Economic Clustering Summary Report: Niger 2012

# Data Summary

**Country Code-year:** NI12

**Number of observations:** 10505

**Number of variables used:** 20

**Variable set used:** 1

**Variables used in the algorithm:** hv206, hv207, hv208, hv210, hv211, hv227, hv237, hv243a, hv243b, hv243c, hv244, hv246, sh110d, sh110m, water, toilet, floor, roof, cookfuel, wall

# Top 10 Variable Sets (Sorted by ASW)

| Set | ASW | Var.1 | Var.2 | Var.3 | Var.4 |
| --- | --- | --- | --- | --- | --- |
| 1 | 0.9532 | Has electricity | Has television | Anything done to water to make safe to drink | VCR/DVD |
| 2 | 0.9425 | Has electricity | Has television | VCR/DVD | Plow |
| 3 | 0.9403 | Has electricity | Has television | Has mobile telephone | VCR/DVD |
| 4 | 0.9313 | Has electricity | Has television | Has mosquito bed net for sleeping | VCR/DVD |
| 5 | 0.9276 | Has electricity | Has television | Has animal-drawn cart | VCR/DVD |
| 6 | 0.9193 | Has electricity | Has television | Anything done to water to make safe to drink | wall |
| 7 | 0.9179 | Has television | Anything done to water to make safe to drink | VCR/DVD | floor |
| 8 | 0.9178 | Has electricity | Has television | Owns land usable for agriculture | VCR/DVD |
| 9 | 0.9176 | Has electricity | Has television | Has motorcycle/scooter | VCR/DVD |
| 10 | 0.9174 | Has electricity | Has television | Has bicycle | VCR/DVD |

# Marginal Distributions

| Variable | Description | % in Top Sets | Distribution |
| --- | --- | --- | --- |
| hv206 | Has electricity | 90% | Binary, 22.6% (1/yes) |
| hv208 | Has television | 100% | Binary, 18.6% (1/yes) |
| hv237 | Anything done to water to make safe to drink | 30% | Binary, 13.9% (1/yes) |
| sh110d | VCR/DVD | 90% | Binary, 14% (1/yes) |
| hv243a | Has mobile telephone | 10% | Binary, 55.3% (1/yes) |
| hv227 | Has mosquito bed net for sleeping | 10% | Binary, 73.5% (1/yes) |
| hv243c | Has animal-drawn cart | 10% | Binary, 18.5% (1/yes) |
| hv244 | Owns land usable for agriculture | 10% | Binary, 72% (1/yes) |
| hv211 | Has motorcycle/scooter | 10% | Binary, 14.5% (1/yes) |
| hv210 | Has bicycle | 10% | Binary, 11% (1/yes) |
| sh110m | Plow | 10% | Binary, 9.6% (1/yes) |
| wall | wall | 10% | Categorical, 0 (finished) = 12.1%,   1 (natural) = 85.8%,   2 (other) = 1.6%,   3 (rudimentary) = 0.5% |
| floor | floor | 10% | Categorical, 0 (finished) = 25%,   1 (natural) = 74.1%,   2 (other) = 0.3%,   3 (rudimentary) = 0.6% |

# Cluster Configuration (Set #1)

| Cluster Group | Has electricity | Has television | Anything done to water to make safe to drink | VCR/DVD | Proportion (%) |
| --- | --- | --- | --- | --- | --- |
| 1 | 1 | 1 | 0 | 0 | 5.11 |
| 1 | 1 | 1 | 1 | 0 |  |
| 2 | 0 | 0 | 1 | 0 | 13.33 |
| 2 | 0 | 0 | 1 | 1 |  |
| 2 | 0 | 1 | 1 | 0 |  |
| 2 | 1 | 0 | 1 | 0 |  |
| 3 | 1 | 0 | 0 | 0 | 4.91 |
| 4 | 0 | 1 | 0 | 1 | 13.17 |
| 4 | 0 | 1 | 1 | 1 |  |
| 4 | 1 | 0 | 0 | 1 |  |
| 4 | 1 | 0 | 1 | 1 |  |
| 4 | 1 | 1 | 0 | 1 |  |
| 4 | 1 | 1 | 1 | 1 |  |
| 5 | 0 | 0 | 0 | 0 | 63.47 |
| 5 | 0 | 0 | 0 | 1 |  |
| 5 | 0 | 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+% |
| --- | --- | --- | --- | --- |
| 4\* | 1,522 (85.1%) | 204 (11.4%) | 48 (2.7%) | 14 (0.8%) |
| 1 | 524 (79.8%) | 99 (15.1%) | 26 (4.0%) | 8 (1.2%) |
| 3 | 357 (69.9%) | 109 (21.3%) | 42 (8.2%) | 3 (0.6%) |
| 5 | 3,897 (59.9%) | 1,721 (26.5%) | 751 (11.6%) | 133 (2.0%) |
| 2 | 781 (53.2%) | 456 (31.0%) | 207 (14.1%) | 25 (1.7%) |
| Total | 7,081 (64.8%) | 2,589 (23.7%) | 1,074 (9.8%) | 183 (1.7%) |
| \*The chi-squared p-value is 0 | | | | |

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

| Cluster ID/Children Deceased | 0% | >0% |
| --- | --- | --- |
| 4\* | 1,522 (85.1%) | 266 (14.9%) |
| 1 | 524 (79.8%) | 133 (20.2%) |
| 3 | 357 (69.9%) | 154 (30.1%) |
| 5 | 3,897 (59.9%) | 2,605 (40.1%) |
| 2 | 781 (53.2%) | 688 (46.8%) |
| Total | 7,081 (64.8%) | 3,846 (35.2%) |
| \*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 | 9 | W. Avg. |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4\*a | 619 (34.6%) | 341 (19.1%) | 50 (2.8%) | 641 (35.9%) | 37 (2.1%) | 93 (5.2%) | 7 (0.4%) | 1.70 |
| 1 | 264 (40.2%) | 144 (21.9%) | 27 (4.1%) | 192 (29.2%) | 9 (1.4%) | 19 (2.9%) | 2 (0.3%) | 1.40 |
| 3 | 368 (72.0%) | 56 (11.0%) | 18 (3.5%) | 66 (12.9%) | 0 (0.0%) | 0 (0.0%) | 3 (0.6%) | 0.62 |
| 5 | 5,657 (87.0%) | 502 (7.7%) | 100 (1.5%) | 233 (3.6%) | 0 (0.0%) | 3 (0.0%) | 7 (0.1%) | 0.23 |
| 2 | 1,266 (86.2%) | 140 (9.5%) | 18 (1.2%) | 42 (2.9%) | 1 (0.1%) | 0 (0.0%) | 2 (0.1%) | 0.22 |
| Total | 8,174 (74.8%) | 1,183 (10.8%) | 213 (1.9%) | 1,174 (10.7%) | 47 (0.4%) | 115 (1.1%) | 21 (0.2%) | 0.54 |
| \*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 | 77 (55.4%) | 42 (30.2%) | 20 (14.4%) |
| 5 | 357 (58.5%) | 151 (24.8%) | 102 (16.7%) |
| 1 | 96 (73.3%) | 29 (22.1%) | 6 (4.6%) |
| 4 | 286 (75.1%) | 75 (19.7%) | 20 (5.2%) |
| 3 | 49 (77.8%) | 13 (20.6%) | 1 (1.6%) |
| Total | 865 (65.3%) | 310 (23.4%) | 149 (11.3%) |
| \*The chi-squared p-value is 0 | | | |
| a0=public/government, 1=private, 2=other | | | |