Economic Clustering Summary Report: Zambia 2018

# Data Summary

**Country Code-year:** ZM18

**Number of observations:** 12537

**Number of variables used:** 24

**Variable set used:** 1

**Variables used in the algorithm:** hv206, hv207, hv208, hv209, hv210, hv227, hv237, hv243a, hv243b, hv244, hv246, hv247, hv253, sh119, sh121g, sh121h, sh121i, sh121p, water, toilet, floor, roof, cookfuel, wall

# Top 10 Variable Sets (Sorted by ASW)

| Set | ASW | Var.1 | Var.2 | Var.3 | Var.4 |
| --- | --- | --- | --- | --- | --- |
| 1 | 0.9776 | has refrigerator | owns land usable for agriculture | own land usable for agriculture | plough |
| 2 | 0.9755 | owns land usable for agriculture | owns livestock, herds or farm animals | own land usable for agriculture | plough |
| 3 | 0.9691 | has electricity | owns land usable for agriculture | own land usable for agriculture | plough |
| 4 | 0.9585 | owns land usable for agriculture | has bank account | own land usable for agriculture | plough |
| 5 | 0.9558 | has mobile telephone | owns land usable for agriculture | own land usable for agriculture | plough |
| 6 | 0.9527 | has mosquito bed net for sleeping | owns land usable for agriculture | own land usable for agriculture | plough |
| 7 | 0.9523 | has watch | owns land usable for agriculture | own land usable for agriculture | plough |
| 8 | 0.9502 | anything done to water to make safe to drink | owns land usable for agriculture | own land usable for agriculture | plough |
| 9 | 0.9483 | has electricity | has refrigerator | owns land usable for agriculture | own land usable for agriculture |
| 10 | 0.9455 | has television | has refrigerator | owns land usable for agriculture | own land usable for agriculture |

# Marginal Distributions

| Variable | Description | % in Top Sets | Distribution |
| --- | --- | --- | --- |
| hv209 | has refrigerator | 30% | Binary, 18.6% (1/yes) |
| hv244 | owns land usable for agriculture | 100% | Binary, 58.8% (1/yes) |
| hv206 | has electricity | 20% | Binary, 28.2% (1/yes) |
| hv243a | has mobile telephone | 10% | Binary, 70.2% (1/yes) |
| hv227 | has mosquito bed net for sleeping | 10% | Binary, 81.4% (1/yes) |
| hv243b | has watch | 10% | Binary, 20.3% (1/yes) |
| hv237 | anything done to water to make safe to drink | 10% | Binary, 32.3% (1/yes) |
| hv208 | has television | 10% | Binary, 31.5% (1/yes) |
| hv246 | owns livestock, herds or farm animals | 10% | Binary, 46.2% (1/yes) |
| hv247 | has bank account | 10% | Binary, 20.6% (1/yes) |
| sh119 | own land usable for agriculture | 100% | Binary, 58.8% (1/yes) |
| sh121p | plough | 80% | Binary, 10.2% (1/yes) |

# Cluster Configuration (Set #1)

| Cluster Group | has refrigerator | owns land usable for agriculture | own land usable for agriculture | plough | Proportion (%) |
| --- | --- | --- | --- | --- | --- |
| 1 | 1 | 1 | 1 | 0 | 4.15 |
| 2 | 1 | 0 | 0 | 0 | 13.97 |
| 2 | 1 | 0 | 0 | 1 |  |
| 3 | 0 | 1 | 1 | 1 | 9.57 |
| 3 | 1 | 1 | 1 | 1 |  |
| 4 | 0 | 0 | 0 | 0 | 27.20 |
| 4 | 0 | 0 | 0 | 1 |  |
| 5 | 0 | 1 | 1 | 0 | 45.11 |

# Validation Tables

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

| Cluster ID/Children Deceased | 0% | 1-33% | 34-66% | 67+% |
| --- | --- | --- | --- | --- |
| 2\* | 2,094 (90.8%) | 143 (6.2%) | 50 (2.2%) | 19 (0.8%) |
| 1 | 657 (88.5%) | 55 (7.4%) | 24 (3.2%) | 6 (0.8%) |
| 3 | 1,137 (84.5%) | 170 (12.6%) | 29 (2.2%) | 9 (0.7%) |
| 4 | 2,820 (82.8%) | 424 (12.4%) | 127 (3.7%) | 36 (1.1%) |
| 5 | 4,416 (79.4%) | 864 (15.5%) | 230 (4.1%) | 54 (1.0%) |
| Total | 11,124 (83.2%) | 1,656 (12.4%) | 460 (3.4%) | 124 (0.9%) |
| \*The chi-squared p-value is 0 | | | | |

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

| Cluster ID/Children Deceased | 0% | >0% |
| --- | --- | --- |
| 2\* | 2,094 (90.8%) | 212 (9.2%) |
| 1 | 657 (88.5%) | 85 (11.5%) |
| 3 | 1,137 (84.5%) | 208 (15.5%) |
| 4 | 2,820 (82.8%) | 587 (17.2%) |
| 5 | 4,416 (79.4%) | 1,148 (20.6%) |
| Total | 11,124 (83.2%) | 2,240 (16.8%) |
| \*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 | 41 (1.8%) | 171 (7.4%) | 198 (8.6%) | 866 (37.6%) | 572 (24.8%) | 458 (19.9%) | 3.36 |
| 1 | 10 (1.3%) | 60 (8.1%) | 60 (8.1%) | 292 (39.4%) | 172 (23.2%) | 148 (19.9%) | 3.35 |
| 4 | 282 (8.3%) | 1,008 (29.6%) | 544 (16.0%) | 1,208 (35.5%) | 296 (8.7%) | 69 (2.0%) | 2.13 |
| 3 | 104 (7.7%) | 458 (34.1%) | 279 (20.7%) | 412 (30.6%) | 65 (4.8%) | 27 (2.0%) | 1.97 |
| 5 | 700 (12.6%) | 2,481 (44.6%) | 863 (15.5%) | 1,316 (23.7%) | 181 (3.3%) | 23 (0.4%) | 1.62 |
| Total | 1,137 (8.5%) | 4,178 (31.3%) | 1,944 (14.5%) | 4,094 (30.6%) | 1,286 (9.6%) | 725 (5.4%) | 2.18 |
| \*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 | 578 (77.9%) | 161 (21.7%) | 3 (0.4%) |
| 1 | 168 (82.0%) | 37 (18.0%) | 0 (0.0%) |
| 5 | 1,698 (92.0%) | 143 (7.7%) | 5 (0.3%) |
| 4 | 1,118 (92.0%) | 95 (7.8%) | 2 (0.2%) |
| 3 | 422 (93.2%) | 30 (6.6%) | 1 (0.2%) |
| Total | 3,984 (89.3%) | 466 (10.4%) | 11 (0.2%) |
| \*The chi-squared p-value is 0 | | | |
| a0=public/government, 1=private, 2=other | | | |