Economic Clustering Summary Report: Uganda 2016

# Data Summary

**Country Code-year:** UG16

**Number of observations:** 19519

**Number of variables used:** 29

**Variable set used:** 1

**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 #1)

| Cluster Group | has electricity | has television | has cassette/cd/dvd player | has bed | Proportion (%) |
| --- | --- | --- | --- | --- | --- |
| 1 | 1 | 1 | 0 | 0 | 5.09 |
| 1 | 1 | 1 | 0 | 1 |  |
| 2 | 0 | 1 | 1 | 0 | 9.80 |
| 2 | 0 | 1 | 1 | 1 |  |
| 2 | 1 | 0 | 1 | 0 |  |
| 2 | 1 | 0 | 1 | 1 |  |
| 2 | 1 | 1 | 1 | 0 |  |
| 2 | 1 | 1 | 1 | 1 |  |
| 3 | 0 | 0 | 0 | 1 | 54.57 |
| 3 | 0 | 0 | 1 | 1 |  |
| 3 | 0 | 1 | 0 | 1 |  |
| 4 | 1 | 0 | 0 | 1 | 10.55 |
| 5 | 0 | 0 | 0 | 0 | 19.99 |
| 5 | 0 | 0 | 1 | 0 |  |
| 5 | 0 | 1 | 0 | 0 |  |
| 5 | 1 | 0 | 0 | 0 |  |

# Validation Tables

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

| Cluster ID/Children Deceased | 0% | 1-33% | 34-66% | 67+% |
| --- | --- | --- | --- | --- |
| 2\* | 1,929 (89.3%) | 174 (8.1%) | 36 (1.7%) | 20 (0.9%) |
| 1 | 944 (87.8%) | 103 (9.6%) | 22 (2.0%) | 6 (0.6%) |
| 4 | 1,537 (80.1%) | 302 (15.7%) | 63 (3.3%) | 18 (0.9%) |
| 3 | 7,699 (75.9%) | 1,915 (18.9%) | 442 (4.4%) | 91 (0.9%) |
| 5 | 2,288 (72.7%) | 677 (21.5%) | 150 (4.8%) | 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% |
| --- | --- | --- |
| 2\* | 1,929 (89.3%) | 230 (10.7%) |
| 1 | 944 (87.8%) | 131 (12.2%) |
| 4 | 1,537 (80.1%) | 383 (19.9%) |
| 3 | 7,699 (75.9%) | 2,448 (24.1%) |
| 5 | 2,288 (72.7%) | 860 (27.3%) |
| 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. |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 2\*a | 44 (2.0%) | 423 (19.6%) | 232 (10.7%) | 791 (36.6%) | 119 (5.5%) | 550 (25.5%) | 3.00 |
| 1 | 32 (3.0%) | 232 (21.6%) | 134 (12.5%) | 400 (37.2%) | 56 (5.2%) | 221 (20.6%) | 2.82 |
| 4 | 142 (7.4%) | 778 (40.5%) | 281 (14.6%) | 522 (27.2%) | 21 (1.1%) | 176 (9.2%) | 2.02 |
| 3 | 1,049 (10.3%) | 5,377 (53.0%) | 1,445 (14.2%) | 1,903 (18.8%) | 50 (0.5%) | 323 (3.2%) | 1.56 |
| 5 | 803 (25.5%) | 1,728 (54.9%) | 240 (7.6%) | 320 (10.2%) | 7 (0.2%) | 50 (1.6%) | 1.09 |
| 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 |
| --- | --- | --- | --- |
| 2\*a | 259 (39.8%) | 385 (59.1%) | 7 (1.1%) |
| 1 | 128 (40.1%) | 189 (59.2%) | 2 (0.6%) |
| 4 | 336 (59.9%) | 215 (38.3%) | 10 (1.8%) |
| 3 | 1,792 (66.7%) | 873 (32.5%) | 22 (0.8%) |
| 5 | 403 (70.7%) | 162 (28.4%) | 5 (0.9%) |
| 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 | | | |