has electricity	100%	Binary, 80.5% (1/yes)
hv243e	has a computer	50%	Binary, 13.4% (1/yes)
hv209	has refrigerator	10%	Binary, 33.9% (1/yes)
sh132g	has freezer	60%	Binary, 12.6% (1/yes)
hv208	has television	10%	Binary, 59.8% (1/yes)
sh132o	has chair	20%	Binary, 85.5% (1/yes)
hv263	mobile phone used financial transactions	10%	Binary, 82.6% (1/yes)
floor	floor	20%	Categorical, 0 (finished) = 88%, 1 (natural) = 11.8%, 2 (rudimentary) = 0.2%
sh132n	has table	20%	Binary, 78.4% (1/yes)
roof	roof	100%	Categorical, 0 (finished) = 94.1%, 1 (natural) = 4.9%, 2 (other) = 0.2%, 3 (rudimentary) = 0.8%

Cluster Configuration (Set #1)

Cluster Group	has electricity	has a computer	has freezer	roof	Proportion (%)
1 1	1	1	0	finished	8.33
1 1	1	1	0	natural	
1 1	1	1	0	other	
1 1	1	1	0	rudimentary	
2 1	1	0	1	finished	7.69
2 1	1	0	1	natural	
2 1	1	0	1	other	
2 1	1	0	1	rudimentary	
3 0	0	0	0	finished	19.50
3 0	0	0	0	natural	
3 0	0	0	0	other	
3 0	0	0	0	rudimentary	
3 0	0	0	1	finished	
3 0	0	0	1	natural	
3 0	0	1	0	finished	
3 0	0	1	0	natural	
4 0	0	1	1	finished	4.87
4 0	0	1	1	rudimentary	
4 1	1	1	1	finished	
4 1	1	1	1	natural	
4 1	1	1	1	other	59.60
5 1	0	0	0	finished	
5 1	0	0	0	natural	
5 1	0	0	0	other	
5 1	0	0	0	rudimentary	

Validation Tables

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

Cluster ID/Children Deceased	0%	1-33%	34-66%	67+%
4*	784 (94.8%)	28 (3.4%)	11 (1.3%)	4 (0.5%)
1	981 (93.9%)	52 (5.0%)	10 (1.0%)	2 (0.2%)
2	1,208 (91.2%)	89 (6.7%)	24 (1.8%)	4 (0.3%)
5	7,785 (87.9%)	844 (9.5%)	177 (2.0%)	54 (0.6%)
3	2,410 (84.4%)	355 (12.4%)	74 (2.6%)	17 (0.6%)
Total	13,168 (88.3%)	1,368 (9.2%)	296 (2.0%)	81 (0.5%)

*The chi-squared p-value is 0

a.2) Aggregating proportions greater than 0%

Cluster ID/Children Deceased	0%	>0%
4*	784 (94.8%)	43 (5.2%)
1	981 (93.9%)	64 (6.1%)
2	1,208 (91.2%)	117 (8.8%)
5	7,785 (87.9%)	1,075 (12.1%)
3	2,410 (84.4%)	446 (15.6%)
Total	13,168 (88.3%)	1,745 (11.7%)

*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	36 (4.4%)	5 (0.6%)	30 (3.6%)	89 (10.8%)	304 (36.8%)	363 (43.9%)	4.07
1	61 (5.8%)	12 (1.1%)	45 (4.3%)	145 (13.9%)	445 (42.6%)	337 (32.2%)	3.83
2	134 (10.1%)	26 (2.0%)	93 (7.0%)	235 (17.7%)	687 (51.8%)	150 (11.3%)	3.33
5	1,919 (21.7%)	330 (3.7%)	1,095 (12.4%)	1,331 (15.0%)	3,769 (42.5%)	416 (4.7%)	2.67
3	1,189 (41.6%)	175 (6.1%)	422 (14.8%)	282 (9.9%)	764 (26.8%)	24 (0.8%)	1.77
Total	3,339 (22.4%)	548 (3.7%)	1,685 (11.3%)	2,082 (14.0%)	5,969 (40.0%)	1,290 (8.7%)	2.72

*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	88 (49.7%)	86 (48.6%)	3 (1.7%)
1	133 (52.6%)	119 (47.0%)	1 (0.4%)
2	157 (54.0%)	130 (44.7%)	4 (1.4%)
5	1,272 (63.5%)	702 (35.0%)	30 (1.5%)
3	464 (75.2%)	148 (24.0%)	5 (0.8%)
Total	2,114 (63.3%)	1,185 (35.5%)	43 (1.3%)

*The chi-squared p-value is 0

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