Economic Clustering Summary Report: Guinea 2018

# Data Summary

**Country Code-year:** GN18

**Number of observations:** 7899

**Number of variables used:** 29

**Variable set used:** 1

**Variables used in the algorithm:** hv206, hv207, hv208, hv209, hv210, hv211, hv227, hv237, hv243a, hv243b, hv244, hv246, sh121a, sh121b, sh121e, sh121h, sh121i, sh121j, sh121k, sh121l, sh121o, sh122b, sh122c, water, toilet, floor, roof, cookfuel, wall

# Top 10 Variable Sets (Sorted by ASW)

| Set | ASW | Var.1 | Var.2 | Var.3 | Var.4 |
| --- | --- | --- | --- | --- | --- |
| 1 | 0.9859 | has electricity | has mobile telephone | electricity | other source of electricity |
| 2 | 0.9839 | has mobile telephone | clock watch | has mobile telephone simple | has mobile telephone android/iphone |
| 3 | 0.9838 | has electricity | has mobile telephone | electricity | has mobile telephone simple |
| 4 | 0.9837 | has refrigerator | has mobile telephone | has mobile telephone simple | has mobile telephone android/iphone |
| 5 | 0.9832 | has mobile telephone | cupboard/library | has mobile telephone simple | has mobile telephone android/iphone |
| 6 | 0.9832 | has motorcycle/scooter | has mobile telephone | has mobile telephone simple | has mobile telephone android/iphone |
| 7 | 0.9824 | has mobile telephone | fan | has mobile telephone simple | has mobile telephone android/iphone |
| 8 | 0.981 | has mobile telephone | other source of electricity | has mobile telephone simple | has mobile telephone android/iphone |
| 9 | 0.9809 | has mobile telephone | closet | has mobile telephone simple | has mobile telephone android/iphone |
| 10 | 0.9804 | has television | has mobile telephone | has mobile telephone simple | has mobile telephone android/iphone |

# Marginal Distributions

| Variable | Description | % in Top Sets | Distribution |
| --- | --- | --- | --- |
| hv206 | has electricity | 20% | Binary, 43.5% (1/yes) |
| hv243a | has mobile telephone | 100% | Binary, 89.7% (1/yes) |
| hv209 | has refrigerator | 10% | Binary, 15.4% (1/yes) |
| hv211 | has motorcycle/scooter | 10% | Binary, 26.5% (1/yes) |
| hv208 | has television | 10% | Binary, 30.6% (1/yes) |
| sh121o | clock watch | 10% | Binary, 11.6% (1/yes) |
| sh121l | cupboard/library | 10% | Binary, 12.8% (1/yes) |
| sh121e | fan | 10% | Binary, 21.3% (1/yes) |
| sh121b | other source of electricity | 20% | Binary, 18.6% (1/yes) |
| sh121j | closet | 10% | Binary, 24% (1/yes) |
| sh121a | electricity | 20% | Binary, 29.5% (1/yes) |
| sh122b | has mobile telephone simple | 90% | Binary, 88.6% (1/yes) |
| sh122c | has mobile telephone android/iphone | 80% | Binary, 27.9% (1/yes) |

# Cluster Configuration (Set #1)

| Cluster Group | has electricity | has mobile telephone | electricity | other source of electricity | Proportion (%) |
| --- | --- | --- | --- | --- | --- |
| 1 | 1 | 0 | 1 | 0 | 24.86 |
| 1 | 1 | 1 | 1 | 0 |  |
| 2 | 1 | 0 | 1 | 1 | 4.65 |
| 2 | 1 | 1 | 1 | 1 |  |
| 3 | 1 | 0 | 0 | 1 | 14.00 |
| 3 | 1 | 1 | 0 | 1 |  |
| 4 | 0 | 0 | 0 | 0 | 9.01 |
| 5 | 0 | 1 | 0 | 0 | 47.47 |

# Validation Tables

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

| Cluster ID/Children Deceased | 0% | 1-33% | 34-66% | 67+% |
| --- | --- | --- | --- | --- |
| 1\* | 2,614 (89.3%) | 221 (7.6%) | 68 (2.3%) | 24 (0.8%) |
| 2 | 508 (86.0%) | 53 (9.0%) | 22 (3.7%) | 8 (1.4%) |
| 3 | 1,209 (76.1%) | 267 (16.8%) | 90 (5.7%) | 23 (1.4%) |
| 5 | 3,736 (75.1%) | 839 (16.9%) | 328 (6.6%) | 72 (1.4%) |
| 4 | 579 (74.4%) | 124 (15.9%) | 55 (7.1%) | 20 (2.6%) |
| Total | 8,646 (79.6%) | 1,504 (13.8%) | 563 (5.2%) | 147 (1.4%) |
| \*The chi-squared p-value is 0 | | | | |

## a.2) Aggregating proportions greater than 0%

| Cluster ID/Children Deceased | 0% | >0% |
| --- | --- | --- |
| 1\* | 2,614 (89.3%) | 313 (10.7%) |
| 2 | 508 (86.0%) | 83 (14.0%) |
| 3 | 1,209 (76.1%) | 380 (23.9%) |
| 5 | 3,736 (75.1%) | 1,239 (24.9%) |
| 4 | 579 (74.4%) | 199 (25.6%) |
| Total | 8,646 (79.6%) | 2,214 (20.4%) |
| \*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. |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 2\*a | 256 (43.3%) | 55 (9.3%) | 23 (3.9%) | 164 (27.7%) | 30 (5.1%) | 63 (10.7%) | 1.74 |
| 1 | 1,313 (44.9%) | 262 (9.0%) | 155 (5.3%) | 794 (27.1%) | 141 (4.8%) | 262 (9.0%) | 1.65 |
| 3 | 1,163 (73.2%) | 148 (9.3%) | 56 (3.5%) | 185 (11.6%) | 14 (0.9%) | 23 (1.4%) | 0.62 |
| 5 | 4,108 (82.6%) | 382 (7.7%) | 122 (2.5%) | 331 (6.7%) | 19 (0.4%) | 13 (0.3%) | 0.35 |
| 4 | 680 (87.4%) | 53 (6.8%) | 15 (1.9%) | 28 (3.6%) | 0 (0.0%) | 2 (0.3%) | 0.23 |
| Total | 7,520 (69.2%) | 900 (8.3%) | 371 (3.4%) | 1,502 (13.8%) | 204 (1.9%) | 363 (3.3%) | 0.81 |
| \*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 |
| --- | --- | --- | --- |
| 2\*a | 55 (53.4%) | 48 (46.6%) | 0 (0.0%) |
| 1 | 194 (53.9%) | 165 (45.8%) | 1 (0.3%) |
| 3 | 81 (73.6%) | 29 (26.4%) | 0 (0.0%) |
| 5 | 173 (76.5%) | 52 (23.0%) | 1 (0.4%) |
| 4 | 47 (78.3%) | 13 (21.7%) | 0 (0.0%) |
| Total | 550 (64.0%) | 307 (35.7%) | 2 (0.2%) |
| \*The chi-squared p-value is 0 | | | |
| a0=public/government, 1=private, 2=other | | | |