Economic Clustering Summary Report: Uganda 2016

# Data Summary

**Country Code-year:** UG16

**Number of observations:** 19519

**Number of variables used:** 29

**Variable set used:** 8

**Variables used in the algorithm:** hv206, hv207, hv208, hv210, hv211, hv225, hv227, hv237, hv243a, hv243b, hv244, hv246, hv247, sh120a, sh121g, sh121h, sh121i, sh121j, sh121k, sh121l, sh121m, sh125, sh144b, water, toilet, floor, roof, cookfuel, wall

# Top 10 Variable Sets (Sorted by ASW)

| Set | ASW | Var.1 | Var.2 | Var.3 | Var.4 |
| --- | --- | --- | --- | --- | --- |
| 1 | 0.9252 | has electricity | has television | has cassette/cd/dvd player | has bed |
| 2 | 0.9247 | has television | has cassette/cd/dvd player | has bed | dwelling sprayed in the past 6 months |
| 3 | 0.9231 | has electricity | has television | has cassette/cd/dvd player | dwelling sprayed in the past 6 months |
| 4 | 0.9217 | has electricity | has television | has mobile telephone | has cassette/cd/dvd player |
| 5 | 0.9125 | has television | has cassette/cd/dvd player | floor | roof |
| 6 | 0.9107 | has television | has mobile telephone | has bank account | has cassette/cd/dvd player |
| 7 | 0.9081 | has electricity | has television | has cassette/cd/dvd player | roof |
| 8 | 0.9073 | has electricity | has television | has bed | dwelling sprayed in the past 6 months |
| 9 | 0.9068 | has television | has cassette/cd/dvd player | has sofa set | has bed |
| 10 | 0.9057 | has electricity | has cassette/cd/dvd player | has bed | dwelling sprayed in the past 6 months |

# Marginal Distributions

| Variable | Description | % in Top Sets | Distribution |
| --- | --- | --- | --- |
| hv206 | has electricity | 60% | Binary, 26.2% (1/yes) |
| hv208 | has television | 90% | Binary, 14.7% (1/yes) |
| sh121g | has cassette/cd/dvd player | 90% | Binary, 10.7% (1/yes) |
| hv243a | has mobile telephone | 20% | Binary, 72% (1/yes) |
| sh121k | has bed | 50% | Binary, 79.7% (1/yes) |
| floor | floor | 10% | Categorical, 0 (37) = 0.1%,   1 (finished) = 33.3%,   2 (natural) = 65.8%,   3 (other) = 0.2%,   4 (rudimentary) = 0.6% |
| hv247 | has bank account | 10% | Binary, 46.5% (1/yes) |
| sh121j | has sofa set | 10% | Binary, 23.4% (1/yes) |
| sh125 | dwelling sprayed in the past 6 months | 40% | Binary, 10.1% (1/yes) |
| roof | roof | 20% | Categorical, 0 (finished) = 67.3%,   1 (natural) = 31.9%,   2 (other) = 0.1%,   3 (rudimentary) = 0.7% |

# Cluster Configuration (Set #8)

| Cluster Group | has electricity | has television | has bed | dwelling sprayed in the past 6 months | Proportion (%) |
| --- | --- | --- | --- | --- | --- |
| 1 | 0 | 0 | 1 | 1 | 7.27 |
| 1 | 0 | 1 | 1 | 1 |  |
| 2 | 1 | 0 | 1 | 0 | 11.42 |
| 2 | 1 | 0 | 1 | 1 |  |
| 3 | 0 | 0 | 1 | 0 | 47.79 |
| 3 | 0 | 1 | 1 | 0 |  |
| 4 | 1 | 1 | 0 | 0 | 13.45 |
| 4 | 1 | 1 | 0 | 1 |  |
| 4 | 1 | 1 | 1 | 0 |  |
| 4 | 1 | 1 | 1 | 1 |  |
| 5 | 0 | 0 | 0 | 0 | 20.07 |
| 5 | 0 | 0 | 0 | 1 |  |
| 5 | 0 | 1 | 0 | 0 |  |
| 5 | 0 | 1 | 0 | 1 |  |
| 5 | 1 | 0 | 0 | 0 |  |
| 5 | 1 | 0 | 0 | 1 |  |

# Validation Tables

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

| Cluster ID/Children Deceased | 0% | 1-33% | 34-66% | 67+% |
| --- | --- | --- | --- | --- |
| 4\* | 2,620 (89.1%) | 247 (8.4%) | 51 (1.7%) | 22 (0.7%) |
| 2 | 1,684 (80.7%) | 316 (15.1%) | 66 (3.2%) | 20 (1.0%) |
| 1 | 1,187 (78.1%) | 270 (17.8%) | 49 (3.2%) | 13 (0.9%) |
| 3 | 6,605 (75.5%) | 1,661 (19.0%) | 397 (4.5%) | 80 (0.9%) |
| 5 | 2,301 (72.8%) | 677 (21.4%) | 150 (4.7%) | 33 (1.0%) |
| Total | 14,397 (78.0%) | 3,171 (17.2%) | 713 (3.9%) | 168 (0.9%) |
| \*The chi-squared p-value is 0 | | | | |

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

| Cluster ID/Children Deceased | 0% | >0% |
| --- | --- | --- |
| 4\* | 2,620 (89.1%) | 320 (10.9%) |
| 2 | 1,684 (80.7%) | 402 (19.3%) |
| 1 | 1,187 (78.1%) | 332 (21.9%) |
| 3 | 6,605 (75.5%) | 2,138 (24.5%) |
| 5 | 2,301 (72.8%) | 860 (27.2%) |
| Total | 14,397 (78.0%) | 4,052 (22.0%) |
| \*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 | 4 | 5 | W. Avg. |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 4\*a | 63 (2.1%) | 550 (18.7%) | 329 (11.2%) | 1,103 (37.5%) | 168 (5.7%) | 727 (24.7%) | 3.00 |
| 2 | 151 (7.2%) | 844 (40.5%) | 298 (14.3%) | 568 (27.2%) | 23 (1.1%) | 202 (9.7%) | 2.04 |
| 3 | 935 (10.7%) | 4,502 (51.5%) | 1,273 (14.6%) | 1,687 (19.3%) | 48 (0.5%) | 298 (3.4%) | 1.58 |
| 1 | 118 (7.8%) | 909 (59.8%) | 190 (12.5%) | 253 (16.7%) | 7 (0.5%) | 42 (2.8%) | 1.50 |
| 5 | 803 (25.4%) | 1,733 (54.8%) | 242 (7.7%) | 325 (10.3%) | 7 (0.2%) | 51 (1.6%) | 1.10 |
| Total | 2,070 (11.2%) | 8,538 (46.3%) | 2,332 (12.6%) | 3,936 (21.3%) | 253 (1.4%) | 1,320 (7.2%) | 1.77 |
| \*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 | 332 (37.9%) | 536 (61.1%) | 9 (1.0%) |
| 2 | 369 (60.1%) | 235 (38.3%) | 10 (1.6%) |
| 3 | 1,537 (65.9%) | 785 (33.6%) | 12 (0.5%) |
| 5 | 404 (70.1%) | 167 (29.0%) | 5 (0.9%) |
| 1 | 276 (71.3%) | 101 (26.1%) | 10 (2.6%) |
| Total | 2,918 (60.9%) | 1,824 (38.1%) | 46 (1.0%) |
| \*The chi-squared p-value is 0 | | | |
| a0=public/government, 1=private, 2=other | | | |