Economic Clustering Summary Report: Namibia 2013

# Data Summary

**Country Code-year:** NM13

**Number of observations:** 9573

**Number of variables used:** 26

**Variable set used:** 1

**Variables used in the algorithm:** hv206, hv207, hv208, hv209, hv210, hv212, hv227, hv243a, hv243b, hv244, hv246, hv247, hv253, sh110g, sh110h, sh110i, sh110k, sh110l, sh110n, sh110o, water, toilet, floor, roof, cookfuel, wall

# Top 10 Variable Sets (Sorted by ASW)

| Set | ASW | Var.1 | Var.2 | Var.3 | Var.4 |
| --- | --- | --- | --- | --- | --- |
| 1 | 0.9016 | has electricity | has refrigerator | has mobile telephone | microwave |
| 2 | 0.8885 | has electricity | has refrigerator | has mobile telephone | computer/laptop |
| 3 | 0.8848 | has refrigerator | has mobile telephone | computer/laptop | microwave |
| 4 | 0.8822 | has mobile telephone | computer/laptop | stove | microwave |
| 5 | 0.8809 | has refrigerator | has mobile telephone | has bank account | microwave |
| 6 | 0.8794 | has refrigerator | has mobile telephone | stove | microwave |
| 7 | 0.8771 | has electricity | has mobile telephone | computer/laptop | microwave |
| 8 | 0.8768 | has mobile telephone | has bank account | stove | microwave |
| 9 | 0.876 | has refrigerator | has mobile telephone | microwave | floor |
| 10 | 0.8753 | has television | has refrigerator | has mobile telephone | microwave |

# Marginal Distributions

| Variable | Description | % in Top Sets | Distribution |
| --- | --- | --- | --- |
| hv206 | has electricity | 30% | Binary, 48.5% (1/yes) |
| hv209 | has refrigerator | 70% | Binary, 41.6% (1/yes) |
| hv243a | has mobile telephone | 100% | Binary, 87.2% (1/yes) |
| hv208 | has television | 10% | Binary, 43.7% (1/yes) |
| sh110g | computer/laptop | 40% | Binary, 18.8% (1/yes) |
| hv247 | has bank account | 20% | Binary, 73.6% (1/yes) |
| sh110h | stove | 30% | Binary, 46.8% (1/yes) |
| sh110i | microwave | 90% | Binary, 23.9% (1/yes) |
| floor | floor | 10% | Categorical, 0 (finished) = 60.2%,   1 (natural) = 38.9%,   2 (other) = 0.5%,   3 (rudimentary) = 0.5% |

# Cluster Configuration (Set #1)

| Cluster Group | has electricity | has refrigerator | has mobile telephone | microwave | Proportion (%) |
| --- | --- | --- | --- | --- | --- |
| 1 | 0 | 0 | 0 | 0 | 11.90 |
| 1 | 0 | 0 | 0 | 1 |  |
| 1 | 0 | 1 | 0 | 0 |  |
| 1 | 1 | 0 | 0 | 0 |  |
| 2 | 1 | 0 | 1 | 0 | 7.90 |
| 2 | 1 | 0 | 1 | NA |  |
| 3 | 1 | 1 | 0 | 0 | 15.98 |
| 3 | 1 | 1 | 1 | 0 |  |
| 3 | 1 | NA | 0 | 0 |  |
| 3 | 1 | NA | 1 | 0 |  |
| 4 | 0 | 0 | 1 | 0 | 40.51 |
| 4 | 0 | 0 | 1 | 1 |  |
| 4 | 0 | 0 | NA | 0 |  |
| 4 | 0 | 1 | 1 | 0 |  |
| 4 | 0 | NA | NA | NA |  |
| 4 | NA | NA | NA | NA |  |
| 5 | 0 | 1 | 0 | 1 | 23.71 |
| 5 | 0 | 1 | 1 | 1 |  |
| 5 | 1 | 0 | 0 | 1 |  |
| 5 | 1 | 0 | 1 | 1 |  |
| 5 | 1 | 1 | 0 | 1 |  |
| 5 | 1 | 1 | 1 | 1 |  |

# Validation Tables

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

| Cluster ID/Children Deceased | 0% | 1-33% | 34-66% | 67+% |
| --- | --- | --- | --- | --- |
| 5\* | 2,404 (95.7%) | 65 (2.6%) | 31 (1.2%) | 13 (0.5%) |
| 3 | 1,596 (92.1%) | 84 (4.8%) | 34 (2.0%) | 19 (1.1%) |
| 2 | 607 (90.7%) | 42 (6.3%) | 13 (1.9%) | 7 (1.0%) |
| 4 | 3,659 (89.1%) | 303 (7.4%) | 109 (2.7%) | 36 (0.9%) |
| 1 | 604 (83.2%) | 80 (11.0%) | 30 (4.1%) | 12 (1.7%) |
| Total | 8,870 (91.0%) | 574 (5.9%) | 217 (2.2%) | 87 (0.9%) |
| \*The chi-squared p-value is 0 | | | | |

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

| Cluster ID/Children Deceased | 0% | >0% |
| --- | --- | --- |
| 5\* | 2,404 (95.7%) | 109 (4.3%) |
| 3 | 1,596 (92.1%) | 137 (7.9%) |
| 2 | 607 (90.7%) | 62 (9.3%) |
| 4 | 3,659 (89.1%) | 448 (10.9%) |
| 1 | 604 (83.2%) | 122 (16.8%) |
| Total | 8,870 (91.0%) | 878 (9.0%) |
| \*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. |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 5\*a | 32 (1.3%) | 137 (5.5%) | 65 (2.6%) | 1,044 (41.5%) | 737 (29.3%) | 498 (19.8%) | 3.52 |
| 3 | 77 (4.4%) | 192 (11.1%) | 118 (6.8%) | 897 (51.8%) | 323 (18.6%) | 126 (7.3%) | 2.91 |
| 2 | 74 (11.1%) | 117 (17.5%) | 59 (8.8%) | 348 (52.0%) | 61 (9.1%) | 10 (1.5%) | 2.35 |
| 4 | 355 (8.6%) | 901 (21.9%) | 349 (8.5%) | 2,074 (50.5%) | 347 (8.4%) | 81 (2.0%) | 2.34 |
| 1 | 169 (23.3%) | 256 (35.3%) | 59 (8.1%) | 214 (29.5%) | 22 (3.0%) | 6 (0.8%) | 1.56 |
| Total | 707 (7.3%) | 1,603 (16.4%) | 650 (6.7%) | 4,577 (47.0%) | 1,490 (15.3%) | 721 (7.4%) | 2.69 |
| \*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 |
| --- | --- | --- | --- |
| 5\*a | 710 (58.0%) | 490 (40.0%) | 24 (2.0%) |
| 3 | 697 (81.3%) | 138 (16.1%) | 22 (2.6%) |
| 4 | 1,474 (86.2%) | 195 (11.4%) | 40 (2.3%) |
| 2 | 306 (88.7%) | 34 (9.9%) | 5 (1.4%) |
| 1 | 236 (91.1%) | 20 (7.7%) | 3 (1.2%) |
| Total | 3,423 (77.9%) | 877 (20.0%) | 94 (2.1%) |
| \*The chi-squared p-value is 0 | | | |
| a0=public/government, 1=private, 2=other | | | |