Economic Clustering Summary Report: Nigeria 2018

# Data Summary

**Country Code-year:** NG18

**Number of observations:** 40403

**Number of variables used:** 25

**Variable set used:** 1

**Variables used in the algorithm:** hv206, hv207, hv208, hv209, hv210, hv211, hv227, hv243a, hv243b, hv244, hv246, hv247, sh121g, sh121h, sh121j, sh121k, sh121m, sh121n, sh121o, water, toilet, floor, roof, cookfuel, wall

# Top 10 Variable Sets (Sorted by ASW)

| Set | ASW | Var.1 | Var.2 | Var.3 | Var.4 |
| --- | --- | --- | --- | --- | --- |
| 1 | 0.8879 | has refrigerator | has mobile telephone | has electric iron | has fan |
| 2 | 0.887 | has refrigerator | has mobile telephone | has fan | roof |
| 3 | 0.8765 | has television | has refrigerator | has mobile telephone | roof |
| 4 | 0.869 | has television | has refrigerator | has mobile telephone | has electric iron |
| 5 | 0.8684 | has electricity | has refrigerator | has mobile telephone | has electric iron |
| 6 | 0.8666 | has mobile telephone | has electric iron | has fan | roof |
| 7 | 0.8608 | has electricity | has refrigerator | has mobile telephone | has fan |
| 8 | 0.8606 | has refrigerator | has mobile telephone | has chair | has fan |
| 9 | 0.8578 | has refrigerator | has chair | has electric iron | has fan |
| 10 | 0.8556 | has mobile telephone | has generator | has fan | roof |

# Marginal Distributions

| Variable | Description | % in Top Sets | Distribution |
| --- | --- | --- | --- |
| hv209 | has refrigerator | 80% | Binary, 20.3% (1/yes) |
| hv208 | has television | 20% | Binary, 47% (1/yes) |
| hv206 | has electricity | 20% | Binary, 55.3% (1/yes) |
| hv243a | has mobile telephone | 90% | Binary, 87% (1/yes) |
| sh121m | has electric iron | 50% | Binary, 30.1% (1/yes) |
| sh121h | has chair | 20% | Binary, 80.2% (1/yes) |
| sh121n | has generator | 10% | Binary, 27.7% (1/yes) |
| sh121o | has fan | 70% | Binary, 49% (1/yes) |
| roof | roof | 40% | Categorical, 0 (finished) = 87.9%,   1 (natural) = 9.8%,   2 (other) = 0.4%,   3 (rudimentary) = 2% |

# Cluster Configuration (Set #1)

| Cluster Group | has refrigerator | has mobile telephone | has electric iron | has fan | Proportion (%) |
| --- | --- | --- | --- | --- | --- |
| 1 | 0 | 0 | 1 | 1 | 12.10 |
| 1 | 0 | 1 | 1 | 1 |  |
| 2 | 0 | 0 | 0 | 0 | 11.71 |
| 2 | 0 | 0 | 1 | 0 |  |
| 2 | 1 | 0 | 0 | 0 |  |
| 3 | 0 | 0 | 0 | 1 | 17.39 |
| 3 | 0 | 1 | 0 | 1 |  |
| 4 | 1 | 0 | 0 | 1 | 19.80 |
| 4 | 1 | 0 | 1 | 0 |  |
| 4 | 1 | 0 | 1 | 1 |  |
| 4 | 1 | 1 | 0 | 1 |  |
| 4 | 1 | 1 | 1 | 0 |  |
| 4 | 1 | 1 | 1 | 1 |  |
| 5 | 0 | 1 | 0 | 0 | 39.01 |
| 5 | 0 | 1 | 1 | 0 |  |
| 5 | 1 | 1 | 0 | 0 |  |

# Validation Tables

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

| Cluster ID/Children Deceased | 0% | 1-33% | 34-66% | 67+% |
| --- | --- | --- | --- | --- |
| 4\* | 7,999 (87.1%) | 872 (9.5%) | 256 (2.8%) | 55 (0.6%) |
| 1 | 4,020 (83.3%) | 570 (11.8%) | 188 (3.9%) | 49 (1.0%) |
| 3 | 5,509 (80.7%) | 922 (13.5%) | 322 (4.7%) | 73 (1.1%) |
| 5 | 12,045 (70.0%) | 3,367 (19.6%) | 1,504 (8.7%) | 285 (1.7%) |
| 2 | 2,442 (64.8%) | 797 (21.2%) | 441 (11.7%) | 86 (2.3%) |
| Total | 32,015 (76.6%) | 6,528 (15.6%) | 2,711 (6.5%) | 548 (1.3%) |
| \*The chi-squared p-value is 0 | | | | |

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

| Cluster ID/Children Deceased | 0% | >0% |
| --- | --- | --- |
| 4\* | 7,999 (87.1%) | 1,183 (12.9%) |
| 1 | 4,020 (83.3%) | 807 (16.7%) |
| 3 | 5,509 (80.7%) | 1,317 (19.3%) |
| 5 | 12,045 (70.0%) | 5,156 (30.0%) |
| 2 | 2,442 (64.8%) | 1,324 (35.2%) |
| Total | 32,015 (76.6%) | 9,787 (23.4%) |
| \*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. |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 4\*a | 741 (8.1%) | 171 (1.9%) | 693 (7.5%) | 1,592 (17.3%) | 3,299 (35.9%) | 2,686 (29.3%) | 3.59 |
| 1 | 678 (14.0%) | 131 (2.7%) | 527 (10.9%) | 1,030 (21.3%) | 1,817 (37.6%) | 644 (13.3%) | 3.06 |
| 3 | 1,588 (23.3%) | 313 (4.6%) | 937 (13.7%) | 1,581 (23.2%) | 1,909 (28.0%) | 498 (7.3%) | 2.50 |
| 5 | 8,856 (51.5%) | 1,057 (6.1%) | 1,949 (11.3%) | 2,647 (15.4%) | 2,208 (12.8%) | 484 (2.8%) | 1.40 |
| 2 | 2,535 (67.3%) | 233 (6.2%) | 367 (9.7%) | 393 (10.4%) | 213 (5.7%) | 25 (0.7%) | 0.83 |
| Total | 14,398 (34.4%) | 1,905 (4.6%) | 4,473 (10.7%) | 7,243 (17.3%) | 9,446 (22.6%) | 4,337 (10.4%) | 2.20 |
| \*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 | 638 (49.5%) | 643 (49.8%) | 9 (0.7%) |
| 1 | 338 (52.7%) | 298 (46.5%) | 5 (0.8%) |
| 3 | 388 (54.5%) | 319 (44.8%) | 5 (0.7%) |
| 5 | 690 (62.2%) | 418 (37.7%) | 2 (0.2%) |
| 2 | 104 (62.3%) | 62 (37.1%) | 1 (0.6%) |
| Total | 2,158 (55.1%) | 1,740 (44.4%) | 22 (0.6%) |
| \*The chi-squared p-value is 0 | | | |
| a0=public/government, 1=private, 2=other | | | |