Economic Clustering Summary Report: Gambia 2019

# Data Summary

**Country Code-year:** GM19

**Number of observations:** 6544

**Number of variables used:** 32

**Variable set used:** 1

**Variables used in the algorithm:** hv206, hv207, hv208, hv209, hv210, hv211, hv212, hv225, hv227, hv237, hv243b, hv243c, hv243e, hv244, hv246, hv247, sh121b, sh121c, sh121d, sh121e, sh121f, sh121k, sh121l, sh121o, sh121p, sh121r, water, toilet, floor, roof, cookfuel, wall

# Top 10 Variable Sets (Sorted by ASW)

| Set | ASW | Var.1 | Var.2 | Var.3 | Var.4 |
| --- | --- | --- | --- | --- | --- |
| 1 | 0.9511 | has television | has dvd/vcd/ player | floor | roof |
| 2 | 0.9503 | has car/truck | has bed | floor | roof |
| 3 | 0.9497 | has car/truck | has a computer | floor | roof |
| 4 | 0.949 | has television | has satellite dish | floor | roof |
| 5 | 0.9485 | has a computer | has bed | floor | roof |
| 6 | 0.9484 | has bed | has clock | floor | roof |
| 7 | 0.9484 | has television | has bed | has dvd/vcd/ player | roof |
| 8 | 0.948 | has television | has bed | has satellite dish | roof |
| 9 | 0.9477 | has car/truck | has dvd/vcd/ player | floor | roof |
| 10 | 0.9476 | has car/truck | has clock | floor | roof |

# Marginal Distributions

| Variable | Description | % in Top Sets | Distribution |
| --- | --- | --- | --- |
| hv208 | has television | 40% | Binary, 55% (1/yes) |
| hv212 | has car/truck | 40% | Binary, 13.2% (1/yes) |
| hv243e | has a computer | 20% | Binary, 12.4% (1/yes) |
| sh121d | has bed | 50% | Binary, 89.3% (1/yes) |
| sh121o | has dvd/vcd/ player | 30% | Binary, 20.2% (1/yes) |
| sh121p | has satellite dish | 20% | Binary, 42.7% (1/yes) |
| sh121r | has clock | 20% | Binary, 16.5% (1/yes) |
| floor | floor | 80% | Categorical, 0 (finished) = 89.4%,   1 (natural) = 10.6%,   2 (other) = 0% |
| roof | roof | 100% | Categorical, 0 (finished) = 93.6%,   1 (natural) = 6.2%,   2 (rudimentary) = 0.2% |

# Cluster Configuration (Set #1)

| Cluster Group | has television | has dvd/vcd/ player | floor | roof | Proportion (%) |
| --- | --- | --- | --- | --- | --- |
| 1 | 1 | 1 | finished | finished | 19.79 |
| 1 | 1 | 1 | finished | natural |  |
| 1 | 1 | 1 | natural | finished |  |
| 1 | 1 | 1 | natural | natural |  |
| 2 | 0 | 0 | natural | natural | 4.23 |
| 2 | 1 | 0 | natural | natural |  |
| 3 | 0 | 0 | finished | finished | 35.45 |
| 3 | 0 | 0 | finished | natural |  |
| 3 | 0 | 0 | finished | rudimentary |  |
| 3 | 0 | 0 | other | finished |  |
| 3 | 0 | 1 | finished | finished |  |
| 4 | 1 | 0 | finished | finished | 35.04 |
| 4 | 1 | 0 | finished | natural |  |
| 4 | 1 | 0 | finished | rudimentary |  |
| 4 | 1 | 0 | natural | finished |  |
| 5 | 0 | 0 | natural | finished | 5.49 |
| 5 | 0 | 0 | natural | rudimentary |  |

# Validation Tables

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

| Cluster ID/Children Deceased | 0% | 1-33% | 34-66% | 67+% |
| --- | --- | --- | --- | --- |
| 1\* | 2,534 (87.4%) | 269 (9.3%) | 66 (2.3%) | 29 (1.0%) |
| 4 | 3,630 (86.2%) | 466 (11.1%) | 95 (2.3%) | 21 (0.5%) |
| 3 | 2,892 (80.0%) | 581 (16.1%) | 109 (3.0%) | 35 (1.0%) |
| 5 | 472 (75.6%) | 127 (20.4%) | 22 (3.5%) | 3 (0.5%) |
| 2 | 382 (74.9%) | 90 (17.6%) | 33 (6.5%) | 5 (1.0%) |
| Total | 9,910 (83.6%) | 1,533 (12.9%) | 325 (2.7%) | 93 (0.8%) |
| \*The chi-squared p-value is 0 | | | | |

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

| Cluster ID/Children Deceased | 0% | >0% |
| --- | --- | --- |
| 1\* | 2,534 (87.4%) | 364 (12.6%) |
| 4 | 3,630 (86.2%) | 582 (13.8%) |
| 3 | 2,892 (80.0%) | 725 (20.0%) |
| 5 | 472 (75.6%) | 152 (24.4%) |
| 2 | 382 (74.9%) | 128 (25.1%) |
| Total | 9,910 (83.6%) | 1,951 (16.4%) |
| \*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. |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1\*a | 741 (25.6%) | 331 (11.4%) | 122 (4.2%) | 1,075 (37.1%) | 355 (12.2%) | 274 (9.5%) | 2.27 |
| 4 | 1,524 (36.2%) | 493 (11.7%) | 187 (4.4%) | 1,352 (32.1%) | 386 (9.2%) | 270 (6.4%) | 1.86 |
| 3 | 1,920 (53.1%) | 471 (13.0%) | 174 (4.8%) | 843 (23.3%) | 139 (3.8%) | 70 (1.9%) | 1.18 |
| 5 | 407 (65.2%) | 85 (13.6%) | 31 (5.0%) | 94 (15.1%) | 6 (1.0%) | 1 (0.2%) | 0.73 |
| 2 | 369 (72.4%) | 64 (12.5%) | 13 (2.5%) | 58 (11.4%) | 6 (1.2%) | 0 (0.0%) | 0.56 |
| Total | 4,961 (41.8%) | 1,444 (12.2%) | 527 (4.4%) | 3,422 (28.9%) | 892 (7.5%) | 615 (5.2%) | 1.64 |
| \*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 |
| --- | --- | --- | --- |
| 1\*a | 258 (72.7%) | 96 (27.0%) | 1 (0.3%) |
| 4 | 384 (77.1%) | 110 (22.1%) | 4 (0.8%) |
| 5 | 74 (88.1%) | 10 (11.9%) | 0 (0.0%) |
| 3 | 367 (92.2%) | 29 (7.3%) | 2 (0.5%) |
| 2 | 66 (95.7%) | 3 (4.3%) | 0 (0.0%) |
| Total | 1,149 (81.8%) | 248 (17.7%) | 7 (0.5%) |
| \*The chi-squared p-value is 0 | | | |
| a0=public/government, 1=private, 2=other | | | |