Economic Clustering Summary Report: Uganda 2018

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# Summary of Data

**Country Code-year:** UG18

**Number of observations:** 8883

**Number of clusters:** 5

**Number of variables used:** 25

**Distance used:** Hamming

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

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# Top Variable Groupings (Sorted by ASW)

| Group | ASW | Var. 1 | Var. 2 | Var. 3 | Var. 4 |
| --- | --- | --- | --- | --- | --- |
| 1 | 0.8842 | has motorcycle/scooter | has mosquito bed net for sleeping | has dwelling been sprayed against mosquitoes in last 12 months | has clock |
| 2 | 0.8818 | has motorcycle/scooter | has dwelling been sprayed against mosquitoes in last 12 months | has chair | has clock |
| 3 | 0.8795 | has motorcycle/scooter | has dwelling been sprayed against mosquitoes in last 12 months | has bed | has clock |
| 4 | 0.879 | has dwelling been sprayed against mosquitoes in last 12 months | has chair | has sofa set | has clock |
| 5 | 0.8783 | has television | has bed | has clock | toilet |
| 6 | 0.8782 | has mosquito bed net for sleeping | has dwelling been sprayed against mosquitoes in last 12 months | has chair | has clock |
| 7 | 0.8776 | has mobile telephone | has bed | has clock | toilet |
| 8 | 0.8773 | has television | has mobile telephone | has bed | toilet |
| 9 | 0.8759 | has television | has sofa set | has bed | toilet |
| 10 | 0.8757 | has television | has mobile telephone | has clock | toilet |

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# Marginal Distributions

| Variable | Description | % Time in Top Clusters | Distribution |
| --- | --- | --- | --- |
| hv211 | has motorcycle/scooter | 30% | Binary, 10.5% 1s (or yes) |
| hv253 | has dwelling been sprayed against mosquitoes in last 12 months | 50% | Binary, 12.5% 1s (or yes) |
| hv208 | has television | 40% | Binary, 15.7% 1s (or yes) |
| hv227 | has mosquito bed net for sleeping | 20% | Binary, 85% 1s (or yes) |
| hv243a | has mobile telephone | 30% | Binary, 73.6% 1s (or yes) |
| sh114i | has chair | 30% | Binary, 81.3% 1s (or yes) |
| sh114k | has bed | 50% | Binary, 76.9% 1s (or yes) |
| sh114j | has sofa set | 20% | Binary, 20.6% 1s (or yes) |
| sh114m | has clock | 80% | Binary, 10.5% 1s (or yes) |
| toilet | toilet | 50% | Categorical, 0 (flush) = 2.7%,   1 (none) = 8%,   2 (other) = 2.1%,   3 (pitlat) = 87.2% |

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# Cluster #1 Configuration

| Cluster Group | has motorcycle/scooter | has mosquito bed net for sleeping | has dwelling been sprayed against mosquitoes in last 12 months | has clock | Proportion (%) |
| --- | --- | --- | --- | --- | --- |
| 1 | 0 | 1 | 1 | 0 | 9.46 |
| 2 | 1 | 0 | 0 | 0 | 10.50 |
| 2 | 1 | 0 | 0 | 1 |  |
| 2 | 1 | 0 | 1 | 0 |  |
| 2 | 1 | 0 | 1 | 1 |  |
| 2 | 1 | 1 | 0 | 0 |  |
| 2 | 1 | 1 | 0 | 1 |  |
| 2 | 1 | 1 | 1 | 0 |  |
| 2 | 1 | 1 | 1 | 1 |  |
| 3 | 0 | 1 | 0 | 1 | 7.47 |
| 3 | 0 | 1 | 1 | 1 |  |
| 4 | 0 | 0 | 0 | 0 | 14.07 |
| 4 | 0 | 0 | 0 | 1 |  |
| 4 | 0 | 0 | 1 | 0 |  |
| 4 | 0 | 0 | 1 | 1 |  |
| 5 | 0 | 1 | 0 | 0 | 58.49 |

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# Validation Tables

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

| Cluster ID/Children Deceased | 0% | 1-33% | 34-66% | 67+% |
| --- | --- | --- | --- | --- |
| 3\* | 766 (90.5%) | 67 (7.9%) | 8 (0.9%) | 5 (0.6%) |
| 2 | 927 (84.9%) | 129 (11.8%) | 30 (2.7%) | 6 (0.5%) |
| 5 | 792 (83.6%) | 139 (14.7%) | 14 (1.5%) | 2 (0.2%) |
| 1 | 4,081 (79.5%) | 800 (15.6%) | 212 (4.1%) | 38 (0.7%) |
| 4 | 666 (78.2%) | 134 (15.7%) | 41 (4.8%) | 11 (1.3%) |
| 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\* | 766 (90.5%) | 80 (9.5%) |
| 2 | 927 (84.9%) | 165 (15.1%) |
| 5 | 792 (83.6%) | 155 (16.4%) |
| 1 | 4,081 (79.5%) | 1,050 (20.5%) |
| 4 | 666 (78.2%) | 186 (21.8%) |
| Total | 7,232 (81.6%) | 1,636 (18.4%) |
| \*The chi-squared p-value is 0 | | |

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## b) Using Individual Education Level Attained (Sorted by weighted average by row)

| Cluster ID/Education | 0 | 1 | 2 | 3 | 4 | 5 | W. Avg. |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 3\*a | 35 (4.1%) | 221 (26.1%) | 65 (7.7%) | 320 (37.8%) | 44 (5.2%) | 161 (19.0%) | 2.71 |
| 2 | 87 (8.0%) | 376 (34.4%) | 133 (12.2%) | 392 (35.9%) | 20 (1.8%) | 84 (7.7%) | 2.12 |
| 5 | 121 (12.8%) | 443 (46.8%) | 180 (19.0%) | 162 (17.1%) | 2 (0.2%) | 39 (4.1%) | 1.58 |
| 1 | 926 (18.0%) | 2,235 (43.6%) | 665 (13.0%) | 1,015 (19.8%) | 69 (1.3%) | 221 (4.3%) | 1.56 |
| 4 | 272 (31.9%) | 311 (36.5%) | 98 (11.5%) | 146 (17.1%) | 4 (0.5%) | 21 (2.5%) | 1.25 |
| 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 | | | | | | | |

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## c) Using Primary Healthcare Source (Sorted by % enrolled in public healthcare [ascending order])