Economic Clustering Summary Report:   
Democratic Republic of the Congo 2013-14

# Data Summary

**Country Code-year:** CD13

**Number of observations:** 18171

**Number of variables used:** 19

**Variable set used:** 1

**Variables used in the algorithm:** hv206, hv207, hv208, hv210, hv227, hv243a, hv243b, hv244, hv246, sh110h, sh110i, sh110j, sh110l, water, toilet, floor, roof, cookfuel, wall

# 

# Top 10 Variable Sets (Sorted by ASW)

| Set | ASW | Var.1 | Var.2 | Var.3 | Var.4 |
| --- | --- | --- | --- | --- | --- |
| 1 | 0.9058 | has electricity | has television | has mobile telephone | has chair |
| 2 | 0.8894 | has electricity | has television | has bed | roof |
| 3 | 0.8855 | has electricity | has television | has bicycle | has mobile telephone |
| 4 | 0.8828 | has electricity | has television | floor | roof |
| 5 | 0.8817 | has electricity | has television | has mobile telephone | roof |
| 6 | 0.8813 | has electricity | has television | has mobile telephone | has lights |
| 7 | 0.88 | has electricity | has television | has chair | roof |
| 8 | 0.8792 | has electricity | has television | has chair | floor |
| 9 | 0.8789 | has electricity | has television | has watch | has chair |
| 10 | 0.8788 | has electricity | has television | has mosquito bed net for sleeping | has mobile telephone |

# 

# Marginal Distributions

| Variable | Description | % in Top Sets | Distribution |
| --- | --- | --- | --- |
| hv206 | has electricity | 100% | Binary, 10.8% (1/yes) |
| hv208 | has television | 100% | Binary, 12% (1/yes) |
| hv243a | has mobile telephone | 50% | Binary, 34.4% (1/yes) |
| sh110i | has bed | 10% | Binary, 75.6% (1/yes) |
| hv210 | has bicycle | 10% | Binary, 25.5% (1/yes) |
| floor | floor | 20% | Categorical, 0 (finished) = 14.3%,   1 (natural) = 85.1%,   2 (other) = 0.2%,   3 (rudimentary) = 0.4% |
| sh110h | has chair | 40% | Binary, 73.1% (1/yes) |
| hv243b | has watch | 10% | Binary, 29.7% (1/yes) |
| hv227 | has mosquito bed net for sleeping | 10% | Binary, 69.9% (1/yes) |
| roof | roof | 40% | Categorical, 0 (finished) = 29.9%,   1 (natural) = 69.5%,   2 (other) = 0.1%,   3 (rudimentary) = 0.5% |
| sh110j | has lights | 10% | Binary, 58.6% (1/yes) |

# 

# Cluster Configuration (Set #1)

| Cluster Group | has electricity | has television | has mobile telephone | has chair | Proportion (%) |
| --- | --- | --- | --- | --- | --- |
| 1 | 0 | 0 | 1 | 0 | 3.32 |
| 1 | 0 | 1 | 1 | 0 |  |
| 1 | 1 | 0 | 1 | 0 |  |
| 1 | NA | 0 | 1 | 0 |  |
| 2 | 0 | 1 | 1 | 1 | 12.80 |
| 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 |  |
| 2 | 1 | 1 | 1 | NA |  |
| 3 | 0 | 0 | 1 | 1 | 18.49 |
| 3 | 0 | 0 | 1 | NA |  |
| 3 | 0 | NA | 1 | 1 |  |
| 3 | NA | 0 | 1 | 1 |  |
| 4 | 0 | 0 | 0 | 0 | 23.39 |
| 4 | 0 | 0 | NA | 0 |  |
| 4 | 0 | 1 | 0 | 0 |  |
| 4 | 1 | 0 | 0 | 0 |  |
| 4 | NA | 0 | 0 | 0 |  |
| 5 | 0 | 0 | 0 | 1 | 42.00 |
| 5 | 0 | 0 | 0 | NA |  |
| 5 | 0 | 0 | NA | 1 |  |
| 5 | 0 | 1 | 0 | 1 |  |
| 5 | 0 | NA | 0 | 1 |  |
| 5 | 1 | 0 | 0 | 1 |  |
| 5 | NA | 0 | 0 | 1 |  |
| 5 | NA | NA | 0 | NA |  |

# 

# Validation Tables

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

| Cluster ID/Children Deceased | 0% | 1-33% | 34-66% | 67+% |
| --- | --- | --- | --- | --- |
| 2\* | 2,944 (86.0%) | 351 (10.3%) | 93 (2.7%) | 34 (1.0%) |
| 3 | 2,899 (75.1%) | 670 (17.4%) | 233 (6.0%) | 59 (1.5%) |
| 1 | 438 (73.1%) | 104 (17.4%) | 45 (7.5%) | 12 (2.0%) |
| 5 | 5,362 (72.0%) | 1,383 (18.6%) | 556 (7.5%) | 148 (2.0%) |
| 4 | 2,503 (71.6%) | 612 (17.5%) | 298 (8.5%) | 83 (2.4%) |
| Total | 14,146 (75.1%) | 3,120 (16.6%) | 1,225 (6.5%) | 336 (1.8%) |
| \*The chi-squared p-value is 0 | | | | |

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

| Cluster ID/Children Deceased | 0% | >0% |
| --- | --- | --- |
| 2\* | 2,944 (86.0%) | 478 (14.0%) |
| 3 | 2,899 (75.1%) | 962 (24.9%) |
| 1 | 438 (73.1%) | 161 (26.9%) |
| 5 | 5,362 (72.0%) | 2,087 (28.0%) |
| 4 | 2,503 (71.6%) | 993 (28.4%) |
| Total | 14,146 (75.1%) | 4,681 (24.9%) |
| \*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 | 53 (1.5%) | 261 (7.6%) | 150 (4.4%) | 1,725 (50.4%) | 768 (22.4%) | 465 (13.6%) | 3.25 |
| 3 | 364 (9.4%) | 1,004 (26.0%) | 386 (10.0%) | 1,702 (44.1%) | 328 (8.5%) | 77 (2.0%) | 2.22 |
| 1 | 100 (16.7%) | 203 (33.9%) | 54 (9.0%) | 204 (34.1%) | 30 (5.0%) | 8 (1.3%) | 1.81 |
| 5 | 1,650 (22.2%) | 2,810 (37.7%) | 784 (10.5%) | 1,987 (26.7%) | 208 (2.8%) | 10 (0.1%) | 1.51 |
| 4 | 1,190 (34.0%) | 1,380 (39.5%) | 288 (8.2%) | 593 (17.0%) | 44 (1.3%) | 1 (0.0%) | 1.12 |
| Total | 3,357 (17.8%) | 5,658 (30.1%) | 1,662 (8.8%) | 6,211 (33.0%) | 1,378 (7.3%) | 561 (3.0%) | 1.91 |
| \*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 | 108 (23.4%) | 349 (75.7%) | 4 (0.9%) |
| 3 | 119 (36.3%) | 207 (63.1%) | 2 (0.6%) |
| 1 | 17 (37.0%) | 29 (63.0%) | 0 (0.0%) |
| 5 | 107 (37.8%) | 175 (61.8%) | 1 (0.4%) |
| 4 | 39 (37.9%) | 62 (60.2%) | 2 (1.9%) |
| Total | 390 (31.9%) | 822 (67.3%) | 9 (0.7%) |
| \*The chi-squared p-value is 2e-04 | | | |
| a0=public/government, 1=private, 2=other | | | |