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 | 0 | finished | 8.33 |
| 1 | 1 | 1 | 0 | natural |  |
| 1 | 1 | 1 | 0 | other |  |
| 1 | 1 | 1 | 0 | rudimentary |  |
| 2 | 1 | 0 | 1 | finished | 7.69 |
| 2 | 1 | 0 | 1 | natural |  |
| 2 | 1 | 0 | 1 | other |  |
| 2 | 1 | 0 | 1 | rudimentary |  |
| 3 | 0 | 0 | 0 | finished | 19.50 |
| 3 | 0 | 0 | 0 | natural |  |
| 3 | 0 | 0 | 0 | other |  |
| 3 | 0 | 0 | 0 | rudimentary |  |
| 3 | 0 | 0 | 1 | finished |  |
| 3 | 0 | 0 | 1 | natural |  |
| 3 | 0 | 1 | 0 | finished |  |
| 3 | 0 | 1 | 0 | natural |  |
| 4 | 0 | 1 | 1 | finished | 4.87 |
| 4 | 0 | 1 | 1 | rudimentary |  |
| 4 | 1 | 1 | 1 | finished |  |
| 4 | 1 | 1 | 1 | natural |  |
| 4 | 1 | 1 | 1 | other |  |
| 5 | 1 | 0 | 0 | finished | 59.60 |
| 5 | 1 | 0 | 0 | natural |  |
| 5 | 1 | 0 | 0 | other |  |
| 5 | 1 | 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 | | | |