Economic Clustering Summary Report: Uganda 2018-19

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# Summary of Data

**Country Code-year:** UG1819

**Number of observations:** 8957

**Number of clusters:** 5

**Number of variables used:** 24

**Distance used:** Hamming

**Variables used in the algorithm:** hv206, hv207, hv208, hv210, hv211, hv225, hv227, hv243a, hv243b, hv244, hv246, hv247, hv253, sh114g, sh114h, sh114i, sh114j, sh114k, sh114l, sh114m, water, toilet, roof, cookfuel

# Top Variable Groupings (Sorted by ASW)

| Group | ASW | Var. 1 | Var. 2 | Var. 3 | Var. 4 |
| --- | --- | --- | --- | --- | --- |
| 1 | 0.9139 | has electricity | has television | has cassette/cd/dvd player | has bed |
| 2 | 0.9131 | has television | has dwelling been sprayed against mosquitoes in last 12 months | has cassette/cd/dvd player | has bed |
| 3 | 0.9129 | has television | has mosquito bed net for sleeping | has dwelling been sprayed against mosquitoes in last 12 months | has cassette/cd/dvd player |
| 4 | 0.9106 | has television | has dwelling been sprayed against mosquitoes in last 12 months | has cassette/cd/dvd player | has chair |
| 5 | 0.9079 | has electricity | has television | has mobile telephone | has cassette/cd/dvd player |
| 6 | 0.9046 | has television | has mobile telephone | has dwelling been sprayed against mosquitoes in last 12 months | has cassette/cd/dvd player |
| 7 | 0.9021 | has electricity | has television | has mosquito bed net for sleeping | has cassette/cd/dvd player |
| 8 | 0.9015 | has television | has mobile telephone | has cassette/cd/dvd player | has clock |
| 9 | 0.9009 | has television | has cassette/cd/dvd player | has bed | has clock |
| 10 | 0.9009 | has electricity | has television | has dwelling been sprayed against mosquitoes in last 12 months | has cassette/cd/dvd player |

# Marginal Distributions

| Variable | Description | % Time in Top Clusters | Distribution |
| --- | --- | --- | --- |
| hv206 | has electricity | 40% | Binary, 37.6% 1s (or yes) |
| hv208 | has television | 100% | Binary, 15.9% 1s (or yes) |
| hv253 | has dwelling been sprayed against mosquitoes in last 12 months | 50% | Categorical, 0 (0) = 86.8%,   1 (1) = 12.4%,   2 (8) = 0.8% |
| hv227 | has mosquito bed net for sleeping | 20% | Binary, 85% 1s (or yes) |
| hv243a | has mobile telephone | 30% | Binary, 73.8% 1s (or yes) |
| sh114g | has cassette/cd/dvd player | 100% | Binary, 9.6% 1s (or yes) |
| sh114k | has bed | 30% | Binary, 76.9% 1s (or yes) |
| sh114i | has chair | 10% | Binary, 81.3% 1s (or yes) |
| sh114m | has clock | 20% | Binary, 10.6% 1s (or yes) |

# Cluster #1 Configuration

| Cluster Group | has electricity | has television | has cassette/cd/dvd player | has bed | Proportion (%) |
| --- | --- | --- | --- | --- | --- |
| 1 | 0 | 1 | 0 | 1 | 7.68 |
| 1 | 1 | 1 | 0 | 1 |  |
| 2 | 0 | 0 | 0 | 1 | 41.96 |
| 2 | 0 | 0 | 1 | 1 |  |
| 2 | 1 | 0 | 1 | 1 |  |
| 3 | 0 | 1 | 1 | 1 | 8.00 |
| 3 | 1 | 1 | 1 | 0 |  |
| 3 | 1 | 1 | 1 | 1 |  |
| 4 | 1 | 0 | 0 | 1 | 19.37 |
| 5 | 0 | 0 | 0 | 0 | 22.99 |
| 5 | 0 | 0 | 1 | 0 |  |
| 5 | 0 | 1 | 0 | 0 |  |
| 5 | 1 | 0 | 0 | 0 |  |
| 5 | 1 | 0 | 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+% |
| --- | --- | --- | --- | --- |
| 3\* | 656 (89.9%) | 54 (7.4%) | 17 (2.3%) | 3 (0.4%) |
| 4 | 750 (89.1%) | 65 (7.7%) | 20 (2.4%) | 7 (0.8%) |
| 1 | 2,932 (80.9%) | 558 (15.4%) | 113 (3.1%) | 22 (0.6%) |
| 5 | 1,715 (80.7%) | 319 (15.0%) | 77 (3.6%) | 15 (0.7%) |
| 2 | 1,179 (76.3%) | 273 (17.7%) | 78 (5.0%) | 15 (1.0%) |
| Total | 7,232 (81.6%) | 1,269 (14.3%) | 305 (3.4%) | 62 (0.7%) |
| \*The chi-squared p-value is 0 | | | | |

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

| Cluster ID/Children Deceased | 0% | >0% |
| --- | --- | --- |
| 3\* | 656 (89.9%) | 74 (10.1%) |
| 4 | 750 (89.1%) | 92 (10.9%) |
| 1 | 2,932 (80.9%) | 693 (19.1%) |
| 5 | 1,715 (80.7%) | 411 (19.3%) |
| 2 | 1,179 (76.3%) | 366 (23.7%) |
| Total | 7,232 (81.6%) | 1,636 (18.4%) |
| \*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 | 25 (3.0%) | 169 (20.1%) | 54 (6.4%) | 379 (45.0%) | 52 (6.2%) | 163 (19.4%) | 2.89 |
| 3 | 21 (2.9%) | 184 (25.2%) | 55 (7.5%) | 305 (41.8%) | 39 (5.3%) | 126 (17.3%) | 2.73 |
| 5 | 238 (11.2%) | 880 (41.4%) | 296 (13.9%) | 569 (26.8%) | 23 (1.1%) | 120 (5.6%) | 1.82 |
| 1 | 624 (17.2%) | 1,694 (46.7%) | 543 (15.0%) | 640 (17.7%) | 22 (0.6%) | 102 (2.8%) | 1.46 |
| 2 | 533 (34.5%) | 659 (42.7%) | 193 (12.5%) | 142 (9.2%) | 3 (0.2%) | 15 (1.0%) | 1.01 |
| Total | 1,441 (16.2%) | 3,586 (40.4%) | 1,141 (12.9%) | 2,035 (22.9%) | 139 (1.6%) | 526 (5.9%) | 1.71 |
| \*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])