Economic Clustering Summary Report: Mali 2018

# Data Summary

**Country Code-year:** ML18

**Number of observations:** 9494

**Number of variables used:** 24

**Variable set used:** 1

**Variables used in the algorithm:** hv206, hv207, hv208, hv209, hv210, hv211, hv227, hv237, hv243a, hv243c, hv244, hv246, hv247, sh121g, sh121h, sh121k, sh121m, sh122g, water, toilet, floor, roof, cookfuel, wall

# Top 10 Variable Sets (Sorted by ASW)

| Set | ASW | Var.1 | Var.2 | Var.3 | Var.4 |
| --- | --- | --- | --- | --- | --- |
| 1 | 0.9215 | has refrigerator | has mosquito bed net for sleeping | has mobile telephone | wardrobe / bookcase |
| 2 | 0.9015 | has television | has refrigerator | has mosquito bed net for sleeping | has mobile telephone |
| 3 | 0.9013 | has refrigerator | has mosquito bed net for sleeping | has mobile telephone | internet |
| 4 | 0.9009 | has mosquito bed net for sleeping | has mobile telephone | has bank account | internet |
| 5 | 0.8979 | has mosquito bed net for sleeping | has mobile telephone | has bank account | wardrobe / bookcase |
| 6 | 0.8961 | has mosquito bed net for sleeping | has mobile telephone | wardrobe / bookcase | internet |
| 7 | 0.8959 | has electricity | has television | has refrigerator | has mosquito bed net for sleeping |
| 8 | 0.8944 | has refrigerator | has mosquito bed net for sleeping | has mobile telephone | has bank account |
| 9 | 0.8939 | has television | has refrigerator | has mobile telephone | wardrobe / bookcase |
| 10 | 0.8938 | has electricity | has refrigerator | has mosquito bed net for sleeping | has mobile telephone |

# Marginal Distributions

| Variable | Description | % in Top Sets | Distribution |
| --- | --- | --- | --- |
| hv209 | has refrigerator | 70% | Binary, 12% (1/yes) |
| hv208 | has television | 30% | Binary, 42.3% (1/yes) |
| hv227 | has mosquito bed net for sleeping | 90% | Binary, 86% (1/yes) |
| hv206 | has electricity | 20% | Binary, 47.1% (1/yes) |
| hv243a | has mobile telephone | 90% | Binary, 85.5% (1/yes) |
| hv247 | has bank account | 30% | Binary, 14% (1/yes) |
| sh121h | wardrobe / bookcase | 40% | Binary, 21.4% (1/yes) |
| sh121m | internet | 30% | Binary, 17% (1/yes) |

# Cluster Configuration (Set #1)

| Cluster Group | has refrigerator | has mosquito bed net for sleeping | has mobile telephone | wardrobe / bookcase | Proportion (%) |
| --- | --- | --- | --- | --- | --- |
| 1 | 0 | 1 | 1 | 0 | 57.14 |
| 1 | 1 | 1 | 1 | 0 |  |
| 2 | 0 | 0 | 0 | 0 | 14.00 |
| 2 | 0 | 1 | 0 | 0 |  |
| 2 | 1 | 0 | 0 | 0 |  |
| 2 | 1 | 1 | 0 | 0 |  |
| 3 | 0 | 0 | 1 | 0 | 7.48 |
| 3 | 1 | 0 | 1 | 0 |  |
| 4 | 1 | 0 | 0 | 1 | 8.48 |
| 4 | 1 | 0 | 1 | 1 |  |
| 4 | 1 | 1 | 0 | 1 |  |
| 4 | 1 | 1 | 1 | 1 |  |
| 5 | 0 | 0 | 0 | 1 | 12.90 |
| 5 | 0 | 0 | 1 | 1 |  |
| 5 | 0 | 1 | 0 | 1 |  |
| 5 | 0 | 1 | 1 | 1 |  |

# Validation Tables

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

| Cluster ID/Children Deceased | 0% | 1-33% | 34-66% | 67+% |
| --- | --- | --- | --- | --- |
| 4\* | 1,115 (90.9%) | 80 (6.5%) | 22 (1.8%) | 10 (0.8%) |
| 3 | 578 (85.1%) | 65 (9.6%) | 28 (4.1%) | 8 (1.2%) |
| 5 | 1,249 (81.3%) | 196 (12.8%) | 75 (4.9%) | 17 (1.1%) |
| 2 | 800 (78.9%) | 149 (14.7%) | 54 (5.3%) | 11 (1.1%) |
| 1 | 4,249 (70.2%) | 1,308 (21.6%) | 418 (6.9%) | 77 (1.3%) |
| Total | 7,991 (76.0%) | 1,798 (17.1%) | 597 (5.7%) | 123 (1.2%) |
| \*The chi-squared p-value is 0 | | | | |

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

| Cluster ID/Children Deceased | 0% | >0% |
| --- | --- | --- |
| 4\* | 1,115 (90.9%) | 112 (9.1%) |
| 3 | 578 (85.1%) | 101 (14.9%) |
| 5 | 1,249 (81.3%) | 288 (18.7%) |
| 2 | 800 (78.9%) | 214 (21.1%) |
| 1 | 4,249 (70.2%) | 1,803 (29.8%) |
| Total | 7,991 (76.0%) | 2,518 (24.0%) |
| \*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 | 5 | W. Avg. |
| --- | --- | --- | --- | --- | --- | --- |
| 4\*a | 360 (29.3%) | 105 (8.6%) | 55 (4.5%) | 569 (46.4%) | 138 (11.2%) | 2.13 |
| 5 | 766 (49.8%) | 156 (10.1%) | 87 (5.7%) | 492 (32.0%) | 36 (2.3%) | 1.29 |
| 1 | 4,415 (73.0%) | 592 (9.8%) | 223 (3.7%) | 800 (13.2%) | 22 (0.4%) | 0.59 |
| 3 | 522 (76.9%) | 58 (8.5%) | 18 (2.7%) | 75 (11.0%) | 6 (0.9%) | 0.51 |
| 2 | 898 (88.6%) | 62 (6.1%) | 14 (1.4%) | 38 (3.7%) | 2 (0.2%) | 0.21 |
| Total | 6,961 (66.2%) | 973 (9.3%) | 397 (3.8%) | 1,974 (18.8%) | 204 (1.9%) | 0.83 |
| \*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 | 159 (67.4%) | 74 (31.4%) | 3 (1.3%) |
| 5 | 215 (72.1%) | 82 (27.5%) | 1 (0.3%) |
| 1 | 630 (78.0%) | 175 (21.7%) | 3 (0.4%) |
| 3 | 42 (80.8%) | 10 (19.2%) | 0 (0.0%) |
| 2 | 43 (81.1%) | 10 (18.9%) | 0 (0.0%) |
| Total | 1,089 (75.3%) | 351 (24.3%) | 7 (0.5%) |
| \*The chi-squared p-value is 1e-04 | | | |
| a0=public/government, 1=private, 2=other | | | |